



Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 365 & FAP 870 (Butterfield Road) Office Phone Number, if available: _____

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

2 S 511 IL 53 (ISGS #1401V3-1)

City: Glen Ellyn State: IL Zip Code: 60137

County: DuPage Township: Milton

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

Latitude: 41.83532 Longitude: -88.05322
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 93

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Locations 1401V3-01-B01 and -B02 were sampled within the construction zone adjacent to ISGS #1401V3-1 (Chicago Kari Bari). Refer to PSI Report for ISGS #1401V3-1 (Chicago Kari Bari) including Table 4-3, and Figure 4-11.

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

See attached data summary table and associated laboratory data package J225165-1.

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

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

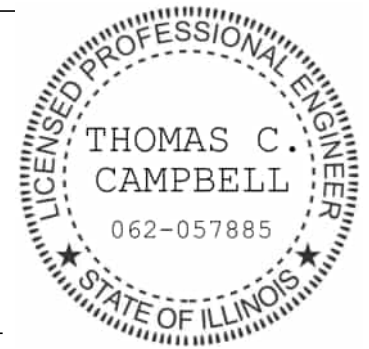
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

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

Tom Campbell
Printed Name:


Licensed Professional Engineer or
Licensed Professional Geologist Signature:

02/09/2023
Date:



Expires 11/30/2023



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

Analytical Data Summary
PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

Key to Data Tables

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

Criteria Qualifiers and Shading

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

PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

CONTAMINANTS OF CONCERN

SITE	ISGS #1401V3-01 (Chicago Kari Bari)		Comparison Criteria					
	1401V3-01-B01	1401V3-01-B02	MACs			TACO		
BORING								
SAMPLE	1401V3-01-B01 (0-2)	1401V3-01-B02 (0-2)						
MATRIX	Soil	Soil						
DEPTH (feet)	0-2	0-2						
pH	7.1	7.5						
PID (meter units)	--	--	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
VOCs (None Detected)								
SVOCs (mg/kg)								
Benzo(a)anthracene	0.014 J	0.0066 J	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	0.016 J	0.0083 J	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	0.023 J	0.013 J	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	0.013 J	ND U	--	--	4.4	--	--	--
Chrysene	0.016 J	0.011 J	88	--	11	88	17,000	--
Fluoranthene	0.024 J	0.013 J	3,100	--	28	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.012 J	ND U	0.9	1.6	5.8	1.6	170	--
Phenanthrene	0.0087 J	0.0065 J	--	--	15	--	--	--
Pyrene	0.024 J	0.013 J	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)								
Antimony	0.33 J	0.27 J	5	--	--	31	82	--
Arsenic	11	8.9	11.3	13	--	13	61	--
Barium	87	84	1,500	--	--	5,500	14,000	--
Beryllium	1.0	0.96	22	--	--	160	410	--
Boron	5.3	12	40	--	--	16,000	41,000	--
Cadmium	0.11	0.16	5.2	--	--	78	200	--
Calcium	6,100	51,000	--	--	--	--	--	--
Chromium	18	17	21	--	--	230	690	--
Cobalt	14	12	20	--	--	4,700	12,000	--
Copper	24	24	2,900	--	--	2,900	8,200	--
Iron	26,000 †m	21,000 †m	15,000	15,900	--	--	--	--
Lead	28	16	107	--	--	400	700	--
Magnesium	5,800	25,000	325,000	--	--	--	730,000	--
Manganese	250	420	630	636	--	1,600	4,100	--
Mercury	0.028	0.032	0.89	--	--	10	0.1	--
Nickel	30	30	100	--	--	1,600	4,100	--
Potassium	1,700	2,600	--	--	--	--	--	--
Silver	0.34	0.29	4.4	--	--	390	1,000	--
Sodium	1,200	1,700	--	--	--	--	--	--
Thallium	0.42 J	ND U	2.6	--	--	6.3	160	--
Vanadium	28	22	550	--	--	550	1,400	--
Zinc	61	59	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)								
Barium	0.86	0.75	--	--	--	--	--	2
Boron	1.3	1.2	--	--	--	--	--	2
Cadmium	ND U	0.0030 J	--	--	--	--	--	0.005
Cobalt	0.028	0.022 J	--	--	--	--	--	1
Iron	0.32 J	ND U	--	--	--	--	--	5
Lead	0.024 L	0.019 L	--	--	--	--	--	0.0075
Manganese	7.6 L	4.6 L	--	--	--	--	--	0.15
Nickel	0.019 J	0.017 J	--	--	--	--	--	0.1
Zinc	0.089 J	0.10 J	--	--	--	--	--	5
SPLP Metals (mg/L)								
Lead	0.10 L	0.14 L	--	--	--	--	--	0.0075
Manganese	0.80 L	1.8 L	--	--	--	--	--	0.15

ANALYTICAL REPORT

PREPARED FOR

Attn: Dean Tiebot
WSP USA Inc.
30 North LaSalle Street
Chicago Illinois 60602
Generated 11/23/2022 5:18:56 PM

JOB DESCRIPTION

IDOT - 196-002-WO 13 IL 56

JOB NUMBER

500-225165-1

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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225165-1

Job ID: 500-225165-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225165-1

Receipt

The samples were received on 11/9/2022 5:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.5° C, 5.5° C and 5.6° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 500-684694 and analytical batch 500-685181 recovered outside control limits for the following analytes: Trichloroethene, Methylene chloride, Carbon tetrachloride, and 1,1-Dichloroethene. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported. 1401V3-01-B01 (0-2) (500-225165-1) and 1401V3-01-B02 (0-2) (500-225165-2)

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

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-686476 was outside the method criteria for the following analyte(s): 4,6-Dinitro-2-methylphenol and Dibenz(a,h)anthracene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with preparation batch 500-685501 and analytical batch 500-686476 had 1 analytes outside control limits: Indeno[1,2,3-cd]pyrene. These results have been reported and qualified.

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

Metals

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

General Chemistry

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

Organic Prep

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

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225165-1

Client Sample ID: 1401V3-01-B01 (0-2)

Lab Sample ID: 500-225165-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0087	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.024	J	0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.024	J	0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.014	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.016	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.023	J	0.037	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.016	J	0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.012	J*+	0.037	0.0096	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.013	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.33	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	87		0.55	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	1.0		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	5.3		2.8	0.26	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.11		0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Calcium	6100		11	1.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	26000		11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	28		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	5800		5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	250		0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		28	9.8	mg/Kg	1	☼	6010B	Total/NA
Silver	0.34		0.28	0.071	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200		55	8.2	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.42	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	28		0.28	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	61		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Barium	0.86		0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.3		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.028		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.32	J	0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.024		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	7.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.089	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.10		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.80		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.028		0.018	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	7.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-01-B02 (0-2)

Lab Sample ID: 500-225165-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0065	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.013	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.013	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0066	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.011	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225165-1

Client Sample ID: 1401V3-01-B02 (0-2) (Continued)

Lab Sample ID: 500-225165-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.013	J	0.038	0.0083	mg/Kg	1	✳		8270D	Total/NA
Benzo[a]pyrene	0.0083	J	0.038	0.0075	mg/Kg	1	✳		8270D	Total/NA
Antimony	0.27	J	1.1	0.22	mg/Kg	1	✳		6010B	Total/NA
Arsenic	8.9		0.57	0.20	mg/Kg	1	✳		6010B	Total/NA
Barium	84		0.57	0.065	mg/Kg	1	✳		6010B	Total/NA
Beryllium	0.96		0.23	0.054	mg/Kg	1	✳		6010B	Total/NA
Boron	12		2.9	0.27	mg/Kg	1	✳		6010B	Total/NA
Cadmium	0.16		0.11	0.021	mg/Kg	1	✳		6010B	Total/NA
Calcium	51000		57	9.7	mg/Kg	5	✳		6010B	Total/NA
Chromium	17		0.57	0.28	mg/Kg	1	✳		6010B	Total/NA
Cobalt	12		0.29	0.075	mg/Kg	1	✳		6010B	Total/NA
Copper	24		0.57	0.16	mg/Kg	1	✳		6010B	Total/NA
Iron	21000		11	6.0	mg/Kg	1	✳		6010B	Total/NA
Lead	16		0.29	0.13	mg/Kg	1	✳		6010B	Total/NA
Magnesium	25000		5.7	2.8	mg/Kg	1	✳		6010B	Total/NA
Manganese	420		0.57	0.083	mg/Kg	1	✳		6010B	Total/NA
Nickel	30		0.57	0.17	mg/Kg	1	✳		6010B	Total/NA
Potassium	2600		29	10	mg/Kg	1	✳		6010B	Total/NA
Silver	0.29		0.29	0.074	mg/Kg	1	✳		6010B	Total/NA
Sodium	1700		57	8.5	mg/Kg	1	✳		6010B	Total/NA
Vanadium	22		0.29	0.068	mg/Kg	1	✳		6010B	Total/NA
Zinc	59		5.7	2.5	mg/Kg	5	✳		6010B	Total/NA
Barium	0.75		0.50	0.050	mg/L	1			6010B	TCLP
Boron	1.2		0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0030	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Cobalt	0.022	J	0.025	0.010	mg/L	1			6010B	TCLP
Lead	0.019		0.0075	0.0075	mg/L	1			6010B	TCLP
Manganese	4.6		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.017	J	0.025	0.010	mg/L	1			6010B	TCLP
Zinc	0.10	J	0.50	0.020	mg/L	1			6010B	TCLP
Lead	0.14		0.0075	0.0075	mg/L	1			6010B	SPLP East
Manganese	1.8		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.032		0.018	0.0060	mg/Kg	1	✳		7471B	Total/NA
pH	7.5		0.2	0.2	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225165-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010B	Metals (ICP)	SW846	EET CHI
6010B	SPLP Metals	SW846	EET CHI
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225165-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225165-1	1401V3-01-B01 (0-2)	Solid	11/09/22 14:10	11/09/22 17:00
500-225165-2	1401V3-01-B02 (0-2)	Solid	11/09/22 14:15	11/09/22 17:00

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225165-1

Client Sample ID: 1401V3-01-B01 (0-2)

Lab Sample ID: 500-225165-1

Date Collected: 11/09/22 14:10

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 88.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.037		0.037	0.016	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
Benzene	<0.0037		0.0037	0.00095	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
Bromodichloromethane	<0.0037		0.0037	0.00076	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
Bromoform	<0.0037		0.0037	0.0011	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
Bromomethane	<0.0093		0.0093	0.0035	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
2-Butanone (MEK)	<0.0093		0.0093	0.0041	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
Carbon disulfide	<0.0093		0.0093	0.0019	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
Carbon tetrachloride	<0.0037	*+	0.0037	0.0011	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
Chlorobenzene	<0.0037		0.0037	0.0014	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
Chloroethane	<0.0093		0.0093	0.0028	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
Chloroform	<0.0037		0.0037	0.0013	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
Chloromethane	<0.0093		0.0093	0.0037	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
cis-1,2-Dichloroethene	<0.0037		0.0037	0.0010	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
cis-1,3-Dichloropropene	<0.0037		0.0037	0.0011	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
Dibromochloromethane	<0.0037		0.0037	0.0012	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
1,1-Dichloroethane	<0.0037		0.0037	0.0013	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
1,2-Dichloroethane	<0.0093		0.0093	0.0029	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
1,1-Dichloroethene	<0.0037	*+	0.0037	0.0013	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
1,2-Dichloropropane	<0.0037		0.0037	0.00096	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
1,3-Dichloropropene, Total	<0.0037		0.0037	0.0013	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
Ethylbenzene	<0.0037		0.0037	0.0018	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
2-Hexanone	<0.0093		0.0093	0.0029	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
Methylene Chloride	<0.0093	*+	0.0093	0.0037	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
4-Methyl-2-pentanone (MIBK)	<0.0093		0.0093	0.0028	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
Methyl tert-butyl ether	<0.0037		0.0037	0.0011	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
Styrene	<0.0037		0.0037	0.0011	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
1,1,2,2-Tetrachloroethane	<0.0037		0.0037	0.0012	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
Tetrachloroethene	<0.0037		0.0037	0.0013	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
Toluene	<0.0037		0.0037	0.00094	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
trans-1,2-Dichloroethene	<0.0037		0.0037	0.0016	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
trans-1,3-Dichloropropene	<0.0037		0.0037	0.0013	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
1,1,1-Trichloroethane	<0.0037		0.0037	0.0012	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
1,1,2-Trichloroethane	<0.0037		0.0037	0.0016	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
Trichloroethene	<0.0037	*+	0.0037	0.0013	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
Vinyl acetate	<0.0093		0.0093	0.0032	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
Vinyl chloride	<0.0037		0.0037	0.0016	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1
Xylenes, Total	<0.0074		0.0074	0.0012	mg/Kg	☼	11/10/22 17:39	11/16/22 13:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		75 - 131	11/10/22 17:39	11/16/22 13:07	1
Dibromofluoromethane	106		75 - 126	11/10/22 17:39	11/16/22 13:07	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	11/10/22 17:39	11/16/22 13:07	1
Toluene-d8 (Surr)	98		75 - 124	11/10/22 17:39	11/16/22 13:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.082	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225165-1

Client Sample ID: 1401V3-01-B01 (0-2)

Lab Sample ID: 500-225165-1

Date Collected: 11/09/22 14:10

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 88.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
2-Methylnaphthalene	<0.075		0.075	0.0068	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Phenanthrene	0.0087	J	0.037	0.0052	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Fluoranthene	0.024	J	0.037	0.0069	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Pyrene	0.024	J	0.037	0.0074	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Benzo[a]anthracene	0.014	J	0.037	0.0050	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225165-1

Client Sample ID: 1401V3-01-B01 (0-2)

Lab Sample ID: 500-225165-1

Date Collected: 11/09/22 14:10

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 88.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.016	J	0.037	0.010	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Benzo[b]fluoranthene	0.023	J	0.037	0.0080	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Benzo[a]pyrene	0.016	J	0.037	0.0072	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Indeno[1,2,3-cd]pyrene	0.012	J**	0.037	0.0096	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
Benzo[g,h,i]perylene	0.013	J	0.037	0.012	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	11/17/22 08:34	11/22/22 15:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	73		31 - 166	11/17/22 08:34	11/22/22 15:31	1
Phenol-d5	68		30 - 153	11/17/22 08:34	11/22/22 15:31	1
Nitrobenzene-d5 (Surr)	58		37 - 147	11/17/22 08:34	11/22/22 15:31	1
2-Fluorobiphenyl (Surr)	57		43 - 145	11/17/22 08:34	11/22/22 15:31	1
2,4,6-Tribromophenol	69		31 - 143	11/17/22 08:34	11/22/22 15:31	1
Terphenyl-d14 (Surr)	117		42 - 157	11/17/22 08:34	11/22/22 15:31	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.1	0.21	mg/Kg	☼	11/14/22 17:20	11/16/22 01:57	1
Arsenic	11		0.55	0.19	mg/Kg	☼	11/14/22 17:20	11/16/22 01:57	1
Barium	87		0.55	0.063	mg/Kg	☼	11/14/22 17:20	11/16/22 01:57	1
Beryllium	1.0		0.22	0.051	mg/Kg	☼	11/14/22 17:20	11/16/22 01:57	1
Boron	5.3		2.8	0.26	mg/Kg	☼	11/14/22 17:20	11/16/22 01:57	1
Cadmium	0.11		0.11	0.020	mg/Kg	☼	11/14/22 17:20	11/16/22 01:57	1
Calcium	6100		11	1.9	mg/Kg	☼	11/14/22 17:20	11/16/22 01:57	1
Chromium	18		0.55	0.27	mg/Kg	☼	11/14/22 17:20	11/16/22 01:57	1
Cobalt	14		0.28	0.072	mg/Kg	☼	11/14/22 17:20	11/16/22 01:57	1
Copper	24		0.55	0.15	mg/Kg	☼	11/14/22 17:20	11/16/22 01:57	1
Iron	26000		11	5.7	mg/Kg	☼	11/14/22 17:20	11/16/22 01:57	1
Lead	28		0.28	0.13	mg/Kg	☼	11/14/22 17:20	11/16/22 01:57	1
Magnesium	5800		5.5	2.7	mg/Kg	☼	11/14/22 17:20	11/16/22 01:57	1
Manganese	250		0.55	0.080	mg/Kg	☼	11/14/22 17:20	11/16/22 01:57	1
Nickel	30		0.55	0.16	mg/Kg	☼	11/14/22 17:20	11/16/22 01:57	1
Potassium	1700		28	9.8	mg/Kg	☼	11/14/22 17:20	11/16/22 01:57	1
Selenium	<0.55		0.55	0.32	mg/Kg	☼	11/14/22 17:20	11/16/22 01:57	1
Silver	0.34		0.28	0.071	mg/Kg	☼	11/14/22 17:20	11/16/22 01:57	1
Sodium	1200		55	8.2	mg/Kg	☼	11/14/22 17:20	11/16/22 01:57	1
Thallium	0.42	J	0.55	0.27	mg/Kg	☼	11/14/22 17:20	11/16/22 01:57	1
Vanadium	28		0.28	0.065	mg/Kg	☼	11/14/22 17:20	11/16/22 01:57	1
Zinc	61		1.1	0.48	mg/Kg	☼	11/14/22 17:20	11/16/22 14:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.86		0.50	0.050	mg/L		11/16/22 17:32	11/17/22 16:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/22 17:32	11/17/22 16:53	1
Boron	1.3		0.50	0.050	mg/L		11/16/22 17:32	11/17/22 16:53	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225165-1

Client Sample ID: 1401V3-01-B01 (0-2)

Lab Sample ID: 500-225165-1

Date Collected: 11/09/22 14:10

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 88.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/16/22 17:32	11/17/22 16:53	1
Chromium	<0.025		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:53	1
Cobalt	0.028		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:53	1
Iron	0.32	J	0.40	0.20	mg/L		11/16/22 17:32	11/17/22 16:53	1
Lead	0.024		0.0075	0.0075	mg/L		11/16/22 17:32	11/17/22 16:53	1
Manganese	7.6		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:53	1
Nickel	0.019	J	0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:53	1
Selenium	<0.050		0.050	0.020	mg/L		11/16/22 17:32	11/17/22 16:53	1
Silver	<0.025		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:53	1
Zinc	0.089	J	0.50	0.020	mg/L		11/16/22 17:32	11/17/22 16:53	1

Method: SW846 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.10		0.0075	0.0075	mg/L		11/16/22 17:36	11/21/22 12:14	1
Manganese	0.80		0.025	0.010	mg/L		11/16/22 17:36	11/21/22 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/16/22 17:32	11/17/22 22:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/16/22 17:32	11/17/22 22:17	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/17/22 12:30	11/18/22 10:13	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.018	0.0058	mg/Kg	☼	11/18/22 13:10	11/21/22 09:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.1		0.2	0.2	SU			11/15/22 21:20	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225165-1

Client Sample ID: 1401V3-01-B02 (0-2)

Lab Sample ID: 500-225165-2

Date Collected: 11/09/22 14:15

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0078	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
Carbon tetrachloride	<0.0018	*+	0.0018	0.00052	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
1,1-Dichloroethene	<0.0018	*+	0.0018	0.00061	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
Methylene Chloride	<0.0045	*+	0.0045	0.0018	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
Trichloroethene	<0.0018	*+	0.0018	0.00060	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	11/10/22 17:39	11/16/22 13:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		75 - 131	11/10/22 17:39	11/16/22 13:32	1
Dibromofluoromethane	112		75 - 126	11/10/22 17:39	11/16/22 13:32	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134	11/10/22 17:39	11/16/22 13:32	1
Toluene-d8 (Surr)	96		75 - 124	11/10/22 17:39	11/16/22 13:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225165-1

Client Sample ID: 1401V3-01-B02 (0-2)

Lab Sample ID: 500-225165-2

Date Collected: 11/09/22 14:15

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Phenanthrene	0.0065	J	0.038	0.0054	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Fluoranthene	0.013	J	0.038	0.0071	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Pyrene	0.013	J	0.038	0.0076	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Benzo[a]anthracene	0.0066	J	0.038	0.0052	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225165-1

Client Sample ID: 1401V3-01-B02 (0-2)

Lab Sample ID: 500-225165-2

Date Collected: 11/09/22 14:15

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.011	J	0.038	0.011	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Benzo[b]fluoranthene	0.013	J	0.038	0.0083	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Benzo[a]pyrene	0.0083	J	0.038	0.0075	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Indeno[1,2,3-cd]pyrene	<0.038	+	0.038	0.010	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	11/17/22 08:34	11/22/22 15:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	82		31 - 166				11/17/22 08:34	11/22/22 15:53	1
Phenol-d5	73		30 - 153				11/17/22 08:34	11/22/22 15:53	1
Nitrobenzene-d5 (Surr)	92		37 - 147				11/17/22 08:34	11/22/22 15:53	1
2-Fluorobiphenyl (Surr)	85		43 - 145				11/17/22 08:34	11/22/22 15:53	1
2,4,6-Tribromophenol	70		31 - 143				11/17/22 08:34	11/22/22 15:53	1
Terphenyl-d14 (Surr)	116		42 - 157				11/17/22 08:34	11/22/22 15:53	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.27	J	1.1	0.22	mg/Kg	☼	11/14/22 17:20	11/16/22 02:01	1
Arsenic	8.9		0.57	0.20	mg/Kg	☼	11/14/22 17:20	11/16/22 02:01	1
Barium	84		0.57	0.065	mg/Kg	☼	11/14/22 17:20	11/16/22 02:01	1
Beryllium	0.96		0.23	0.054	mg/Kg	☼	11/14/22 17:20	11/16/22 02:01	1
Boron	12		2.9	0.27	mg/Kg	☼	11/14/22 17:20	11/16/22 02:01	1
Cadmium	0.16		0.11	0.021	mg/Kg	☼	11/14/22 17:20	11/16/22 02:01	1
Calcium	51000		57	9.7	mg/Kg	☼	11/14/22 17:20	11/16/22 14:40	5
Chromium	17		0.57	0.28	mg/Kg	☼	11/14/22 17:20	11/16/22 02:01	1
Cobalt	12		0.29	0.075	mg/Kg	☼	11/14/22 17:20	11/16/22 02:01	1
Copper	24		0.57	0.16	mg/Kg	☼	11/14/22 17:20	11/16/22 02:01	1
Iron	21000		11	6.0	mg/Kg	☼	11/14/22 17:20	11/16/22 02:01	1
Lead	16		0.29	0.13	mg/Kg	☼	11/14/22 17:20	11/16/22 02:01	1
Magnesium	25000		5.7	2.8	mg/Kg	☼	11/14/22 17:20	11/16/22 02:01	1
Manganese	420		0.57	0.083	mg/Kg	☼	11/14/22 17:20	11/16/22 02:01	1
Nickel	30		0.57	0.17	mg/Kg	☼	11/14/22 17:20	11/16/22 02:01	1
Potassium	2600		29	10	mg/Kg	☼	11/14/22 17:20	11/16/22 02:01	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	11/14/22 17:20	11/16/22 02:01	1
Silver	0.29		0.29	0.074	mg/Kg	☼	11/14/22 17:20	11/16/22 02:01	1
Sodium	1700		57	8.5	mg/Kg	☼	11/14/22 17:20	11/16/22 02:01	1
Thallium	<0.57		0.57	0.29	mg/Kg	☼	11/14/22 17:20	11/16/22 02:01	1
Vanadium	22		0.29	0.068	mg/Kg	☼	11/14/22 17:20	11/16/22 02:01	1
Zinc	59		5.7	2.5	mg/Kg	☼	11/14/22 17:20	11/16/22 14:40	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.75		0.50	0.050	mg/L		11/16/22 17:32	11/17/22 16:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/22 17:32	11/17/22 16:56	1
Boron	1.2		0.50	0.050	mg/L		11/16/22 17:32	11/17/22 16:56	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225165-1

Client Sample ID: 1401V3-01-B02 (0-2)

Lab Sample ID: 500-225165-2

Date Collected: 11/09/22 14:15

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0030	J	0.0050	0.0020	mg/L		11/16/22 17:32	11/17/22 16:56	1
Chromium	<0.025		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:56	1
Cobalt	0.022	J	0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:56	1
Iron	<0.40		0.40	0.20	mg/L		11/16/22 17:32	11/17/22 16:56	1
Lead	0.019		0.0075	0.0075	mg/L		11/16/22 17:32	11/17/22 16:56	1
Manganese	4.6		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:56	1
Nickel	0.017	J	0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:56	1
Selenium	<0.050		0.050	0.020	mg/L		11/16/22 17:32	11/17/22 16:56	1
Silver	<0.025		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:56	1
Zinc	0.10	J	0.50	0.020	mg/L		11/16/22 17:32	11/17/22 16:56	1

Method: SW846 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.14		0.0075	0.0075	mg/L		11/16/22 17:36	11/21/22 12:17	1
Manganese	1.8		0.025	0.010	mg/L		11/16/22 17:36	11/21/22 12:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/16/22 17:32	11/17/22 22:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/16/22 17:32	11/17/22 22:20	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/17/22 12:30	11/18/22 10:16	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.018	0.0060	mg/Kg	☼	11/18/22 13:10	11/21/22 09:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.5		0.2	0.2	SU			11/15/22 21:23	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225165-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

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

Glossary

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

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225165-1

GC/MS VOA

Prep Batch: 684694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225165-1	1401V3-01-B01 (0-2)	Total/NA	Solid	5035	
500-225165-2	1401V3-01-B02 (0-2)	Total/NA	Solid	5035	

Analysis Batch: 685181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225165-1	1401V3-01-B01 (0-2)	Total/NA	Solid	8260B	684694
500-225165-2	1401V3-01-B02 (0-2)	Total/NA	Solid	8260B	684694
MB 500-685181/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-685181/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-685181/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 685501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225165-1	1401V3-01-B01 (0-2)	Total/NA	Solid	3541	
500-225165-2	1401V3-01-B02 (0-2)	Total/NA	Solid	3541	
MB 500-685501/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-685501/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 686476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225165-1	1401V3-01-B01 (0-2)	Total/NA	Solid	8270D	685501
500-225165-2	1401V3-01-B02 (0-2)	Total/NA	Solid	8270D	685501
MB 500-685501/1-A	Method Blank	Total/NA	Solid	8270D	685501
LCS 500-685501/2-A	Lab Control Sample	Total/NA	Solid	8270D	685501

Metals

Prep Batch: 684901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225165-1	1401V3-01-B01 (0-2)	Total/NA	Solid	3050B	
500-225165-2	1401V3-01-B02 (0-2)	Total/NA	Solid	3050B	
MB 500-684901/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-684901/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Leach Batch: 685076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225165-1	1401V3-01-B01 (0-2)	TCLP	Solid	1311	
500-225165-2	1401V3-01-B02 (0-2)	TCLP	Solid	1311	
LB 500-685076/1-B	Method Blank	TCLP	Solid	1311	
LB 500-685076/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 685080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225165-1	1401V3-01-B01 (0-2)	SPLP East	Solid	1312	
500-225165-2	1401V3-01-B02 (0-2)	SPLP East	Solid	1312	
LB 500-685080/1-B	Method Blank	SPLP East	Solid	1312	

Analysis Batch: 685232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225165-1	1401V3-01-B01 (0-2)	Total/NA	Solid	6010B	684901

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225165-1

Metals (Continued)

Analysis Batch: 685232 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225165-2	1401V3-01-B02 (0-2)	Total/NA	Solid	6010B	684901
MB 500-684901/1-A	Method Blank	Total/NA	Solid	6010B	684901
LCS 500-684901/2-A	Lab Control Sample	Total/NA	Solid	6010B	684901

Prep Batch: 685407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225165-1	1401V3-01-B01 (0-2)	TCLP	Solid	3010A	685076
500-225165-2	1401V3-01-B02 (0-2)	TCLP	Solid	3010A	685076
LB 500-685076/1-B	Method Blank	TCLP	Solid	3010A	685076
LCS 500-685407/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 685409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225165-1	1401V3-01-B01 (0-2)	SPLP East	Solid	3010A	685080
500-225165-2	1401V3-01-B02 (0-2)	SPLP East	Solid	3010A	685080
LB 500-685080/1-B	Method Blank	SPLP East	Solid	3010A	685080
LCS 500-685409/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 685531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225165-1	1401V3-01-B01 (0-2)	Total/NA	Solid	6010B	684901
500-225165-2	1401V3-01-B02 (0-2)	Total/NA	Solid	6010B	684901
MB 500-684901/1-A	Method Blank	Total/NA	Solid	6010B	684901
LCS 500-684901/2-A	Lab Control Sample	Total/NA	Solid	6010B	684901

Prep Batch: 685599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225165-1	1401V3-01-B01 (0-2)	TCLP	Solid	7470A	685076
500-225165-2	1401V3-01-B02 (0-2)	TCLP	Solid	7470A	685076
LB 500-685076/1-C	Method Blank	TCLP	Solid	7470A	685076
MB 500-685599/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-685599/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 685772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225165-1	1401V3-01-B01 (0-2)	Total/NA	Solid	7471B	
500-225165-2	1401V3-01-B02 (0-2)	Total/NA	Solid	7471B	
MB 500-685772/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-685772/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 685824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225165-1	1401V3-01-B01 (0-2)	TCLP	Solid	6010B	685407
500-225165-2	1401V3-01-B02 (0-2)	TCLP	Solid	6010B	685407
LB 500-685076/1-B	Method Blank	TCLP	Solid	6010B	685407
LCS 500-685407/2-A	Lab Control Sample	Total/NA	Solid	6010B	685407

Analysis Batch: 685882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225165-1	1401V3-01-B01 (0-2)	TCLP	Solid	6020A	685407
500-225165-2	1401V3-01-B02 (0-2)	TCLP	Solid	6020A	685407

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225165-1

Metals (Continued)

Analysis Batch: 685882 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-685076/1-B	Method Blank	TCLP	Solid	6020A	685407
LCS 500-685407/2-A	Lab Control Sample	Total/NA	Solid	6020A	685407

Analysis Batch: 685896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225165-1	1401V3-01-B01 (0-2)	TCLP	Solid	7470A	685599
500-225165-2	1401V3-01-B02 (0-2)	TCLP	Solid	7470A	685599
LB 500-685076/1-C	Method Blank	TCLP	Solid	7470A	685599
MB 500-685599/12-A	Method Blank	Total/NA	Solid	7470A	685599
LCS 500-685599/14-A	Lab Control Sample	Total/NA	Solid	7470A	685599

Analysis Batch: 686326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225165-1	1401V3-01-B01 (0-2)	Total/NA	Solid	7471B	685772
500-225165-2	1401V3-01-B02 (0-2)	Total/NA	Solid	7471B	685772
MB 500-685772/12-A	Method Blank	Total/NA	Solid	7471B	685772
LCS 500-685772/13-A	Lab Control Sample	Total/NA	Solid	7471B	685772

Analysis Batch: 686365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225165-1	1401V3-01-B01 (0-2)	SPLP East	Solid	6010B	685409
500-225165-2	1401V3-01-B02 (0-2)	SPLP East	Solid	6010B	685409
LB 500-685080/1-B	Method Blank	SPLP East	Solid	6010B	685409
LCS 500-685409/2-A	Lab Control Sample	Total/NA	Solid	6010B	685409

General Chemistry

Analysis Batch: 684582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225165-1	1401V3-01-B01 (0-2)	Total/NA	Solid	Moisture	
500-225165-2	1401V3-01-B02 (0-2)	Total/NA	Solid	Moisture	

Analysis Batch: 685174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225165-1	1401V3-01-B01 (0-2)	Total/NA	Solid	9045D	
500-225165-2	1401V3-01-B02 (0-2)	Total/NA	Solid	9045D	
LCS 500-685174/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-685174/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Surrogate Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225165-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(75-131)	(75-126)	(70-134)	(75-124)
500-225165-1	1401V3-01-B01 (0-2)	106	106	106	98
500-225165-2	1401V3-01-B02 (0-2)	107	112	116	96
LCS 500-685181/3	Lab Control Sample	111	103	100	100
LCS 500-685181/4	Lab Control Sample Dup	110	104	103	100
MB 500-685181/6	Method Blank	102	105	104	97

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP	PHL	NBZ	FBP	TBP	TPHL
		(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-225165-1	1401V3-01-B01 (0-2)	73	68	58	57	69	117
500-225165-2	1401V3-01-B02 (0-2)	82	73	92	85	70	116
LCS 500-685501/2-A	Lab Control Sample	106	101	103	103	105	124
MB 500-685501/1-A	Method Blank	98	96	92	90	75	112

Surrogate Legend

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

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225165-1

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

Lab Sample ID: MB 500-685181/6
Matrix: Solid
Analysis Batch: 685181

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			11/16/22 10:40	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			11/16/22 10:40	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			11/16/22 10:40	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			11/16/22 10:40	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			11/16/22 10:40	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			11/16/22 10:40	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			11/16/22 10:40	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			11/16/22 10:40	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			11/16/22 10:40	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			11/16/22 10:40	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			11/16/22 10:40	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			11/16/22 10:40	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			11/16/22 10:40	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			11/16/22 10:40	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			11/16/22 10:40	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			11/16/22 10:40	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			11/16/22 10:40	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			11/16/22 10:40	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			11/16/22 10:40	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			11/16/22 10:40	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			11/16/22 10:40	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			11/16/22 10:40	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			11/16/22 10:40	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			11/16/22 10:40	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			11/16/22 10:40	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			11/16/22 10:40	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			11/16/22 10:40	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/16/22 10:40	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			11/16/22 10:40	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			11/16/22 10:40	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			11/16/22 10:40	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			11/16/22 10:40	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			11/16/22 10:40	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/16/22 10:40	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			11/16/22 10:40	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			11/16/22 10:40	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			11/16/22 10:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		75 - 131		11/16/22 10:40	1
Dibromofluoromethane	105		75 - 126		11/16/22 10:40	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134		11/16/22 10:40	1
Toluene-d8 (Surr)	97		75 - 124		11/16/22 10:40	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225165-1

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

Lab Sample ID: LCS 500-685181/3
Matrix: Solid
Analysis Batch: 685181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0400	0.0335		mg/Kg		84	40 - 150
Benzene	0.0400	0.0439		mg/Kg		110	70 - 125
Bromodichloromethane	0.0400	0.0465		mg/Kg		116	67 - 129
Bromoform	0.0400	0.0470		mg/Kg		118	68 - 136
Bromomethane	0.0400	0.0510		mg/Kg		128	70 - 130
2-Butanone (MEK)	0.0400	0.0349		mg/Kg		87	47 - 138
Carbon disulfide	0.0400	0.0459		mg/Kg		115	70 - 129
Carbon tetrachloride	0.0400	0.0478		mg/Kg		120	75 - 125
Chlorobenzene	0.0400	0.0462		mg/Kg		115	50 - 150
Chloroethane	0.0400	0.0493		mg/Kg		123	75 - 125
Chloroform	0.0400	0.0420		mg/Kg		105	57 - 135
Chloromethane	0.0400	0.0437		mg/Kg		109	70 - 125
cis-1,2-Dichloroethene	0.0400	0.0444		mg/Kg		111	70 - 125
cis-1,3-Dichloropropene	0.0400	0.0419		mg/Kg		105	70 - 125
Dibromochloromethane	0.0400	0.0445		mg/Kg		111	69 - 125
1,1-Dichloroethane	0.0400	0.0429		mg/Kg		107	70 - 125
1,2-Dichloroethane	0.0400	0.0464		mg/Kg		116	70 - 130
1,1-Dichloroethene	0.0400	0.0484	*+	mg/Kg		121	70 - 120
1,2-Dichloropropane	0.0400	0.0443		mg/Kg		111	70 - 125
Ethylbenzene	0.0400	0.0432		mg/Kg		108	61 - 136
2-Hexanone	0.0400	0.0393		mg/Kg		98	48 - 146
Methylene Chloride	0.0400	0.0503		mg/Kg		126	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0400	0.0332		mg/Kg		83	50 - 148
Methyl tert-butyl ether	0.0400	0.0425		mg/Kg		106	50 - 140
Styrene	0.0400	0.0454		mg/Kg		114	70 - 125
1,1,2,2-Tetrachloroethane	0.0400	0.0408		mg/Kg		102	70 - 122
Tetrachloroethene	0.0400	0.0447		mg/Kg		112	70 - 124
Toluene	0.0400	0.0411		mg/Kg		103	70 - 125
trans-1,2-Dichloroethene	0.0400	0.0462		mg/Kg		116	70 - 125
trans-1,3-Dichloropropene	0.0400	0.0452		mg/Kg		113	70 - 125
1,1,1-Trichloroethane	0.0400	0.0447		mg/Kg		112	70 - 128
1,1,2-Trichloroethane	0.0400	0.0433		mg/Kg		108	70 - 125
Trichloroethene	0.0400	0.0500		mg/Kg		125	70 - 125
Vinyl acetate	0.0400	0.0306		mg/Kg		76	40 - 153
Vinyl chloride	0.0400	0.0502		mg/Kg		125	70 - 125
Xylenes, Total	0.0800	0.0793		mg/Kg		99	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	111		75 - 131
Dibromofluoromethane	103		75 - 126
1,2-Dichloroethane-d4 (Surr)	100		70 - 134
Toluene-d8 (Surr)	100		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225165-1

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

Lab Sample ID: LCSD 500-685181/4
Matrix: Solid
Analysis Batch: 685181

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.0400	0.0319		mg/Kg		80	40 - 150	5	30
Benzene	0.0400	0.0457		mg/Kg		114	70 - 125	4	30
Bromodichloromethane	0.0400	0.0484		mg/Kg		121	67 - 129	4	30
Bromoform	0.0400	0.0511		mg/Kg		128	68 - 136	8	30
Bromomethane	0.0400	0.0498		mg/Kg		124	70 - 130	3	30
2-Butanone (MEK)	0.0400	0.0361		mg/Kg		90	47 - 138	3	30
Carbon disulfide	0.0400	0.0484		mg/Kg		121	70 - 129	5	30
Carbon tetrachloride	0.0400	0.0517	*+	mg/Kg		129	75 - 125	8	30
Chlorobenzene	0.0400	0.0478		mg/Kg		120	50 - 150	3	30
Chloroethane	0.0400	0.0486		mg/Kg		121	75 - 125	1	30
Chloroform	0.0400	0.0429		mg/Kg		107	57 - 135	2	30
Chloromethane	0.0400	0.0431		mg/Kg		108	70 - 125	1	30
cis-1,2-Dichloroethene	0.0400	0.0449		mg/Kg		112	70 - 125	1	30
cis-1,3-Dichloropropene	0.0400	0.0421		mg/Kg		105	70 - 125	0	30
Dibromochloromethane	0.0400	0.0470		mg/Kg		118	69 - 125	5	30
1,1-Dichloroethane	0.0400	0.0429		mg/Kg		107	70 - 125	0	30
1,2-Dichloroethane	0.0400	0.0492		mg/Kg		123	70 - 130	6	30
1,1-Dichloroethene	0.0400	0.0487	*+	mg/Kg		122	70 - 120	1	30
1,2-Dichloropropane	0.0400	0.0468		mg/Kg		117	70 - 125	6	30
Ethylbenzene	0.0400	0.0452		mg/Kg		113	61 - 136	4	30
2-Hexanone	0.0400	0.0434		mg/Kg		108	48 - 146	10	30
Methylene Chloride	0.0400	0.0513	*+	mg/Kg		128	70 - 126	2	30
4-Methyl-2-pentanone (MIBK)	0.0400	0.0359		mg/Kg		90	50 - 148	8	30
Methyl tert-butyl ether	0.0400	0.0481		mg/Kg		120	50 - 140	12	30
Styrene	0.0400	0.0470		mg/Kg		117	70 - 125	3	30
1,1,2,2-Tetrachloroethane	0.0400	0.0463		mg/Kg		116	70 - 122	13	30
Tetrachloroethene	0.0400	0.0467		mg/Kg		117	70 - 124	4	30
Toluene	0.0400	0.0417		mg/Kg		104	70 - 125	2	30
trans-1,2-Dichloroethene	0.0400	0.0470		mg/Kg		117	70 - 125	2	30
trans-1,3-Dichloropropene	0.0400	0.0469		mg/Kg		117	70 - 125	4	30
1,1,1-Trichloroethane	0.0400	0.0498		mg/Kg		124	70 - 128	11	30
1,1,2-Trichloroethane	0.0400	0.0466		mg/Kg		116	70 - 125	7	30
Trichloroethene	0.0400	0.0513	*+	mg/Kg		128	70 - 125	3	30
Vinyl acetate	0.0400	0.0326		mg/Kg		82	40 - 153	6	30
Vinyl chloride	0.0400	0.0481		mg/Kg		120	70 - 125	4	30
Xylenes, Total	0.0800	0.0826		mg/Kg		103	53 - 147	4	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	110		75 - 131
Dibromofluoromethane	104		75 - 126
1,2-Dichloroethane-d4 (Surr)	103		70 - 134
Toluene-d8 (Surr)	100		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225165-1

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

Lab Sample ID: MB 500-685501/1-A
Matrix: Solid
Analysis Batch: 686476

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685501

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Isophorone	<0.17		0.17	0.037	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Carbazole	<0.17		0.17	0.083	mg/Kg		11/17/22 08:34	11/22/22 11:36	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225165-1

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

Lab Sample ID: MB 500-685501/1-A
Matrix: Solid
Analysis Batch: 686476

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685501

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		11/17/22 08:34	11/22/22 11:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	98		31 - 166	11/17/22 08:34	11/22/22 11:36	1
Phenol-d5	96		30 - 153	11/17/22 08:34	11/22/22 11:36	1
Nitrobenzene-d5 (Surr)	92		37 - 147	11/17/22 08:34	11/22/22 11:36	1
2-Fluorobiphenyl (Surr)	90		43 - 145	11/17/22 08:34	11/22/22 11:36	1
2,4,6-Tribromophenol	75		31 - 143	11/17/22 08:34	11/22/22 11:36	1
Terphenyl-d14 (Surr)	112		42 - 157	11/17/22 08:34	11/22/22 11:36	1

Lab Sample ID: LCS 500-685501/2-A
Matrix: Solid
Analysis Batch: 686476

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685501

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.32		mg/Kg		99	56 - 122
Bis(2-chloroethyl)ether	1.33	1.35		mg/Kg		101	55 - 111
1,3-Dichlorobenzene	1.33	1.30		mg/Kg		97	65 - 124
1,4-Dichlorobenzene	1.33	1.31		mg/Kg		98	61 - 110
1,2-Dichlorobenzene	1.33	1.33		mg/Kg		100	62 - 110
2-Methylphenol	1.33	1.57		mg/Kg		118	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.43		mg/Kg		107	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.35		mg/Kg		101	56 - 118
Hexachloroethane	1.33	1.27		mg/Kg		96	60 - 114
2-Chlorophenol	1.33	1.45		mg/Kg		109	64 - 110
Nitrobenzene	1.33	1.44		mg/Kg		108	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.42		mg/Kg		107	60 - 112
1,2,4-Trichlorobenzene	1.33	1.37		mg/Kg		103	66 - 117
Isophorone	1.33	1.35		mg/Kg		101	55 - 110
2,4-Dimethylphenol	1.33	1.42		mg/Kg		107	60 - 110
Hexachlorobutadiene	1.33	1.31		mg/Kg		98	56 - 120
Naphthalene	1.33	1.36		mg/Kg		102	63 - 110
2,4-Dichlorophenol	1.33	1.39		mg/Kg		104	58 - 120

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225165-1

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

Lab Sample ID: LCS 500-685501/2-A
Matrix: Solid
Analysis Batch: 686476

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685501

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloroaniline	1.33	0.940		mg/Kg		71	30 - 150
2,4,6-Trichlorophenol	1.33	1.47		mg/Kg		111	57 - 120
2,4,5-Trichlorophenol	1.33	1.45		mg/Kg		109	50 - 120
Hexachlorocyclopentadiene	1.33	1.24		mg/Kg		93	10 - 133
2-Methylnaphthalene	1.33	1.35		mg/Kg		101	69 - 112
2-Nitroaniline	1.33	1.53		mg/Kg		115	57 - 124
2-Chloronaphthalene	1.33	1.34		mg/Kg		101	69 - 114
4-Chloro-3-methylphenol	1.33	1.54		mg/Kg		116	65 - 122
2,6-Dinitrotoluene	1.33	1.46		mg/Kg		109	70 - 123
2-Nitrophenol	1.33	1.51		mg/Kg		113	60 - 120
3-Nitroaniline	1.33	0.629		mg/Kg		47	40 - 122
Dimethyl phthalate	1.33	1.39		mg/Kg		104	69 - 116
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		19	10 - 100
Acenaphthylene	1.33	1.40		mg/Kg		105	68 - 120
2,4-Dinitrotoluene	1.33	1.52		mg/Kg		114	69 - 124
Acenaphthene	1.33	1.41		mg/Kg		106	65 - 124
Dibenzofuran	1.33	1.38		mg/Kg		104	66 - 115
4-Nitrophenol	2.67	3.05		mg/Kg		114	30 - 122
Fluorene	1.33	1.41		mg/Kg		106	62 - 120
4-Nitroaniline	1.33	1.26		mg/Kg		95	60 - 160
4-Bromophenyl phenyl ether	1.33	1.49		mg/Kg		112	68 - 118
Hexachlorobenzene	1.33	1.48		mg/Kg		111	63 - 124
Diethyl phthalate	1.33	1.40		mg/Kg		105	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.42		mg/Kg		107	62 - 119
Pentachlorophenol	2.67	2.49		mg/Kg		93	13 - 112
N-Nitrosodiphenylamine	1.33	1.45		mg/Kg		109	65 - 112
4,6-Dinitro-2-methylphenol	2.67	2.19		mg/Kg		82	10 - 110
Phenanthrene	1.33	1.49		mg/Kg		111	62 - 120
Anthracene	1.33	1.48		mg/Kg		111	70 - 114
Carbazole	1.33	1.58		mg/Kg		119	65 - 142
Di-n-butyl phthalate	1.33	1.52		mg/Kg		114	65 - 120
Fluoranthene	1.33	1.58		mg/Kg		118	62 - 120
Pyrene	1.33	1.58		mg/Kg		118	61 - 128
Butyl benzyl phthalate	1.33	1.54		mg/Kg		116	71 - 129
Benzo[a]anthracene	1.33	1.46		mg/Kg		110	67 - 122
Chrysene	1.33	1.44		mg/Kg		108	63 - 120
3,3'-Dichlorobenzidine	1.33	1.08		mg/Kg		81	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.58		mg/Kg		118	72 - 131
Di-n-octyl phthalate	1.33	1.62		mg/Kg		121	68 - 134
Benzo[b]fluoranthene	1.33	1.49		mg/Kg		112	69 - 129
Benzo[k]fluoranthene	1.33	1.50		mg/Kg		112	68 - 127
Benzo[a]pyrene	1.33	1.54		mg/Kg		115	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.76	*+	mg/Kg		132	68 - 130
Dibenz(a,h)anthracene	1.33	1.68		mg/Kg		126	64 - 131
Benzo[g,h,i]perylene	1.33	1.68		mg/Kg		126	72 - 131
3 & 4 Methylphenol	1.33	1.57		mg/Kg		118	57 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225165-1

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

Lab Sample ID: LCS 500-685501/2-A
Matrix: Solid
Analysis Batch: 686476

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685501

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	106		31 - 166
Phenol-d5	101		30 - 153
Nitrobenzene-d5 (Surr)	103		37 - 147
2-Fluorobiphenyl (Surr)	103		43 - 145
2,4,6-Tribromophenol	105		31 - 143
Terphenyl-d14 (Surr)	124		42 - 157

Method: 6010B - SPLP Metals

Lab Sample ID: LCS 500-685409/2-A
Matrix: Solid
Analysis Batch: 686365

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685409

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Lead	0.100	0.0911		mg/L		91	80 - 120
Manganese	0.500	0.493		mg/L		99	80 - 120

Lab Sample ID: LB 500-685080/1-B
Matrix: Solid
Analysis Batch: 686365

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 685409

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.0075		0.0075	0.0075	mg/L		11/16/22 17:36	11/21/22 12:01	1
Manganese	<0.025		0.025	0.010	mg/L		11/16/22 17:36	11/21/22 12:01	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-684901/1-A
Matrix: Solid
Analysis Batch: 685232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 684901

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Arsenic	<1.0		1.0	0.34	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Barium	<1.0		1.0	0.11	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Beryllium	<0.40		0.40	0.093	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Boron	<5.0		5.0	0.47	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Cadmium	<0.20		0.20	0.036	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Calcium	<20		20	3.4	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Chromium	<1.0		1.0	0.50	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Cobalt	<0.50		0.50	0.13	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Copper	<1.0		1.0	0.28	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Iron	<20		20	10	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Lead	<0.50		0.50	0.23	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Magnesium	<10		10	5.0	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Manganese	<1.0		1.0	0.15	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Nickel	<1.0		1.0	0.29	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Potassium	<50		50	18	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Selenium	<1.0		1.0	0.59	mg/Kg		11/14/22 17:20	11/16/22 00:25	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225165-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 500-684901/1-A
Matrix: Solid
Analysis Batch: 685232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 684901

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.50		0.50	0.13	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Sodium	<100		100	15	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Thallium	<1.0		1.0	0.50	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Vanadium	<0.50		0.50	0.12	mg/Kg		11/14/22 17:20	11/16/22 00:25	1

Lab Sample ID: MB 500-684901/1-A
Matrix: Solid
Analysis Batch: 685531

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 684901

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	<2.0		2.0	0.88	mg/Kg		11/14/22 17:20	11/16/22 13:44	1

Lab Sample ID: LCS 500-684901/2-A
Matrix: Solid
Analysis Batch: 685232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684901

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	44.6		mg/Kg		89	80 - 120
Arsenic	10.0	8.79		mg/Kg		88	80 - 120
Barium	200	198		mg/Kg		99	80 - 120
Beryllium	5.00	4.79		mg/Kg		96	80 - 120
Boron	100	81.8		mg/Kg		82	80 - 120
Cadmium	5.00	4.56		mg/Kg		91	80 - 120
Calcium	1000	932		mg/Kg		93	80 - 120
Chromium	20.0	18.4		mg/Kg		92	80 - 120
Cobalt	50.0	49.0		mg/Kg		98	80 - 120
Copper	25.0	23.5		mg/Kg		94	80 - 120
Iron	100	97.5		mg/Kg		98	80 - 120
Lead	10.0	9.06		mg/Kg		91	80 - 120
Magnesium	1000	906		mg/Kg		91	80 - 120
Manganese	50.0	46.5		mg/Kg		93	80 - 120
Nickel	50.0	47.5		mg/Kg		95	80 - 120
Potassium	1000	971		mg/Kg		97	80 - 120
Selenium	10.0	8.14		mg/Kg		81	80 - 120
Silver	5.00	4.03		mg/Kg		81	80 - 120
Sodium	1000	1020		mg/Kg		102	80 - 120
Thallium	10.0	8.80		mg/Kg		88	80 - 120
Vanadium	50.0	48.5		mg/Kg		97	80 - 120

Lab Sample ID: LCS 500-684901/2-A
Matrix: Solid
Analysis Batch: 685531

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684901

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	50.0	45.9		mg/Kg		92	80 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225165-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-685407/2-A
Matrix: Solid
Analysis Batch: 685824

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685407

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	Limits
Barium	0.500	0.485	J	mg/L		97	80 - 120	
Beryllium	0.0500	0.0487		mg/L		97	80 - 120	
Boron	1.00	0.916		mg/L		92	80 - 120	
Cadmium	0.0500	0.0516		mg/L		103	80 - 120	
Chromium	0.200	0.196		mg/L		98	80 - 120	
Cobalt	0.500	0.500		mg/L		100	80 - 120	
Iron	1.00	0.961		mg/L		96	80 - 120	
Lead	0.100	0.0944		mg/L		94	80 - 120	
Manganese	0.500	0.481		mg/L		96	80 - 120	
Nickel	0.500	0.490		mg/L		98	80 - 120	
Selenium	0.100	0.105		mg/L		105	80 - 120	
Silver	0.0500	0.0545		mg/L		109	80 - 120	
Zinc	0.500	0.521		mg/L		104	80 - 120	

Lab Sample ID: LB 500-685076/1-B
Matrix: Solid
Analysis Batch: 685824

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685407

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		11/16/22 17:32	11/17/22 16:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/22 17:32	11/17/22 16:30	1
Boron	<0.50		0.50	0.050	mg/L		11/16/22 17:32	11/17/22 16:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/16/22 17:32	11/17/22 16:30	1
Chromium	<0.025		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:30	1
Cobalt	<0.025		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:30	1
Iron	<0.40		0.40	0.20	mg/L		11/16/22 17:32	11/17/22 16:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/16/22 17:32	11/17/22 16:30	1
Manganese	<0.025		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:30	1
Nickel	<0.025		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:30	1
Selenium	<0.050		0.050	0.020	mg/L		11/16/22 17:32	11/17/22 16:30	1
Silver	<0.025		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:30	1
Zinc	<0.50		0.50	0.020	mg/L		11/16/22 17:32	11/17/22 16:30	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-685407/2-A
Matrix: Solid
Analysis Batch: 685882

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685407

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	Limits
Antimony	0.500	0.491		mg/L		98	80 - 120	
Thallium	0.100	0.102		mg/L		102	80 - 120	

Lab Sample ID: LB 500-685076/1-B
Matrix: Solid
Analysis Batch: 685882

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685407

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		11/16/22 17:32	11/17/22 21:53	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225165-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LB 500-685076/1-B
Matrix: Solid
Analysis Batch: 685882

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685407

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		11/16/22 17:32	11/17/22 21:53	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-685599/12-A
Matrix: Solid
Analysis Batch: 685896

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685599

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/17/22 12:30	11/18/22 09:52	1

Lab Sample ID: LCS 500-685599/14-A
Matrix: Solid
Analysis Batch: 685896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685599

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00187		mg/L		94	80 - 120

Lab Sample ID: LB 500-685076/1-C
Matrix: Solid
Analysis Batch: 685896

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685599

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/17/22 12:30	11/18/22 09:54	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-685772/12-A
Matrix: Solid
Analysis Batch: 686326

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685772

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		11/18/22 13:10	11/21/22 09:01	1

Lab Sample ID: LCS 500-685772/13-A
Matrix: Solid
Analysis Batch: 686326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685772

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.146		mg/Kg		88	80 - 120

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225165-1

Client Sample ID: 1401V3-01-B01 (0-2)

Lab Sample ID: 500-225165-1

Date Collected: 11/09/22 14:10

Matrix: Solid

Date Received: 11/09/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685080	AW	EET CHI	11/15/22 13:08 - 11/16/22 13:08 ¹
SPLP East	Prep	3010A			685409	LMB	EET CHI	11/16/22 17:36 - 11/16/22 18:06 ¹
SPLP East	Analysis	6010B		1	686365	JJB	EET CHI	11/21/22 12:14
TCLP	Leach	1311			685076	AW	EET CHI	11/15/22 13:08 - 11/16/22 07:08 ¹
TCLP	Prep	3010A			685407	LMB	EET CHI	11/16/22 17:32 - 11/16/22 18:02 ¹
TCLP	Analysis	6010B		1	685824	JJB	EET CHI	11/17/22 16:53
TCLP	Leach	1311			685076	AW	EET CHI	11/15/22 13:08 - 11/16/22 07:08 ¹
TCLP	Prep	3010A			685407	LMB	EET CHI	11/16/22 17:32 - 11/16/22 18:02 ¹
TCLP	Analysis	6020A		1	685882	FXG	EET CHI	11/17/22 22:17
TCLP	Leach	1311			685076	AW	EET CHI	11/15/22 13:08 - 11/16/22 07:08 ¹
TCLP	Prep	7470A			685599	MJG	EET CHI	11/17/22 12:30 - 11/17/22 14:30 ¹
TCLP	Analysis	7470A		1	685896	MJG	EET CHI	11/18/22 10:13
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 21:20
Total/NA	Analysis	Moisture		1	684582	LWN	EET CHI	11/11/22 16:04

Client Sample ID: 1401V3-01-B01 (0-2)

Lab Sample ID: 500-225165-1

Date Collected: 11/09/22 14:10

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684694	WRE	EET CHI	11/10/22 17:39
Total/NA	Analysis	8260B		1	685181	W1T	EET CHI	11/16/22 13:07
Total/NA	Prep	3541			685501	KN	EET CHI	11/17/22 08:34 - 11/17/22 15:30 ¹
Total/NA	Analysis	8270D		1	686476	SS	EET CHI	11/22/22 15:31
Total/NA	Prep	3050B			684901	LMB	EET CHI	11/14/22 17:20 - 11/14/22 17:50 ¹
Total/NA	Analysis	6010B		1	685232	JJB	EET CHI	11/16/22 01:57
Total/NA	Prep	3050B			684901	LMB	EET CHI	11/14/22 17:20 - 11/14/22 17:50 ¹
Total/NA	Analysis	6010B		1	685531	JJB	EET CHI	11/16/22 14:37
Total/NA	Prep	7471B			685772	MJG	EET CHI	11/18/22 13:10
Total/NA	Analysis	7471B		1	686326	MJG	EET CHI	11/21/22 09:08

Client Sample ID: 1401V3-01-B02 (0-2)

Lab Sample ID: 500-225165-2

Date Collected: 11/09/22 14:15

Matrix: Solid

Date Received: 11/09/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685080	AW	EET CHI	11/15/22 13:08 - 11/16/22 13:08 ¹
SPLP East	Prep	3010A			685409	LMB	EET CHI	11/16/22 17:36 - 11/16/22 18:06 ¹
SPLP East	Analysis	6010B		1	686365	JJB	EET CHI	11/21/22 12:17
TCLP	Leach	1311			685076	AW	EET CHI	11/15/22 13:08 - 11/16/22 07:08 ¹
TCLP	Prep	3010A			685407	LMB	EET CHI	11/16/22 17:32 - 11/16/22 18:02 ¹
TCLP	Analysis	6010B		1	685824	JJB	EET CHI	11/17/22 16:56
TCLP	Leach	1311			685076	AW	EET CHI	11/15/22 13:08 - 11/16/22 07:08 ¹
TCLP	Prep	3010A			685407	LMB	EET CHI	11/16/22 17:32 - 11/16/22 18:02 ¹
TCLP	Analysis	6020A		1	685882	FXG	EET CHI	11/17/22 22:20

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225165-1

Client Sample ID: 1401V3-01-B02 (0-2)

Lab Sample ID: 500-225165-2

Date Collected: 11/09/22 14:15

Matrix: Solid

Date Received: 11/09/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			685076	AW	EET CHI	11/15/22 13:08 - 11/16/22 07:08 ¹
TCLP	Prep	7470A			685599	MJG	EET CHI	11/17/22 12:30 - 11/17/22 14:30 ¹
TCLP	Analysis	7470A		1	685896	MJG	EET CHI	11/18/22 10:16
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 21:23
Total/NA	Analysis	Moisture		1	684582	LWN	EET CHI	11/11/22 16:04

Client Sample ID: 1401V3-01-B02 (0-2)

Lab Sample ID: 500-225165-2

Date Collected: 11/09/22 14:15

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684694	WRE	EET CHI	11/10/22 17:39
Total/NA	Analysis	8260B		1	685181	W1T	EET CHI	11/16/22 13:32
Total/NA	Prep	3541			685501	KN	EET CHI	11/17/22 08:34 - 11/17/22 15:30 ¹
Total/NA	Analysis	8270D		1	686476	SS	EET CHI	11/22/22 15:53
Total/NA	Prep	3050B			684901	LMB	EET CHI	11/14/22 17:20 - 11/14/22 17:50 ¹
Total/NA	Analysis	6010B		1	685232	JJB	EET CHI	11/16/22 02:01
Total/NA	Prep	3050B			684901	LMB	EET CHI	11/14/22 17:20 - 11/14/22 17:50 ¹
Total/NA	Analysis	6010B		5	685531	JJB	EET CHI	11/16/22 14:40
Total/NA	Prep	7471B			685772	MJG	EET CHI	11/18/22 13:10
Total/NA	Analysis	7471B		1	686326	MJG	EET CHI	11/21/22 09:10

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225165-1

Laboratory: Eurofins Chicago

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

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Chain of Custody Record

522926



Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact Company Name: WSP		Project Manager: P. TIEBOUT		Site Contact: A. HAPPE		Date: 11/9/22		COC No: 60	
Address: 30 N. LaSalle		Tel/Email:		Lab Contact: R. WRIGHT		Carrier:		of 7 COCs	
City/State/Zip: Chicago, IL		Analysis Turnaround Time							
Phone: 60603		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							
Project Name: DOT W113 Butterfield Rd.		Filtered Sample (Y/N) _____ Perform MS/MSD (Y/N) _____ PH _____ METALS _____ VOCs _____ SVOCs _____ TCLP* _____							
Site: PN 31403035.013									
P.O.#									
QR Code:		500-225165 COC							
For Lab Use Only		Walk-in Client _____ Lab Sampling _____ Job / SDG No: 500-225165							

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PH	METALS	VOCs	SVOCs	TCLP*	Sample Specific Notes
140113-01-301(0-2)	11/9/22	1410	C	S	2	X	X	X	X	X	X	X	
140113-01-302(0-2)	11/9/22	1415	C	S	2	X	X	X	X	X	X	X	

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other _____

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

Non Hazard Flammable Skin Irritant Poison B Unknown

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

Return to Client Disposal by Lab Archive for _____ Months

Special Instructions/QC Requirements & Comments: *** SPLP dependent on TCLP Analysis** **5.3-25.5, 23-25, 5.4-5.6**

Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No _____	
Relinquished by: Caitlyn Cooper	Company: WSP	Date/Time: 11/9/22 1545	Received by: J.G. Ellias	Company: EETA	Date/Time: 11/9/22 1545		
Relinquished by: J.G. Ellias	Company: EETA	Date/Time: 11/9/22 1700	Received by:	Company:	Date/Time:		
Relinquished by:	Company:	Date/Time:	Received by: Laboratory	Company: EETA	Date/Time: 11/10/22 0750		

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225165-1

Login Number: 225165

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.5,2.5,5.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Eurofins Chicago

Job Notes

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Authorization



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Authorized for release by
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(708)746-0045



Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 365 & FAP 870 (Butterfield Road) Office Phone Number, if available: _____

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

22 W 056 Pinegrove Court, 2 S 572 IL 53, and 22 W 065-668 Ahlstrand Road (ISGS #1401V3-2)

City: Glen Ellyn State: IL Zip Code: 60137

County: DuPage Township: Milton

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

Latitude: 41.83369 Longitude: -88.05457
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 2,010

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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



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

Analytical Data Summary
PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

Key to Data Tables

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

Criteria Qualifiers and Shading

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

**PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11
CONTAMINANTS OF CONCERN**

SITE	ISGS #1401V3-02 (Residences)			Comparison Criteria					
	1401V3-02-B04	1401V3-02-B06	1401V3-02-B07	MACs			TACO		
SAMPLE	1401V3-02-B04 (0-6)	1401V3-02-B06 (0-6)	1401V3-02-B07 (0-6)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
MATRIX	Soil	Soil	Soil						
DEPTH (feet)	0-6	0-6	0-6						
pH	6.3	8.0	8.2						
PID (meter units)	--	--	--						
VOCs (mg/kg)									
2-Butanone (MEK)	0.0083	ND U	ND U	--	--	--	--	--	--
Acetone	0.032	ND U	ND U	25	--	--	70,000	100,000	--
SVOCs (None Detected)									
Inorganics (mg/kg)									
Antimony	0.25 J	0.30 J	0.22 J	5	--	--	31	82	--
Arsenic	8.5	7.6	7.7	11.3	13	--	13	61	--
Barium	100	42	36	1,500	--	--	5,500	14,000	--
Beryllium	0.95	0.79	0.63	22	--	--	160	410	--
Boron	5.0	11	7.5	40	--	--	16,000	41,000	--
Cadmium	0.11 J	0.18	0.18	5.2	--	--	78	200	--
Calcium	2,800	73,000	68,000	--	--	--	--	--	--
Chromium	18	16	11	21	--	--	230	690	--
Cobalt	14	11	9.5	20	--	--	4,700	12,000	--
Copper	21	21	24	2,900	--	--	2,900	8,200	--
Iron	20,000 †m	18,000 †m	16,000 †m	15,000	15,900	--	--	--	--
Lead	18	13	11	107	--	--	400	700	--
Magnesium	3,300	30,000	32,000	325,000	--	--	--	730,000	--
Manganese	170	280	350	630	636	--	1,600	4,100	--
Mercury	0.031	0.024	0.016 J	0.89	--	--	10	0.1	--
Nickel	30	29	21	100	--	--	1,600	4,100	--
Potassium	2,000	2,400	1,500	--	--	--	--	--	--
Silver	0.40	0.19 J	0.19 J	4.4	--	--	390	1,000	--
Sodium	1,400	800	950	--	--	--	--	--	--
Thallium	0.41 J	ND U	0.30 J	2.6	--	--	6.3	160	--
Vanadium	26	18	16	550	--	--	550	1,400	--
Zinc	73	54	50	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)									
Barium	0.74	0.52	0.59	--	--	--	--	--	2
Boron	0.85	0.98	1.3	--	--	--	--	--	2
Cadmium	ND U	0.0041 J	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	0.031	0.028	ND U	--	--	--	--	--	1
Iron	1.2	ND U	0.37 J	--	--	--	--	--	5
Lead	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	4.3 L	3.6 L	0.84 L	--	--	--	--	--	0.15
Nickel	0.020 J	0.027	0.014 J	--	--	--	--	--	0.1
Zinc	0.078 J	0.050 J	0.072 J	--	--	--	--	--	5
SPLP Metals (mg/L)									
Lead	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	1.0 L	0.84 L	0.68 L	--	--	--	--	--	0.15

ANALYTICAL REPORT

PREPARED FOR

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

IDOT - 196-002-WO 13 IL 56

JOB NUMBER

500-225160-1

Eurofins Chicago

Job Notes

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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Job ID: 500-225160-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225160-1

Receipt

The samples were received on 11/9/2022 5:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.5° C, 5.5° C and 5.6° C.

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Method 6010B: The method blank for preparation batch 500-684902 and analytical batch 500-685803 contained Magnesium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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

General Chemistry

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

Organic Prep

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

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B07 (0-6)

Lab Sample ID: 500-225160-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.22	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.7		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	36		0.55	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	7.5		2.7	0.25	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18		0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Calcium	68000	B	55	9.3	mg/Kg	5	☼	6010B	Total/NA
Chromium	11		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.5		0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	32000	B	5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	350	B	0.55	0.079	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		27	9.7	mg/Kg	1	☼	6010B	Total/NA
Silver	0.19	J	0.27	0.070	mg/Kg	1	☼	6010B	Total/NA
Sodium	950		55	8.1	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.30	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	50		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Barium	0.59		0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.3		0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.37	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	0.84		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.072	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.68		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.016	J	0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-02-B06 (0-6)

Lab Sample ID: 500-225160-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.30	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.6		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	42		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.79		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Boron	11		2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18		0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Calcium	73000	B	58	9.9	mg/Kg	5	☼	6010B	Total/NA
Chromium	16		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000	B	5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	280	B	0.58	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	2400		29	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.19	J	0.29	0.075	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B06 (0-6) (Continued)

Lab Sample ID: 500-225160-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	800		58	8.6	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	54		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Barium	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.98		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0041	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.028		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	3.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.027		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.050	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.84		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.024		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B04 (0-6)

Lab Sample ID: 500-225160-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.032		0.021	0.0093	mg/Kg	1	✳	8260B	Total/NA
2-Butanone (MEK)	0.0083		0.0054	0.0024	mg/Kg	1	✳	8260B	Total/NA
Antimony	0.25	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	8.5		0.59	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	100		0.59	0.067	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.95		0.24	0.055	mg/Kg	1	✳	6010B	Total/NA
Boron	5.0		3.0	0.28	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.11	J	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	2800	B	12	2.0	mg/Kg	1	✳	6010B	Total/NA
Chromium	18		0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	14		0.30	0.077	mg/Kg	1	✳	6010B	Total/NA
Copper	21		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	20000	B	12	6.1	mg/Kg	1	✳	6010B	Total/NA
Lead	18		0.30	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	3300	B	5.9	2.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	170	B	0.59	0.086	mg/Kg	1	✳	6010B	Total/NA
Nickel	30		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	2000		30	10	mg/Kg	1	✳	6010B	Total/NA
Silver	0.40		0.30	0.076	mg/Kg	1	✳	6010B	Total/NA
Sodium	1400		59	8.7	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.41	J	0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Vanadium	26		0.30	0.070	mg/Kg	1	✳	6010B	Total/NA
Zinc	73		1.2	0.52	mg/Kg	1	✳	6010B	Total/NA
Barium	0.74		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.85		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.031		0.025	0.010	mg/L	1		6010B	TCLP
Iron	1.2		0.40	0.20	mg/L	1		6010B	TCLP
Manganese	4.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.078	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.031		0.020	0.0066	mg/Kg	1	✳	7471B	Total/NA
pH	6.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-02-B03 (0-6)

Lab Sample ID: 500-225160-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.040		0.028	0.012	mg/Kg	1	✳	8260B	Total/NA
Antimony	0.38	J	1.2	0.24	mg/Kg	1	✳	6010B	Total/NA
Arsenic	8.9		0.62	0.21	mg/Kg	1	✳	6010B	Total/NA
Barium	100		0.62	0.071	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.91		0.25	0.058	mg/Kg	1	✳	6010B	Total/NA
Boron	3.2		3.1	0.29	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.098	J	0.12	0.022	mg/Kg	1	✳	6010B	Total/NA
Calcium	1800	B	12	2.1	mg/Kg	1	✳	6010B	Total/NA
Chromium	18		0.62	0.31	mg/Kg	1	✳	6010B	Total/NA
Cobalt	14		0.31	0.082	mg/Kg	1	✳	6010B	Total/NA
Copper	16		0.62	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	21000	B	12	6.5	mg/Kg	1	✳	6010B	Total/NA
Lead	19		0.31	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	3000	B	6.2	3.1	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B03 (0-6) (Continued)

Lab Sample ID: 500-225160-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	560	B	0.62	0.091	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.62	0.18	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		31	11	mg/Kg	1	☼	6010B	Total/NA
Silver	0.30	J	0.31	0.081	mg/Kg	1	☼	6010B	Total/NA
Sodium	720		62	9.2	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.32	J	0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Vanadium	30		0.31	0.074	mg/Kg	1	☼	6010B	Total/NA
Zinc	55		1.2	0.55	mg/Kg	1	☼	6010B	Total/NA
Barium	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.98		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.027		0.025	0.010	mg/L	1		6010B	TCLP
Iron	2.4		0.40	0.20	mg/L	1		6010B	TCLP
Manganese	10		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.081	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	2.5		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.038		0.020	0.0068	mg/Kg	1	☼	7471B	Total/NA
pH	6.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-02-B02 (0-6)

Lab Sample ID: 500-225160-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.021	J	0.023	0.0099	mg/Kg	1	☼	8260B	Total/NA
Arsenic	6.5		0.61	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	71		0.61	0.069	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.73		0.24	0.057	mg/Kg	1	☼	6010B	Total/NA
Boron	2.9	J	3.0	0.28	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.056	J	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Calcium	1400	B	12	2.1	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.30	0.079	mg/Kg	1	☼	6010B	Total/NA
Copper	14		0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	12	6.3	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2800	B	6.1	3.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	390	B	0.61	0.088	mg/Kg	1	☼	6010B	Total/NA
Nickel	16		0.61	0.18	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		30	11	mg/Kg	1	☼	6010B	Total/NA
Silver	0.20	J	0.30	0.078	mg/Kg	1	☼	6010B	Total/NA
Sodium	820		61	9.0	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.30	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	47		1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.1		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.044		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.61		0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.010		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	4.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.062	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.13		0.0075	0.0075	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B02 (0-6) (Continued)

Lab Sample ID: 500-225160-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	1.6		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.034		0.020	0.0066	mg/Kg	1	⊛	7471B	Total/NA
pH	6.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-02-B01 (0-5)

Lab Sample ID: 500-225160-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.43	J	1.1	0.22	mg/Kg	1	⊛	6010B	Total/NA
Arsenic	9.7		0.57	0.20	mg/Kg	1	⊛	6010B	Total/NA
Barium	69		0.57	0.065	mg/Kg	1	⊛	6010B	Total/NA
Beryllium	0.81		0.23	0.053	mg/Kg	1	⊛	6010B	Total/NA
Boron	7.3		2.9	0.27	mg/Kg	1	⊛	6010B	Total/NA
Cadmium	0.21		0.11	0.021	mg/Kg	1	⊛	6010B	Total/NA
Calcium	24000	B	11	1.9	mg/Kg	1	⊛	6010B	Total/NA
Chromium	16		0.57	0.28	mg/Kg	1	⊛	6010B	Total/NA
Cobalt	17		0.29	0.075	mg/Kg	1	⊛	6010B	Total/NA
Copper	23		0.57	0.16	mg/Kg	1	⊛	6010B	Total/NA
Iron	21000	B	11	5.9	mg/Kg	1	⊛	6010B	Total/NA
Lead	35		0.29	0.13	mg/Kg	1	⊛	6010B	Total/NA
Magnesium	16000	B	5.7	2.8	mg/Kg	1	⊛	6010B	Total/NA
Manganese	490	B	0.57	0.083	mg/Kg	1	⊛	6010B	Total/NA
Nickel	28		0.57	0.17	mg/Kg	1	⊛	6010B	Total/NA
Potassium	1900		29	10	mg/Kg	1	⊛	6010B	Total/NA
Silver	0.30		0.29	0.074	mg/Kg	1	⊛	6010B	Total/NA
Sodium	370		57	8.5	mg/Kg	1	⊛	6010B	Total/NA
Thallium	0.39	J	0.57	0.29	mg/Kg	1	⊛	6010B	Total/NA
Vanadium	21		0.29	0.067	mg/Kg	1	⊛	6010B	Total/NA
Zinc	72		1.1	0.50	mg/Kg	1	⊛	6010B	Total/NA
Barium	0.62		0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.1		0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.69		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.054	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.54		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.025		0.017	0.0058	mg/Kg	1	⊛	7471B	Total/NA
pH	6.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-02-B01 (5-9)

Lab Sample ID: 500-225160-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.36	J	1.1	0.22	mg/Kg	1	⊛	6010B	Total/NA
Arsenic	8.6		0.56	0.19	mg/Kg	1	⊛	6010B	Total/NA
Barium	46		0.56	0.064	mg/Kg	1	⊛	6010B	Total/NA
Beryllium	0.83		0.22	0.052	mg/Kg	1	⊛	6010B	Total/NA
Boron	11		2.8	0.26	mg/Kg	1	⊛	6010B	Total/NA
Cadmium	0.20		0.11	0.020	mg/Kg	1	⊛	6010B	Total/NA
Calcium	59000	B	56	9.5	mg/Kg	5	⊛	6010B	Total/NA
Chromium	16		0.56	0.28	mg/Kg	1	⊛	6010B	Total/NA
Cobalt	13		0.28	0.073	mg/Kg	1	⊛	6010B	Total/NA
Copper	23		0.56	0.16	mg/Kg	1	⊛	6010B	Total/NA
Iron	20000	B	11	5.8	mg/Kg	1	⊛	6010B	Total/NA
Lead	14		0.28	0.13	mg/Kg	1	⊛	6010B	Total/NA
Magnesium	23000	B	5.6	2.8	mg/Kg	1	⊛	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B01 (5-9) (Continued)

Lab Sample ID: 500-225160-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	460	B	0.56	0.081	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2400		28	9.9	mg/Kg	1	☼	6010B	Total/NA
Silver	0.26	J	0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Sodium	850		56	8.3	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	120		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Barium	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.84		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0029	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	3.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.045		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.053	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.71		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.030		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	7.3		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010B	Metals (ICP)	SW846	EET CHI
6010B	SPLP Metals	SW846	EET CHI
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225160-1	1401V3-02-B07 (0-6)	Solid	11/09/22 10:00	11/09/22 17:00
500-225160-2	1401V3-02-B06 (0-6)	Solid	11/09/22 10:25	11/09/22 17:00
500-225160-4	1401V3-02-B04 (0-6)	Solid	11/09/22 10:45	11/09/22 17:00
500-225160-5	1401V3-02-B03 (0-6)	Solid	11/09/22 11:10	11/09/22 17:00
500-225160-6	1401V3-02-B02 (0-6)	Solid	11/09/22 11:25	11/09/22 17:00
500-225160-7	1401V3-02-B01 (0-5)	Solid	11/09/22 11:40	11/09/22 17:00
500-225160-8	1401V3-02-B01 (5-9)	Solid	11/09/22 11:42	11/09/22 17:00

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B07 (0-6)

Lab Sample ID: 500-225160-1

Date Collected: 11/09/22 10:00

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0073	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
Methylene Chloride	<0.0042		0.0042	0.0016	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
Vinyl acetate	<0.0042		0.0042	0.0015	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	11/10/22 17:39	11/14/22 12:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		75 - 131	11/10/22 17:39	11/14/22 12:40	1
Dibromofluoromethane	88		75 - 126	11/10/22 17:39	11/14/22 12:40	1
1,2-Dichloroethane-d4 (Surr)	79		70 - 134	11/10/22 17:39	11/14/22 12:40	1
Toluene-d8 (Surr)	87		75 - 124	11/10/22 17:39	11/14/22 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.28		0.28	0.12	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Bis(2-chloroethyl)ether	<0.28		0.28	0.084	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
1,3-Dichlorobenzene	<0.28		0.28	0.063	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
1,4-Dichlorobenzene	<0.28		0.28	0.072	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B07 (0-6)

Lab Sample ID: 500-225160-1

Date Collected: 11/09/22 10:00

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.28		0.28	0.067	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
2-Methylphenol	<0.28		0.28	0.090	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
2,2'-oxybis[1-chloropropane]	<0.28		0.28	0.065	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
N-Nitrosodi-n-propylamine	<0.11		0.11	0.068	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Hexachloroethane	<0.28		0.28	0.085	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
2-Chlorophenol	<0.28		0.28	0.095	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Nitrobenzene	<0.056		0.056	0.014	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Bis(2-chloroethoxy)methane	<0.28		0.28	0.057	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
1,2,4-Trichlorobenzene	<0.28		0.28	0.060	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Isophorone	<0.28		0.28	0.063	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
2,4-Dimethylphenol	<0.56		0.56	0.21	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Hexachlorobutadiene	<0.28		0.28	0.088	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Naphthalene	<0.056		0.056	0.0086	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
2,4-Dichlorophenol	<0.56		0.56	0.13	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
4-Chloroaniline	<1.1		1.1	0.26	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
2,4,6-Trichlorophenol	<0.56		0.56	0.19	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
2,4,5-Trichlorophenol	<0.56		0.56	0.13	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Hexachlorocyclopentadiene	<1.1		1.1	0.32	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
2-Methylnaphthalene	<0.11		0.11	0.010	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
2-Nitroaniline	<0.28		0.28	0.075	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
2-Chloronaphthalene	<0.28		0.28	0.062	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
4-Chloro-3-methylphenol	<0.56		0.56	0.19	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
2,6-Dinitrotoluene	<0.28		0.28	0.11	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
2-Nitrophenol	<0.56		0.56	0.13	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
3-Nitroaniline	<0.56		0.56	0.17	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Dimethyl phthalate	<0.28		0.28	0.073	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
2,4-Dinitrophenol	<1.1		1.1	0.98	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Acenaphthylene	<0.056		0.056	0.0074	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
2,4-Dinitrotoluene	<0.28		0.28	0.089	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Acenaphthene	<0.056		0.056	0.010	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Dibenzofuran	<0.28		0.28	0.065	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
4-Nitrophenol	<1.1		1.1	0.53	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Fluorene	<0.056		0.056	0.0079	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
4-Nitroaniline	<0.56		0.56	0.23	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
4-Bromophenyl phenyl ether	<0.28		0.28	0.074	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Hexachlorobenzene	<0.11		0.11	0.013	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Diethyl phthalate	<0.28		0.28	0.095	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
4-Chlorophenyl phenyl ether	<0.28		0.28	0.065	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Pentachlorophenol	<1.1		1.1	0.90	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
N-Nitrosodiphenylamine	<0.28		0.28	0.066	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
4,6-Dinitro-2-methylphenol	<1.1		1.1	0.45	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Phenanthrene	<0.056		0.056	0.0078	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Anthracene	<0.056		0.056	0.0093	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Carbazole	<0.28		0.28	0.14	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Di-n-butyl phthalate	<0.28		0.28	0.085	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Fluoranthene	<0.056		0.056	0.010	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Pyrene	<0.056		0.056	0.011	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Butyl benzyl phthalate	<0.28		0.28	0.11	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Benzo[a]anthracene	<0.056		0.056	0.0075	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B07 (0-6)

Lab Sample ID: 500-225160-1

Date Collected: 11/09/22 10:00

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.056		0.056	0.015	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
3,3'-Dichlorobenzidine	<0.28		0.28	0.078	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Bis(2-ethylhexyl) phthalate	<0.28		0.28	0.10	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Di-n-octyl phthalate	<0.28		0.28	0.091	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Benzo[b]fluoranthene	<0.056		0.056	0.012	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Benzo[k]fluoranthene	<0.056		0.056	0.016	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Benzo[a]pyrene	<0.056		0.056	0.011	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Indeno[1,2,3-cd]pyrene	<0.056		0.056	0.014	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Dibenz(a,h)anthracene	<0.056		0.056	0.011	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
Benzo[g,h,i]perylene	<0.056		0.056	0.018	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1
3 & 4 Methylphenol	<0.28		0.28	0.093	mg/Kg	☼	11/16/22 13:40	11/21/22 20:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	71		31 - 166	11/16/22 13:40	11/21/22 20:17	1
Phenol-d5	59		30 - 153	11/16/22 13:40	11/21/22 20:17	1
Nitrobenzene-d5 (Surr)	65		37 - 147	11/16/22 13:40	11/21/22 20:17	1
2-Fluorobiphenyl (Surr)	63		43 - 145	11/16/22 13:40	11/21/22 20:17	1
2,4,6-Tribromophenol	61		31 - 143	11/16/22 13:40	11/21/22 20:17	1
Terphenyl-d14 (Surr)	93		42 - 157	11/16/22 13:40	11/21/22 20:17	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.22	J	1.1	0.21	mg/Kg	☼	11/14/22 17:22	11/17/22 21:28	1
Arsenic	7.7		0.55	0.19	mg/Kg	☼	11/14/22 17:22	11/17/22 21:28	1
Barium	36		0.55	0.062	mg/Kg	☼	11/14/22 17:22	11/17/22 21:28	1
Beryllium	0.63		0.22	0.051	mg/Kg	☼	11/14/22 17:22	11/17/22 21:28	1
Boron	7.5		2.7	0.25	mg/Kg	☼	11/14/22 17:22	11/17/22 21:28	1
Cadmium	0.18		0.11	0.020	mg/Kg	☼	11/14/22 17:22	11/17/22 21:28	1
Calcium	68000	B	55	9.3	mg/Kg	☼	11/14/22 17:22	11/18/22 13:09	5
Chromium	11		0.55	0.27	mg/Kg	☼	11/14/22 17:22	11/17/22 21:28	1
Cobalt	9.5		0.27	0.071	mg/Kg	☼	11/14/22 17:22	11/17/22 21:28	1
Copper	24		0.55	0.15	mg/Kg	☼	11/14/22 17:22	11/17/22 21:28	1
Iron	16000	B	11	5.7	mg/Kg	☼	11/14/22 17:22	11/17/22 21:28	1
Lead	11		0.27	0.13	mg/Kg	☼	11/14/22 17:22	11/17/22 21:28	1
Magnesium	32000	B	5.5	2.7	mg/Kg	☼	11/14/22 17:22	11/17/22 21:28	1
Manganese	350	B	0.55	0.079	mg/Kg	☼	11/14/22 17:22	11/17/22 21:28	1
Nickel	21		0.55	0.16	mg/Kg	☼	11/14/22 17:22	11/17/22 21:28	1
Potassium	1500		27	9.7	mg/Kg	☼	11/14/22 17:22	11/17/22 21:28	1
Selenium	<0.55		0.55	0.32	mg/Kg	☼	11/14/22 17:22	11/17/22 21:28	1
Silver	0.19	J	0.27	0.070	mg/Kg	☼	11/14/22 17:22	11/17/22 21:28	1
Sodium	950		55	8.1	mg/Kg	☼	11/14/22 17:22	11/17/22 21:28	1
Thallium	0.30	J	0.55	0.27	mg/Kg	☼	11/14/22 17:22	11/17/22 21:28	1
Vanadium	16		0.27	0.064	mg/Kg	☼	11/14/22 17:22	11/17/22 21:28	1
Zinc	50		1.1	0.48	mg/Kg	☼	11/14/22 17:22	11/17/22 21:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.59		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 22:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/22 19:01	11/16/22 22:04	1
Boron	1.3		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 22:04	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B07 (0-6)

Lab Sample ID: 500-225160-1

Date Collected: 11/09/22 10:00

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/22 19:01	11/16/22 22:04	1
Chromium	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:04	1
Cobalt	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:04	1
Iron	0.37	J	0.40	0.20	mg/L		11/15/22 19:01	11/16/22 22:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/15/22 19:01	11/16/22 22:04	1
Manganese	0.84		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:04	1
Nickel	0.014	J	0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:04	1
Selenium	<0.050		0.050	0.020	mg/L		11/15/22 19:01	11/16/22 22:04	1
Silver	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:04	1
Zinc	0.072	J	0.50	0.020	mg/L		11/15/22 19:01	11/16/22 22:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.68		0.025	0.010	mg/L		11/15/22 19:05	11/17/22 18:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/15/22 19:01	11/17/22 20:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/15/22 19:01	11/17/22 20:24	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/16/22 11:50	11/17/22 10:47	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.019	0.0062	mg/Kg	☆	11/17/22 15:25	11/18/22 06:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.2		0.2	0.2	SU			11/15/22 21:15	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B06 (0-6)

Lab Sample ID: 500-225160-2

Date Collected: 11/09/22 10:25

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0082	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00066	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
Vinyl acetate	<0.0047		0.0047	0.0016	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1
Xylenes, Total	<0.0038		0.0038	0.00060	mg/Kg	☼	11/10/22 17:39	11/14/22 13:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		75 - 131	11/10/22 17:39	11/14/22 13:06	1
Dibromofluoromethane	91		75 - 126	11/10/22 17:39	11/14/22 13:06	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	11/10/22 17:39	11/14/22 13:06	1
Toluene-d8 (Surr)	83		75 - 124	11/10/22 17:39	11/14/22 13:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.082	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B06 (0-6)

Lab Sample ID: 500-225160-2

Date Collected: 11/09/22 10:25

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.043	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
2-Chlorophenol	<0.18		0.18	0.063	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.038	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Hexachlorobutadiene	<0.18		0.18	0.058	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
2,4-Dichlorophenol	<0.37		0.37	0.087	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
2-Methylnaphthalene	<0.074		0.074	0.0068	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Acenaphthylene	<0.037		0.037	0.0048	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Acenaphthene	<0.037		0.037	0.0066	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.30	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Phenanthrene	<0.037		0.037	0.0051	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Anthracene	<0.037		0.037	0.0061	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Carbazole	<0.18		0.18	0.092	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Fluoranthene	<0.037		0.037	0.0068	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Pyrene	<0.037		0.037	0.0073	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Benzo[a]anthracene	<0.037		0.037	0.0049	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B06 (0-6)

Lab Sample ID: 500-225160-2

Date Collected: 11/09/22 10:25

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Benzo[b]fluoranthene	<0.037		0.037	0.0079	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Benzo[a]pyrene	<0.037		0.037	0.0071	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0095	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0071	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	11/16/22 13:40	11/21/22 20:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	82		31 - 166				11/16/22 13:40	11/21/22 20:38	1
Phenol-d5	71		30 - 153				11/16/22 13:40	11/21/22 20:38	1
Nitrobenzene-d5 (Surr)	76		37 - 147				11/16/22 13:40	11/21/22 20:38	1
2-Fluorobiphenyl (Surr)	75		43 - 145				11/16/22 13:40	11/21/22 20:38	1
2,4,6-Tribromophenol	72		31 - 143				11/16/22 13:40	11/21/22 20:38	1
Terphenyl-d14 (Surr)	110		42 - 157				11/16/22 13:40	11/21/22 20:38	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.30	J	1.2	0.23	mg/Kg	☼	11/14/22 17:22	11/17/22 21:32	1
Arsenic	7.6		0.58	0.20	mg/Kg	☼	11/14/22 17:22	11/17/22 21:32	1
Barium	42		0.58	0.066	mg/Kg	☼	11/14/22 17:22	11/17/22 21:32	1
Beryllium	0.79		0.23	0.054	mg/Kg	☼	11/14/22 17:22	11/17/22 21:32	1
Boron	11		2.9	0.27	mg/Kg	☼	11/14/22 17:22	11/17/22 21:32	1
Cadmium	0.18		0.12	0.021	mg/Kg	☼	11/14/22 17:22	11/17/22 21:32	1
Calcium	73000	B	58	9.9	mg/Kg	☼	11/14/22 17:22	11/18/22 13:12	5
Chromium	16		0.58	0.29	mg/Kg	☼	11/14/22 17:22	11/17/22 21:32	1
Cobalt	11		0.29	0.076	mg/Kg	☼	11/14/22 17:22	11/17/22 21:32	1
Copper	21		0.58	0.16	mg/Kg	☼	11/14/22 17:22	11/17/22 21:32	1
Iron	18000	B	12	6.1	mg/Kg	☼	11/14/22 17:22	11/17/22 21:32	1
Lead	13		0.29	0.13	mg/Kg	☼	11/14/22 17:22	11/17/22 21:32	1
Magnesium	30000	B	5.8	2.9	mg/Kg	☼	11/14/22 17:22	11/17/22 21:32	1
Manganese	280	B	0.58	0.085	mg/Kg	☼	11/14/22 17:22	11/17/22 21:32	1
Nickel	29		0.58	0.17	mg/Kg	☼	11/14/22 17:22	11/17/22 21:32	1
Potassium	2400		29	10	mg/Kg	☼	11/14/22 17:22	11/17/22 21:32	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	11/14/22 17:22	11/17/22 21:32	1
Silver	0.19	J	0.29	0.075	mg/Kg	☼	11/14/22 17:22	11/17/22 21:32	1
Sodium	800		58	8.6	mg/Kg	☼	11/14/22 17:22	11/17/22 21:32	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	11/14/22 17:22	11/17/22 21:32	1
Vanadium	18		0.29	0.069	mg/Kg	☼	11/14/22 17:22	11/17/22 21:32	1
Zinc	54		1.2	0.51	mg/Kg	☼	11/14/22 17:22	11/17/22 21:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.52		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 23:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/22 19:01	11/16/22 23:11	1
Boron	0.98		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 23:11	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B06 (0-6)

Lab Sample ID: 500-225160-2

Date Collected: 11/09/22 10:25

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0041	J	0.0050	0.0020	mg/L		11/15/22 19:01	11/16/22 23:11	1
Chromium	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 23:11	1
Cobalt	0.028		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 23:11	1
Iron	<0.40		0.40	0.20	mg/L		11/15/22 19:01	11/16/22 23:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/15/22 19:01	11/17/22 13:14	1
Manganese	3.6		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 23:11	1
Nickel	0.027		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 23:11	1
Selenium	<0.050		0.050	0.020	mg/L		11/15/22 19:01	11/16/22 23:11	1
Silver	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 23:11	1
Zinc	0.050	J	0.50	0.020	mg/L		11/15/22 19:01	11/16/22 23:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.84		0.025	0.010	mg/L		11/15/22 19:05	11/17/22 18:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/15/22 19:01	11/17/22 21:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/15/22 19:01	11/17/22 21:36	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/16/22 11:50	11/17/22 11:32	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.018	0.0061	mg/Kg	☆	11/17/22 15:25	11/18/22 06:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.0		0.2	0.2	SU			11/15/22 21:18	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B04 (0-6)

Lab Sample ID: 500-225160-4

Date Collected: 11/09/22 10:45

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.032		0.021	0.0093	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
Benzene	<0.0021		0.0021	0.00055	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
Bromodichloromethane	<0.0021		0.0021	0.00044	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
Bromoform	<0.0021		0.0021	0.00063	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
Bromomethane	<0.0054		0.0054	0.0020	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
2-Butanone (MEK)	0.0083		0.0054	0.0024	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
Carbon disulfide	<0.0054		0.0054	0.0011	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
Carbon tetrachloride	<0.0021		0.0021	0.00062	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
Chlorobenzene	<0.0021		0.0021	0.00079	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
Chloroethane	<0.0054		0.0054	0.0016	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
Chloroform	<0.0021		0.0021	0.00074	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
Chloromethane	<0.0054		0.0054	0.0022	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00060	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00065	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
Dibromochloromethane	<0.0021		0.0021	0.00070	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
1,1-Dichloroethane	<0.0021		0.0021	0.00073	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
1,2-Dichloroethane	<0.0054		0.0054	0.0017	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
1,1-Dichloroethene	<0.0021		0.0021	0.00074	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
1,2-Dichloropropane	<0.0021		0.0021	0.00055	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
1,3-Dichloropropane, Total	<0.0021		0.0021	0.00075	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
2-Hexanone	<0.0054		0.0054	0.0017	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
Methylene Chloride	<0.0054		0.0054	0.0021	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0016	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00063	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
Styrene	<0.0021		0.0021	0.00065	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00069	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
Tetrachloroethene	<0.0021		0.0021	0.00073	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
Toluene	<0.0021		0.0021	0.00054	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00095	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00075	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00072	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00092	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
Trichloroethene	<0.0021		0.0021	0.00073	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
Vinyl acetate	<0.0054		0.0054	0.0019	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
Vinyl chloride	<0.0021		0.0021	0.00095	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1
Xylenes, Total	<0.0043		0.0043	0.00069	mg/Kg	☼	11/10/22 17:39	11/14/22 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	11/10/22 17:39	11/14/22 13:56	1
Dibromofluoromethane	88		75 - 126	11/10/22 17:39	11/14/22 13:56	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	11/10/22 17:39	11/14/22 13:56	1
Toluene-d8 (Surr)	83		75 - 124	11/10/22 17:39	11/14/22 13:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.29		0.29	0.13	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Bis(2-chloroethyl)ether	<0.29		0.29	0.087	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
1,3-Dichlorobenzene	<0.29		0.29	0.066	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
1,4-Dichlorobenzene	<0.29		0.29	0.075	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B04 (0-6)

Lab Sample ID: 500-225160-4

Date Collected: 11/09/22 10:45

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.29		0.29	0.070	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
2-Methylphenol	<0.29		0.29	0.093	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
2,2'-oxybis[1-chloropropane]	<0.29		0.29	0.067	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
N-Nitrosodi-n-propylamine	<0.12		0.12	0.071	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Hexachloroethane	<0.29		0.29	0.089	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
2-Chlorophenol	<0.29		0.29	0.099	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Nitrobenzene	<0.058		0.058	0.015	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Bis(2-chloroethoxy)methane	<0.29		0.29	0.059	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
1,2,4-Trichlorobenzene	<0.29		0.29	0.063	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Isophorone	<0.29		0.29	0.065	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
2,4-Dimethylphenol	<0.58		0.58	0.22	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Hexachlorobutadiene	<0.29		0.29	0.092	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Naphthalene	<0.058		0.058	0.0090	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
2,4-Dichlorophenol	<0.58		0.58	0.14	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
4-Chloroaniline	<1.2		1.2	0.27	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
2,4,6-Trichlorophenol	<0.58		0.58	0.20	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
2,4,5-Trichlorophenol	<0.58		0.58	0.13	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Hexachlorocyclopentadiene	<1.2		1.2	0.33	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
2-Methylnaphthalene	<0.12		0.12	0.011	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
2-Nitroaniline	<0.29		0.29	0.078	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
2-Chloronaphthalene	<0.29		0.29	0.064	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
4-Chloro-3-methylphenol	<0.58		0.58	0.20	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
2,6-Dinitrotoluene	<0.29		0.29	0.11	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
2-Nitrophenol	<0.58		0.58	0.14	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
3-Nitroaniline	<0.58		0.58	0.18	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Dimethyl phthalate	<0.29		0.29	0.076	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
2,4-Dinitrophenol	<1.2		1.2	1.0	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Acenaphthylene	<0.058		0.058	0.0077	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
2,4-Dinitrotoluene	<0.29		0.29	0.093	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Acenaphthene	<0.058		0.058	0.010	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Dibenzofuran	<0.29		0.29	0.068	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
4-Nitrophenol	<1.2		1.2	0.55	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Fluorene	<0.058		0.058	0.0082	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
4-Nitroaniline	<0.58		0.58	0.24	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
4-Bromophenyl phenyl ether	<0.29		0.29	0.077	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Hexachlorobenzene	<0.12		0.12	0.013	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Diethyl phthalate	<0.29		0.29	0.099	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
4-Chlorophenyl phenyl ether	<0.29		0.29	0.068	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Pentachlorophenol	<1.2		1.2	0.93	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
N-Nitrosodiphenylamine	<0.29		0.29	0.069	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
4,6-Dinitro-2-methylphenol	<1.2		1.2	0.47	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Phenanthrene	<0.058		0.058	0.0081	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Anthracene	<0.058		0.058	0.0097	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Carbazole	<0.29		0.29	0.15	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Di-n-butyl phthalate	<0.29		0.29	0.089	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Fluoranthene	<0.058		0.058	0.011	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Pyrene	<0.058		0.058	0.012	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Butyl benzyl phthalate	<0.29		0.29	0.11	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Benzo[a]anthracene	<0.058		0.058	0.0078	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B04 (0-6)

Lab Sample ID: 500-225160-4

Date Collected: 11/09/22 10:45

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.058		0.058	0.016	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
3,3'-Dichlorobenzidine	<0.29		0.29	0.082	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Bis(2-ethylhexyl) phthalate	<0.29		0.29	0.11	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Di-n-octyl phthalate	<0.29		0.29	0.095	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Benzo[b]fluoranthene	<0.058		0.058	0.013	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Benzo[k]fluoranthene	<0.058		0.058	0.017	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Benzo[a]pyrene	<0.058		0.058	0.011	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Indeno[1,2,3-cd]pyrene	<0.058		0.058	0.015	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Dibenz(a,h)anthracene	<0.058		0.058	0.011	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
Benzo[g,h,i]perylene	<0.058		0.058	0.019	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1
3 & 4 Methylphenol	<0.29		0.29	0.097	mg/Kg	☼	11/16/22 13:40	11/21/22 21:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	87		31 - 166	11/16/22 13:40	11/21/22 21:21	1
Phenol-d5	85		30 - 153	11/16/22 13:40	11/21/22 21:21	1
Nitrobenzene-d5 (Surr)	87		37 - 147	11/16/22 13:40	11/21/22 21:21	1
2-Fluorobiphenyl (Surr)	85		43 - 145	11/16/22 13:40	11/21/22 21:21	1
2,4,6-Tribromophenol	93		31 - 143	11/16/22 13:40	11/21/22 21:21	1
Terphenyl-d14 (Surr)	125		42 - 157	11/16/22 13:40	11/21/22 21:21	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.25	J	1.2	0.23	mg/Kg	☼	11/14/22 17:22	11/17/22 21:45	1
Arsenic	8.5		0.59	0.20	mg/Kg	☼	11/14/22 17:22	11/17/22 21:45	1
Barium	100		0.59	0.067	mg/Kg	☼	11/14/22 17:22	11/17/22 21:45	1
Beryllium	0.95		0.24	0.055	mg/Kg	☼	11/14/22 17:22	11/17/22 21:45	1
Boron	5.0		3.0	0.28	mg/Kg	☼	11/14/22 17:22	11/17/22 21:45	1
Cadmium	0.11	J	0.12	0.021	mg/Kg	☼	11/14/22 17:22	11/17/22 21:45	1
Calcium	2800	B	12	2.0	mg/Kg	☼	11/14/22 17:22	11/17/22 21:45	1
Chromium	18		0.59	0.29	mg/Kg	☼	11/14/22 17:22	11/17/22 21:45	1
Cobalt	14		0.30	0.077	mg/Kg	☼	11/14/22 17:22	11/17/22 21:45	1
Copper	21		0.59	0.17	mg/Kg	☼	11/14/22 17:22	11/17/22 21:45	1
Iron	20000	B	12	6.1	mg/Kg	☼	11/14/22 17:22	11/17/22 21:45	1
Lead	18		0.30	0.14	mg/Kg	☼	11/14/22 17:22	11/17/22 21:45	1
Magnesium	3300	B	5.9	2.9	mg/Kg	☼	11/14/22 17:22	11/17/22 21:45	1
Manganese	170	B	0.59	0.086	mg/Kg	☼	11/14/22 17:22	11/17/22 21:45	1
Nickel	30		0.59	0.17	mg/Kg	☼	11/14/22 17:22	11/17/22 21:45	1
Potassium	2000		30	10	mg/Kg	☼	11/14/22 17:22	11/17/22 21:45	1
Selenium	<0.59		0.59	0.35	mg/Kg	☼	11/14/22 17:22	11/17/22 21:45	1
Silver	0.40		0.30	0.076	mg/Kg	☼	11/14/22 17:22	11/17/22 21:45	1
Sodium	1400		59	8.7	mg/Kg	☼	11/14/22 17:22	11/17/22 21:45	1
Thallium	0.41	J	0.59	0.29	mg/Kg	☼	11/14/22 17:22	11/17/22 21:45	1
Vanadium	26		0.30	0.070	mg/Kg	☼	11/14/22 17:22	11/17/22 21:45	1
Zinc	73		1.2	0.52	mg/Kg	☼	11/14/22 17:22	11/17/22 21:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.74		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 22:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/22 19:01	11/16/22 22:11	1
Boron	0.85		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 22:11	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B04 (0-6)

Lab Sample ID: 500-225160-4

Date Collected: 11/09/22 10:45

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/22 19:01	11/16/22 22:11	1
Chromium	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:11	1
Cobalt	0.031		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:11	1
Iron	1.2		0.40	0.20	mg/L		11/15/22 19:01	11/16/22 22:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/15/22 19:01	11/16/22 22:11	1
Manganese	4.3		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:11	1
Nickel	0.020	J	0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:11	1
Selenium	<0.050		0.050	0.020	mg/L		11/15/22 19:01	11/16/22 22:11	1
Silver	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:11	1
Zinc	0.078	J	0.50	0.020	mg/L		11/15/22 19:01	11/16/22 22:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.0		0.025	0.010	mg/L		11/15/22 19:05	11/17/22 19:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/15/22 19:01	11/17/22 20:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/15/22 19:01	11/17/22 20:38	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/16/22 11:50	11/17/22 10:51	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.020	0.0066	mg/Kg	☆	11/17/22 15:25	11/18/22 06:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.3		0.2	0.2	SU			11/15/22 21:29	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B03 (0-6)

Lab Sample ID: 500-225160-5

Date Collected: 11/09/22 11:10

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 76.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.040		0.028	0.012	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
Benzene	<0.0028		0.0028	0.00072	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
Bromodichloromethane	<0.0028		0.0028	0.00058	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
Bromoform	<0.0028		0.0028	0.00083	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
Bromomethane	<0.0071		0.0071	0.0027	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
2-Butanone (MEK)	<0.0071		0.0071	0.0031	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
Carbon disulfide	<0.0071		0.0071	0.0015	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
Carbon tetrachloride	<0.0028		0.0028	0.00082	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
Chlorobenzene	<0.0028		0.0028	0.0010	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
Chloroethane	<0.0071		0.0071	0.0021	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
Chloroform	<0.0028		0.0028	0.00098	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
Chloromethane	<0.0071		0.0071	0.0028	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
cis-1,2-Dichloroethene	<0.0028		0.0028	0.00079	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
cis-1,3-Dichloropropene	<0.0028		0.0028	0.00085	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
Dibromochloromethane	<0.0028		0.0028	0.00093	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
1,1-Dichloroethane	<0.0028		0.0028	0.00097	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
1,2-Dichloroethane	<0.0071		0.0071	0.0022	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
1,1-Dichloroethene	<0.0028		0.0028	0.00098	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
1,2-Dichloropropane	<0.0028		0.0028	0.00073	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
1,3-Dichloropropane, Total	<0.0028		0.0028	0.0010	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
Ethylbenzene	<0.0028		0.0028	0.0014	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
2-Hexanone	<0.0071		0.0071	0.0022	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
Methylene Chloride	<0.0071		0.0071	0.0028	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
4-Methyl-2-pentanone (MIBK)	<0.0071		0.0071	0.0021	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
Methyl tert-butyl ether	<0.0028		0.0028	0.00083	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
Styrene	<0.0028		0.0028	0.00086	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
1,1,2,2-Tetrachloroethane	<0.0028		0.0028	0.00091	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
Tetrachloroethene	<0.0028		0.0028	0.00097	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
Toluene	<0.0028		0.0028	0.00072	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
trans-1,2-Dichloroethene	<0.0028		0.0028	0.0013	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
trans-1,3-Dichloropropene	<0.0028		0.0028	0.0010	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
1,1,1-Trichloroethane	<0.0028		0.0028	0.00095	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
1,1,2-Trichloroethane	<0.0028		0.0028	0.0012	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
Trichloroethene	<0.0028		0.0028	0.00096	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
Vinyl acetate	<0.0071		0.0071	0.0025	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
Vinyl chloride	<0.0028		0.0028	0.0013	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1
Xylenes, Total	<0.0057		0.0057	0.00091	mg/Kg	☼	11/10/22 17:39	11/14/22 14:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		75 - 131	11/10/22 17:39	11/14/22 14:22	1
Dibromofluoromethane	89		75 - 126	11/10/22 17:39	11/14/22 14:22	1
1,2-Dichloroethane-d4 (Surr)	83		70 - 134	11/10/22 17:39	11/14/22 14:22	1
Toluene-d8 (Surr)	84		75 - 124	11/10/22 17:39	11/14/22 14:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.32		0.32	0.14	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Bis(2-chloroethyl)ether	<0.32		0.32	0.095	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
1,3-Dichlorobenzene	<0.32		0.32	0.072	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
1,4-Dichlorobenzene	<0.32		0.32	0.082	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B03 (0-6)

Lab Sample ID: 500-225160-5

Date Collected: 11/09/22 11:10

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 76.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.32		0.32	0.076	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
2-Methylphenol	<0.32		0.32	0.10	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
2,2'-oxybis[1-chloropropane]	<0.32		0.32	0.074	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
N-Nitrosodi-n-propylamine	<0.13		0.13	0.078	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Hexachloroethane	<0.32		0.32	0.097	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
2-Chlorophenol	<0.32		0.32	0.11	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Nitrobenzene	<0.063		0.063	0.016	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Bis(2-chloroethoxy)methane	<0.32		0.32	0.065	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
1,2,4-Trichlorobenzene	<0.32		0.32	0.069	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Isophorone	<0.32		0.32	0.071	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
2,4-Dimethylphenol	<0.63		0.63	0.24	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Hexachlorobutadiene	<0.32		0.32	0.10	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Naphthalene	<0.063		0.063	0.0098	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
2,4-Dichlorophenol	<0.63		0.63	0.15	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
4-Chloroaniline	<1.3		1.3	0.30	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
2,4,6-Trichlorophenol	<0.63		0.63	0.22	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
2,4,5-Trichlorophenol	<0.63		0.63	0.15	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Hexachlorocyclopentadiene	<1.3		1.3	0.37	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
2-Methylnaphthalene	<0.13		0.13	0.012	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
2-Nitroaniline	<0.32		0.32	0.086	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
2-Chloronaphthalene	<0.32		0.32	0.070	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
4-Chloro-3-methylphenol	<0.63		0.63	0.22	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
2,6-Dinitrotoluene	<0.32		0.32	0.13	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
2-Nitrophenol	<0.63		0.63	0.15	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
3-Nitroaniline	<0.63		0.63	0.20	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Dimethyl phthalate	<0.32		0.32	0.083	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
2,4-Dinitrophenol	<1.3		1.3	1.1	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Acenaphthylene	<0.063		0.063	0.0084	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
2,4-Dinitrotoluene	<0.32		0.32	0.10	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Acenaphthene	<0.063		0.063	0.011	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Dibenzofuran	<0.32		0.32	0.075	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
4-Nitrophenol	<1.3		1.3	0.61	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Fluorene	<0.063		0.063	0.0089	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
4-Nitroaniline	<0.63		0.63	0.27	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
4-Bromophenyl phenyl ether	<0.32		0.32	0.084	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Hexachlorobenzene	<0.13		0.13	0.015	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Diethyl phthalate	<0.32		0.32	0.11	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
4-Chlorophenyl phenyl ether	<0.32		0.32	0.074	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Pentachlorophenol	<1.3		1.3	1.0	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
N-Nitrosodiphenylamine	<0.32		0.32	0.075	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
4,6-Dinitro-2-methylphenol	<1.3		1.3	0.51	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Phenanthrene	<0.063		0.063	0.0089	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Anthracene	<0.063		0.063	0.011	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Carbazole	<0.32		0.32	0.16	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Di-n-butyl phthalate	<0.32		0.32	0.097	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Fluoranthene	<0.063		0.063	0.012	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Pyrene	<0.063		0.063	0.013	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Butyl benzyl phthalate	<0.32		0.32	0.12	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Benzo[a]anthracene	<0.063		0.063	0.0086	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B03 (0-6)

Lab Sample ID: 500-225160-5

Date Collected: 11/09/22 11:10

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 76.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.063		0.063	0.017	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
3,3'-Dichlorobenzidine	<0.32		0.32	0.089	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Bis(2-ethylhexyl) phthalate	<0.32		0.32	0.12	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Di-n-octyl phthalate	<0.32		0.32	0.10	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Benzo[b]fluoranthene	<0.063		0.063	0.014	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Benzo[k]fluoranthene	<0.063		0.063	0.019	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Benzo[a]pyrene	<0.063		0.063	0.012	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Indeno[1,2,3-cd]pyrene	<0.063		0.063	0.016	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Dibenz(a,h)anthracene	<0.063		0.063	0.012	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Benzo[g,h,i]perylene	<0.063		0.063	0.021	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
3 & 4 Methylphenol	<0.32		0.32	0.11	mg/Kg	☼	11/16/22 13:40	11/21/22 21:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	93		31 - 166				11/16/22 13:40	11/21/22 21:42	1
Phenol-d5	77		30 - 153				11/16/22 13:40	11/21/22 21:42	1
Nitrobenzene-d5 (Surr)	89		37 - 147				11/16/22 13:40	11/21/22 21:42	1
2-Fluorobiphenyl (Surr)	81		43 - 145				11/16/22 13:40	11/21/22 21:42	1
2,4,6-Tribromophenol	72		31 - 143				11/16/22 13:40	11/21/22 21:42	1
Terphenyl-d14 (Surr)	116		42 - 157				11/16/22 13:40	11/21/22 21:42	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.38	J	1.2	0.24	mg/Kg	☼	11/14/22 17:22	11/17/22 21:48	1
Arsenic	8.9		0.62	0.21	mg/Kg	☼	11/14/22 17:22	11/17/22 21:48	1
Barium	100		0.62	0.071	mg/Kg	☼	11/14/22 17:22	11/17/22 21:48	1
Beryllium	0.91		0.25	0.058	mg/Kg	☼	11/14/22 17:22	11/17/22 21:48	1
Boron	3.2		3.1	0.29	mg/Kg	☼	11/14/22 17:22	11/17/22 21:48	1
Cadmium	0.098	J	0.12	0.022	mg/Kg	☼	11/14/22 17:22	11/17/22 21:48	1
Calcium	1800	B	12	2.1	mg/Kg	☼	11/14/22 17:22	11/17/22 21:48	1
Chromium	18		0.62	0.31	mg/Kg	☼	11/14/22 17:22	11/17/22 21:48	1
Cobalt	14		0.31	0.082	mg/Kg	☼	11/14/22 17:22	11/17/22 21:48	1
Copper	16		0.62	0.17	mg/Kg	☼	11/14/22 17:22	11/17/22 21:48	1
Iron	21000	B	12	6.5	mg/Kg	☼	11/14/22 17:22	11/17/22 21:48	1
Lead	19		0.31	0.14	mg/Kg	☼	11/14/22 17:22	11/17/22 21:48	1
Magnesium	3000	B	6.2	3.1	mg/Kg	☼	11/14/22 17:22	11/17/22 21:48	1
Manganese	560	B	0.62	0.091	mg/Kg	☼	11/14/22 17:22	11/17/22 21:48	1
Nickel	22		0.62	0.18	mg/Kg	☼	11/14/22 17:22	11/17/22 21:48	1
Potassium	1400		31	11	mg/Kg	☼	11/14/22 17:22	11/17/22 21:48	1
Selenium	<0.62		0.62	0.37	mg/Kg	☼	11/14/22 17:22	11/17/22 21:48	1
Silver	0.30	J	0.31	0.081	mg/Kg	☼	11/14/22 17:22	11/17/22 21:48	1
Sodium	720		62	9.2	mg/Kg	☼	11/14/22 17:22	11/17/22 21:48	1
Thallium	0.32	J	0.62	0.31	mg/Kg	☼	11/14/22 17:22	11/17/22 21:48	1
Vanadium	30		0.31	0.074	mg/Kg	☼	11/14/22 17:22	11/17/22 21:48	1
Zinc	55		1.2	0.55	mg/Kg	☼	11/14/22 17:22	11/17/22 21:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.48	J	0.50	0.050	mg/L		11/15/22 19:01	11/16/22 22:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/22 19:01	11/16/22 22:14	1
Boron	0.98		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 22:14	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B03 (0-6)

Lab Sample ID: 500-225160-5

Date Collected: 11/09/22 11:10

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 76.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/22 19:01	11/16/22 22:14	1
Chromium	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:14	1
Cobalt	0.027		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:14	1
Iron	2.4		0.40	0.20	mg/L		11/15/22 19:01	11/16/22 22:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/15/22 19:01	11/16/22 22:14	1
Manganese	10		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:14	1
Nickel	0.016 J		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:14	1
Selenium	<0.050		0.050	0.020	mg/L		11/15/22 19:01	11/16/22 22:14	1
Silver	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:14	1
Zinc	0.081 J		0.50	0.020	mg/L		11/15/22 19:01	11/16/22 22:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.5		0.025	0.010	mg/L		11/15/22 19:05	11/17/22 19:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/15/22 19:01	11/17/22 20:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/15/22 19:01	11/17/22 20:41	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/16/22 11:50	11/17/22 10:53	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.020	0.0068	mg/Kg	☆	11/17/22 15:25	11/18/22 06:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.8		0.2	0.2	SU			11/15/22 21:32	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B02 (0-6)

Lab Sample ID: 500-225160-6

Date Collected: 11/09/22 11:25

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.021	J	0.023	0.0099	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
Benzene	<0.0023		0.0023	0.00058	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
Bromodichloromethane	<0.0023		0.0023	0.00046	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
Bromoform	<0.0023		0.0023	0.00066	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
Bromomethane	<0.0057		0.0057	0.0022	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
2-Butanone (MEK)	<0.0057		0.0057	0.0025	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
Carbon disulfide	<0.0057		0.0057	0.0012	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
Carbon tetrachloride	<0.0023		0.0023	0.00066	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
Chlorobenzene	<0.0023		0.0023	0.00084	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
Chloroethane	<0.0057		0.0057	0.0017	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
Chloroform	<0.0023		0.0023	0.00079	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
Chloromethane	<0.0057		0.0057	0.0023	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
cis-1,2-Dichloroethene	<0.0023		0.0023	0.00064	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
cis-1,3-Dichloropropene	<0.0023		0.0023	0.00069	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
Dibromochloromethane	<0.0023		0.0023	0.00074	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
1,1-Dichloroethane	<0.0023		0.0023	0.00078	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
1,2-Dichloroethane	<0.0057		0.0057	0.0018	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
1,1-Dichloroethene	<0.0023		0.0023	0.00078	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
1,2-Dichloropropane	<0.0023		0.0023	0.00059	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
1,3-Dichloropropane, Total	<0.0023		0.0023	0.00080	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
Ethylbenzene	<0.0023		0.0023	0.0011	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
2-Hexanone	<0.0057		0.0057	0.0018	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
Methylene Chloride	<0.0057		0.0057	0.0022	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
4-Methyl-2-pentanone (MIBK)	<0.0057		0.0057	0.0017	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
Methyl tert-butyl ether	<0.0023		0.0023	0.00067	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
Styrene	<0.0023		0.0023	0.00069	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
1,1,2,2-Tetrachloroethane	<0.0023		0.0023	0.00073	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
Tetrachloroethene	<0.0023		0.0023	0.00078	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
Toluene	<0.0023		0.0023	0.00057	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
trans-1,2-Dichloroethene	<0.0023		0.0023	0.0010	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
trans-1,3-Dichloropropene	<0.0023		0.0023	0.00080	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
1,1,1-Trichloroethane	<0.0023		0.0023	0.00076	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
1,1,2-Trichloroethane	<0.0023		0.0023	0.00098	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
Trichloroethene	<0.0023		0.0023	0.00077	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
Vinyl acetate	<0.0057		0.0057	0.0020	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
Vinyl chloride	<0.0023		0.0023	0.0010	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1
Xylenes, Total	<0.0046		0.0046	0.00073	mg/Kg	☼	11/10/22 17:39	11/14/22 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	11/10/22 17:39	11/14/22 14:47	1
Dibromofluoromethane	90		75 - 126	11/10/22 17:39	11/14/22 14:47	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	11/10/22 17:39	11/14/22 14:47	1
Toluene-d8 (Surr)	86		75 - 124	11/10/22 17:39	11/14/22 14:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B02 (0-6)

Lab Sample ID: 500-225160-6

Date Collected: 11/09/22 11:25

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	11/16/22 13:40	11/21/22 22:04	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B02 (0-6)

Lab Sample ID: 500-225160-6

Date Collected: 11/09/22 11:25

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	✳	11/16/22 13:40	11/21/22 22:04	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	✳	11/16/22 13:40	11/21/22 22:04	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	✳	11/16/22 13:40	11/21/22 22:04	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	✳	11/16/22 13:40	11/21/22 22:04	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	✳	11/16/22 13:40	11/21/22 22:04	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	✳	11/16/22 13:40	11/21/22 22:04	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	✳	11/16/22 13:40	11/21/22 22:04	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	✳	11/16/22 13:40	11/21/22 22:04	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	✳	11/16/22 13:40	11/21/22 22:04	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	✳	11/16/22 13:40	11/21/22 22:04	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	✳	11/16/22 13:40	11/21/22 22:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	79		31 - 166	11/16/22 13:40	11/21/22 22:04	1
Phenol-d5	76		30 - 153	11/16/22 13:40	11/21/22 22:04	1
Nitrobenzene-d5 (Surr)	75		37 - 147	11/16/22 13:40	11/21/22 22:04	1
2-Fluorobiphenyl (Surr)	69		43 - 145	11/16/22 13:40	11/21/22 22:04	1
2,4,6-Tribromophenol	73		31 - 143	11/16/22 13:40	11/21/22 22:04	1
Terphenyl-d14 (Surr)	110		42 - 157	11/16/22 13:40	11/21/22 22:04	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	✳	11/14/22 17:22	11/17/22 21:51	1
Arsenic	6.5		0.61	0.21	mg/Kg	✳	11/14/22 17:22	11/17/22 21:51	1
Barium	71		0.61	0.069	mg/Kg	✳	11/14/22 17:22	11/17/22 21:51	1
Beryllium	0.73		0.24	0.057	mg/Kg	✳	11/14/22 17:22	11/17/22 21:51	1
Boron	2.9 J		3.0	0.28	mg/Kg	✳	11/14/22 17:22	11/17/22 21:51	1
Cadmium	0.056 J		0.12	0.022	mg/Kg	✳	11/14/22 17:22	11/17/22 21:51	1
Calcium	1400 B		12	2.1	mg/Kg	✳	11/14/22 17:22	11/17/22 21:51	1
Chromium	16		0.61	0.30	mg/Kg	✳	11/14/22 17:22	11/17/22 21:51	1
Cobalt	11		0.30	0.079	mg/Kg	✳	11/14/22 17:22	11/17/22 21:51	1
Copper	14		0.61	0.17	mg/Kg	✳	11/14/22 17:22	11/17/22 21:51	1
Iron	18000 B		12	6.3	mg/Kg	✳	11/14/22 17:22	11/17/22 21:51	1
Lead	16		0.30	0.14	mg/Kg	✳	11/14/22 17:22	11/17/22 21:51	1
Magnesium	2800 B		6.1	3.0	mg/Kg	✳	11/14/22 17:22	11/17/22 21:51	1
Manganese	390 B		0.61	0.088	mg/Kg	✳	11/14/22 17:22	11/17/22 21:51	1
Nickel	16		0.61	0.18	mg/Kg	✳	11/14/22 17:22	11/17/22 21:51	1
Potassium	1200		30	11	mg/Kg	✳	11/14/22 17:22	11/17/22 21:51	1
Selenium	<0.61		0.61	0.36	mg/Kg	✳	11/14/22 17:22	11/17/22 21:51	1
Silver	0.20 J		0.30	0.078	mg/Kg	✳	11/14/22 17:22	11/17/22 21:51	1
Sodium	820		61	9.0	mg/Kg	✳	11/14/22 17:22	11/17/22 21:51	1
Thallium	<0.61		0.61	0.30	mg/Kg	✳	11/14/22 17:22	11/17/22 21:51	1
Vanadium	24		0.30	0.071	mg/Kg	✳	11/14/22 17:22	11/17/22 21:51	1
Zinc	47		1.2	0.53	mg/Kg	✳	11/14/22 17:22	11/17/22 21:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.44 J		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 22:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/22 19:01	11/16/22 22:18	1
Boron	1.1		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 22:18	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B02 (0-6)

Lab Sample ID: 500-225160-6

Date Collected: 11/09/22 11:25

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/22 19:01	11/16/22 22:18	1
Chromium	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:18	1
Cobalt	0.044		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:18	1
Iron	0.61		0.40	0.20	mg/L		11/15/22 19:01	11/16/22 22:18	1
Lead	0.010		0.0075	0.0075	mg/L		11/15/22 19:01	11/16/22 22:18	1
Manganese	4.2		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:18	1
Nickel	0.012 J		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:18	1
Selenium	<0.050		0.050	0.020	mg/L		11/15/22 19:01	11/16/22 22:18	1
Silver	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:18	1
Zinc	0.062 J		0.50	0.020	mg/L		11/15/22 19:01	11/16/22 22:18	1

Method: SW846 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.13		0.0075	0.0075	mg/L		11/15/22 19:05	11/17/22 19:15	1
Manganese	1.6		0.025	0.010	mg/L		11/15/22 19:05	11/17/22 19:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/15/22 19:01	11/17/22 20:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/15/22 19:01	11/17/22 20:45	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/16/22 11:50	11/17/22 10:55	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.020	0.0066	mg/Kg	☼	11/17/22 15:25	11/18/22 06:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.9		0.2	0.2	SU			11/16/22 11:14	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B01 (0-5)

Lab Sample ID: 500-225160-7

Date Collected: 11/09/22 11:40

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0083	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
Carbon disulfide	<0.0048		0.0048	0.00099	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
Vinyl acetate	<0.0048		0.0048	0.0017	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	11/10/22 17:39	11/14/22 15:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		75 - 131	11/10/22 17:39	11/14/22 15:12	1
Dibromofluoromethane	89		75 - 126	11/10/22 17:39	11/14/22 15:12	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	11/10/22 17:39	11/14/22 15:12	1
Toluene-d8 (Surr)	83		75 - 124	11/10/22 17:39	11/14/22 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B01 (0-5)

Lab Sample ID: 500-225160-7

Date Collected: 11/09/22 11:40

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
2-Methylnaphthalene	<0.075		0.075	0.0068	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B01 (0-5)

Lab Sample ID: 500-225160-7

Date Collected: 11/09/22 11:40

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	11/16/22 13:40	11/21/22 22:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	81		31 - 166	11/16/22 13:40	11/21/22 22:25	1
Phenol-d5	80		30 - 153	11/16/22 13:40	11/21/22 22:25	1
Nitrobenzene-d5 (Surr)	84		37 - 147	11/16/22 13:40	11/21/22 22:25	1
2-Fluorobiphenyl (Surr)	82		43 - 145	11/16/22 13:40	11/21/22 22:25	1
2,4,6-Tribromophenol	64		31 - 143	11/16/22 13:40	11/21/22 22:25	1
Terphenyl-d14 (Surr)	124		42 - 157	11/16/22 13:40	11/21/22 22:25	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J	1.1	0.22	mg/Kg	☼	11/14/22 17:22	11/17/22 21:54	1
Arsenic	9.7		0.57	0.20	mg/Kg	☼	11/14/22 17:22	11/17/22 21:54	1
Barium	69		0.57	0.065	mg/Kg	☼	11/14/22 17:22	11/17/22 21:54	1
Beryllium	0.81		0.23	0.053	mg/Kg	☼	11/14/22 17:22	11/17/22 21:54	1
Boron	7.3		2.9	0.27	mg/Kg	☼	11/14/22 17:22	11/17/22 21:54	1
Cadmium	0.21		0.11	0.021	mg/Kg	☼	11/14/22 17:22	11/17/22 21:54	1
Calcium	24000	B	11	1.9	mg/Kg	☼	11/14/22 17:22	11/17/22 21:54	1
Chromium	16		0.57	0.28	mg/Kg	☼	11/14/22 17:22	11/17/22 21:54	1
Cobalt	17		0.29	0.075	mg/Kg	☼	11/14/22 17:22	11/17/22 21:54	1
Copper	23		0.57	0.16	mg/Kg	☼	11/14/22 17:22	11/17/22 21:54	1
Iron	21000	B	11	5.9	mg/Kg	☼	11/14/22 17:22	11/17/22 21:54	1
Lead	35		0.29	0.13	mg/Kg	☼	11/14/22 17:22	11/17/22 21:54	1
Magnesium	16000	B	5.7	2.8	mg/Kg	☼	11/14/22 17:22	11/17/22 21:54	1
Manganese	490	B	0.57	0.083	mg/Kg	☼	11/14/22 17:22	11/17/22 21:54	1
Nickel	28		0.57	0.17	mg/Kg	☼	11/14/22 17:22	11/17/22 21:54	1
Potassium	1900		29	10	mg/Kg	☼	11/14/22 17:22	11/17/22 21:54	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	11/14/22 17:22	11/17/22 21:54	1
Silver	0.30		0.29	0.074	mg/Kg	☼	11/14/22 17:22	11/17/22 21:54	1
Sodium	370		57	8.5	mg/Kg	☼	11/14/22 17:22	11/17/22 21:54	1
Thallium	0.39	J	0.57	0.29	mg/Kg	☼	11/14/22 17:22	11/17/22 21:54	1
Vanadium	21		0.29	0.067	mg/Kg	☼	11/14/22 17:22	11/17/22 21:54	1
Zinc	72		1.1	0.50	mg/Kg	☼	11/14/22 17:22	11/17/22 21:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.62		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 22:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/22 19:01	11/16/22 22:21	1
Boron	1.1		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 22:21	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B01 (0-5)

Lab Sample ID: 500-225160-7

Date Collected: 11/09/22 11:40

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/22 19:01	11/16/22 22:21	1
Chromium	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:21	1
Cobalt	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:21	1
Iron	<0.40		0.40	0.20	mg/L		11/15/22 19:01	11/16/22 22:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/15/22 19:01	11/16/22 22:21	1
Manganese	0.69		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:21	1
Nickel	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:21	1
Selenium	<0.050		0.050	0.020	mg/L		11/15/22 19:01	11/16/22 22:21	1
Silver	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:21	1
Zinc	0.054	J	0.50	0.020	mg/L		11/15/22 19:01	11/16/22 22:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.54		0.025	0.010	mg/L		11/15/22 19:05	11/17/22 19:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/15/22 19:01	11/17/22 20:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/15/22 19:01	11/17/22 20:48	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/16/22 11:50	11/17/22 10:58	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.017	0.0058	mg/Kg	☆	11/17/22 15:25	11/18/22 07:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.7		0.2	0.2	SU			11/15/22 21:37	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B01 (5-9)

Lab Sample ID: 500-225160-8

Date Collected: 11/09/22 11:42

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0084	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
Carbon disulfide	<0.0048		0.0048	0.0010	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00068	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
Ethylbenzene	<0.0019		0.0019	0.00092	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00057	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
Tetrachloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
Toluene	<0.0019		0.0019	0.00049	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00086	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00068	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00083	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
Vinyl acetate	<0.0048		0.0048	0.0017	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
Vinyl chloride	<0.0019		0.0019	0.00085	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1
Xylenes, Total	<0.0039		0.0039	0.00062	mg/Kg	☼	11/10/22 17:39	11/14/22 15:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		75 - 131	11/10/22 17:39	11/14/22 15:37	1
Dibromofluoromethane	85		75 - 126	11/10/22 17:39	11/14/22 15:37	1
1,2-Dichloroethane-d4 (Surr)	84		70 - 134	11/10/22 17:39	11/14/22 15:37	1
Toluene-d8 (Surr)	85		75 - 124	11/10/22 17:39	11/14/22 15:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.082	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B01 (5-9)

Lab Sample ID: 500-225160-8

Date Collected: 11/09/22 11:42

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
2-Methylnaphthalene	<0.075		0.075	0.0068	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Acenaphthene	<0.037		0.037	0.0066	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Pyrene	<0.037		0.037	0.0073	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B01 (5-9)

Lab Sample ID: 500-225160-8

Date Collected: 11/09/22 11:42

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0071	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	11/16/22 13:40	11/21/22 22:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	90		31 - 166				11/16/22 13:40	11/21/22 22:47	1
Phenol-d5	83		30 - 153				11/16/22 13:40	11/21/22 22:47	1
Nitrobenzene-d5 (Surr)	89		37 - 147				11/16/22 13:40	11/21/22 22:47	1
2-Fluorobiphenyl (Surr)	87		43 - 145				11/16/22 13:40	11/21/22 22:47	1
2,4,6-Tribromophenol	55		31 - 143				11/16/22 13:40	11/21/22 22:47	1
Terphenyl-d14 (Surr)	116		42 - 157				11/16/22 13:40	11/21/22 22:47	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.36	J	1.1	0.22	mg/Kg	☼	11/14/22 17:22	11/17/22 21:57	1
Arsenic	8.6		0.56	0.19	mg/Kg	☼	11/14/22 17:22	11/17/22 21:57	1
Barium	46		0.56	0.064	mg/Kg	☼	11/14/22 17:22	11/17/22 21:57	1
Beryllium	0.83		0.22	0.052	mg/Kg	☼	11/14/22 17:22	11/17/22 21:57	1
Boron	11		2.8	0.26	mg/Kg	☼	11/14/22 17:22	11/17/22 21:57	1
Cadmium	0.20		0.11	0.020	mg/Kg	☼	11/14/22 17:22	11/17/22 21:57	1
Calcium	59000	B	56	9.5	mg/Kg	☼	11/14/22 17:22	11/18/22 13:15	5
Chromium	16		0.56	0.28	mg/Kg	☼	11/14/22 17:22	11/17/22 21:57	1
Cobalt	13		0.28	0.073	mg/Kg	☼	11/14/22 17:22	11/17/22 21:57	1
Copper	23		0.56	0.16	mg/Kg	☼	11/14/22 17:22	11/17/22 21:57	1
Iron	20000	B	11	5.8	mg/Kg	☼	11/14/22 17:22	11/17/22 21:57	1
Lead	14		0.28	0.13	mg/Kg	☼	11/14/22 17:22	11/17/22 21:57	1
Magnesium	23000	B	5.6	2.8	mg/Kg	☼	11/14/22 17:22	11/17/22 21:57	1
Manganese	460	B	0.56	0.081	mg/Kg	☼	11/14/22 17:22	11/17/22 21:57	1
Nickel	30		0.56	0.16	mg/Kg	☼	11/14/22 17:22	11/17/22 21:57	1
Potassium	2400		28	9.9	mg/Kg	☼	11/14/22 17:22	11/17/22 21:57	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	11/14/22 17:22	11/17/22 21:57	1
Silver	0.26	J	0.28	0.072	mg/Kg	☼	11/14/22 17:22	11/17/22 21:57	1
Sodium	850		56	8.3	mg/Kg	☼	11/14/22 17:22	11/17/22 21:57	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	11/14/22 17:22	11/17/22 21:57	1
Vanadium	19		0.28	0.066	mg/Kg	☼	11/14/22 17:22	11/17/22 21:57	1
Zinc	120		1.1	0.49	mg/Kg	☼	11/14/22 17:22	11/17/22 21:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.40	J	0.50	0.050	mg/L		11/15/22 19:01	11/16/22 23:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/22 19:01	11/16/22 23:14	1
Boron	0.84		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 23:14	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B01 (5-9)

Lab Sample ID: 500-225160-8

Date Collected: 11/09/22 11:42

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0029	J	0.0050	0.0020	mg/L		11/15/22 19:01	11/16/22 23:14	1
Chromium	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 23:14	1
Cobalt	0.015	J	0.025	0.010	mg/L		11/15/22 19:01	11/16/22 23:14	1
Iron	<0.40		0.40	0.20	mg/L		11/15/22 19:01	11/16/22 23:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/15/22 19:01	11/17/22 13:24	1
Manganese	3.8		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 23:14	1
Nickel	0.045		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 23:14	1
Selenium	<0.050		0.050	0.020	mg/L		11/15/22 19:01	11/16/22 23:14	1
Silver	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 23:14	1
Zinc	0.053	J	0.50	0.020	mg/L		11/15/22 19:01	11/16/22 23:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.71		0.025	0.010	mg/L		11/15/22 19:05	11/17/22 19:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/15/22 19:01	11/17/22 21:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/15/22 19:01	11/17/22 21:39	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/16/22 11:50	11/17/22 11:34	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.019	0.0062	mg/Kg	☆	11/17/22 15:25	11/18/22 07:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.3		0.2	0.2	SU			11/15/22 21:39	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Qualifiers

GC/MS VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

GC/MS VOA

Prep Batch: 684692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225160-1	1401V3-02-B07 (0-6)	Total/NA	Solid	5035	
500-225160-2	1401V3-02-B06 (0-6)	Total/NA	Solid	5035	
500-225160-3	1401V3-02-B05 (0-6)	Total/NA	Solid	5035	
500-225160-4	1401V3-02-B04 (0-6)	Total/NA	Solid	5035	
500-225160-5	1401V3-02-B03 (0-6)	Total/NA	Solid	5035	
500-225160-6	1401V3-02-B02 (0-6)	Total/NA	Solid	5035	
500-225160-7	1401V3-02-B01 (0-5)	Total/NA	Solid	5035	
500-225160-8	1401V3-02-B01 (5-9)	Total/NA	Solid	5035	

Analysis Batch: 684733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225160-1	1401V3-02-B07 (0-6)	Total/NA	Solid	8260B	684692
500-225160-2	1401V3-02-B06 (0-6)	Total/NA	Solid	8260B	684692
500-225160-3	1401V3-02-B05 (0-6)	Total/NA	Solid	8260B	684692
500-225160-4	1401V3-02-B04 (0-6)	Total/NA	Solid	8260B	684692
500-225160-5	1401V3-02-B03 (0-6)	Total/NA	Solid	8260B	684692
500-225160-6	1401V3-02-B02 (0-6)	Total/NA	Solid	8260B	684692
500-225160-7	1401V3-02-B01 (0-5)	Total/NA	Solid	8260B	684692
500-225160-8	1401V3-02-B01 (5-9)	Total/NA	Solid	8260B	684692
MB 500-684733/8	Method Blank	Total/NA	Solid	8260B	
LCS 500-684733/5	Lab Control Sample	Total/NA	Solid	8260B	
LCS 500-684733/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 685354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225160-1	1401V3-02-B07 (0-6)	Total/NA	Solid	3541	
500-225160-2	1401V3-02-B06 (0-6)	Total/NA	Solid	3541	
500-225160-3	1401V3-02-B05 (0-6)	Total/NA	Solid	3541	
500-225160-4	1401V3-02-B04 (0-6)	Total/NA	Solid	3541	
500-225160-5	1401V3-02-B03 (0-6)	Total/NA	Solid	3541	
500-225160-6	1401V3-02-B02 (0-6)	Total/NA	Solid	3541	
500-225160-7	1401V3-02-B01 (0-5)	Total/NA	Solid	3541	
500-225160-8	1401V3-02-B01 (5-9)	Total/NA	Solid	3541	
MB 500-685354/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-685354/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 686359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225160-1	1401V3-02-B07 (0-6)	Total/NA	Solid	8270D	685354
500-225160-2	1401V3-02-B06 (0-6)	Total/NA	Solid	8270D	685354
500-225160-3	1401V3-02-B05 (0-6)	Total/NA	Solid	8270D	685354
500-225160-4	1401V3-02-B04 (0-6)	Total/NA	Solid	8270D	685354
500-225160-5	1401V3-02-B03 (0-6)	Total/NA	Solid	8270D	685354
500-225160-6	1401V3-02-B02 (0-6)	Total/NA	Solid	8270D	685354
500-225160-7	1401V3-02-B01 (0-5)	Total/NA	Solid	8270D	685354
500-225160-8	1401V3-02-B01 (5-9)	Total/NA	Solid	8270D	685354
MB 500-685354/1-A	Method Blank	Total/NA	Solid	8270D	685354
LCS 500-685354/2-A	Lab Control Sample	Total/NA	Solid	8270D	685354

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Metals

Leach Batch: 684867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225160-1	1401V3-02-B07 (0-6)	TCLP	Solid	1311	
500-225160-3	1401V3-02-B05 (0-6)	TCLP	Solid	1311	
500-225160-4	1401V3-02-B04 (0-6)	TCLP	Solid	1311	
500-225160-5	1401V3-02-B03 (0-6)	TCLP	Solid	1311	
500-225160-6	1401V3-02-B02 (0-6)	TCLP	Solid	1311	
500-225160-7	1401V3-02-B01 (0-5)	TCLP	Solid	1311	
LB 500-684867/1-B	Method Blank	TCLP	Solid	1311	
LB 500-684867/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 684869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225160-2	1401V3-02-B06 (0-6)	TCLP	Solid	1311	
500-225160-8	1401V3-02-B01 (5-9)	TCLP	Solid	1311	
LB2 500-684869/1-B	Method Blank	TCLP	Solid	1311	
LB2 500-684869/2-B	Method Blank	TCLP	Solid	1311	

Leach Batch: 684882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225160-1	1401V3-02-B07 (0-6)	SPLP East	Solid	1312	
500-225160-2	1401V3-02-B06 (0-6)	SPLP East	Solid	1312	
500-225160-3	1401V3-02-B05 (0-6)	SPLP East	Solid	1312	
500-225160-4	1401V3-02-B04 (0-6)	SPLP East	Solid	1312	
500-225160-5	1401V3-02-B03 (0-6)	SPLP East	Solid	1312	
500-225160-6	1401V3-02-B02 (0-6)	SPLP East	Solid	1312	
500-225160-7	1401V3-02-B01 (0-5)	SPLP East	Solid	1312	
500-225160-8	1401V3-02-B01 (5-9)	SPLP East	Solid	1312	
LB 500-684882/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 684902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225160-1	1401V3-02-B07 (0-6)	Total/NA	Solid	3050B	
500-225160-2	1401V3-02-B06 (0-6)	Total/NA	Solid	3050B	
500-225160-3	1401V3-02-B05 (0-6)	Total/NA	Solid	3050B	
500-225160-4	1401V3-02-B04 (0-6)	Total/NA	Solid	3050B	
500-225160-5	1401V3-02-B03 (0-6)	Total/NA	Solid	3050B	
500-225160-6	1401V3-02-B02 (0-6)	Total/NA	Solid	3050B	
500-225160-7	1401V3-02-B01 (0-5)	Total/NA	Solid	3050B	
500-225160-8	1401V3-02-B01 (5-9)	Total/NA	Solid	3050B	
MB 500-684902/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-684902/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 685167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225160-1	1401V3-02-B07 (0-6)	TCLP	Solid	3010A	684867
500-225160-2	1401V3-02-B06 (0-6)	TCLP	Solid	3010A	684869
500-225160-3	1401V3-02-B05 (0-6)	TCLP	Solid	3010A	684867
500-225160-4	1401V3-02-B04 (0-6)	TCLP	Solid	3010A	684867
500-225160-5	1401V3-02-B03 (0-6)	TCLP	Solid	3010A	684867
500-225160-6	1401V3-02-B02 (0-6)	TCLP	Solid	3010A	684867
500-225160-7	1401V3-02-B01 (0-5)	TCLP	Solid	3010A	684867
500-225160-8	1401V3-02-B01 (5-9)	TCLP	Solid	3010A	684869

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Metals (Continued)

Prep Batch: 685167 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-684867/1-B	Method Blank	TCLP	Solid	3010A	684867
LB2 500-684869/1-B	Method Blank	TCLP	Solid	3010A	684869
LCS 500-685167/24-A	Lab Control Sample	Total/NA	Solid	3010A	
LCS 500-685167/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 685169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225160-1	1401V3-02-B07 (0-6)	SPLP East	Solid	3010A	684882
500-225160-2	1401V3-02-B06 (0-6)	SPLP East	Solid	3010A	684882
500-225160-3	1401V3-02-B05 (0-6)	SPLP East	Solid	3010A	684882
500-225160-4	1401V3-02-B04 (0-6)	SPLP East	Solid	3010A	684882
500-225160-5	1401V3-02-B03 (0-6)	SPLP East	Solid	3010A	684882
500-225160-6	1401V3-02-B02 (0-6)	SPLP East	Solid	3010A	684882
500-225160-7	1401V3-02-B01 (0-5)	SPLP East	Solid	3010A	684882
500-225160-8	1401V3-02-B01 (5-9)	SPLP East	Solid	3010A	684882
LB 500-684882/1-B	Method Blank	SPLP East	Solid	3010A	684882
LCS 500-685169/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 685346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225160-1	1401V3-02-B07 (0-6)	TCLP	Solid	7470A	684867
500-225160-2	1401V3-02-B06 (0-6)	TCLP	Solid	7470A	684869
500-225160-3	1401V3-02-B05 (0-6)	TCLP	Solid	7470A	684867
500-225160-4	1401V3-02-B04 (0-6)	TCLP	Solid	7470A	684867
500-225160-5	1401V3-02-B03 (0-6)	TCLP	Solid	7470A	684867
500-225160-6	1401V3-02-B02 (0-6)	TCLP	Solid	7470A	684867
500-225160-7	1401V3-02-B01 (0-5)	TCLP	Solid	7470A	684867
500-225160-8	1401V3-02-B01 (5-9)	TCLP	Solid	7470A	684869
LB 500-684867/1-C	Method Blank	TCLP	Solid	7470A	684867
LB2 500-684869/2-B	Method Blank	TCLP	Solid	7470A	684869
MB 500-685346/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-685346/14-A	Lab Control Sample	Total/NA	Solid	7470A	
LCS 500-685346/36-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 685449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225160-1	1401V3-02-B07 (0-6)	Total/NA	Solid	7471B	
500-225160-2	1401V3-02-B06 (0-6)	Total/NA	Solid	7471B	
500-225160-3	1401V3-02-B05 (0-6)	Total/NA	Solid	7471B	
500-225160-4	1401V3-02-B04 (0-6)	Total/NA	Solid	7471B	
500-225160-5	1401V3-02-B03 (0-6)	Total/NA	Solid	7471B	
500-225160-6	1401V3-02-B02 (0-6)	Total/NA	Solid	7471B	
500-225160-7	1401V3-02-B01 (0-5)	Total/NA	Solid	7471B	
500-225160-8	1401V3-02-B01 (5-9)	Total/NA	Solid	7471B	
MB 500-685449/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-685449/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 685532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225160-1	1401V3-02-B07 (0-6)	TCLP	Solid	6010B	685167
500-225160-2	1401V3-02-B06 (0-6)	TCLP	Solid	6010B	685167

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Metals (Continued)

Analysis Batch: 685532 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225160-3	1401V3-02-B05 (0-6)	TCLP	Solid	6010B	685167
500-225160-4	1401V3-02-B04 (0-6)	TCLP	Solid	6010B	685167
500-225160-5	1401V3-02-B03 (0-6)	TCLP	Solid	6010B	685167
500-225160-6	1401V3-02-B02 (0-6)	TCLP	Solid	6010B	685167
500-225160-7	1401V3-02-B01 (0-5)	TCLP	Solid	6010B	685167
500-225160-8	1401V3-02-B01 (5-9)	TCLP	Solid	6010B	685167
LB 500-684867/1-B	Method Blank	TCLP	Solid	6010B	685167
LB2 500-684869/1-B	Method Blank	TCLP	Solid	6010B	685167
LCS 500-685167/24-A	Lab Control Sample	Total/NA	Solid	6010B	685167
LCS 500-685167/2-A	Lab Control Sample	Total/NA	Solid	6010B	685167

Analysis Batch: 685588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225160-1	1401V3-02-B07 (0-6)	TCLP	Solid	7470A	685346
500-225160-2	1401V3-02-B06 (0-6)	TCLP	Solid	7470A	685346
500-225160-3	1401V3-02-B05 (0-6)	TCLP	Solid	7470A	685346
500-225160-4	1401V3-02-B04 (0-6)	TCLP	Solid	7470A	685346
500-225160-5	1401V3-02-B03 (0-6)	TCLP	Solid	7470A	685346
500-225160-6	1401V3-02-B02 (0-6)	TCLP	Solid	7470A	685346
500-225160-7	1401V3-02-B01 (0-5)	TCLP	Solid	7470A	685346
500-225160-8	1401V3-02-B01 (5-9)	TCLP	Solid	7470A	685346
LB 500-684867/1-C	Method Blank	TCLP	Solid	7470A	685346
LB2 500-684869/2-B	Method Blank	TCLP	Solid	7470A	685346
MB 500-685346/12-A	Method Blank	Total/NA	Solid	7470A	685346
LCS 500-685346/14-A	Lab Control Sample	Total/NA	Solid	7470A	685346
LCS 500-685346/36-A	Lab Control Sample	Total/NA	Solid	7470A	685346

Analysis Batch: 685624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225160-2	1401V3-02-B06 (0-6)	TCLP	Solid	6010B	685167
500-225160-8	1401V3-02-B01 (5-9)	TCLP	Solid	6010B	685167

Analysis Batch: 685803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225160-1	1401V3-02-B07 (0-6)	SPLP East	Solid	6010B	685169
500-225160-1	1401V3-02-B07 (0-6)	Total/NA	Solid	6010B	684902
500-225160-2	1401V3-02-B06 (0-6)	SPLP East	Solid	6010B	685169
500-225160-2	1401V3-02-B06 (0-6)	Total/NA	Solid	6010B	684902
500-225160-3	1401V3-02-B05 (0-6)	SPLP East	Solid	6010B	685169
500-225160-3	1401V3-02-B05 (0-6)	Total/NA	Solid	6010B	684902
500-225160-4	1401V3-02-B04 (0-6)	SPLP East	Solid	6010B	685169
500-225160-4	1401V3-02-B04 (0-6)	Total/NA	Solid	6010B	684902
500-225160-5	1401V3-02-B03 (0-6)	SPLP East	Solid	6010B	685169
500-225160-5	1401V3-02-B03 (0-6)	Total/NA	Solid	6010B	684902
500-225160-6	1401V3-02-B02 (0-6)	SPLP East	Solid	6010B	685169
500-225160-6	1401V3-02-B02 (0-6)	Total/NA	Solid	6010B	684902
500-225160-7	1401V3-02-B01 (0-5)	SPLP East	Solid	6010B	685169
500-225160-7	1401V3-02-B01 (0-5)	Total/NA	Solid	6010B	684902
500-225160-8	1401V3-02-B01 (5-9)	SPLP East	Solid	6010B	685169
500-225160-8	1401V3-02-B01 (5-9)	Total/NA	Solid	6010B	684902
LB 500-684882/1-B	Method Blank	SPLP East	Solid	6010B	685169

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Metals (Continued)

Analysis Batch: 685803 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-684902/1-A	Method Blank	Total/NA	Solid	6010B	684902
LCS 500-684902/2-A	Lab Control Sample	Total/NA	Solid	6010B	684902
LCS 500-685169/2-A	Lab Control Sample	Total/NA	Solid	6010B	685169

Analysis Batch: 685882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225160-1	1401V3-02-B07 (0-6)	TCLP	Solid	6020A	685167
500-225160-2	1401V3-02-B06 (0-6)	TCLP	Solid	6020A	685167
500-225160-3	1401V3-02-B05 (0-6)	TCLP	Solid	6020A	685167
500-225160-4	1401V3-02-B04 (0-6)	TCLP	Solid	6020A	685167
500-225160-5	1401V3-02-B03 (0-6)	TCLP	Solid	6020A	685167
500-225160-6	1401V3-02-B02 (0-6)	TCLP	Solid	6020A	685167
500-225160-7	1401V3-02-B01 (0-5)	TCLP	Solid	6020A	685167
500-225160-8	1401V3-02-B01 (5-9)	TCLP	Solid	6020A	685167
LB 500-684867/1-B	Method Blank	TCLP	Solid	6020A	685167
LB2 500-684869/1-B	Method Blank	TCLP	Solid	6020A	685167
LCS 500-685167/24-A	Lab Control Sample	Total/NA	Solid	6020A	685167
LCS 500-685167/2-A	Lab Control Sample	Total/NA	Solid	6020A	685167

Analysis Batch: 685886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225160-1	1401V3-02-B07 (0-6)	Total/NA	Solid	7471B	685449
500-225160-2	1401V3-02-B06 (0-6)	Total/NA	Solid	7471B	685449
500-225160-3	1401V3-02-B05 (0-6)	Total/NA	Solid	7471B	685449
500-225160-4	1401V3-02-B04 (0-6)	Total/NA	Solid	7471B	685449
500-225160-5	1401V3-02-B03 (0-6)	Total/NA	Solid	7471B	685449
500-225160-6	1401V3-02-B02 (0-6)	Total/NA	Solid	7471B	685449
500-225160-7	1401V3-02-B01 (0-5)	Total/NA	Solid	7471B	685449
500-225160-8	1401V3-02-B01 (5-9)	Total/NA	Solid	7471B	685449
MB 500-685449/12-A	Method Blank	Total/NA	Solid	7471B	685449
LCS 500-685449/13-A	Lab Control Sample	Total/NA	Solid	7471B	685449

Analysis Batch: 686262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225160-1	1401V3-02-B07 (0-6)	Total/NA	Solid	6010B	684902
500-225160-2	1401V3-02-B06 (0-6)	Total/NA	Solid	6010B	684902
500-225160-8	1401V3-02-B01 (5-9)	Total/NA	Solid	6010B	684902

General Chemistry

Analysis Batch: 685011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225160-1	1401V3-02-B07 (0-6)	Total/NA	Solid	Moisture	
500-225160-2	1401V3-02-B06 (0-6)	Total/NA	Solid	Moisture	

Analysis Batch: 685030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225160-3	1401V3-02-B05 (0-6)	Total/NA	Solid	Moisture	
500-225160-4	1401V3-02-B04 (0-6)	Total/NA	Solid	Moisture	
500-225160-5	1401V3-02-B03 (0-6)	Total/NA	Solid	Moisture	
500-225160-6	1401V3-02-B02 (0-6)	Total/NA	Solid	Moisture	

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

General Chemistry (Continued)

Analysis Batch: 685030 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225160-7	1401V3-02-B01 (0-5)	Total/NA	Solid	Moisture	
500-225160-8	1401V3-02-B01 (5-9)	Total/NA	Solid	Moisture	
500-225160-3 DU	1401V3-02-B05 (0-6)	Total/NA	Solid	Moisture	

Analysis Batch: 685174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225160-1	1401V3-02-B07 (0-6)	Total/NA	Solid	9045D	
500-225160-2	1401V3-02-B06 (0-6)	Total/NA	Solid	9045D	
500-225160-4	1401V3-02-B04 (0-6)	Total/NA	Solid	9045D	
500-225160-5	1401V3-02-B03 (0-6)	Total/NA	Solid	9045D	
500-225160-7	1401V3-02-B01 (0-5)	Total/NA	Solid	9045D	
500-225160-8	1401V3-02-B01 (5-9)	Total/NA	Solid	9045D	
LCS 500-685174/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-685174/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 685250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225160-3	1401V3-02-B05 (0-6)	Total/NA	Solid	9045D	
500-225160-6	1401V3-02-B02 (0-6)	Total/NA	Solid	9045D	
LCS 500-685250/5	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-685250/6	Lab Control Sample Dup	Total/NA	Solid	9045D	

Surrogate Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(75-131)	(75-126)	(70-134)	(75-124)
500-225160-1	1401V3-02-B07 (0-6)	94	88	79	87
500-225160-2	1401V3-02-B06 (0-6)	91	91	87	83
500-225160-3	1401V3-02-B05 (0-6)	93	91	87	81
500-225160-4	1401V3-02-B04 (0-6)	92	88	88	83
500-225160-5	1401V3-02-B03 (0-6)	90	89	83	84
500-225160-6	1401V3-02-B02 (0-6)	92	90	89	86
500-225160-7	1401V3-02-B01 (0-5)	93	89	87	83
500-225160-8	1401V3-02-B01 (5-9)	93	85	84	85
LCS 500-684733/5	Lab Control Sample	90	86	85	87
LCSD 500-684733/6	Lab Control Sample Dup	89	86	81	86
MB 500-684733/8	Method Blank	91	88	82	84

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP	PHL	NBZ	FBP	TBP	TPHL
		(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-225160-1	1401V3-02-B07 (0-6)	71	59	65	63	61	93
500-225160-2	1401V3-02-B06 (0-6)	82	71	76	75	72	110
500-225160-3	1401V3-02-B05 (0-6)	77	68	71	66	71	97
500-225160-4	1401V3-02-B04 (0-6)	87	85	87	85	93	125
500-225160-5	1401V3-02-B03 (0-6)	93	77	89	81	72	116
500-225160-6	1401V3-02-B02 (0-6)	79	76	75	69	73	110
500-225160-7	1401V3-02-B01 (0-5)	81	80	84	82	64	124
500-225160-8	1401V3-02-B01 (5-9)	90	83	89	87	55	116
LCS 500-685354/2-A	Lab Control Sample	96	87	94	91	84	97
MB 500-685354/1-A	Method Blank	83	74	81	77	47	85

Surrogate Legend

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

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

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

Lab Sample ID: MB 500-684733/8
Matrix: Solid
Analysis Batch: 684733

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			11/14/22 11:50	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			11/14/22 11:50	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			11/14/22 11:50	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			11/14/22 11:50	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			11/14/22 11:50	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			11/14/22 11:50	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			11/14/22 11:50	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			11/14/22 11:50	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			11/14/22 11:50	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			11/14/22 11:50	1
Chloroform	0.00106	J	0.0020	0.00069	mg/Kg			11/14/22 11:50	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			11/14/22 11:50	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			11/14/22 11:50	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			11/14/22 11:50	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			11/14/22 11:50	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			11/14/22 11:50	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			11/14/22 11:50	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			11/14/22 11:50	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			11/14/22 11:50	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			11/14/22 11:50	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			11/14/22 11:50	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			11/14/22 11:50	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			11/14/22 11:50	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			11/14/22 11:50	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			11/14/22 11:50	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			11/14/22 11:50	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			11/14/22 11:50	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/14/22 11:50	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			11/14/22 11:50	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			11/14/22 11:50	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			11/14/22 11:50	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			11/14/22 11:50	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			11/14/22 11:50	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/14/22 11:50	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			11/14/22 11:50	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			11/14/22 11:50	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			11/14/22 11:50	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	91		75 - 131		11/14/22 11:50	1
Dibromofluoromethane	88		75 - 126		11/14/22 11:50	1
1,2-Dichloroethane-d4 (Surr)	82		70 - 134		11/14/22 11:50	1
Toluene-d8 (Surr)	84		75 - 124		11/14/22 11:50	1

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

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

Lab Sample ID: LCS 500-684733/5
Matrix: Solid
Analysis Batch: 684733

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0500	0.0512		mg/Kg		102	40 - 150
Benzene	0.0500	0.0498		mg/Kg		100	70 - 125
Bromodichloromethane	0.0500	0.0529		mg/Kg		106	67 - 129
Bromoform	0.0500	0.0532		mg/Kg		106	68 - 136
Bromomethane	0.0500	0.0544		mg/Kg		109	70 - 130
2-Butanone (MEK)	0.0500	0.0556		mg/Kg		111	47 - 138
Carbon disulfide	0.0500	0.0442		mg/Kg		88	70 - 129
Carbon tetrachloride	0.0500	0.0567		mg/Kg		113	75 - 125
Chlorobenzene	0.0500	0.0519		mg/Kg		104	50 - 150
Chloroethane	0.0500	0.0517		mg/Kg		103	75 - 125
Chloroform	0.0500	0.0533		mg/Kg		107	57 - 135
Chloromethane	0.0500	0.0471		mg/Kg		94	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0528		mg/Kg		106	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0475		mg/Kg		95	70 - 125
Dibromochloromethane	0.0500	0.0546		mg/Kg		109	69 - 125
1,1-Dichloroethane	0.0500	0.0501		mg/Kg		100	70 - 125
1,2-Dichloroethane	0.0500	0.0537		mg/Kg		107	70 - 130
1,1-Dichloroethene	0.0500	0.0486		mg/Kg		97	70 - 120
1,2-Dichloropropane	0.0500	0.0493		mg/Kg		99	70 - 125
Ethylbenzene	0.0500	0.0519		mg/Kg		104	61 - 136
2-Hexanone	0.0500	0.0546		mg/Kg		109	48 - 146
Methylene Chloride	0.0500	0.0515		mg/Kg		103	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0518		mg/Kg		104	50 - 148
Methyl tert-butyl ether	0.0500	0.0505		mg/Kg		101	50 - 140
Styrene	0.0500	0.0512		mg/Kg		102	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0541		mg/Kg		108	70 - 122
Tetrachloroethene	0.0500	0.0521		mg/Kg		104	70 - 124
Toluene	0.0500	0.0492		mg/Kg		98	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0528		mg/Kg		106	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0497		mg/Kg		99	70 - 125
1,1,1-Trichloroethane	0.0500	0.0547		mg/Kg		109	70 - 128
1,1,2-Trichloroethane	0.0500	0.0517		mg/Kg		103	70 - 125
Trichloroethene	0.0500	0.0534		mg/Kg		107	70 - 125
Vinyl acetate	0.0500	0.0424		mg/Kg		85	40 - 153
Vinyl chloride	0.0500	0.0447		mg/Kg		89	70 - 125
Xylenes, Total	0.100	0.101		mg/Kg		101	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	90		75 - 131
Dibromofluoromethane	86		75 - 126
1,2-Dichloroethane-d4 (Surr)	85		70 - 134
Toluene-d8 (Surr)	87		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

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

Lab Sample ID: LCSD 500-684733/6
Matrix: Solid
Analysis Batch: 684733

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.0500	0.0421		mg/Kg		84	40 - 150	20	30
Benzene	0.0500	0.0535		mg/Kg		107	70 - 125	7	30
Bromodichloromethane	0.0500	0.0567		mg/Kg		113	67 - 129	7	30
Bromoform	0.0500	0.0520		mg/Kg		104	68 - 136	2	30
Bromomethane	0.0500	0.0540		mg/Kg		108	70 - 130	1	30
2-Butanone (MEK)	0.0500	0.0470		mg/Kg		94	47 - 138	17	30
Carbon disulfide	0.0500	0.0480		mg/Kg		96	70 - 129	8	30
Carbon tetrachloride	0.0500	0.0606		mg/Kg		121	75 - 125	7	30
Chlorobenzene	0.0500	0.0550		mg/Kg		110	50 - 150	6	30
Chloroethane	0.0500	0.0532		mg/Kg		106	75 - 125	3	30
Chloroform	0.0500	0.0585		mg/Kg		117	57 - 135	9	30
Chloromethane	0.0500	0.0487		mg/Kg		97	70 - 125	3	30
cis-1,2-Dichloroethene	0.0500	0.0572		mg/Kg		114	70 - 125	8	30
cis-1,3-Dichloropropene	0.0500	0.0508		mg/Kg		102	70 - 125	7	30
Dibromochloromethane	0.0500	0.0544		mg/Kg		109	69 - 125	0	30
1,1-Dichloroethane	0.0500	0.0547		mg/Kg		109	70 - 125	9	30
1,2-Dichloroethane	0.0500	0.0545		mg/Kg		109	70 - 130	1	30
1,1-Dichloroethene	0.0500	0.0543		mg/Kg		109	70 - 120	11	30
1,2-Dichloropropane	0.0500	0.0522		mg/Kg		104	70 - 125	6	30
Ethylbenzene	0.0500	0.0554		mg/Kg		111	61 - 136	7	30
2-Hexanone	0.0500	0.0461		mg/Kg		92	48 - 146	17	30
Methylene Chloride	0.0500	0.0544		mg/Kg		109	70 - 126	5	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0442		mg/Kg		88	50 - 148	16	30
Methyl tert-butyl ether	0.0500	0.0485		mg/Kg		97	50 - 140	4	30
Styrene	0.0500	0.0546		mg/Kg		109	70 - 125	6	30
1,1,2,2-Tetrachloroethane	0.0500	0.0516		mg/Kg		103	70 - 122	5	30
Tetrachloroethene	0.0500	0.0561		mg/Kg		112	70 - 124	7	30
Toluene	0.0500	0.0529		mg/Kg		106	70 - 125	7	30
trans-1,2-Dichloroethene	0.0500	0.0575		mg/Kg		115	70 - 125	9	30
trans-1,3-Dichloropropene	0.0500	0.0502		mg/Kg		100	70 - 125	1	30
1,1,1-Trichloroethane	0.0500	0.0585		mg/Kg		117	70 - 128	7	30
1,1,2-Trichloroethane	0.0500	0.0530		mg/Kg		106	70 - 125	2	30
Trichloroethene	0.0500	0.0585		mg/Kg		117	70 - 125	9	30
Vinyl acetate	0.0500	0.0449		mg/Kg		90	40 - 153	6	30
Vinyl chloride	0.0500	0.0466		mg/Kg		93	70 - 125	4	30
Xylenes, Total	0.100	0.109		mg/Kg		109	53 - 147	8	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	89		75 - 131
Dibromofluoromethane	86		75 - 126
1,2-Dichloroethane-d4 (Surr)	81		70 - 134
Toluene-d8 (Surr)	86		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

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

Lab Sample ID: MB 500-685354/1-A
Matrix: Solid
Analysis Batch: 686359

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685354

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Isophorone	<0.17		0.17	0.037	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Carbazole	<0.17		0.17	0.083	mg/Kg		11/16/22 13:40	11/21/22 19:34	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

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

Lab Sample ID: MB 500-685354/1-A
Matrix: Solid
Analysis Batch: 686359

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685354

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		11/16/22 13:40	11/21/22 19:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	83		31 - 166	11/16/22 13:40	11/21/22 19:34	1
Phenol-d5	74		30 - 153	11/16/22 13:40	11/21/22 19:34	1
Nitrobenzene-d5 (Surr)	81		37 - 147	11/16/22 13:40	11/21/22 19:34	1
2-Fluorobiphenyl (Surr)	77		43 - 145	11/16/22 13:40	11/21/22 19:34	1
2,4,6-Tribromophenol	47		31 - 143	11/16/22 13:40	11/21/22 19:34	1
Terphenyl-d14 (Surr)	85		42 - 157	11/16/22 13:40	11/21/22 19:34	1

Lab Sample ID: LCS 500-685354/2-A
Matrix: Solid
Analysis Batch: 686359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685354

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.10		mg/Kg		83	56 - 122
Bis(2-chloroethyl)ether	1.33	1.10		mg/Kg		82	55 - 111
1,3-Dichlorobenzene	1.33	1.10		mg/Kg		83	65 - 124
1,4-Dichlorobenzene	1.33	1.11		mg/Kg		84	61 - 110
1,2-Dichlorobenzene	1.33	1.13		mg/Kg		85	62 - 110
2-Methylphenol	1.33	1.30		mg/Kg		98	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.24		mg/Kg		93	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.14		mg/Kg		86	56 - 118
Hexachloroethane	1.33	1.07		mg/Kg		80	60 - 114
2-Chlorophenol	1.33	1.23		mg/Kg		92	64 - 110
Nitrobenzene	1.33	1.22		mg/Kg		92	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.20		mg/Kg		90	60 - 112
1,2,4-Trichlorobenzene	1.33	1.19		mg/Kg		90	66 - 117
Isophorone	1.33	1.15		mg/Kg		86	55 - 110
2,4-Dimethylphenol	1.33	1.20		mg/Kg		90	60 - 110
Hexachlorobutadiene	1.33	1.16		mg/Kg		87	56 - 120
Naphthalene	1.33	1.18		mg/Kg		88	63 - 110
2,4-Dichlorophenol	1.33	1.22		mg/Kg		91	58 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

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

Lab Sample ID: LCS 500-685354/2-A
Matrix: Solid
Analysis Batch: 686359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685354

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloroaniline	1.33	0.919		mg/Kg		69	30 - 150
2,4,6-Trichlorophenol	1.33	1.24		mg/Kg		93	57 - 120
2,4,5-Trichlorophenol	1.33	1.21		mg/Kg		91	50 - 120
Hexachlorocyclopentadiene	1.33	0.949		mg/Kg		71	10 - 133
2-Methylnaphthalene	1.33	1.18		mg/Kg		88	69 - 112
2-Nitroaniline	1.33	1.27		mg/Kg		96	57 - 124
2-Chloronaphthalene	1.33	1.14		mg/Kg		86	69 - 114
4-Chloro-3-methylphenol	1.33	1.28		mg/Kg		96	65 - 122
2,6-Dinitrotoluene	1.33	1.20		mg/Kg		90	70 - 123
2-Nitrophenol	1.33	1.25		mg/Kg		94	60 - 120
3-Nitroaniline	1.33	0.677		mg/Kg		51	40 - 122
Dimethyl phthalate	1.33	1.16		mg/Kg		87	69 - 116
2,4-Dinitrophenol	2.67	0.999		mg/Kg		37	10 - 100
Acenaphthylene	1.33	1.17		mg/Kg		88	68 - 120
2,4-Dinitrotoluene	1.33	1.27		mg/Kg		95	69 - 124
Acenaphthene	1.33	1.20		mg/Kg		90	65 - 124
Dibenzofuran	1.33	1.18		mg/Kg		89	66 - 115
4-Nitrophenol	2.67	2.45		mg/Kg		92	30 - 122
Fluorene	1.33	1.17		mg/Kg		88	62 - 120
4-Nitroaniline	1.33	1.06		mg/Kg		79	60 - 160
4-Bromophenyl phenyl ether	1.33	1.24		mg/Kg		93	68 - 118
Hexachlorobenzene	1.33	1.23		mg/Kg		92	63 - 124
Diethyl phthalate	1.33	1.16		mg/Kg		87	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.17		mg/Kg		88	62 - 119
Pentachlorophenol	2.67	1.68		mg/Kg		63	13 - 112
N-Nitrosodiphenylamine	1.33	1.22		mg/Kg		92	65 - 112
4,6-Dinitro-2-methylphenol	2.67	1.59		mg/Kg		60	10 - 110
Phenanthrene	1.33	1.23		mg/Kg		92	62 - 120
Anthracene	1.33	1.25		mg/Kg		94	70 - 114
Carbazole	1.33	1.30		mg/Kg		97	65 - 142
Di-n-butyl phthalate	1.33	1.25		mg/Kg		94	65 - 120
Fluoranthene	1.33	1.32		mg/Kg		99	62 - 120
Pyrene	1.33	1.28		mg/Kg		96	61 - 128
Butyl benzyl phthalate	1.33	1.23		mg/Kg		92	71 - 129
Benzo[a]anthracene	1.33	1.20		mg/Kg		90	67 - 122
Chrysene	1.33	1.17		mg/Kg		87	63 - 120
3,3'-Dichlorobenzidine	1.33	0.858		mg/Kg		64	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.26		mg/Kg		95	72 - 131
Di-n-octyl phthalate	1.33	1.34		mg/Kg		100	68 - 134
Benzo[b]fluoranthene	1.33	1.29		mg/Kg		97	69 - 129
Benzo[k]fluoranthene	1.33	1.18		mg/Kg		89	68 - 127
Benzo[a]pyrene	1.33	1.25		mg/Kg		94	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.42		mg/Kg		107	68 - 130
Dibenz(a,h)anthracene	1.33	1.35		mg/Kg		101	64 - 131
Benzo[g,h,i]perylene	1.33	1.33		mg/Kg		100	72 - 131
3 & 4 Methylphenol	1.33	1.28		mg/Kg		96	57 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

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

Lab Sample ID: LCS 500-685354/2-A
Matrix: Solid
Analysis Batch: 686359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685354

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	96		31 - 166
Phenol-d5	87		30 - 153
Nitrobenzene-d5 (Surr)	94		37 - 147
2-Fluorobiphenyl (Surr)	91		43 - 145
2,4,6-Tribromophenol	84		31 - 143
Terphenyl-d14 (Surr)	97		42 - 157

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-684902/1-A
Matrix: Solid
Analysis Batch: 685803

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 684902

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Arsenic	<1.0		1.0	0.34	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Barium	<1.0		1.0	0.11	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Beryllium	<0.40		0.40	0.093	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Boron	<5.0		5.0	0.47	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Cadmium	<0.20		0.20	0.036	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Calcium	18.4	J	20	3.4	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Chromium	<1.0		1.0	0.50	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Cobalt	<0.50		0.50	0.13	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Copper	<1.0		1.0	0.28	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Iron	13.7	J	20	10	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Lead	<0.50		0.50	0.23	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Magnesium	11.6		10	5.0	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Manganese	0.271	J	1.0	0.15	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Nickel	<1.0		1.0	0.29	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Potassium	<50		50	18	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Selenium	<1.0		1.0	0.59	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Silver	<0.50		0.50	0.13	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Sodium	<100		100	15	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Thallium	<1.0		1.0	0.50	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Vanadium	<0.50		0.50	0.12	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Zinc	<2.0		2.0	0.88	mg/Kg		11/14/22 17:22	11/17/22 21:22	1

Lab Sample ID: LCS 500-684902/2-A
Matrix: Solid
Analysis Batch: 685803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684902

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec	Limits
		Result	Qualifier					
Antimony	50.0	46.2		mg/Kg		92		80 - 120
Arsenic	10.0	9.13		mg/Kg		91		80 - 120
Barium	200	201		mg/Kg		101		80 - 120
Beryllium	5.00	4.63		mg/Kg		93		80 - 120
Boron	100	85.6		mg/Kg		86		80 - 120
Cadmium	5.00	4.63		mg/Kg		93		80 - 120
Calcium	1000	941		mg/Kg		94		80 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-684902/2-A
Matrix: Solid
Analysis Batch: 685803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684902

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	20.0	18.9		mg/Kg		94	80 - 120
Cobalt	50.0	48.5		mg/Kg		97	80 - 120
Copper	25.0	24.8		mg/Kg		99	80 - 120
Iron	100	111		mg/Kg		111	80 - 120
Lead	10.0	8.95		mg/Kg		89	80 - 120
Magnesium	1000	931		mg/Kg		93	80 - 120
Manganese	50.0	47.1		mg/Kg		94	80 - 120
Nickel	50.0	47.1		mg/Kg		94	80 - 120
Potassium	1000	971		mg/Kg		97	80 - 120
Selenium	10.0	8.51		mg/Kg		85	80 - 120
Silver	5.00	4.14		mg/Kg		83	80 - 120
Sodium	1000	981		mg/Kg		98	80 - 120
Thallium	10.0	8.74		mg/Kg		87	80 - 120
Vanadium	50.0	48.0		mg/Kg		96	80 - 120
Zinc	50.0	46.4		mg/Kg		93	80 - 120

Lab Sample ID: LCS 500-685167/24-A
Matrix: Solid
Analysis Batch: 685532

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685167

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.500		mg/L		100	80 - 120
Beryllium	0.0500	0.0459		mg/L		92	80 - 120
Boron	1.00	0.922		mg/L		92	80 - 120
Cadmium	0.0500	0.0472		mg/L		94	80 - 120
Chromium	0.200	0.181		mg/L		91	80 - 120
Cobalt	0.500	0.460		mg/L		92	80 - 120
Iron	1.00	0.927		mg/L		93	80 - 120
Lead	0.100	0.0874		mg/L		87	80 - 120
Manganese	0.500	0.461		mg/L		92	80 - 120
Nickel	0.500	0.451		mg/L		90	80 - 120
Selenium	0.100	0.100		mg/L		100	80 - 120
Silver	0.0500	0.0451		mg/L		90	80 - 120
Zinc	0.500	0.420	J	mg/L		84	80 - 120

Lab Sample ID: LCS 500-685167/2-A
Matrix: Solid
Analysis Batch: 685532

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685167

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.496	J	mg/L		99	80 - 120
Beryllium	0.0500	0.0463		mg/L		93	80 - 120
Boron	1.00	0.932		mg/L		93	80 - 120
Cadmium	0.0500	0.0505		mg/L		101	80 - 120
Chromium	0.200	0.182		mg/L		91	80 - 120
Cobalt	0.500	0.485		mg/L		97	80 - 120
Iron	1.00	0.884		mg/L		88	80 - 120
Lead	0.100	0.0905		mg/L		90	80 - 120
Manganese	0.500	0.454		mg/L		91	80 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-685167/2-A
Matrix: Solid
Analysis Batch: 685532

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685167

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				
Nickel	0.500	0.470		mg/L		94	80 - 120
Selenium	0.100	0.102		mg/L		102	80 - 120
Silver	0.0500	0.0514		mg/L		103	80 - 120
Zinc	0.500	0.476	J	mg/L		95	80 - 120

Lab Sample ID: LCS 500-685169/2-A
Matrix: Solid
Analysis Batch: 685803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685169

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				
Lead	0.100	0.0943		mg/L		94	80 - 120
Manganese	0.500	0.490		mg/L		98	80 - 120

Lab Sample ID: LB 500-684867/1-B
Matrix: Solid
Analysis Batch: 685532

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685167

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 21:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/22 19:01	11/16/22 21:28	1
Boron	<0.50		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 21:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/22 19:01	11/16/22 21:28	1
Chromium	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:28	1
Cobalt	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:28	1
Iron	<0.40		0.40	0.20	mg/L		11/15/22 19:01	11/16/22 21:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/15/22 19:01	11/16/22 21:28	1
Manganese	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:28	1
Nickel	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:28	1
Selenium	<0.050		0.050	0.020	mg/L		11/15/22 19:01	11/16/22 21:28	1
Silver	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:28	1
Zinc	<0.50		0.50	0.020	mg/L		11/15/22 19:01	11/16/22 21:28	1

Lab Sample ID: LB2 500-684869/1-B
Matrix: Solid
Analysis Batch: 685532

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685167

Analyte	LB2 LB2		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 23:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/22 19:01	11/16/22 23:04	1
Boron	<0.50		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 23:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/22 19:01	11/16/22 23:04	1
Chromium	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 23:04	1
Cobalt	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 23:04	1
Iron	<0.40		0.40	0.20	mg/L		11/15/22 19:01	11/16/22 23:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/15/22 19:01	11/16/22 23:04	1
Manganese	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 23:04	1
Nickel	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 23:04	1
Selenium	<0.050		0.050	0.020	mg/L		11/15/22 19:01	11/16/22 23:04	1
Silver	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 23:04	1

Eurofins Chicago

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB2 500-684869/1-B
Matrix: Solid
Analysis Batch: 685532

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685167

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	<0.50		0.50	0.020	mg/L		11/15/22 19:01	11/16/22 23:04	1

Lab Sample ID: LB 500-684882/1-B
Matrix: Solid
Analysis Batch: 685803

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 685169

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		11/15/22 19:05	11/17/22 18:30	1
Manganese	<0.025		0.025	0.010	mg/L		11/15/22 19:05	11/17/22 18:30	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-685167/24-A
Matrix: Solid
Analysis Batch: 685882

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685167

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.479		mg/L		96	80 - 120
Thallium	0.100	0.101		mg/L		101	80 - 120

Lab Sample ID: LCS 500-685167/2-A
Matrix: Solid
Analysis Batch: 685882

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685167

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.509		mg/L		102	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: LB 500-684867/1-B
Matrix: Solid
Analysis Batch: 685882

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685167

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/15/22 19:01	11/17/22 19:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/15/22 19:01	11/17/22 19:57	1

Lab Sample ID: LB2 500-684869/1-B
Matrix: Solid
Analysis Batch: 685882

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685167

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/15/22 19:01	11/17/22 21:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/15/22 19:01	11/17/22 21:29	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-685346/12-A
Matrix: Solid
Analysis Batch: 685588

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685346

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/16/22 11:50	11/17/22 10:26	1

Lab Sample ID: LCS 500-685346/14-A
Matrix: Solid
Analysis Batch: 685588

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685346

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00178		mg/L		90	80 - 120

Lab Sample ID: LCS 500-685346/36-A
Matrix: Solid
Analysis Batch: 685588

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685346

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00193		mg/L		97	80 - 120

Lab Sample ID: LB 500-684867/1-C
Matrix: Solid
Analysis Batch: 685588

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685346

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/16/22 11:50	11/17/22 10:28	1

Lab Sample ID: LB2 500-684869/2-B
Matrix: Solid
Analysis Batch: 685588

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685346

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/16/22 11:50	11/17/22 11:23	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-685449/12-A
Matrix: Solid
Analysis Batch: 685886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685449

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		11/17/22 15:25	11/18/22 06:41	1

Lab Sample ID: LCS 500-685449/13-A
Matrix: Solid
Analysis Batch: 685886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685449

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.165		mg/Kg		100	80 - 120

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B07 (0-6)

Lab Sample ID: 500-225160-1

Date Collected: 11/09/22 10:00

Matrix: Solid

Date Received: 11/09/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			684882	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
SPLP East	Prep	3010A			685169	LMB	EET CHI	11/15/22 19:05 - 11/15/22 19:35 ¹
SPLP East	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 18:52
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6010B		1	685532	JJB	EET CHI	11/16/22 22:04
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6020A		1	685882	FXG	EET CHI	11/17/22 20:24
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	7470A			685346	MJG	EET CHI	11/16/22 11:50 - 11/16/22 13:50 ¹
TCLP	Analysis	7470A		1	685588	MJG	EET CHI	11/17/22 10:47
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 21:15
Total/NA	Analysis	Moisture		1	685011	LWN	EET CHI	11/15/22 10:35

Client Sample ID: 1401V3-02-B07 (0-6)

Lab Sample ID: 500-225160-1

Date Collected: 11/09/22 10:00

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684692	WRE	EET CHI	11/10/22 17:39
Total/NA	Analysis	8260B		1	684733	W1T	EET CHI	11/14/22 12:40
Total/NA	Prep	3541			685354	EK	EET CHI	11/16/22 13:40 - 11/16/22 17:30 ¹
Total/NA	Analysis	8270D		1	686359	JSB	EET CHI	11/21/22 20:17
Total/NA	Prep	3050B			684902	LMB	EET CHI	11/14/22 17:22 - 11/14/22 17:52 ¹
Total/NA	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 21:28
Total/NA	Prep	3050B			684902	LMB	EET CHI	11/14/22 17:22 - 11/14/22 17:52 ¹
Total/NA	Analysis	6010B		5	686262	JJB	EET CHI	11/18/22 13:09
Total/NA	Prep	7471B			685449	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 06:44

Client Sample ID: 1401V3-02-B06 (0-6)

Lab Sample ID: 500-225160-2

Date Collected: 11/09/22 10:25

Matrix: Solid

Date Received: 11/09/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			684882	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
SPLP East	Prep	3010A			685169	LMB	EET CHI	11/15/22 19:05 - 11/15/22 19:35 ¹
SPLP East	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 18:56
TCLP	Leach	1311			684869	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6010B		1	685624	JJB	EET CHI	11/17/22 13:14
TCLP	Leach	1311			684869	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6010B		1	685532	JJB	EET CHI	11/16/22 23:11

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B06 (0-6)

Lab Sample ID: 500-225160-2

Date Collected: 11/09/22 10:25

Matrix: Solid

Date Received: 11/09/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			684869	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6020A		1	685882	FXG	EET CHI	11/17/22 21:36
TCLP	Leach	1311			684869	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	7470A			685346	MJG	EET CHI	11/16/22 11:50 - 11/16/22 13:50 ¹
TCLP	Analysis	7470A		1	685588	MJG	EET CHI	11/17/22 11:32
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 21:18
Total/NA	Analysis	Moisture		1	685011	LWN	EET CHI	11/15/22 10:35

Client Sample ID: 1401V3-02-B06 (0-6)

Lab Sample ID: 500-225160-2

Date Collected: 11/09/22 10:25

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684692	WRE	EET CHI	11/10/22 17:39
Total/NA	Analysis	8260B		1	684733	W1T	EET CHI	11/14/22 13:06
Total/NA	Prep	3541			685354	EK	EET CHI	11/16/22 13:40 - 11/16/22 17:30 ¹
Total/NA	Analysis	8270D		1	686359	JSB	EET CHI	11/21/22 20:38
Total/NA	Prep	3050B			684902	LMB	EET CHI	11/14/22 17:22 - 11/14/22 17:52 ¹
Total/NA	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 21:32
Total/NA	Prep	3050B			684902	LMB	EET CHI	11/14/22 17:22 - 11/14/22 17:52 ¹
Total/NA	Analysis	6010B		5	686262	JJB	EET CHI	11/18/22 13:12
Total/NA	Prep	7471B			685449	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 06:47

Client Sample ID: 1401V3-02-B05 (0-6)

Lab Sample ID: 500-225160-3

Date Collected: 11/09/22 10:35

Matrix: Solid

Date Received: 11/09/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			684882	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
SPLP East	Prep	3010A			685169	LMB	EET CHI	11/15/22 19:05 - 11/15/22 19:35 ¹
SPLP East	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 18:59
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6010B		1	685532	JJB	EET CHI	11/16/22 22:08
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6020A		1	685882	FXG	EET CHI	11/17/22 20:35
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	7470A			685346	MJG	EET CHI	11/16/22 11:50 - 11/16/22 13:50 ¹
TCLP	Analysis	7470A		1	685588	MJG	EET CHI	11/17/22 10:49
Total/NA	Analysis	9045D		1	685250	EH	EET CHI	11/16/22 10:52 - 11/16/22 11:03 ¹
Total/NA	Analysis	Moisture		1	685030	LWN	EET CHI	11/15/22 12:17

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B05 (0-6)

Lab Sample ID: 500-225160-3

Date Collected: 11/09/22 10:35

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684692	WRE	EET CHI	11/10/22 17:39
Total/NA	Analysis	8260B		1	684733	W1T	EET CHI	11/14/22 13:31
Total/NA	Prep	3541			685354	EK	EET CHI	11/16/22 13:40 - 11/16/22 17:30 ¹
Total/NA	Analysis	8270D		1	686359	JSB	EET CHI	11/21/22 21:00
Total/NA	Prep	3050B			684902	LMB	EET CHI	11/14/22 17:22 - 11/14/22 17:52 ¹
Total/NA	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 21:35
Total/NA	Prep	7471B			685449	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 06:48

Client Sample ID: 1401V3-02-B04 (0-6)

Lab Sample ID: 500-225160-4

Date Collected: 11/09/22 10:45

Matrix: Solid

Date Received: 11/09/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			684882	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
SPLP East	Prep	3010A			685169	LMB	EET CHI	11/15/22 19:05 - 11/15/22 19:35 ¹
SPLP East	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 19:08
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6010B		1	685532	JJB	EET CHI	11/16/22 22:11
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6020A		1	685882	FXG	EET CHI	11/17/22 20:38
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	7470A			685346	MJG	EET CHI	11/16/22 11:50 - 11/16/22 13:50 ¹
TCLP	Analysis	7470A		1	685588	MJG	EET CHI	11/17/22 10:51
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 21:29
Total/NA	Analysis	Moisture		1	685030	LWN	EET CHI	11/15/22 12:17

Client Sample ID: 1401V3-02-B04 (0-6)

Lab Sample ID: 500-225160-4

Date Collected: 11/09/22 10:45

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684692	WRE	EET CHI	11/10/22 17:39
Total/NA	Analysis	8260B		1	684733	W1T	EET CHI	11/14/22 13:56
Total/NA	Prep	3541			685354	EK	EET CHI	11/16/22 13:40 - 11/16/22 17:30 ¹
Total/NA	Analysis	8270D		1	686359	JSB	EET CHI	11/21/22 21:21
Total/NA	Prep	3050B			684902	LMB	EET CHI	11/14/22 17:22 - 11/14/22 17:52 ¹
Total/NA	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 21:45
Total/NA	Prep	7471B			685449	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 06:50

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B03 (0-6)

Lab Sample ID: 500-225160-5

Date Collected: 11/09/22 11:10

Matrix: Solid

Date Received: 11/09/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			684882	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
SPLP East	Prep	3010A			685169	LMB	EET CHI	11/15/22 19:05 - 11/15/22 19:35 ¹
SPLP East	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 19:12
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6010B		1	685532	JJB	EET CHI	11/16/22 22:14
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6020A		1	685882	FXG	EET CHI	11/17/22 20:41
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	7470A			685346	MJG	EET CHI	11/16/22 11:50 - 11/16/22 13:50 ¹
TCLP	Analysis	7470A		1	685588	MJG	EET CHI	11/17/22 10:53
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 21:32
Total/NA	Analysis	Moisture		1	685030	LWN	EET CHI	11/15/22 12:17

Client Sample ID: 1401V3-02-B03 (0-6)

Lab Sample ID: 500-225160-5

Date Collected: 11/09/22 11:10

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 76.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684692	WRE	EET CHI	11/10/22 17:39
Total/NA	Analysis	8260B		1	684733	W1T	EET CHI	11/14/22 14:22
Total/NA	Prep	3541			685354	EK	EET CHI	11/16/22 13:40 - 11/16/22 17:30 ¹
Total/NA	Analysis	8270D		1	686359	JSB	EET CHI	11/21/22 21:42
Total/NA	Prep	3050B			684902	LMB	EET CHI	11/14/22 17:22 - 11/14/22 17:52 ¹
Total/NA	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 21:48
Total/NA	Prep	7471B			685449	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 06:52

Client Sample ID: 1401V3-02-B02 (0-6)

Lab Sample ID: 500-225160-6

Date Collected: 11/09/22 11:25

Matrix: Solid

Date Received: 11/09/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			684882	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
SPLP East	Prep	3010A			685169	LMB	EET CHI	11/15/22 19:05 - 11/15/22 19:35 ¹
SPLP East	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 19:15
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6010B		1	685532	JJB	EET CHI	11/16/22 22:18
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6020A		1	685882	FXG	EET CHI	11/17/22 20:45
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	7470A			685346	MJG	EET CHI	11/16/22 11:50 - 11/16/22 13:50 ¹
TCLP	Analysis	7470A		1	685588	MJG	EET CHI	11/17/22 10:55

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B02 (0-6)

Lab Sample ID: 500-225160-6

Date Collected: 11/09/22 11:25

Matrix: Solid

Date Received: 11/09/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	685250	EH	EET CHI	11/16/22 11:14 - 11/16/22 11:25 ¹
Total/NA	Analysis	Moisture		1	685030	LWN	EET CHI	11/15/22 12:17

Client Sample ID: 1401V3-02-B02 (0-6)

Lab Sample ID: 500-225160-6

Date Collected: 11/09/22 11:25

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684692	WRE	EET CHI	11/10/22 17:39
Total/NA	Analysis	8260B		1	684733	W1T	EET CHI	11/14/22 14:47
Total/NA	Prep	3541			685354	EK	EET CHI	11/16/22 13:40 - 11/16/22 17:30 ¹
Total/NA	Analysis	8270D		1	686359	JSB	EET CHI	11/21/22 22:04
Total/NA	Prep	3050B			684902	LMB	EET CHI	11/14/22 17:22 - 11/14/22 17:52 ¹
Total/NA	Analysis	6010B		1	685803	JJJ	EET CHI	11/17/22 21:51
Total/NA	Prep	7471B			685449	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 06:58

Client Sample ID: 1401V3-02-B01 (0-5)

Lab Sample ID: 500-225160-7

Date Collected: 11/09/22 11:40

Matrix: Solid

Date Received: 11/09/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			684882	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
SPLP East	Prep	3010A			685169	LMB	EET CHI	11/15/22 19:05 - 11/15/22 19:35 ¹
SPLP East	Analysis	6010B		1	685803	JJJ	EET CHI	11/17/22 19:18
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6010B		1	685532	JJJ	EET CHI	11/16/22 22:21
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6020A		1	685882	FXG	EET CHI	11/17/22 20:48
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	7470A			685346	MJG	EET CHI	11/16/22 11:50 - 11/16/22 13:50 ¹
TCLP	Analysis	7470A		1	685588	MJG	EET CHI	11/17/22 10:58
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 21:37
Total/NA	Analysis	Moisture		1	685030	LWN	EET CHI	11/15/22 12:17

Client Sample ID: 1401V3-02-B01 (0-5)

Lab Sample ID: 500-225160-7

Date Collected: 11/09/22 11:40

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684692	WRE	EET CHI	11/10/22 17:39
Total/NA	Analysis	8260B		1	684733	W1T	EET CHI	11/14/22 15:12

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Client Sample ID: 1401V3-02-B01 (0-5)

Lab Sample ID: 500-225160-7

Date Collected: 11/09/22 11:40

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			685354	EK	EET CHI	11/16/22 13:40 - 11/16/22 17:30 ¹
Total/NA	Analysis	8270D		1	686359	JSB	EET CHI	11/21/22 22:25
Total/NA	Prep	3050B			684902	LMB	EET CHI	11/14/22 17:22 - 11/14/22 17:52 ¹
Total/NA	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 21:54
Total/NA	Prep	7471B			685449	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 07:00

Client Sample ID: 1401V3-02-B01 (5-9)

Lab Sample ID: 500-225160-8

Date Collected: 11/09/22 11:42

Matrix: Solid

Date Received: 11/09/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			684882	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
SPLP East	Prep	3010A			685169	LMB	EET CHI	11/15/22 19:05 - 11/15/22 19:35 ¹
SPLP East	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 19:21
TCLP	Leach	1311			684869	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6010B		1	685624	JJB	EET CHI	11/17/22 13:24
TCLP	Leach	1311			684869	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6010B		1	685532	JJB	EET CHI	11/16/22 23:14
TCLP	Leach	1311			684869	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6020A		1	685882	FXG	EET CHI	11/17/22 21:39
TCLP	Leach	1311			684869	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	7470A			685346	MJG	EET CHI	11/16/22 11:50 - 11/16/22 13:50 ¹
TCLP	Analysis	7470A		1	685588	MJG	EET CHI	11/17/22 11:34
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 21:39
Total/NA	Analysis	Moisture		1	685030	LWN	EET CHI	11/15/22 12:17

Client Sample ID: 1401V3-02-B01 (5-9)

Lab Sample ID: 500-225160-8

Date Collected: 11/09/22 11:42

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684692	WRE	EET CHI	11/10/22 17:39
Total/NA	Analysis	8260B		1	684733	W1T	EET CHI	11/14/22 15:37
Total/NA	Prep	3541			685354	EK	EET CHI	11/16/22 13:40 - 11/16/22 17:30 ¹
Total/NA	Analysis	8270D		1	686359	JSB	EET CHI	11/21/22 22:47
Total/NA	Prep	3050B			684902	LMB	EET CHI	11/14/22 17:22 - 11/14/22 17:52 ¹
Total/NA	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 21:57
Total/NA	Prep	3050B			684902	LMB	EET CHI	11/14/22 17:22 - 11/14/22 17:52 ¹
Total/NA	Analysis	6010B		5	686262	JJB	EET CHI	11/18/22 13:15
Total/NA	Prep	7471B			685449	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 07:02

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225160-1

Laboratory: Eurofins Chicago

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

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

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

Chain of Custody Record

522920




Environmental Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact		Project Manager D. Tibbitt		Site Contact A. Wright		Date 11/9/22		COC No 1	
Company Name WSP		Tel/Email		Lab Contact A. Wright		Carrier		1 of 7 COCs	
Address 30 N. LaSalle		Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below: _____							
City/State/Zip Chicago, IL 60603									
Phone		<input checked="" type="checkbox"/> 2 weeks		Filtered Sample (Y/N) Perform MS / MSD (Y/N) <i>PH</i> <i>PAHs</i> <i>VOCs</i> <i>SPPs</i> <i>TCLP*</i> <i>Total Metals</i>				Sampler	
Fax		<input type="checkbox"/> 1 week						For Lab Use Only	
Project Name W03 - Butterfield Rd.		<input type="checkbox"/> 2 days						Walk-in Client <input type="checkbox"/>	
Site PN-51403035-013		<input type="checkbox"/> 1 day						Lab Sampling <input type="checkbox"/>	
PO# 1DAT						500-225160 COC		Job / SDG No 500/225160	

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Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sample Specific Notes
1401V3-02-B07 (0-6)	11/9/22	1000	C	S	2	X	X	
1401V3-02-B06 (0-6)	11/9/22	1025	C	S	2	X	X	
1401V3-02-B05 (0-6)	11/9/22	1035	C	S	2	X	X	
1401V3-02-B04 (0-6)	11/9/22	1045	C	S	2	X	X	
1401V3-02-B03 (0-6)	11/9/22	1110	C	S	2	X	X	
1401V3-02-B02 (0-6)	11/9/22	1125	C	S	2	X	X	
1401V3-02-B01 (0-5)	11/9/22	1140	C	S	2	X	X	
1401V3-02-B01 (5-9)	11/9/22	1142	C	S	2	X	X	

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

Non Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return to Client Disposal by Lab Archive for _____ Months

Special Instructions/QC Requirements & Comments:
** SPP dependent on TCLP results* *53-25.5, 23-2.5, 5.4-75.6*

Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No	Cooler Temp (°C) Obs'd	Cor'd	Therm ID No
Relinquished by Caitlyn Cooper	Company WSP	Date/Time 11/9/22 1545	Received by A. Wright	Company ETA
Relinquished by A. J. Elmer	Company ETA	Date/Time 11/9/22 1100	Received by	Company
Relinquished by	Company	Date/Time	Received by Lab	Company ETA

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225160-1

Login Number: 225160

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.5,2.5,5.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 365 & FAP 870 (Butterfield Road) Office Phone Number, if available: _____

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

2 S 545-561 IL 53 (ISGS #1401V3-3)

City: Glen Ellyn State: IL Zip Code: 60137

County: DuPage Township: Milton

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

Latitude: 41.8345 Longitude: -88.05338
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 59

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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



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

Analytical Data Summary
PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

Key to Data Tables

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

Criteria Qualifiers and Shading

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

**PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11
CONTAMINANTS OF CONCERN**

SITE	ISGS #1401V3-03 (Residences)	Comparison Criteria					
		MACs			TACO		
BORING	1401V3-03-B02						
SAMPLE	1401V3-03-B02 (0-2)						
MATRIX	Soil						
DEPTH (feet)	0-2						
pH	6.3						
PID (meter units)	--	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
VOCs (None Detected)							
SVOCs (None Detected)							
Inorganics (mg/kg)							
Arsenic	11	11.3	13	--	13	61	--
Barium	66	1,500	--	--	5,500	14,000	--
Beryllium	1.1	22	--	--	160	410	--
Boron	5.2	40	--	--	16,000	41,000	--
Cadmium	0.12 J	5.2	--	--	78	200	--
Calcium	2,100	--	--	--	--	--	--
Chromium	21	21	--	--	230	690	--
Cobalt	15	20	--	--	4,700	12,000	--
Copper	18	2,900	--	--	2,900	8,200	--
Iron	25,000 †m	15,000	15,900	--	--	--	--
Lead	24	107	--	--	400	700	--
Magnesium	3,700	325,000	--	--	--	730,000	--
Manganese	350	630	636	--	1,600	4,100	--
Mercury	0.049	0.89	--	--	10	0.1	--
Nickel	28	100	--	--	1,600	4,100	--
Potassium	1,700	--	--	--	--	--	--
Silver	0.39	4.4	--	--	390	1,000	--
Sodium	2,000	--	--	--	--	--	--
Thallium	0.42 J	2.6	--	--	6.3	160	--
Vanadium	39	550	--	--	550	1,400	--
Zinc	59	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)							
Barium	0.25 J	--	--	--	--	--	2
Boron	1.4	--	--	--	--	--	2
Iron	0.20 J	--	--	--	--	--	5
Manganese	0.15	--	--	--	--	--	0.15
Zinc	0.094 J	--	--	--	--	--	5
SPLP Metals (mg/L)							
Manganese	0.55 L	--	--	--	--	--	0.15

ANALYTICAL REPORT

PREPARED FOR

Attn: Dean Tiebot
WSP USA Inc.
30 North LaSalle Street
Chicago Illinois 60602
Generated 11/23/2022 5:10:46 PM

JOB DESCRIPTION

IDOT - 196-002-WO 13 IL 56

JOB NUMBER

500-225164-1



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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225164-1

Job ID: 500-225164-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225164-1

Receipt

The samples were received on 11/9/2022 5:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.5° C, 5.5° C and 5.6° C.

GC/MS VOA

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

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-686476 was outside the method criteria for the following analyte(s): 4,6-Dinitro-2-methylphenol and Dibenzo(a,h)anthracene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with preparation batch 500-685501 and analytical batch 500-686476 had 1 analytes outside control limits: Indeno[1,2,3-cd]pyrene. These results have been reported and qualified.

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

Metals

Method Moisture: Sample homogenized due to a color variation throughout the sample.
1401V3-03-B01 (0-2) (500-225164-1)

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

General Chemistry

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

Organic Prep

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

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225164-1

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Client Sample ID: 1401V3-03-B02 (0-2)

Lab Sample ID: 500-225164-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		0.63	0.22	mg/Kg	1	✳	6010B	Total/NA
Barium	66		0.63	0.072	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225164-1

Client Sample ID: 1401V3-03-B02 (0-2) (Continued)

Lab Sample ID: 500-225164-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	1.1		0.25	0.059	mg/Kg	1	✳	6010B	Total/NA
Boron	5.2		3.1	0.29	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.12	J	0.13	0.023	mg/Kg	1	✳	6010B	Total/NA
Calcium	2100		13	2.1	mg/Kg	1	✳	6010B	Total/NA
Chromium	21		0.63	0.31	mg/Kg	1	✳	6010B	Total/NA
Cobalt	15		0.31	0.082	mg/Kg	1	✳	6010B	Total/NA
Copper	18		0.63	0.18	mg/Kg	1	✳	6010B	Total/NA
Iron	25000		13	6.5	mg/Kg	1	✳	6010B	Total/NA
Lead	24		0.31	0.15	mg/Kg	1	✳	6010B	Total/NA
Magnesium	3700		6.3	3.1	mg/Kg	1	✳	6010B	Total/NA
Manganese	350		0.63	0.091	mg/Kg	1	✳	6010B	Total/NA
Nickel	28		0.63	0.18	mg/Kg	1	✳	6010B	Total/NA
Potassium	1700		31	11	mg/Kg	1	✳	6010B	Total/NA
Silver	0.39		0.31	0.081	mg/Kg	1	✳	6010B	Total/NA
Sodium	2000		63	9.3	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.42	J	0.63	0.31	mg/Kg	1	✳	6010B	Total/NA
Vanadium	39		0.31	0.074	mg/Kg	1	✳	6010B	Total/NA
Zinc	59		1.3	0.55	mg/Kg	1	✳	6010B	Total/NA
Barium	0.25	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.4		0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.20	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	0.15		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.094	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.55		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.049		0.019	0.0064	mg/Kg	1	✳	7471B	Total/NA
pH	6.3		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225164-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010B	Metals (ICP)	SW846	EET CHI
6010B	SPLP Metals	SW846	EET CHI
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225164-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225164-2	1401V3-03-B02 (0-2)	Solid	11/09/22 14:05	11/09/22 17:00

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225164-1

Client Sample ID: 1401V3-03-B02 (0-2)

Lab Sample ID: 500-225164-2

Date Collected: 11/09/22 14:05

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0085	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
Benzene	<0.0019		0.0019	0.00050	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
Bromodichloromethane	<0.0019		0.0019	0.00040	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
Bromoform	<0.0019		0.0019	0.00057	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
Chlorobenzene	<0.0019		0.0019	0.00072	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
Chloroethane	<0.0049		0.0049	0.0014	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
Chloroform	<0.0019		0.0019	0.00068	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00059	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
Dibromochloromethane	<0.0019		0.0019	0.00064	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
1,1-Dichloroethane	<0.0019		0.0019	0.00067	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
1,1-Dichloroethene	<0.0019		0.0019	0.00067	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00068	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
Ethylbenzene	<0.0019		0.0019	0.00093	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0014	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00057	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
Styrene	<0.0019		0.0019	0.00059	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
Tetrachloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
Toluene	<0.0019		0.0019	0.00049	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00086	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00068	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00084	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
Trichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
Vinyl acetate	<0.0049		0.0049	0.0017	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
Vinyl chloride	<0.0019		0.0019	0.00086	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1
Xylenes, Total	<0.0039		0.0039	0.00062	mg/Kg	☼	11/10/22 17:39	11/15/22 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 131	11/10/22 17:39	11/15/22 16:59	1
Dibromofluoromethane	93		75 - 126	11/10/22 17:39	11/15/22 16:59	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	11/10/22 17:39	11/15/22 16:59	1
Toluene-d8 (Surr)	83		75 - 124	11/10/22 17:39	11/15/22 16:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.22		0.22	0.095	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.064	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
1,3-Dichlorobenzene	<0.22		0.22	0.048	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
1,4-Dichlorobenzene	<0.22		0.22	0.055	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225164-1

Client Sample ID: 1401V3-03-B02 (0-2)

Lab Sample ID: 500-225164-2

Date Collected: 11/09/22 14:05

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.22		0.22	0.051	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
2-Methylphenol	<0.22		0.22	0.069	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.050	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
N-Nitrosodi-n-propylamine	<0.086		0.086	0.052	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Hexachloroethane	<0.22		0.22	0.065	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
2-Chlorophenol	<0.22		0.22	0.073	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Nitrobenzene	<0.043		0.043	0.011	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.044	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.046	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Isophorone	<0.22		0.22	0.048	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
2,4-Dimethylphenol	<0.43		0.43	0.16	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Hexachlorobutadiene	<0.22		0.22	0.067	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Naphthalene	<0.043		0.043	0.0066	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
2,4-Dichlorophenol	<0.43		0.43	0.10	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
4-Chloroaniline	<0.86		0.86	0.20	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
2,4,6-Trichlorophenol	<0.43		0.43	0.15	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
2,4,5-Trichlorophenol	<0.43		0.43	0.098	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Hexachlorocyclopentadiene	<0.86		0.86	0.25	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
2-Methylnaphthalene	<0.086		0.086	0.0079	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
2-Nitroaniline	<0.22		0.22	0.058	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
2-Chloronaphthalene	<0.22		0.22	0.047	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
4-Chloro-3-methylphenol	<0.43		0.43	0.15	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
2,6-Dinitrotoluene	<0.22		0.22	0.084	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
2-Nitrophenol	<0.43		0.43	0.10	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
3-Nitroaniline	<0.43		0.43	0.13	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Dimethyl phthalate	<0.22		0.22	0.056	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
2,4-Dinitrophenol	<0.86		0.86	0.75	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Acenaphthylene	<0.043		0.043	0.0056	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
2,4-Dinitrotoluene	<0.22		0.22	0.068	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Acenaphthene	<0.043		0.043	0.0077	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Dibenzofuran	<0.22		0.22	0.050	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
4-Nitrophenol	<0.86		0.86	0.41	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Fluorene	<0.043		0.043	0.0060	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
4-Nitroaniline	<0.43		0.43	0.18	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.056	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Hexachlorobenzene	<0.086		0.086	0.0099	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Diethyl phthalate	<0.22		0.22	0.073	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.050	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Pentachlorophenol	<0.86		0.86	0.69	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
N-Nitrosodiphenylamine	<0.22		0.22	0.051	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
4,6-Dinitro-2-methylphenol	<0.86		0.86	0.34	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Phenanthrene	<0.043		0.043	0.0060	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Anthracene	<0.043		0.043	0.0072	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Carbazole	<0.22		0.22	0.11	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Di-n-butyl phthalate	<0.22		0.22	0.065	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Fluoranthene	<0.043		0.043	0.0079	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Pyrene	<0.043		0.043	0.0085	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Butyl benzyl phthalate	<0.22		0.22	0.081	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Benzo[a]anthracene	<0.043		0.043	0.0058	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225164-1

Client Sample ID: 1401V3-03-B02 (0-2)

Lab Sample ID: 500-225164-2

Date Collected: 11/09/22 14:05

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.043		0.043	0.012	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.060	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.078	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Di-n-octyl phthalate	<0.22		0.22	0.070	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Benzo[b]fluoranthene	<0.043		0.043	0.0092	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Benzo[k]fluoranthene	<0.043		0.043	0.013	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Benzo[a]pyrene	<0.043		0.043	0.0083	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Indeno[1,2,3-cd]pyrene	<0.043	+	0.043	0.011	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Dibenz(a,h)anthracene	<0.043		0.043	0.0083	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
Benzo[g,h,i]perylene	<0.043		0.043	0.014	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1
3 & 4 Methylphenol	<0.22		0.22	0.071	mg/Kg	☼	11/17/22 08:34	11/22/22 15:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	94		31 - 166	11/17/22 08:34	11/22/22 15:10	1
Phenol-d5	92		30 - 153	11/17/22 08:34	11/22/22 15:10	1
Nitrobenzene-d5 (Surr)	82		37 - 147	11/17/22 08:34	11/22/22 15:10	1
2-Fluorobiphenyl (Surr)	74		43 - 145	11/17/22 08:34	11/22/22 15:10	1
2,4,6-Tribromophenol	84		31 - 143	11/17/22 08:34	11/22/22 15:10	1
Terphenyl-d14 (Surr)	125		42 - 157	11/17/22 08:34	11/22/22 15:10	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.24	mg/Kg	☼	11/14/22 17:20	11/16/22 01:45	1
Arsenic	11		0.63	0.22	mg/Kg	☼	11/14/22 17:20	11/16/22 01:45	1
Barium	66		0.63	0.072	mg/Kg	☼	11/14/22 17:20	11/16/22 01:45	1
Beryllium	1.1		0.25	0.059	mg/Kg	☼	11/14/22 17:20	11/16/22 01:45	1
Boron	5.2		3.1	0.29	mg/Kg	☼	11/14/22 17:20	11/16/22 01:45	1
Cadmium	0.12	J	0.13	0.023	mg/Kg	☼	11/14/22 17:20	11/16/22 01:45	1
Calcium	2100		13	2.1	mg/Kg	☼	11/14/22 17:20	11/16/22 01:45	1
Chromium	21		0.63	0.31	mg/Kg	☼	11/14/22 17:20	11/16/22 01:45	1
Cobalt	15		0.31	0.082	mg/Kg	☼	11/14/22 17:20	11/16/22 01:45	1
Copper	18		0.63	0.18	mg/Kg	☼	11/14/22 17:20	11/16/22 01:45	1
Iron	25000		13	6.5	mg/Kg	☼	11/14/22 17:20	11/16/22 01:45	1
Lead	24		0.31	0.15	mg/Kg	☼	11/14/22 17:20	11/16/22 01:45	1
Magnesium	3700		6.3	3.1	mg/Kg	☼	11/14/22 17:20	11/16/22 01:45	1
Manganese	350		0.63	0.091	mg/Kg	☼	11/14/22 17:20	11/16/22 01:45	1
Nickel	28		0.63	0.18	mg/Kg	☼	11/14/22 17:20	11/16/22 01:45	1
Potassium	1700		31	11	mg/Kg	☼	11/14/22 17:20	11/16/22 01:45	1
Selenium	<0.63		0.63	0.37	mg/Kg	☼	11/14/22 17:20	11/16/22 01:45	1
Silver	0.39		0.31	0.081	mg/Kg	☼	11/14/22 17:20	11/16/22 01:45	1
Sodium	2000		63	9.3	mg/Kg	☼	11/14/22 17:20	11/16/22 01:45	1
Thallium	0.42	J	0.63	0.31	mg/Kg	☼	11/14/22 17:20	11/16/22 01:45	1
Vanadium	39		0.31	0.074	mg/Kg	☼	11/14/22 17:20	11/16/22 01:45	1
Zinc	59		1.3	0.55	mg/Kg	☼	11/14/22 17:20	11/16/22 14:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.25	J	0.50	0.050	mg/L		11/16/22 17:32	11/17/22 16:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/22 17:32	11/17/22 16:50	1
Boron	1.4		0.50	0.050	mg/L		11/16/22 17:32	11/17/22 16:50	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225164-1

Client Sample ID: 1401V3-03-B02 (0-2)

Lab Sample ID: 500-225164-2

Date Collected: 11/09/22 14:05

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/16/22 17:32	11/17/22 16:50	1
Chromium	<0.025		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:50	1
Cobalt	<0.025		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:50	1
Iron	0.20	J	0.40	0.20	mg/L		11/16/22 17:32	11/17/22 16:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/16/22 17:32	11/17/22 16:50	1
Manganese	0.15		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:50	1
Nickel	<0.025		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:50	1
Selenium	<0.050		0.050	0.020	mg/L		11/16/22 17:32	11/17/22 16:50	1
Silver	<0.025		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:50	1
Zinc	0.094	J	0.50	0.020	mg/L		11/16/22 17:32	11/17/22 16:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.55		0.025	0.010	mg/L		11/16/22 17:36	11/21/22 12:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/16/22 17:32	11/17/22 22:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/16/22 17:32	11/17/22 22:13	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/17/22 12:30	11/18/22 10:07	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.049		0.019	0.0064	mg/Kg	☆	11/18/22 13:10	11/21/22 09:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.3		0.2	0.2	SU			11/15/22 19:32	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225164-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225164-1

GC/MS VOA

Prep Batch: 684693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225164-1	1401V3-03-B01 (0-2)	Total/NA	Solid	5035	
500-225164-2	1401V3-03-B02 (0-2)	Total/NA	Solid	5035	

Analysis Batch: 684933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225164-1	1401V3-03-B01 (0-2)	Total/NA	Solid	8260B	684693
500-225164-2	1401V3-03-B02 (0-2)	Total/NA	Solid	8260B	684693
MB 500-684933/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-684933/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-684933/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 685501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225164-1	1401V3-03-B01 (0-2)	Total/NA	Solid	3541	
500-225164-2	1401V3-03-B02 (0-2)	Total/NA	Solid	3541	
MB 500-685501/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-685501/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 686476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225164-1	1401V3-03-B01 (0-2)	Total/NA	Solid	8270D	685501
500-225164-2	1401V3-03-B02 (0-2)	Total/NA	Solid	8270D	685501
MB 500-685501/1-A	Method Blank	Total/NA	Solid	8270D	685501
LCS 500-685501/2-A	Lab Control Sample	Total/NA	Solid	8270D	685501

Metals

Prep Batch: 684901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225164-1	1401V3-03-B01 (0-2)	Total/NA	Solid	3050B	
500-225164-2	1401V3-03-B02 (0-2)	Total/NA	Solid	3050B	
MB 500-684901/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-684901/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-225164-1 MS	1401V3-03-B01 (0-2)	Total/NA	Solid	3050B	
500-225164-1 MSD	1401V3-03-B01 (0-2)	Total/NA	Solid	3050B	
500-225164-1 DU	1401V3-03-B01 (0-2)	Total/NA	Solid	3050B	

Leach Batch: 685076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225164-1	1401V3-03-B01 (0-2)	TCLP	Solid	1311	
500-225164-2	1401V3-03-B02 (0-2)	TCLP	Solid	1311	
LB 500-685076/1-B	Method Blank	TCLP	Solid	1311	
LB 500-685076/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 685080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225164-1	1401V3-03-B01 (0-2)	SPLP East	Solid	1312	
500-225164-2	1401V3-03-B02 (0-2)	SPLP East	Solid	1312	
LB 500-685080/1-B	Method Blank	SPLP East	Solid	1312	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225164-1

Metals

Analysis Batch: 685232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225164-1	1401V3-03-B01 (0-2)	Total/NA	Solid	6010B	684901
500-225164-2	1401V3-03-B02 (0-2)	Total/NA	Solid	6010B	684901
MB 500-684901/1-A	Method Blank	Total/NA	Solid	6010B	684901
LCS 500-684901/2-A	Lab Control Sample	Total/NA	Solid	6010B	684901
500-225164-1 MS	1401V3-03-B01 (0-2)	Total/NA	Solid	6010B	684901
500-225164-1 MSD	1401V3-03-B01 (0-2)	Total/NA	Solid	6010B	684901
500-225164-1 DU	1401V3-03-B01 (0-2)	Total/NA	Solid	6010B	684901

Prep Batch: 685407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225164-1	1401V3-03-B01 (0-2)	TCLP	Solid	3010A	685076
500-225164-2	1401V3-03-B02 (0-2)	TCLP	Solid	3010A	685076
LB 500-685076/1-B	Method Blank	TCLP	Solid	3010A	685076
LCS 500-685407/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 685409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225164-1	1401V3-03-B01 (0-2)	SPLP East	Solid	3010A	685080
500-225164-2	1401V3-03-B02 (0-2)	SPLP East	Solid	3010A	685080
LB 500-685080/1-B	Method Blank	SPLP East	Solid	3010A	685080
LCS 500-685409/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 685531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225164-1	1401V3-03-B01 (0-2)	Total/NA	Solid	6010B	684901
500-225164-2	1401V3-03-B02 (0-2)	Total/NA	Solid	6010B	684901
MB 500-684901/1-A	Method Blank	Total/NA	Solid	6010B	684901
LCS 500-684901/2-A	Lab Control Sample	Total/NA	Solid	6010B	684901
500-225164-1 MS	1401V3-03-B01 (0-2)	Total/NA	Solid	6010B	684901
500-225164-1 MSD	1401V3-03-B01 (0-2)	Total/NA	Solid	6010B	684901
500-225164-1 DU	1401V3-03-B01 (0-2)	Total/NA	Solid	6010B	684901

Prep Batch: 685599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225164-1	1401V3-03-B01 (0-2)	TCLP	Solid	7470A	685076
500-225164-2	1401V3-03-B02 (0-2)	TCLP	Solid	7470A	685076
LB 500-685076/1-C	Method Blank	TCLP	Solid	7470A	685076
MB 500-685599/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-685599/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 685772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225164-1	1401V3-03-B01 (0-2)	Total/NA	Solid	7471B	
500-225164-2	1401V3-03-B02 (0-2)	Total/NA	Solid	7471B	
MB 500-685772/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-685772/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 685824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225164-1	1401V3-03-B01 (0-2)	TCLP	Solid	6010B	685407
500-225164-2	1401V3-03-B02 (0-2)	TCLP	Solid	6010B	685407

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225164-1

Metals (Continued)

Analysis Batch: 685824 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-685076/1-B	Method Blank	TCLP	Solid	6010B	685407
LCS 500-685407/2-A	Lab Control Sample	Total/NA	Solid	6010B	685407

Analysis Batch: 685882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225164-1	1401V3-03-B01 (0-2)	TCLP	Solid	6020A	685407
500-225164-2	1401V3-03-B02 (0-2)	TCLP	Solid	6020A	685407
LB 500-685076/1-B	Method Blank	TCLP	Solid	6020A	685407
LCS 500-685407/2-A	Lab Control Sample	Total/NA	Solid	6020A	685407

Analysis Batch: 685896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225164-1	1401V3-03-B01 (0-2)	TCLP	Solid	7470A	685599
500-225164-2	1401V3-03-B02 (0-2)	TCLP	Solid	7470A	685599
LB 500-685076/1-C	Method Blank	TCLP	Solid	7470A	685599
MB 500-685599/12-A	Method Blank	Total/NA	Solid	7470A	685599
LCS 500-685599/14-A	Lab Control Sample	Total/NA	Solid	7470A	685599

Analysis Batch: 686326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225164-1	1401V3-03-B01 (0-2)	Total/NA	Solid	7471B	685772
500-225164-2	1401V3-03-B02 (0-2)	Total/NA	Solid	7471B	685772
MB 500-685772/12-A	Method Blank	Total/NA	Solid	7471B	685772
LCS 500-685772/13-A	Lab Control Sample	Total/NA	Solid	7471B	685772

Analysis Batch: 686365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225164-1	1401V3-03-B01 (0-2)	SPLP East	Solid	6010B	685409
500-225164-2	1401V3-03-B02 (0-2)	SPLP East	Solid	6010B	685409
LB 500-685080/1-B	Method Blank	SPLP East	Solid	6010B	685409
LCS 500-685409/2-A	Lab Control Sample	Total/NA	Solid	6010B	685409

General Chemistry

Analysis Batch: 684487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225164-1	1401V3-03-B01 (0-2)	Total/NA	Solid	Moisture	
500-225164-2	1401V3-03-B02 (0-2)	Total/NA	Solid	Moisture	

Analysis Batch: 685174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225164-1	1401V3-03-B01 (0-2)	Total/NA	Solid	9045D	
500-225164-2	1401V3-03-B02 (0-2)	Total/NA	Solid	9045D	
LCS 500-685174/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-685174/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Surrogate Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225164-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(75-131)	(75-126)	(70-134)	(75-124)
500-225164-1	1401V3-03-B01 (0-2)	99	91	89	86
500-225164-2	1401V3-03-B02 (0-2)	95	93	91	83
LCS 500-684933/4	Lab Control Sample	91	85	81	85
LCS 500-684933/5	Lab Control Sample Dup	89	87	83	85
MB 500-684933/7	Method Blank	93	85	79	84

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP	PHL	NBZ	FBP	TBP	TPHL
		(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-225164-1	1401V3-03-B01 (0-2)	93	91	95	89	84	106
500-225164-2	1401V3-03-B02 (0-2)	94	92	82	74	84	125
LCS 500-685501/2-A	Lab Control Sample	106	101	103	103	105	124
MB 500-685501/1-A	Method Blank	98	96	92	90	75	112

Surrogate Legend

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

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225164-1

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

Lab Sample ID: MB 500-684933/7
Matrix: Solid
Analysis Batch: 684933

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			11/15/22 11:30	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			11/15/22 11:30	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			11/15/22 11:30	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			11/15/22 11:30	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			11/15/22 11:30	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			11/15/22 11:30	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			11/15/22 11:30	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			11/15/22 11:30	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			11/15/22 11:30	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			11/15/22 11:30	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			11/15/22 11:30	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			11/15/22 11:30	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			11/15/22 11:30	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			11/15/22 11:30	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			11/15/22 11:30	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			11/15/22 11:30	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			11/15/22 11:30	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			11/15/22 11:30	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			11/15/22 11:30	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			11/15/22 11:30	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			11/15/22 11:30	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			11/15/22 11:30	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			11/15/22 11:30	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			11/15/22 11:30	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			11/15/22 11:30	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			11/15/22 11:30	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			11/15/22 11:30	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/15/22 11:30	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			11/15/22 11:30	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			11/15/22 11:30	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			11/15/22 11:30	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			11/15/22 11:30	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			11/15/22 11:30	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/15/22 11:30	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			11/15/22 11:30	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			11/15/22 11:30	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			11/15/22 11:30	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	93		75 - 131		11/15/22 11:30	1
Dibromofluoromethane	85		75 - 126		11/15/22 11:30	1
1,2-Dichloroethane-d4 (Surr)	79		70 - 134		11/15/22 11:30	1
Toluene-d8 (Surr)	84		75 - 124		11/15/22 11:30	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225164-1

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

Lab Sample ID: LCS 500-684933/4
Matrix: Solid
Analysis Batch: 684933

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0500	0.0409		mg/Kg		82	40 - 150
Benzene	0.0500	0.0461		mg/Kg		92	70 - 125
Bromodichloromethane	0.0500	0.0469		mg/Kg		94	67 - 129
Bromoform	0.0500	0.0455		mg/Kg		91	68 - 136
Bromomethane	0.0500	0.0463		mg/Kg		93	70 - 130
2-Butanone (MEK)	0.0500	0.0443		mg/Kg		89	47 - 138
Carbon disulfide	0.0500	0.0481		mg/Kg		96	70 - 129
Carbon tetrachloride	0.0500	0.0511		mg/Kg		102	75 - 125
Chlorobenzene	0.0500	0.0468		mg/Kg		94	50 - 150
Chloroethane	0.0500	0.0449		mg/Kg		90	75 - 125
Chloroform	0.0500	0.0494		mg/Kg		99	57 - 135
Chloromethane	0.0500	0.0401		mg/Kg		80	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0488		mg/Kg		98	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0411		mg/Kg		82	70 - 125
Dibromochloromethane	0.0500	0.0472		mg/Kg		94	69 - 125
1,1-Dichloroethane	0.0500	0.0463		mg/Kg		93	70 - 125
1,2-Dichloroethane	0.0500	0.0475		mg/Kg		95	70 - 130
1,1-Dichloroethene	0.0500	0.0489		mg/Kg		98	70 - 120
1,2-Dichloropropane	0.0500	0.0446		mg/Kg		89	70 - 125
Ethylbenzene	0.0500	0.0463		mg/Kg		93	61 - 136
2-Hexanone	0.0500	0.0443		mg/Kg		89	48 - 146
Methylene Chloride	0.0500	0.0476		mg/Kg		95	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0419		mg/Kg		84	50 - 148
Methyl tert-butyl ether	0.0500	0.0441		mg/Kg		88	50 - 140
Styrene	0.0500	0.0460		mg/Kg		92	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0459		mg/Kg		92	70 - 122
Tetrachloroethene	0.0500	0.0467		mg/Kg		93	70 - 124
Toluene	0.0500	0.0442		mg/Kg		88	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0493		mg/Kg		99	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0426		mg/Kg		85	70 - 125
1,1,1-Trichloroethane	0.0500	0.0500		mg/Kg		100	70 - 128
1,1,2-Trichloroethane	0.0500	0.0461		mg/Kg		92	70 - 125
Trichloroethene	0.0500	0.0473		mg/Kg		95	70 - 125
Vinyl acetate	0.0500	0.0346		mg/Kg		69	40 - 153
Vinyl chloride	0.0500	0.0391		mg/Kg		78	70 - 125
Xylenes, Total	0.100	0.0901		mg/Kg		90	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	91		75 - 131
Dibromofluoromethane	85		75 - 126
1,2-Dichloroethane-d4 (Surr)	81		70 - 134
Toluene-d8 (Surr)	85		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225164-1

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

Lab Sample ID: LCSD 500-684933/5
Matrix: Solid
Analysis Batch: 684933

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.0500	0.0526		mg/Kg		105	40 - 150	25	30
Benzene	0.0500	0.0510		mg/Kg		102	70 - 125	10	30
Bromodichloromethane	0.0500	0.0528		mg/Kg		106	67 - 129	12	30
Bromoform	0.0500	0.0529		mg/Kg		106	68 - 136	15	30
Bromomethane	0.0500	0.0593		mg/Kg		119	70 - 130	24	30
2-Butanone (MEK)	0.0500	0.0516		mg/Kg		103	47 - 138	15	30
Carbon disulfide	0.0500	0.0540		mg/Kg		108	70 - 129	12	30
Carbon tetrachloride	0.0500	0.0580		mg/Kg		116	75 - 125	13	30
Chlorobenzene	0.0500	0.0517		mg/Kg		103	50 - 150	10	30
Chloroethane	0.0500	0.0548		mg/Kg		110	75 - 125	20	30
Chloroform	0.0500	0.0553		mg/Kg		111	57 - 135	11	30
Chloromethane	0.0500	0.0495		mg/Kg		99	70 - 125	21	30
cis-1,2-Dichloroethene	0.0500	0.0537		mg/Kg		107	70 - 125	10	30
cis-1,3-Dichloropropene	0.0500	0.0476		mg/Kg		95	70 - 125	15	30
Dibromochloromethane	0.0500	0.0523		mg/Kg		105	69 - 125	10	30
1,1-Dichloroethane	0.0500	0.0521		mg/Kg		104	70 - 125	12	30
1,2-Dichloroethane	0.0500	0.0541		mg/Kg		108	70 - 130	13	30
1,1-Dichloroethene	0.0500	0.0551		mg/Kg		110	70 - 120	12	30
1,2-Dichloropropane	0.0500	0.0494		mg/Kg		99	70 - 125	10	30
Ethylbenzene	0.0500	0.0506		mg/Kg		101	61 - 136	9	30
2-Hexanone	0.0500	0.0538		mg/Kg		108	48 - 146	19	30
Methylene Chloride	0.0500	0.0538		mg/Kg		108	70 - 126	12	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0505		mg/Kg		101	50 - 148	19	30
Methyl tert-butyl ether	0.0500	0.0520		mg/Kg		104	50 - 140	16	30
Styrene	0.0500	0.0505		mg/Kg		101	70 - 125	9	30
1,1,2,2-Tetrachloroethane	0.0500	0.0526		mg/Kg		105	70 - 122	14	30
Tetrachloroethene	0.0500	0.0506		mg/Kg		101	70 - 124	8	30
Toluene	0.0500	0.0492		mg/Kg		98	70 - 125	11	30
trans-1,2-Dichloroethene	0.0500	0.0564		mg/Kg		113	70 - 125	13	30
trans-1,3-Dichloropropene	0.0500	0.0484		mg/Kg		97	70 - 125	13	30
1,1,1-Trichloroethane	0.0500	0.0552		mg/Kg		110	70 - 128	10	30
1,1,2-Trichloroethane	0.0500	0.0520		mg/Kg		104	70 - 125	12	30
Trichloroethene	0.0500	0.0532		mg/Kg		106	70 - 125	12	30
Vinyl acetate	0.0500	0.0407		mg/Kg		81	40 - 153	16	30
Vinyl chloride	0.0500	0.0474		mg/Kg		95	70 - 125	19	30
Xylenes, Total	0.100	0.101		mg/Kg		101	53 - 147	11	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	89		75 - 131
Dibromofluoromethane	87		75 - 126
1,2-Dichloroethane-d4 (Surr)	83		70 - 134
Toluene-d8 (Surr)	85		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225164-1

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

Lab Sample ID: MB 500-685501/1-A
Matrix: Solid
Analysis Batch: 686476

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685501

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Isophorone	<0.17		0.17	0.037	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Carbazole	<0.17		0.17	0.083	mg/Kg		11/17/22 08:34	11/22/22 11:36	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225164-1

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

Lab Sample ID: MB 500-685501/1-A
Matrix: Solid
Analysis Batch: 686476

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685501

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		11/17/22 08:34	11/22/22 11:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	98		31 - 166	11/17/22 08:34	11/22/22 11:36	1
Phenol-d5	96		30 - 153	11/17/22 08:34	11/22/22 11:36	1
Nitrobenzene-d5 (Surr)	92		37 - 147	11/17/22 08:34	11/22/22 11:36	1
2-Fluorobiphenyl (Surr)	90		43 - 145	11/17/22 08:34	11/22/22 11:36	1
2,4,6-Tribromophenol	75		31 - 143	11/17/22 08:34	11/22/22 11:36	1
Terphenyl-d14 (Surr)	112		42 - 157	11/17/22 08:34	11/22/22 11:36	1

Lab Sample ID: LCS 500-685501/2-A
Matrix: Solid
Analysis Batch: 686476

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685501

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.32		mg/Kg		99	56 - 122
Bis(2-chloroethyl)ether	1.33	1.35		mg/Kg		101	55 - 111
1,3-Dichlorobenzene	1.33	1.30		mg/Kg		97	65 - 124
1,4-Dichlorobenzene	1.33	1.31		mg/Kg		98	61 - 110
1,2-Dichlorobenzene	1.33	1.33		mg/Kg		100	62 - 110
2-Methylphenol	1.33	1.57		mg/Kg		118	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.43		mg/Kg		107	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.35		mg/Kg		101	56 - 118
Hexachloroethane	1.33	1.27		mg/Kg		96	60 - 114
2-Chlorophenol	1.33	1.45		mg/Kg		109	64 - 110
Nitrobenzene	1.33	1.44		mg/Kg		108	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.42		mg/Kg		107	60 - 112
1,2,4-Trichlorobenzene	1.33	1.37		mg/Kg		103	66 - 117
Isophorone	1.33	1.35		mg/Kg		101	55 - 110
2,4-Dimethylphenol	1.33	1.42		mg/Kg		107	60 - 110
Hexachlorobutadiene	1.33	1.31		mg/Kg		98	56 - 120
Naphthalene	1.33	1.36		mg/Kg		102	63 - 110
2,4-Dichlorophenol	1.33	1.39		mg/Kg		104	58 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225164-1

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

Lab Sample ID: LCS 500-685501/2-A
Matrix: Solid
Analysis Batch: 686476

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685501

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloroaniline	1.33	0.940		mg/Kg		71	30 - 150
2,4,6-Trichlorophenol	1.33	1.47		mg/Kg		111	57 - 120
2,4,5-Trichlorophenol	1.33	1.45		mg/Kg		109	50 - 120
Hexachlorocyclopentadiene	1.33	1.24		mg/Kg		93	10 - 133
2-Methylnaphthalene	1.33	1.35		mg/Kg		101	69 - 112
2-Nitroaniline	1.33	1.53		mg/Kg		115	57 - 124
2-Chloronaphthalene	1.33	1.34		mg/Kg		101	69 - 114
4-Chloro-3-methylphenol	1.33	1.54		mg/Kg		116	65 - 122
2,6-Dinitrotoluene	1.33	1.46		mg/Kg		109	70 - 123
2-Nitrophenol	1.33	1.51		mg/Kg		113	60 - 120
3-Nitroaniline	1.33	0.629		mg/Kg		47	40 - 122
Dimethyl phthalate	1.33	1.39		mg/Kg		104	69 - 116
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		19	10 - 100
Acenaphthylene	1.33	1.40		mg/Kg		105	68 - 120
2,4-Dinitrotoluene	1.33	1.52		mg/Kg		114	69 - 124
Acenaphthene	1.33	1.41		mg/Kg		106	65 - 124
Dibenzofuran	1.33	1.38		mg/Kg		104	66 - 115
4-Nitrophenol	2.67	3.05		mg/Kg		114	30 - 122
Fluorene	1.33	1.41		mg/Kg		106	62 - 120
4-Nitroaniline	1.33	1.26		mg/Kg		95	60 - 160
4-Bromophenyl phenyl ether	1.33	1.49		mg/Kg		112	68 - 118
Hexachlorobenzene	1.33	1.48		mg/Kg		111	63 - 124
Diethyl phthalate	1.33	1.40		mg/Kg		105	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.42		mg/Kg		107	62 - 119
Pentachlorophenol	2.67	2.49		mg/Kg		93	13 - 112
N-Nitrosodiphenylamine	1.33	1.45		mg/Kg		109	65 - 112
4,6-Dinitro-2-methylphenol	2.67	2.19		mg/Kg		82	10 - 110
Phenanthrene	1.33	1.49		mg/Kg		111	62 - 120
Anthracene	1.33	1.48		mg/Kg		111	70 - 114
Carbazole	1.33	1.58		mg/Kg		119	65 - 142
Di-n-butyl phthalate	1.33	1.52		mg/Kg		114	65 - 120
Fluoranthene	1.33	1.58		mg/Kg		118	62 - 120
Pyrene	1.33	1.58		mg/Kg		118	61 - 128
Butyl benzyl phthalate	1.33	1.54		mg/Kg		116	71 - 129
Benzo[a]anthracene	1.33	1.46		mg/Kg		110	67 - 122
Chrysene	1.33	1.44		mg/Kg		108	63 - 120
3,3'-Dichlorobenzidine	1.33	1.08		mg/Kg		81	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.58		mg/Kg		118	72 - 131
Di-n-octyl phthalate	1.33	1.62		mg/Kg		121	68 - 134
Benzo[b]fluoranthene	1.33	1.49		mg/Kg		112	69 - 129
Benzo[k]fluoranthene	1.33	1.50		mg/Kg		112	68 - 127
Benzo[a]pyrene	1.33	1.54		mg/Kg		115	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.76	*+	mg/Kg		132	68 - 130
Dibenz(a,h)anthracene	1.33	1.68		mg/Kg		126	64 - 131
Benzo[g,h,i]perylene	1.33	1.68		mg/Kg		126	72 - 131
3 & 4 Methylphenol	1.33	1.57		mg/Kg		118	57 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225164-1

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

Lab Sample ID: LCS 500-685501/2-A
Matrix: Solid
Analysis Batch: 686476

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685501

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	106		31 - 166
Phenol-d5	101		30 - 153
Nitrobenzene-d5 (Surr)	103		37 - 147
2-Fluorobiphenyl (Surr)	103		43 - 145
2,4,6-Tribromophenol	105		31 - 143
Terphenyl-d14 (Surr)	124		42 - 157

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-684901/1-A
Matrix: Solid
Analysis Batch: 685232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 684901

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Arsenic	<1.0		1.0	0.34	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Barium	<1.0		1.0	0.11	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Beryllium	<0.40		0.40	0.093	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Boron	<5.0		5.0	0.47	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Cadmium	<0.20		0.20	0.036	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Calcium	<20		20	3.4	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Chromium	<1.0		1.0	0.50	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Cobalt	<0.50		0.50	0.13	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Copper	<1.0		1.0	0.28	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Iron	<20		20	10	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Lead	<0.50		0.50	0.23	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Magnesium	<10		10	5.0	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Manganese	<1.0		1.0	0.15	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Nickel	<1.0		1.0	0.29	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Potassium	<50		50	18	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Selenium	<1.0		1.0	0.59	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Silver	<0.50		0.50	0.13	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Sodium	<100		100	15	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Thallium	<1.0		1.0	0.50	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Vanadium	<0.50		0.50	0.12	mg/Kg		11/14/22 17:20	11/16/22 00:25	1

Lab Sample ID: MB 500-684901/1-A
Matrix: Solid
Analysis Batch: 685531

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 684901

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Zinc	<2.0		2.0	0.88	mg/Kg		11/14/22 17:20	11/16/22 13:44	1

Lab Sample ID: LCS 500-684901/2-A
Matrix: Solid
Analysis Batch: 685232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684901

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Antimony	50.0	44.6		mg/Kg		89	80 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225164-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-684901/2-A
Matrix: Solid
Analysis Batch: 685232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684901

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	10.0	8.79		mg/Kg		88	80 - 120
Barium	200	198		mg/Kg		99	80 - 120
Beryllium	5.00	4.79		mg/Kg		96	80 - 120
Boron	100	81.8		mg/Kg		82	80 - 120
Cadmium	5.00	4.56		mg/Kg		91	80 - 120
Calcium	1000	932		mg/Kg		93	80 - 120
Chromium	20.0	18.4		mg/Kg		92	80 - 120
Cobalt	50.0	49.0		mg/Kg		98	80 - 120
Copper	25.0	23.5		mg/Kg		94	80 - 120
Iron	100	97.5		mg/Kg		98	80 - 120
Lead	10.0	9.06		mg/Kg		91	80 - 120
Magnesium	1000	906		mg/Kg		91	80 - 120
Manganese	50.0	46.5		mg/Kg		93	80 - 120
Nickel	50.0	47.5		mg/Kg		95	80 - 120
Potassium	1000	971		mg/Kg		97	80 - 120
Selenium	10.0	8.14		mg/Kg		81	80 - 120
Silver	5.00	4.03		mg/Kg		81	80 - 120
Sodium	1000	1020		mg/Kg		102	80 - 120
Thallium	10.0	8.80		mg/Kg		88	80 - 120
Vanadium	50.0	48.5		mg/Kg		97	80 - 120

Lab Sample ID: LCS 500-684901/2-A
Matrix: Solid
Analysis Batch: 685531

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684901

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	50.0	45.9		mg/Kg		92	80 - 120

Lab Sample ID: 500-225164-1 MS
Matrix: Solid
Analysis Batch: 685232

Client Sample ID: 1401V3-03-B01 (0-2)
Prep Type: Total/NA
Prep Batch: 684901

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<1.2	F1	29.9	6.57	F1	mg/Kg	✱	22	75 - 125
Arsenic	7.4		5.99	12.5		mg/Kg	✱	86	75 - 125
Barium	100		120	205		mg/Kg	✱	86	75 - 125
Beryllium	0.81		2.99	3.47		mg/Kg	✱	89	75 - 125
Boron	5.7	F1	59.9	41.4	F1	mg/Kg	✱	60	75 - 125
Cadmium	0.17		2.99	2.41		mg/Kg	✱	75	75 - 125
Calcium	8200	F2	599	6910	4	mg/Kg	✱	-212	75 - 125
Chromium	15		12.0	25.6		mg/Kg	✱	91	75 - 125
Cobalt	12		29.9	42.6		mg/Kg	✱	102	75 - 125
Copper	15		15.0	28.8		mg/Kg	✱	91	75 - 125
Iron	17000		59.9	19600	4	mg/Kg	✱	3487	75 - 125
Lead	22	F1	5.99	25.7	F1	mg/Kg	✱	57	75 - 125
Magnesium	5400	F2	599	5710	4	mg/Kg	✱	47	75 - 125
Manganese	680		29.9	506	4	mg/Kg	✱	-582	75 - 125
Nickel	20		29.9	53.1		mg/Kg	✱	109	75 - 125
Potassium	1700	F1	599	2890	F1	mg/Kg	✱	200	75 - 125

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225164-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-225164-1 MS
Matrix: Solid
Analysis Batch: 685232

Client Sample ID: 1401V3-03-B01 (0-2)
Prep Type: Total/NA
Prep Batch: 684901

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	RPD
Selenium	<0.58	F1	5.99	3.48	F1	mg/Kg	⊛	58	75 - 125	
Silver	0.32	F1	2.99	2.40	F1	mg/Kg	⊛	69	75 - 125	
Sodium	1500		599	2080		mg/Kg	⊛	91	75 - 125	
Thallium	<0.58		5.99	4.84		mg/Kg	⊛	81	75 - 125	
Vanadium	26		29.9	52.1		mg/Kg	⊛	87	75 - 125	

Lab Sample ID: 500-225164-1 MS
Matrix: Solid
Analysis Batch: 685531

Client Sample ID: 1401V3-03-B01 (0-2)
Prep Type: Total/NA
Prep Batch: 684901

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	RPD
Zinc	56		29.9	89.3		mg/Kg	⊛	112	75 - 125	

Lab Sample ID: 500-225164-1 MSD
Matrix: Solid
Analysis Batch: 685232

Client Sample ID: 1401V3-03-B01 (0-2)
Prep Type: Total/NA
Prep Batch: 684901

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	
				Result	Qualifier				Limits	RPD	Limit	
Antimony	<1.2	F1	29.2	6.50	F1	mg/Kg	⊛	22	75 - 125	1	20	
Arsenic	7.4		5.85	11.9		mg/Kg	⊛	78	75 - 125	5	20	
Barium	100		117	205		mg/Kg	⊛	89	75 - 125	0	20	
Beryllium	0.81		2.92	3.33		mg/Kg	⊛	86	75 - 125	4	20	
Boron	5.7	F1	58.5	42.3	F1	mg/Kg	⊛	63	75 - 125	2	20	
Cadmium	0.17		2.92	2.42		mg/Kg	⊛	77	75 - 125	1	20	
Calcium	8200	F2	585	11300	4 F2	mg/Kg	⊛	534	75 - 125	48	20	
Chromium	15		11.7	24.1		mg/Kg	⊛	81	75 - 125	6	20	
Cobalt	12		29.2	40.7		mg/Kg	⊛	98	75 - 125	5	20	
Copper	15		14.6	27.5		mg/Kg	⊛	84	75 - 125	5	20	
Iron	17000		58.5	17900	4	mg/Kg	⊛	690	75 - 125	9	20	
Lead	22	F1	5.85	27.1		mg/Kg	⊛	83	75 - 125	6	20	
Magnesium	5400	F2	585	7710	4 F2	mg/Kg	⊛	390	75 - 125	30	20	
Manganese	680		29.2	619	4	mg/Kg	⊛	-211	75 - 125	20	20	
Nickel	20		29.2	48.9		mg/Kg	⊛	98	75 - 125	8	20	
Potassium	1700	F1	585	2840	F1	mg/Kg	⊛	196	75 - 125	2	20	
Selenium	<0.58	F1	5.85	3.57	F1	mg/Kg	⊛	61	75 - 125	3	20	
Silver	0.32	F1	2.92	2.37	F1	mg/Kg	⊛	70	75 - 125	1	20	
Sodium	1500		585	2030		mg/Kg	⊛	86	75 - 125	2	20	
Thallium	<0.58		5.85	5.11		mg/Kg	⊛	87	75 - 125	5	20	
Vanadium	26		29.2	50.6		mg/Kg	⊛	84	75 - 125	3	20	

Lab Sample ID: 500-225164-1 MSD
Matrix: Solid
Analysis Batch: 685531

Client Sample ID: 1401V3-03-B01 (0-2)
Prep Type: Total/NA
Prep Batch: 684901

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	
				Result	Qualifier				Limits	RPD	Limit	
Zinc	56		29.2	84.9		mg/Kg	⊛	100	75 - 125	5	20	

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225164-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-225164-1 DU
Matrix: Solid
Analysis Batch: 685232

Client Sample ID: 1401V3-03-B01 (0-2)
Prep Type: Total/NA
Prep Batch: 684901

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<1.2	F1	<1.2		mg/Kg	⊛	NC	20
Arsenic	7.4		6.85		mg/Kg	⊛	7	20
Barium	100		129	F3	mg/Kg	⊛	24	20
Beryllium	0.81		0.949		mg/Kg	⊛	15	20
Boron	5.7	F1	7.36	F5	mg/Kg	⊛	26	20
Cadmium	0.17		0.180		mg/Kg	⊛	6	20
Calcium	8200	F2	7400		mg/Kg	⊛	10	20
Chromium	15		14.2		mg/Kg	⊛	3	20
Cobalt	12		10.9		mg/Kg	⊛	9	20
Copper	15		15.5		mg/Kg	⊛	2	20
Iron	17000		17900		mg/Kg	⊛	2	20
Lead	22	F1	19.9		mg/Kg	⊛	11	20
Magnesium	5400	F2	4970		mg/Kg	⊛	9	20
Manganese	680		415	F3	mg/Kg	⊛	48	20
Nickel	20		19.4		mg/Kg	⊛	5	20
Potassium	1700	F1	1710		mg/Kg	⊛	0.9	20
Selenium	<0.58	F1	<0.60		mg/Kg	⊛	NC	20
Silver	0.32	F1	0.339		mg/Kg	⊛	6	20
Sodium	1500		1660		mg/Kg	⊛	8	20
Thallium	<0.58		0.417	J	mg/Kg	⊛	NC	20
Vanadium	26		25.9		mg/Kg	⊛	0.5	20

Lab Sample ID: 500-225164-1 DU
Matrix: Solid
Analysis Batch: 685531

Client Sample ID: 1401V3-03-B01 (0-2)
Prep Type: Total/NA
Prep Batch: 684901

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Zinc	56		53.0		mg/Kg	⊛	5	20

Lab Sample ID: LCS 500-685407/2-A
Matrix: Solid
Analysis Batch: 685824

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685407

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0487		mg/L		97	80 - 120
Boron	1.00	0.916		mg/L		92	80 - 120
Cadmium	0.0500	0.0516		mg/L		103	80 - 120
Chromium	0.200	0.196		mg/L		98	80 - 120
Cobalt	0.500	0.500		mg/L		100	80 - 120
Iron	1.00	0.961		mg/L		96	80 - 120
Lead	0.100	0.0944		mg/L		94	80 - 120
Manganese	0.500	0.481		mg/L		96	80 - 120
Nickel	0.500	0.490		mg/L		98	80 - 120
Selenium	0.100	0.105		mg/L		105	80 - 120
Silver	0.0500	0.0545		mg/L		109	80 - 120
Zinc	0.500	0.521		mg/L		104	80 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225164-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-685409/2-A
Matrix: Solid
Analysis Batch: 686365

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685409

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Iron	1.00	0.995		mg/L		99	80 - 120
Lead	0.100	0.0911		mg/L		91	80 - 120
Manganese	0.500	0.493		mg/L		99	80 - 120

Lab Sample ID: LB 500-685076/1-B
Matrix: Solid
Analysis Batch: 685824

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685407

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		11/16/22 17:32	11/17/22 16:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/22 17:32	11/17/22 16:30	1
Boron	<0.50		0.50	0.050	mg/L		11/16/22 17:32	11/17/22 16:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/16/22 17:32	11/17/22 16:30	1
Chromium	<0.025		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:30	1
Cobalt	<0.025		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:30	1
Iron	<0.40		0.40	0.20	mg/L		11/16/22 17:32	11/17/22 16:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/16/22 17:32	11/17/22 16:30	1
Manganese	<0.025		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:30	1
Nickel	<0.025		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:30	1
Selenium	<0.050		0.050	0.020	mg/L		11/16/22 17:32	11/17/22 16:30	1
Silver	<0.025		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:30	1
Zinc	<0.50		0.50	0.020	mg/L		11/16/22 17:32	11/17/22 16:30	1

Lab Sample ID: LB 500-685080/1-B
Matrix: Solid
Analysis Batch: 686365

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 685409

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Iron	<0.40		0.40	0.20	mg/L		11/16/22 17:36	11/21/22 12:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/16/22 17:36	11/21/22 12:01	1
Manganese	<0.025		0.025	0.010	mg/L		11/16/22 17:36	11/21/22 12:01	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-685407/2-A
Matrix: Solid
Analysis Batch: 685882

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685407

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Antimony	0.500	0.491		mg/L		98	80 - 120
Thallium	0.100	0.102		mg/L		102	80 - 120

Lab Sample ID: LB 500-685076/1-B
Matrix: Solid
Analysis Batch: 685882

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685407

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		11/16/22 17:32	11/17/22 21:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/16/22 17:32	11/17/22 21:53	1

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225164-1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-685599/12-A
Matrix: Solid
Analysis Batch: 685896

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685599

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/17/22 12:30	11/18/22 09:52	1

Lab Sample ID: LCS 500-685599/14-A
Matrix: Solid
Analysis Batch: 685896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685599

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00187		mg/L		94	80 - 120

Lab Sample ID: LB 500-685076/1-C
Matrix: Solid
Analysis Batch: 685896

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685599

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/17/22 12:30	11/18/22 09:54	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-685772/12-A
Matrix: Solid
Analysis Batch: 686326

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685772

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		11/18/22 13:10	11/21/22 09:01	1

Lab Sample ID: LCS 500-685772/13-A
Matrix: Solid
Analysis Batch: 686326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685772

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.146		mg/Kg		88	80 - 120

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225164-1

Client Sample ID: 1401V3-03-B01 (0-2)

Lab Sample ID: 500-225164-1

Date Collected: 11/09/22 14:00

Matrix: Solid

Date Received: 11/09/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685080	AW	EET CHI	11/15/22 13:08 - 11/16/22 13:08 ¹
SPLP East	Prep	3010A			685409	LMB	EET CHI	11/16/22 17:36 - 11/16/22 18:06 ¹
SPLP East	Analysis	6010B		1	686365	JJB	EET CHI	11/21/22 12:08
TCLP	Leach	1311			685076	AW	EET CHI	11/15/22 13:08 - 11/16/22 07:08 ¹
TCLP	Prep	3010A			685407	LMB	EET CHI	11/16/22 17:32 - 11/16/22 18:02 ¹
TCLP	Analysis	6010B		1	685824	JJB	EET CHI	11/17/22 16:46
TCLP	Leach	1311			685076	AW	EET CHI	11/15/22 13:08 - 11/16/22 07:08 ¹
TCLP	Prep	3010A			685407	LMB	EET CHI	11/16/22 17:32 - 11/16/22 18:02 ¹
TCLP	Analysis	6020A		1	685882	FXG	EET CHI	11/17/22 22:10
TCLP	Leach	1311			685076	AW	EET CHI	11/15/22 13:08 - 11/16/22 07:08 ¹
TCLP	Prep	7470A			685599	MJG	EET CHI	11/17/22 12:30 - 11/17/22 14:30 ¹
TCLP	Analysis	7470A		1	685896	MJG	EET CHI	11/18/22 10:05
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 19:29
Total/NA	Analysis	Moisture		1	684487	LWN	EET CHI	11/11/22 10:13

Client Sample ID: 1401V3-03-B01 (0-2)

Lab Sample ID: 500-225164-1

Date Collected: 11/09/22 14:00

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684693	WRE	EET CHI	11/10/22 17:39
Total/NA	Analysis	8260B		1	684933	PMF	EET CHI	11/15/22 16:33
Total/NA	Prep	3541			685501	KN	EET CHI	11/17/22 08:34 - 11/17/22 15:30 ¹
Total/NA	Analysis	8270D		1	686476	SS	EET CHI	11/22/22 14:48
Total/NA	Prep	3050B			684901	LMB	EET CHI	11/14/22 17:20 - 11/14/22 17:50 ¹
Total/NA	Analysis	6010B		1	685232	JJB	EET CHI	11/16/22 01:18
Total/NA	Prep	3050B			684901	LMB	EET CHI	11/14/22 17:20 - 11/14/22 17:50 ¹
Total/NA	Analysis	6010B		1	685531	JJB	EET CHI	11/16/22 14:03
Total/NA	Prep	7471B			685772	MJG	EET CHI	11/18/22 13:10
Total/NA	Analysis	7471B		1	686326	MJG	EET CHI	11/21/22 09:04

Client Sample ID: 1401V3-03-B02 (0-2)

Lab Sample ID: 500-225164-2

Date Collected: 11/09/22 14:05

Matrix: Solid

Date Received: 11/09/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685080	AW	EET CHI	11/15/22 13:08 - 11/16/22 13:08 ¹
SPLP East	Prep	3010A			685409	LMB	EET CHI	11/16/22 17:36 - 11/16/22 18:06 ¹
SPLP East	Analysis	6010B		1	686365	JJB	EET CHI	11/21/22 12:11
TCLP	Leach	1311			685076	AW	EET CHI	11/15/22 13:08 - 11/16/22 07:08 ¹
TCLP	Prep	3010A			685407	LMB	EET CHI	11/16/22 17:32 - 11/16/22 18:02 ¹
TCLP	Analysis	6010B		1	685824	JJB	EET CHI	11/17/22 16:50
TCLP	Leach	1311			685076	AW	EET CHI	11/15/22 13:08 - 11/16/22 07:08 ¹
TCLP	Prep	3010A			685407	LMB	EET CHI	11/16/22 17:32 - 11/16/22 18:02 ¹
TCLP	Analysis	6020A		1	685882	FXG	EET CHI	11/17/22 22:13

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225164-1

Client Sample ID: 1401V3-03-B02 (0-2)

Lab Sample ID: 500-225164-2

Date Collected: 11/09/22 14:05

Matrix: Solid

Date Received: 11/09/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			685076	AW	EET CHI	11/15/22 13:08 - 11/16/22 07:08 ¹
TCLP	Prep	7470A			685599	MJG	EET CHI	11/17/22 12:30 - 11/17/22 14:30 ¹
TCLP	Analysis	7470A		1	685896	MJG	EET CHI	11/18/22 10:07
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 19:32
Total/NA	Analysis	Moisture		1	684487	LWN	EET CHI	11/11/22 10:13

Client Sample ID: 1401V3-03-B02 (0-2)

Lab Sample ID: 500-225164-2

Date Collected: 11/09/22 14:05

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684693	WRE	EET CHI	11/10/22 17:39
Total/NA	Analysis	8260B		1	684933	PMF	EET CHI	11/15/22 16:59
Total/NA	Prep	3541			685501	KN	EET CHI	11/17/22 08:34 - 11/17/22 15:30 ¹
Total/NA	Analysis	8270D		1	686476	SS	EET CHI	11/22/22 15:10
Total/NA	Prep	3050B			684901	LMB	EET CHI	11/14/22 17:20 - 11/14/22 17:50 ¹
Total/NA	Analysis	6010B		1	685232	JJB	EET CHI	11/16/22 01:45
Total/NA	Prep	3050B			684901	LMB	EET CHI	11/14/22 17:20 - 11/14/22 17:50 ¹
Total/NA	Analysis	6010B		1	685531	JJB	EET CHI	11/16/22 14:19
Total/NA	Prep	7471B			685772	MJG	EET CHI	11/18/22 13:10
Total/NA	Analysis	7471B		1	686326	MJG	EET CHI	11/21/22 09:06

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225164-1

Laboratory: Eurofins Chicago

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

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Chain of Custody Record

522925




Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact Company Name: <u>WSP</u> Address: <u>30 N. LaSalle</u> City/State/Zip: <u>Chicago, IL</u> Phone: _____ Fax: _____ Project Name: <u>DOT W013 Buttafield Rd.</u> Site: _____ P O #: <u>AN: 31403035_013</u>		Project Manager <u>D. TIERBOUT</u> Tel/Email: _____ Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Contact <u>A. HAPPEL</u> Date <u>11/9/22</u> Lab Contact <u>P. WRIGHT</u> Carrier _____		COC No <u>5</u> 6 of 7 COCs Sampler _____ For Lab Use Only Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/> Job / SDG No <u>500-225164</u>				
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N) Perform MS/MSD (Y/N)	pH % Solids Total Metals VOCs SVOCs TCLP	 500-225164 COC	Sample Specific Notes
1 <u>1401V3-03-B01 (0-2)</u>		<u>11/9/22</u>	<u>1400</u>	<u>C</u>	<u>S</u>	<u>2</u>	X X X X X	X X X X X	X X X X X	X X X X X
2 <u>1401V3-03-B02 (0-2)</u>		<u>11/9/22</u>	<u>1405</u>	<u>C</u>	<u>S</u>	<u>2</u>	X X X X X	X X X X X	X X X X X	X X X X X
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other										
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months			
Special Instructions/QC Requirements & Comments: <u>* SPLP dependent on TCLP results</u>										
Study Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No _____		Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No _____				
Relinquished by <u>Cathryn Cooper</u>		Company <u>WSP</u> Date/Time <u>11/9/22 1545</u>		Received by <u>M.G. Ellis</u>		Company <u>EETA</u> Date/Time <u>11/9/22 1545</u>				
Relinquished by <u>M.G. Ellis</u>		Company <u>EETA</u> Date/Time <u>11/9/22 1700</u>		Received by _____		Company _____ Date/Time _____				
Relinquished by _____		Company _____ Date/Time _____		Received in Laboratory by <u>Shirley Smith</u>		Company <u>EETA</u> Date/Time <u>11/10/22 0750</u>				

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225164-1

Login Number: 225164

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.5,2.5,5.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Eurofins Chicago

Job Notes

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

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

Authorization



Generated
11/23/2022 5:10:46 PM

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



Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 365 & FAP 870 (Butterfield Road) Office Phone Number, if available: _____

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

2 S 625 IL 53 and 2400 Butterfield Road (ISGS #1401V3-4)

City: Lombard State: IL Zip Code: 60148

County: DuPage Township: Milton

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

Latitude: 41.83531 Longitude: -88.04816
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: 0430450003 BOW: _____ BOA: _____

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

Estimated Volume of debris (cu. Yd.): 1,924

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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



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

Analytical Data Summary
PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

Key to Data Tables

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

Criteria Qualifiers and Shading

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

PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11
CONTAMINANTS OF CONCERN

SITE	ISGS #1401V3-04 (Western Acres Golf Course)			Comparison Criteria					
	1401V3-04-B01		1401V3-04-B03	MACs			TACO		
BORING				Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1401V3-04-B01 (0-5)	1401V3-04-B01 (5-7)	1401V3-04-B03 (0-6)						
MATRIX	Soil	Soil	Soil						
DEPTH (feet)	0-5	5-7	0-6						
pH	7.9	7.1	7.2						
PID (meter units)	--	--	--						
VOCs (mg/kg)									
2-Butanone (MEK)	ND U	ND U	0.032	--	--	--	--	--	--
Acetone	ND U	ND U	0.11	25	--	--	70,000	100,000	--
SVOCs (mg/kg)									
2-Methylnaphthalene	ND U	ND U	ND U	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	570	--	0.94	4,700	120,000	--
Acenaphthylene	ND U	ND U	ND U	--	--	0.25	--	--	--
Anthracene	ND U	ND U	ND U	12,000	--	2.6	23,000	610,000	--
Benzo(a)anthracene	0.025 J	0.031 J	ND U	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	0.025 J	0.032 J	ND UJ	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	0.042 J	0.055 J	0.013 J	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	ND UJ	0.016 J	ND UJ	--	--	4.4	--	--	--
Benzo(k)fluoranthene	0.014 J	0.026 J	ND UJ	9	--	8.1	9	1,700	--
Bis(2-ethylhexyl) phthalate	0.10 J	ND UJ	ND UJ	46	--	--	46	4,100	--
Chrysene	0.033 J	0.040 J	ND U	88	--	11	88	17,000	--
Dibenzo(a,h)anthracene	ND UJ	ND UJ	ND UJ	0.09	0.42	1	0.42	17	--
Fluoranthene	0.037 J	0.061	0.0093 J	3,100	--	28	3,100	82,000	--
Fluorene	ND U	ND U	ND U	560	--	1.1	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.015 J	0.018 J	ND UJ	0.9	1.6	5.8	1.6	170	--
Naphthalene	ND U	ND U	ND U	1.8	--	0.26	170	1.8	--
Phenanthrene	0.018 J	0.035 J	0.0066 J	--	--	15	--	--	--
Pyrene	0.059	0.090	0.016 J	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)									
Antimony	0.54 J	0.63 J	0.39 J	5	--	--	31	82	--
Arsenic	11	11	6.6	11.3	13	--	13	61	--
Barium	70	88	120	1,500	--	--	5,500	14,000	--
Beryllium	0.76	0.75	0.78	22	--	--	160	410	--
Boron	7.3	4.9	4.2	40	--	--	16,000	41,000	--
Cadmium	0.25	0.19	ND U	5.2	--	--	78	200	--
Calcium	25,000	19,000	3,600	--	--	--	--	--	--
Chromium	15	16	16	21	--	--	230	690	--
Cobalt	12	12	9.6	20	--	--	4,700	12,000	--
Copper	19	20	13	2,900	--	--	2,900	8,200	--
Iron	20,000 †m	21,000 †m	17,000 †m	15,000	15,900	--	--	--	--
Lead	36	37	25	107	--	--	400	700	--
Magnesium	16,000	13,000	2,900	325,000	--	--	--	730,000	--
Manganese	590	440	320	630	636	--	1,600	4,100	--
Mercury	0.033	0.046	0.039	0.89	--	--	10	0.1	--
Nickel	24	21	17	100	--	--	1,600	4,100	--
Potassium	1,600	1,200	980	--	--	--	--	--	--
Selenium	0.41 J	ND U	ND U	1.3	--	--	390	1,000	--
Silver	0.28 J	0.33	0.34	4.4	--	--	390	1,000	--
Sodium	1,700	1,800	2,300	--	--	--	--	--	--
Thallium	ND U	ND U	ND U	2.6	--	--	6.3	160	--
Vanadium	24	28	31	550	--	--	550	1,400	--
Zinc	62	61	42	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)									
Barium	0.48 J	0.49 J	0.52	--	--	--	--	--	2
Cadmium	ND U	ND U	ND U	--	--	--	--	--	0.005
Cobalt	ND U	ND U	0.043	--	--	--	--	--	1
Iron	ND U	ND U	0.83	--	--	--	--	--	5
Lead	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	1.5 L	0.81 L	8.5 L	--	--	--	--	--	0.15
Nickel	ND U	ND U	0.018 J	--	--	--	--	--	0.1
Zinc	ND U	ND U	0.023 J	--	--	--	--	--	5
SPLP Metals (mg/L)									
Lead	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	1.3 L	1.0 L	1.4 L	--	--	--	--	--	0.15

PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

CONTAMINANTS OF CONCERN

SITE	ISGS #1401V3-04 (Western Acres Golf Course)			Comparison Criteria					
	1401V3-04-B05		1401V3-04-B06	MACs			TACO		
BORING	1401V3-04-B05 (0-6)		1401V3-04-B06 (0-6)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1401V3-04-B05 (0-6)		1401V3-04-B06 (0-6)						
MATRIX	Soil	Soil	Soil						
DEPTH (feet)	0-6	0-6	0-6						
pH	7.3	7.2	7.9						
PID (meter units)	--		--						
VOCs (mg/kg)									
2-Butanone (MEK)	ND U	0.0075	ND U	--	--	--	--	--	--
Acetone	0.025	0.025	0.028	25	--	--	70,000	100,000	--
SVOCs (mg/kg)									
2-Methylnaphthalene	0.0097 J	0.011 J	ND U	--	--	--	--	--	--
Acenaphthene	0.049	0.013 J	0.019 J	570	--	0.94	4,700	120,000	--
Acenaphthylene	0.038 J	0.0074 J	ND U	--	--	0.25	--	--	--
Anthracene	0.16	0.030 J	0.014 J	12,000	--	2.6	23,000	610,000	--
Benzo(a)anthracene	0.26	0.12	0.065	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	0.21 J †	0.14 J †	0.083	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	0.32 J	0.21 J	0.12	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	0.069 J	0.061 J	0.040 J	--	--	4.4	--	--	--
Benzo(k)fluoranthene	0.12 J	0.079 J	0.040	9	--	8.1	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND UJ	ND UJ	ND UJ	46	--	--	46	4,100	--
Chrysene	0.37	0.17	0.077	88	--	11	88	17,000	--
Dibenzo(a,h)anthracene	0.022 J	0.016 J	0.010 J	0.09	0.42	1	0.42	17	--
Fluoranthene	0.57 J	0.23 J	0.072	3,100	--	28	3,100	82,000	--
Fluorene	0.098	0.013 J	0.018 J	560	--	1.1	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.074 J	0.062 J	0.041	0.9	1.6	5.8	1.6	170	--
Naphthalene	0.011 J	0.0086 J	ND U	1.8	--	0.26	170	1.8	--
Phenanthrene	0.41	0.11	0.041	--	--	15	--	--	--
Pyrene	1.1 J	0.37 J	0.095 J	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)									
Antimony	0.52 J	0.50 J	0.52 J	5	--	--	31	82	--
Arsenic	8.2	8.9	8.7	11.3	13	--	13	61	--
Barium	67	52	61	1,500	--	--	5,500	14,000	--
Beryllium	0.85	0.74	0.81	22	--	--	160	410	--
Boron	9.0	10	8.1	40	--	--	16,000	41,000	--
Cadmium	0.19	0.25	0.20	5.2	--	--	78	200	--
Calcium	28,000	57,000	27,000	--	--	--	--	--	--
Chromium	17	14	16	21	--	--	230	690	--
Cobalt	12	9.4	12	20	--	--	4,700	12,000	--
Copper	21	20	20	2,900	--	--	2,900	8,200	--
Iron	19,000 †m	17,000 †m	18,000 †m	15,000	15,900	--	--	--	--
Lead	59	93	31	107	--	--	400	700	--
Magnesium	18,000	27,000	18,000	325,000	--	--	--	730,000	--
Manganese	340	330	290	630	636	--	1,600	4,100	--
Mercury	0.029	0.028	0.031	0.89	--	--	10	0.1	--
Nickel	26	23	27	100	--	--	1,600	4,100	--
Potassium	2,000	1,900	1,900	--	--	--	--	--	--
Selenium	0.37 J	ND U	0.46 J	1.3	--	--	390	1,000	--
Silver	0.32	0.22 J	0.32	4.4	--	--	390	1,000	--
Sodium	1,200	860	810	--	--	--	--	--	--
Thallium	0.41 J	ND U	ND U	2.6	--	--	6.3	160	--
Vanadium	24	20	25	550	--	--	550	1,400	--
Zinc	66	70	67	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)									
Barium	0.66	0.63	0.49 J	--	--	--	--	--	2
Cadmium	0.0020 J	0.0030 J	ND U	--	--	--	--	--	0.005
Cobalt	0.027	0.027	ND U	--	--	--	--	--	1
Iron	0.95	0.84	ND U	--	--	--	--	--	5
Lead	0.024 L	0.048 L	ND U	--	--	--	--	--	0.0075
Manganese	7.0 L	6.7 L	1.3 L	--	--	--	--	--	0.15
Nickel	0.027	0.033	0.011 J	--	--	--	--	--	0.1
Zinc	0.055 J	0.10 J	ND U	--	--	--	--	--	5
SPLP Metals (mg/L)									
Lead	0.43 L	0.49 L	NA	--	--	--	--	--	0.0075
Manganese	0.89 L	0.68 L	1.4 L	--	--	--	--	--	0.15



ANALYTICAL REPORT

PREPARED FOR

Attn: Dean Tiebot
WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602
Generated 12/8/2022 11:14:09 AM

JOB DESCRIPTION

IDOT - 196-002-WO 13 IL 56

JOB NUMBER

500-225658-1

Eurofins Chicago

Job Notes

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

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Authorization



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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Job ID: 500-225658-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225658-1

Comments

No additional comments.

Receipt

The samples were received on 11/17/2022 2:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.8° C.

GC/MS VOA

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

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-688419 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-688419 was outside the method criteria for the following analyte(s): 2-Methylphenol, 2-Nitroaniline, 3 & 4 Methylphenol, 4-Chloro-3-methylphenol, Bis(2-chloroethoxy)methane, Bis(2-ethylhexyl) phthalate, Butyl benzyl phthalate, Dibenz(a,h)anthracene, Nitrobenzene and N-Nitrosodi-n-propylamine. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-687684 and analytical batch 500-688419 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8270D: Internal standard responses for Perylene-d12 was outside of acceptance limits for the following samples: 1401V3-04-B05 (0-6) (500-225658-2), 1401V3-04-B05 (0-6)Dup (500-225658-3), 1401V3-04-B04 (0-6) (500-225658-4), 1401V3-04-B03 (0-6) (500-225658-5), 1401V3-04-B02 (0-2) (500-225658-6), 1401V3-04-B01 (0-5) (500-225658-7) and 1401V3-04-B01 (5-7) (500-225658-8). The samples were run a second time with concurring results. Results with the highest ISTD recovery have been reported.

Method 8270D: The following samples contained one base surrogate outside acceptance limits: 1401V3-04-B05 (0-6) (500-225658-2), 1401V3-04-B05 (0-6)Dup (500-225658-3), 1401V3-04-B02 (0-2) (500-225658-6), 1401V3-04-B01 (0-5) (500-225658-7) and 1401V3-04-B01 (5-7) (500-225658-8). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

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

Metals

Method 6010B: The laboratory control sample (LCS) for prep batch 987985 recovered outside control limits for the following analytes: B-. This analyte was biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 6020A: The laboratory control sample (LCS) for preparation batch 500-687985 and analytical batch 500-688456 recovered outside control limits for Antimony. The analyte were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method Moisture: I had to homogenize the sample due to a color variation throughout the sample. 1401V3-04-B03 (0-6) (500-225658-5), 1401V3-04-B02 (0-2) (500-225658-6), 1401V3-04-B01 (0-5) (500-225658-7) and 1401V3-04-B01 (5-7) (500-225658-8)

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

General Chemistry

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

Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Job ID: 500-225658-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

Organic Prep

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

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Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B06 (0-6)

Lab Sample ID: 500-225658-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.028		0.022	0.0096	mg/Kg	1	✳	8260B	Total/NA
Acenaphthene	0.019	J	0.039	0.0070	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.014	J	0.039	0.0066	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.065		0.039	0.0053	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.083		0.039	0.0076	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.12		0.039	0.0085	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.040	F1	0.039	0.013	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.040		0.039	0.012	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.077		0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.010	J	0.039	0.0076	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.072		0.039	0.0073	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.018	J	0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.041		0.039	0.010	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.041		0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.095	F1	0.039	0.0078	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.52	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	8.7		0.58	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	61		0.58	0.067	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.81		0.23	0.055	mg/Kg	1	✳	6010B	Total/NA
Boron	8.1		2.9	0.27	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.20	B	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	27000	B	12	2.0	mg/Kg	1	✳	6010B	Total/NA
Chromium	16		0.58	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	12		0.29	0.077	mg/Kg	1	✳	6010B	Total/NA
Copper	20		0.58	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	18000		12	6.1	mg/Kg	1	✳	6010B	Total/NA
Lead	31		0.29	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	18000		5.8	2.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	290		0.58	0.085	mg/Kg	1	✳	6010B	Total/NA
Nickel	27		0.58	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	1900		29	10	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.46	J	0.58	0.34	mg/Kg	1	✳	6010B	Total/NA
Silver	0.32		0.29	0.075	mg/Kg	1	✳	6010B	Total/NA
Sodium	810		58	8.7	mg/Kg	1	✳	6010B	Total/NA
Vanadium	25		0.29	0.069	mg/Kg	1	✳	6010B	Total/NA
Zinc	67		1.2	0.51	mg/Kg	1	✳	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.70	J B *+	1.0	0.050	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.031		0.019	0.0064	mg/Kg	1	✳	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-04-B05 (0-6)

Lab Sample ID: 500-225658-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.025		0.023	0.010	mg/Kg	1	✳	8260B	Total/NA
Acenaphthene	0.049		0.039	0.0070	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.038	J	0.039	0.0051	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.16		0.039	0.0065	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B05 (0-6) (Continued)

Lab Sample ID: 500-225658-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.26		0.039	0.0052	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.21	*3	0.039	0.0076	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.32	*3	0.039	0.0084	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.069	*3	0.039	0.013	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.12	*3	0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.37		0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.022	J *3	0.039	0.0075	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.57		0.039	0.0072	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.098		0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.074	*3	0.039	0.010	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.0097	J	0.079	0.0072	mg/Kg	1	✳	8270D	Total/NA
Naphthalene	0.011	J	0.039	0.0060	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.41		0.039	0.0054	mg/Kg	1	✳	8270D	Total/NA
Pyrene	1.1		0.039	0.0078	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.52	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	8.2		0.59	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	67		0.59	0.067	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.85		0.24	0.055	mg/Kg	1	✳	6010B	Total/NA
Boron	9.0		2.9	0.27	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.19	B	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	28000	B	12	2.0	mg/Kg	1	✳	6010B	Total/NA
Chromium	17		0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	12		0.29	0.077	mg/Kg	1	✳	6010B	Total/NA
Copper	21		0.59	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	19000		12	6.1	mg/Kg	1	✳	6010B	Total/NA
Lead	59		0.29	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	18000		5.9	2.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	340		0.59	0.085	mg/Kg	1	✳	6010B	Total/NA
Nickel	26		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	2000		29	10	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.37	J	0.59	0.35	mg/Kg	1	✳	6010B	Total/NA
Silver	0.32		0.29	0.076	mg/Kg	1	✳	6010B	Total/NA
Sodium	1200		59	8.7	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.41	J	0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Vanadium	24		0.29	0.069	mg/Kg	1	✳	6010B	Total/NA
Zinc	66		1.2	0.52	mg/Kg	1	✳	6010B	Total/NA
Barium	0.66		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.73	J B **	1.0	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.027		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.95		0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.024		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	7.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.027		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.055	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.43		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.89		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.018	0.0060	mg/Kg	1	✳	7471B	Total/NA
pH	7.3		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B05 (0-6)Dup

Lab Sample ID: 500-225658-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.025		0.019	0.0081	mg/Kg	1	✳	8260B	Total/NA
2-Butanone (MEK)	0.0075		0.0046	0.0021	mg/Kg	1	✳	8260B	Total/NA
Acenaphthene	0.013	J	0.038	0.0068	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.0074	J	0.038	0.0050	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.030	J	0.038	0.0063	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.12		0.038	0.0051	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.14	*3	0.038	0.0073	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.21	*3	0.038	0.0082	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.061	*3	0.038	0.012	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.079	*3	0.038	0.011	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.17		0.038	0.010	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.016	J *3	0.038	0.0073	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.23		0.038	0.0070	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.013	J	0.038	0.0053	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.062	*3	0.038	0.0098	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.011	J	0.077	0.0070	mg/Kg	1	✳	8270D	Total/NA
Naphthalene	0.0086	J	0.038	0.0058	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.11		0.038	0.0053	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.37		0.038	0.0075	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.50	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	8.9		0.55	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	52		0.55	0.063	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.74		0.22	0.052	mg/Kg	1	✳	6010B	Total/NA
Boron	10		2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.25	B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	57000	B	55	9.4	mg/Kg	5	✳	6010B	Total/NA
Chromium	14		0.55	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	9.4		0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Copper	20		0.55	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	17000		11	5.8	mg/Kg	1	✳	6010B	Total/NA
Lead	93		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	27000		5.5	2.8	mg/Kg	1	✳	6010B	Total/NA
Manganese	330		0.55	0.080	mg/Kg	1	✳	6010B	Total/NA
Nickel	23		0.55	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	1900		28	9.8	mg/Kg	1	✳	6010B	Total/NA
Silver	0.22	J	0.28	0.072	mg/Kg	1	✳	6010B	Total/NA
Sodium	860		55	8.2	mg/Kg	1	✳	6010B	Total/NA
Vanadium	20		0.28	0.065	mg/Kg	1	✳	6010B	Total/NA
Zinc	70		5.5	2.4	mg/Kg	5	✳	6010B	Total/NA
Barium	0.63		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.74	J B **	1.0	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0030	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.027		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.84		0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.048		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	6.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.033		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.10	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.49		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.68		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.028		0.019	0.0062	mg/Kg	1	✳	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B05 (0-6)Dup (Continued)

Lab Sample ID: 500-225658-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	7.2		0.2	0.2	SU	1		9045D	Total/NA

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This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B03 (0-6)

Lab Sample ID: 500-225658-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.11		0.029	0.012	mg/Kg	1	✳		8260B	Total/NA
2-Butanone (MEK)	0.032		0.0072	0.0032	mg/Kg	1	✳		8260B	Total/NA
Benzo[b]fluoranthene	0.013	J *3	0.042	0.0092	mg/Kg	1	✳		8270D	Total/NA
Fluoranthene	0.0093	J	0.042	0.0079	mg/Kg	1	✳		8270D	Total/NA
Phenanthrene	0.0066	J	0.042	0.0059	mg/Kg	1	✳		8270D	Total/NA
Pyrene	0.016	J	0.042	0.0085	mg/Kg	1	✳		8270D	Total/NA
Antimony	0.39	J	1.3	0.24	mg/Kg	1	✳		6010B	Total/NA
Arsenic	6.6		0.63	0.22	mg/Kg	1	✳		6010B	Total/NA
Barium	120		0.63	0.072	mg/Kg	1	✳		6010B	Total/NA
Beryllium	0.78		0.25	0.059	mg/Kg	1	✳		6010B	Total/NA
Boron	4.2		3.1	0.29	mg/Kg	1	✳		6010B	Total/NA
Cadmium	0.11	J B	0.13	0.023	mg/Kg	1	✳		6010B	Total/NA
Calcium	3600	B	13	2.1	mg/Kg	1	✳		6010B	Total/NA
Chromium	16		0.63	0.31	mg/Kg	1	✳		6010B	Total/NA
Cobalt	9.6		0.31	0.082	mg/Kg	1	✳		6010B	Total/NA
Copper	13		0.63	0.18	mg/Kg	1	✳		6010B	Total/NA
Iron	17000		13	6.5	mg/Kg	1	✳		6010B	Total/NA
Lead	25		0.31	0.15	mg/Kg	1	✳		6010B	Total/NA
Magnesium	2900		6.3	3.1	mg/Kg	1	✳		6010B	Total/NA
Manganese	320		0.63	0.091	mg/Kg	1	✳		6010B	Total/NA
Nickel	17		0.63	0.18	mg/Kg	1	✳		6010B	Total/NA
Potassium	980		31	11	mg/Kg	1	✳		6010B	Total/NA
Silver	0.34		0.31	0.081	mg/Kg	1	✳		6010B	Total/NA
Sodium	2300		63	9.3	mg/Kg	1	✳		6010B	Total/NA
Vanadium	31		0.31	0.074	mg/Kg	1	✳		6010B	Total/NA
Zinc	42		1.3	0.55	mg/Kg	1	✳		6010B	Total/NA
Barium	0.52		0.50	0.050	mg/L	1			6010B	TCLP
Boron	0.71	J B *+	1.0	0.050	mg/L	1			6010B	TCLP
Cobalt	0.043		0.025	0.010	mg/L	1			6010B	TCLP
Iron	0.83		0.40	0.20	mg/L	1			6010B	TCLP
Manganese	8.5		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.018	J	0.025	0.010	mg/L	1			6010B	TCLP
Zinc	0.023	J	0.50	0.020	mg/L	1			6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.039		0.021	0.0068	mg/Kg	1	✳		7471B	Total/NA
pH	7.2		0.2	0.2	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

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Client Sample ID: 1401V3-04-B01 (0-5)

Lab Sample ID: 500-225658-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.025	J	0.039	0.0053	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.025	J *3	0.039	0.0076	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B01 (0-5) (Continued)

Lab Sample ID: 500-225658-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.042	*3	0.039	0.0085	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.014	J *3	0.039	0.012	mg/Kg	1	✳	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.10	J	0.20	0.072	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.033	J	0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.037	J	0.039	0.0073	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.015	J *3	0.039	0.010	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.018	J	0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.059		0.039	0.0078	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.54	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	11		0.57	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	70		0.57	0.065	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.76		0.23	0.053	mg/Kg	1	✳	6010B	Total/NA
Boron	7.3		2.9	0.27	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.25	B	0.11	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	25000	B	11	1.9	mg/Kg	1	✳	6010B	Total/NA
Chromium	15		0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	12		0.29	0.075	mg/Kg	1	✳	6010B	Total/NA
Copper	19		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	20000		11	5.9	mg/Kg	1	✳	6010B	Total/NA
Lead	36		0.29	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	16000		5.7	2.8	mg/Kg	1	✳	6010B	Total/NA
Manganese	590		0.57	0.083	mg/Kg	1	✳	6010B	Total/NA
Nickel	24		0.57	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	1600		29	10	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.41	J	0.57	0.34	mg/Kg	1	✳	6010B	Total/NA
Silver	0.28	J	0.29	0.074	mg/Kg	1	✳	6010B	Total/NA
Sodium	1700		57	8.5	mg/Kg	1	✳	6010B	Total/NA
Vanadium	24		0.29	0.068	mg/Kg	1	✳	6010B	Total/NA
Zinc	62		1.1	0.50	mg/Kg	1	✳	6010B	Total/NA
Barium	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.70	J B *+	1.0	0.050	mg/L	1		6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.033		0.018	0.0062	mg/Kg	1	✳	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-04-B01 (5-7)

Lab Sample ID: 500-225658-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.031	J	0.041	0.0055	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.032	J *3	0.041	0.0079	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.055	*3	0.041	0.0088	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.016	J *3	0.041	0.013	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.026	J *3	0.041	0.012	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.040	J	0.041	0.011	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.061		0.041	0.0076	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.018	J *3	0.041	0.011	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.035	J	0.041	0.0057	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.090		0.041	0.0081	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.63	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	11		0.60	0.20	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Euofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B01 (5-7) (Continued)

Lab Sample ID: 500-225658-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	88		0.60	0.068	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.75		0.24	0.056	mg/Kg	1	✳	6010B	Total/NA
Boron	4.9		3.0	0.28	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.19	B	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	19000	B	12	2.0	mg/Kg	1	✳	6010B	Total/NA
Chromium	16		0.60	0.30	mg/Kg	1	✳	6010B	Total/NA
Cobalt	12		0.30	0.078	mg/Kg	1	✳	6010B	Total/NA
Copper	20		0.60	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	21000		12	6.2	mg/Kg	1	✳	6010B	Total/NA
Lead	37		0.30	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	13000		6.0	3.0	mg/Kg	1	✳	6010B	Total/NA
Manganese	440		0.60	0.087	mg/Kg	1	✳	6010B	Total/NA
Nickel	21		0.60	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	1200		30	11	mg/Kg	1	✳	6010B	Total/NA
Silver	0.33		0.30	0.077	mg/Kg	1	✳	6010B	Total/NA
Sodium	1800		60	8.8	mg/Kg	1	✳	6010B	Total/NA
Vanadium	28		0.30	0.070	mg/Kg	1	✳	6010B	Total/NA
Zinc	61		1.2	0.52	mg/Kg	1	✳	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.69	J B **	1.0	0.050	mg/L	1		6010B	TCLP
Manganese	0.81		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.046		0.019	0.0064	mg/Kg	1	✳	7471B	Total/NA
pH	7.1		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010B	Metals (ICP)	SW846	EET CHI
6010B	SPLP Metals	SW846	EET CHI
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225658-1	1401V3-04-B06 (0-6)	Solid	11/17/22 10:10	11/17/22 14:30
500-225658-2	1401V3-04-B05 (0-6)	Solid	11/17/22 10:25	11/17/22 14:30
500-225658-3	1401V3-04-B05 (0-6)Dup	Solid	11/17/22 10:27	11/17/22 14:30
500-225658-5	1401V3-04-B03 (0-6)	Solid	11/17/22 11:20	11/17/22 14:30
500-225658-7	1401V3-04-B01 (0-5)	Solid	11/17/22 11:40	11/17/22 14:30
500-225658-8	1401V3-04-B01 (5-7)	Solid	11/17/22 11:45	11/17/22 14:30

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B06 (0-6)

Lab Sample ID: 500-225658-1

Date Collected: 11/17/22 10:10

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.028		0.022	0.0096	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
Benzene	<0.0022		0.0022	0.00056	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
Bromodichloromethane	<0.0022		0.0022	0.00045	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
Bromoform	<0.0022		0.0022	0.00065	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
Bromomethane	<0.0055		0.0055	0.0021	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
2-Butanone (MEK)	<0.0055		0.0055	0.0025	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
Carbon disulfide	<0.0055		0.0055	0.0011	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
Carbon tetrachloride	<0.0022		0.0022	0.00064	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
Chlorobenzene	<0.0022		0.0022	0.00082	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
Chloroethane	<0.0055		0.0055	0.0016	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
Chloroform	<0.0022		0.0022	0.00077	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
Chloromethane	<0.0055		0.0055	0.0022	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00062	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00067	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
Dibromochloromethane	<0.0022		0.0022	0.00072	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
1,1-Dichloroethane	<0.0022		0.0022	0.00076	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
1,2-Dichloroethane	<0.0055		0.0055	0.0017	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
1,1-Dichloroethene	<0.0022		0.0022	0.00076	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
1,2-Dichloropropane	<0.0022		0.0022	0.00057	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
1,3-Dichloropropane, Total	<0.0022		0.0022	0.00078	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
Ethylbenzene	<0.0022		0.0022	0.0011	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
2-Hexanone	<0.0055		0.0055	0.0017	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
Methylene Chloride	<0.0055		0.0055	0.0022	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0016	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00065	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
Styrene	<0.0022		0.0022	0.00067	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.00071	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
Tetrachloroethene	<0.0022		0.0022	0.00075	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
Toluene	<0.0022		0.0022	0.00056	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00098	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.00078	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
1,1,1-Trichloroethane	<0.0022		0.0022	0.00074	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00095	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
Trichloroethene	<0.0022		0.0022	0.00075	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
Vinyl acetate	<0.0055		0.0055	0.0019	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
Vinyl chloride	<0.0022		0.0022	0.00098	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1
Xylenes, Total	<0.0044		0.0044	0.00071	mg/Kg	☼	11/18/22 16:51	11/26/22 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		75 - 131	11/18/22 16:51	11/26/22 17:20	1
Dibromofluoromethane	89		75 - 126	11/18/22 16:51	11/26/22 17:20	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	11/18/22 16:51	11/26/22 17:20	1
Toluene-d8 (Surr)	88		75 - 124	11/18/22 16:51	11/26/22 17:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.019	J	0.039	0.0070	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Anthracene	0.014	J	0.039	0.0066	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Benzo[a]anthracene	0.065		0.039	0.0053	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B06 (0-6)

Lab Sample ID: 500-225658-1

Date Collected: 11/17/22 10:10

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.083		0.039	0.0076	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Benzo[b]fluoranthene	0.12		0.039	0.0085	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Benzo[g,h,i]perylene	0.040	F1	0.039	0.013	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Benzo[k]fluoranthene	0.040		0.039	0.012	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Bis(2-chloroethoxy)methane	<0.20	F1	0.20	0.040	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Bis(2-chloroethyl)ether	<0.20	F1	0.20	0.059	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Bis(2-ethylhexyl) phthalate	<0.20	F1	0.20	0.072	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Butyl benzyl phthalate	<0.20	F1	0.20	0.075	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
4-Chloro-3-methylphenol	<0.39	F1	0.39	0.13	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
2-Chlorophenol	<0.20	F1	0.20	0.067	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Chrysene	0.077		0.039	0.011	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Dibenz(a,h)anthracene	0.010	J	0.039	0.0076	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
2,4-Dimethylphenol	<0.39	F1	0.39	0.15	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Fluoranthene	0.072		0.039	0.0073	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Fluorene	0.018	J	0.039	0.0055	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Hexachlorocyclopentadiene	<0.79	F1	0.79	0.23	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Indeno[1,2,3-cd]pyrene	0.041		0.039	0.010	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Isophorone	<0.20	F1	0.20	0.044	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
2-Methylphenol	<0.20	F1	0.20	0.063	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
3 & 4 Methylphenol	<0.20	F1	0.20	0.065	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
2-Nitroaniline	<0.20	F1	0.20	0.053	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Nitrobenzene	<0.039	F1	0.039	0.0098	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B06 (0-6)

Lab Sample ID: 500-225658-1

Date Collected: 11/17/22 10:10

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
N-Nitrosodi-n-propylamine	<0.079	F1	0.079	0.048	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
N-Nitrosodiphenylamine	<0.20	F1	0.20	0.046	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Phenanthrene	0.041		0.039	0.0055	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Pyrene	0.095	F1	0.039	0.0078	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	12/01/22 08:54	12/06/22 12:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	75		43 - 145				12/01/22 08:54	12/06/22 12:03	1
2-Fluorophenol (Surr)	90		31 - 166				12/01/22 08:54	12/06/22 12:03	1
Nitrobenzene-d5 (Surr)	81		37 - 147				12/01/22 08:54	12/06/22 12:03	1
Phenol-d5 (Surr)	87		30 - 153				12/01/22 08:54	12/06/22 12:03	1
Terphenyl-d14 (Surr)	130		42 - 157				12/01/22 08:54	12/06/22 12:03	1
2,4,6-Tribromophenol (Surr)	76		31 - 143				12/01/22 08:54	12/06/22 12:03	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.52	J	1.2	0.23	mg/Kg	☼	12/01/22 16:18	12/06/22 13:52	1
Arsenic	8.7		0.58	0.20	mg/Kg	☼	12/01/22 16:18	12/06/22 13:52	1
Barium	61		0.58	0.067	mg/Kg	☼	12/01/22 16:18	12/06/22 13:52	1
Beryllium	0.81		0.23	0.055	mg/Kg	☼	12/01/22 16:18	12/06/22 13:52	1
Boron	8.1		2.9	0.27	mg/Kg	☼	12/01/22 16:18	12/06/22 13:52	1
Cadmium	0.20	B	0.12	0.021	mg/Kg	☼	12/01/22 16:18	12/06/22 13:52	1
Calcium	27000	B	12	2.0	mg/Kg	☼	12/01/22 16:18	12/06/22 13:52	1
Chromium	16		0.58	0.29	mg/Kg	☼	12/01/22 16:18	12/06/22 13:52	1
Cobalt	12		0.29	0.077	mg/Kg	☼	12/01/22 16:18	12/06/22 13:52	1
Copper	20		0.58	0.16	mg/Kg	☼	12/01/22 16:18	12/06/22 13:52	1
Iron	18000		12	6.1	mg/Kg	☼	12/01/22 16:18	12/06/22 13:52	1
Lead	31		0.29	0.14	mg/Kg	☼	12/01/22 16:18	12/06/22 13:52	1
Magnesium	18000		5.8	2.9	mg/Kg	☼	12/01/22 16:18	12/06/22 13:52	1
Manganese	290		0.58	0.085	mg/Kg	☼	12/01/22 16:18	12/06/22 13:52	1
Nickel	27		0.58	0.17	mg/Kg	☼	12/01/22 16:18	12/06/22 13:52	1
Potassium	1900		29	10	mg/Kg	☼	12/01/22 16:18	12/06/22 13:52	1
Selenium	0.46	J	0.58	0.34	mg/Kg	☼	12/01/22 16:18	12/06/22 13:52	1
Silver	0.32		0.29	0.075	mg/Kg	☼	12/01/22 16:18	12/06/22 13:52	1
Sodium	810		58	8.7	mg/Kg	☼	12/01/22 16:18	12/06/22 13:52	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	12/01/22 16:18	12/06/22 13:52	1
Vanadium	25		0.29	0.069	mg/Kg	☼	12/01/22 16:18	12/06/22 13:52	1
Zinc	67		1.2	0.51	mg/Kg	☼	12/01/22 16:18	12/07/22 00:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.49	J	0.50	0.050	mg/L		12/02/22 15:04	12/05/22 15:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/02/22 15:04	12/05/22 15:32	1
Boron	0.70	J B *+	1.0	0.050	mg/L		12/02/22 15:04	12/05/22 15:32	1

Eurofins Chicago

Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B06 (0-6)

Lab Sample ID: 500-225658-1

Date Collected: 11/17/22 10:10

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/02/22 15:04	12/05/22 15:32	1
Chromium	<0.025		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 15:32	1
Cobalt	<0.025		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 15:32	1
Iron	<0.40		0.40	0.20	mg/L		12/02/22 15:04	12/05/22 15:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/02/22 15:04	12/05/22 15:32	1
Manganese	1.3		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 15:32	1
Nickel	0.011	J	0.025	0.010	mg/L		12/02/22 15:04	12/05/22 15:32	1
Selenium	<0.050		0.050	0.020	mg/L		12/02/22 15:04	12/05/22 15:32	1
Silver	<0.025		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 15:32	1
Zinc	<0.50		0.50	0.020	mg/L		12/02/22 15:04	12/05/22 15:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.4		0.025	0.010	mg/L		12/02/22 15:12	12/07/22 21:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	*+	0.0060	0.0060	mg/L		12/02/22 15:04	12/05/22 15:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/02/22 15:04	12/05/22 15:02	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 16:00	12/05/22 12:15	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.019	0.0064	mg/Kg	☼	12/05/22 15:45	12/06/22 07:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.9		0.2	0.2	SU			11/23/22 16:03	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B05 (0-6)

Lab Sample ID: 500-225658-2

Date Collected: 11/17/22 10:25

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.025		0.023	0.010	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
Benzene	<0.0023		0.0023	0.00059	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
Bromodichloromethane	<0.0023		0.0023	0.00047	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
Bromoform	<0.0023		0.0023	0.00068	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
Bromomethane	<0.0058		0.0058	0.0022	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
2-Butanone (MEK)	<0.0058		0.0058	0.0026	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
Carbon disulfide	<0.0058		0.0058	0.0012	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
Carbon tetrachloride	<0.0023		0.0023	0.00067	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
Chlorobenzene	<0.0023		0.0023	0.00086	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
Chloroethane	<0.0058		0.0058	0.0017	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
Chloroform	<0.0023		0.0023	0.00080	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
Chloromethane	<0.0058		0.0058	0.0023	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
cis-1,2-Dichloroethene	<0.0023		0.0023	0.00065	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
cis-1,3-Dichloropropene	<0.0023		0.0023	0.00070	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
Dibromochloromethane	<0.0023		0.0023	0.00076	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
1,1-Dichloroethane	<0.0023		0.0023	0.00079	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
1,2-Dichloroethane	<0.0058		0.0058	0.0018	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
1,1-Dichloroethene	<0.0023		0.0023	0.00080	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
1,2-Dichloropropane	<0.0023		0.0023	0.00060	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
1,3-Dichloropropene, Total	<0.0023		0.0023	0.00081	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
Ethylbenzene	<0.0023		0.0023	0.0011	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
2-Hexanone	<0.0058		0.0058	0.0018	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
Methylene Chloride	<0.0058		0.0058	0.0023	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
4-Methyl-2-pentanone (MIBK)	<0.0058		0.0058	0.0017	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
Methyl tert-butyl ether	<0.0023		0.0023	0.00068	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
Styrene	<0.0023		0.0023	0.00070	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
1,1,2,2-Tetrachloroethane	<0.0023		0.0023	0.00074	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
Tetrachloroethene	<0.0023		0.0023	0.00079	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
Toluene	<0.0023		0.0023	0.00059	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
trans-1,2-Dichloroethene	<0.0023		0.0023	0.0010	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
trans-1,3-Dichloropropene	<0.0023		0.0023	0.00081	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
1,1,1-Trichloroethane	<0.0023		0.0023	0.00078	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
1,1,2-Trichloroethane	<0.0023		0.0023	0.00099	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
Trichloroethene	<0.0023		0.0023	0.00078	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
Vinyl acetate	<0.0058		0.0058	0.0020	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
Vinyl chloride	<0.0023		0.0023	0.0010	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1
Xylenes, Total	<0.0046		0.0046	0.00074	mg/Kg	☼	11/18/22 16:51	11/26/22 17:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		75 - 131	11/18/22 16:51	11/26/22 17:45	1
Dibromofluoromethane	88		75 - 126	11/18/22 16:51	11/26/22 17:45	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	11/18/22 16:51	11/26/22 17:45	1
Toluene-d8 (Surr)	86		75 - 124	11/18/22 16:51	11/26/22 17:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.049		0.039	0.0070	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Acenaphthylene	0.038	J	0.039	0.0051	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Anthracene	0.16		0.039	0.0065	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Benzo[a]anthracene	0.26		0.039	0.0052	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B05 (0-6)

Lab Sample ID: 500-225658-2

Date Collected: 11/17/22 10:25

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.21	*3	0.039	0.0076	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Benzo[b]fluoranthene	0.32	*3	0.039	0.0084	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Benzo[g,h,i]perylene	0.069	*3	0.039	0.013	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Benzo[k]fluoranthene	0.12	*3	0.039	0.011	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Chrysene	0.37		0.039	0.011	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Dibenz(a,h)anthracene	0.022	J *3	0.039	0.0075	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Fluoranthene	0.57		0.039	0.0072	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Fluorene	0.098		0.039	0.0055	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Indeno[1,2,3-cd]pyrene	0.074	*3	0.039	0.010	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
2-Methylnaphthalene	0.0097	J	0.079	0.0072	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Naphthalene	0.011	J	0.039	0.0060	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B05 (0-6)

Lab Sample ID: 500-225658-2

Date Collected: 11/17/22 10:25

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Phenanthrene	0.41		0.039	0.0054	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Pyrene	1.1		0.039	0.0078	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	12/01/22 08:54	12/06/22 13:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	84		43 - 145				12/01/22 08:54	12/06/22 13:07	1
2-Fluorophenol (Surr)	94		31 - 166				12/01/22 08:54	12/06/22 13:07	1
Nitrobenzene-d5 (Surr)	87		37 - 147				12/01/22 08:54	12/06/22 13:07	1
Phenol-d5 (Surr)	101		30 - 153				12/01/22 08:54	12/06/22 13:07	1
Terphenyl-d14 (Surr)	172	S1+	42 - 157				12/01/22 08:54	12/06/22 13:07	1
2,4,6-Tribromophenol (Surr)	90		31 - 143				12/01/22 08:54	12/06/22 13:07	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.52	J	1.2	0.23	mg/Kg	☼	12/01/22 16:18	12/06/22 13:55	1
Arsenic	8.2		0.59	0.20	mg/Kg	☼	12/01/22 16:18	12/06/22 13:55	1
Barium	67		0.59	0.067	mg/Kg	☼	12/01/22 16:18	12/06/22 13:55	1
Beryllium	0.85		0.24	0.055	mg/Kg	☼	12/01/22 16:18	12/06/22 13:55	1
Boron	9.0		2.9	0.27	mg/Kg	☼	12/01/22 16:18	12/06/22 13:55	1
Cadmium	0.19	B	0.12	0.021	mg/Kg	☼	12/01/22 16:18	12/06/22 13:55	1
Calcium	28000	B	12	2.0	mg/Kg	☼	12/01/22 16:18	12/06/22 13:55	1
Chromium	17		0.59	0.29	mg/Kg	☼	12/01/22 16:18	12/06/22 13:55	1
Cobalt	12		0.29	0.077	mg/Kg	☼	12/01/22 16:18	12/06/22 13:55	1
Copper	21		0.59	0.16	mg/Kg	☼	12/01/22 16:18	12/06/22 13:55	1
Iron	19000		12	6.1	mg/Kg	☼	12/01/22 16:18	12/06/22 13:55	1
Lead	59		0.29	0.14	mg/Kg	☼	12/01/22 16:18	12/06/22 13:55	1
Magnesium	18000		5.9	2.9	mg/Kg	☼	12/01/22 16:18	12/06/22 13:55	1
Manganese	340		0.59	0.085	mg/Kg	☼	12/01/22 16:18	12/06/22 13:55	1
Nickel	26		0.59	0.17	mg/Kg	☼	12/01/22 16:18	12/06/22 13:55	1
Potassium	2000		29	10	mg/Kg	☼	12/01/22 16:18	12/06/22 13:55	1
Selenium	0.37	J	0.59	0.35	mg/Kg	☼	12/01/22 16:18	12/06/22 13:55	1
Silver	0.32		0.29	0.076	mg/Kg	☼	12/01/22 16:18	12/06/22 13:55	1
Sodium	1200		59	8.7	mg/Kg	☼	12/01/22 16:18	12/06/22 13:55	1
Thallium	0.41	J	0.59	0.29	mg/Kg	☼	12/01/22 16:18	12/06/22 13:55	1
Vanadium	24		0.29	0.069	mg/Kg	☼	12/01/22 16:18	12/06/22 13:55	1
Zinc	66		1.2	0.52	mg/Kg	☼	12/01/22 16:18	12/07/22 01:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.66		0.50	0.050	mg/L		12/02/22 15:04	12/05/22 15:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/02/22 15:04	12/05/22 15:35	1
Boron	0.73	J B *+	1.0	0.050	mg/L		12/02/22 15:04	12/05/22 15:35	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B05 (0-6)

Lab Sample ID: 500-225658-2

Date Collected: 11/17/22 10:25

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0020	J	0.0050	0.0020	mg/L		12/02/22 15:04	12/05/22 15:35	1
Chromium	<0.025		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 15:35	1
Cobalt	0.027		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 15:35	1
Iron	0.95		0.40	0.20	mg/L		12/02/22 15:04	12/05/22 15:35	1
Lead	0.024		0.0075	0.0075	mg/L		12/02/22 15:04	12/05/22 15:35	1
Manganese	7.0		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 15:35	1
Nickel	0.027		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 15:35	1
Selenium	<0.050		0.050	0.020	mg/L		12/02/22 15:04	12/05/22 15:35	1
Silver	<0.025		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 15:35	1
Zinc	0.055	J	0.50	0.020	mg/L		12/02/22 15:04	12/05/22 15:35	1

Method: SW846 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.43		0.0075	0.0075	mg/L		12/02/22 15:12	12/07/22 21:20	1
Manganese	0.89		0.025	0.010	mg/L		12/02/22 15:12	12/07/22 21:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	*+	0.0060	0.0060	mg/L		12/02/22 15:04	12/05/22 15:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/02/22 15:04	12/05/22 15:04	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 16:00	12/05/22 12:17	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.018	0.0060	mg/Kg	☼	12/05/22 15:45	12/06/22 07:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.3		0.2	0.2	SU			11/23/22 16:06	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B05 (0-6)Dup

Lab Sample ID: 500-225658-3

Date Collected: 11/17/22 10:27

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.025		0.019	0.0081	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
Benzene	<0.0019		0.0019	0.00047	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
Bromomethane	<0.0046		0.0046	0.0018	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
2-Butanone (MEK)	0.0075		0.0046	0.0021	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
Carbon disulfide	<0.0046		0.0046	0.00097	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
Chloroform	<0.0019		0.0019	0.00064	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00065	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00059	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
Tetrachloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00082	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
Vinyl chloride	<0.0019		0.0019	0.00082	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	11/18/22 16:51	11/26/22 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		75 - 131	11/18/22 16:51	11/26/22 18:10	1
Dibromofluoromethane	92		75 - 126	11/18/22 16:51	11/26/22 18:10	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	11/18/22 16:51	11/26/22 18:10	1
Toluene-d8 (Surr)	87		75 - 124	11/18/22 16:51	11/26/22 18:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.013	J	0.038	0.0068	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Acenaphthylene	0.0074	J	0.038	0.0050	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Anthracene	0.030	J	0.038	0.0063	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Benzo[a]anthracene	0.12		0.038	0.0051	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B05 (0-6)Dup

Lab Sample ID: 500-225658-3

Date Collected: 11/17/22 10:27

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.14	*3	0.038	0.0073	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Benzo[b]fluoranthene	0.21	*3	0.038	0.0082	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Benzo[g,h,i]perylene	0.061	*3	0.038	0.012	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Benzo[k]fluoranthene	0.079	*3	0.038	0.011	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Chrysene	0.17		0.038	0.010	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Dibenz(a,h)anthracene	0.016	J *3	0.038	0.0073	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Fluoranthene	0.23		0.038	0.0070	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Fluorene	0.013	J	0.038	0.0053	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Indeno[1,2,3-cd]pyrene	0.062	*3	0.038	0.0098	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
2-Methylnaphthalene	0.011	J	0.077	0.0070	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Naphthalene	0.0086	J	0.038	0.0058	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B05 (0-6)Dup

Lab Sample ID: 500-225658-3

Date Collected: 11/17/22 10:27

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Phenanthrene	0.11		0.038	0.0053	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Pyrene	0.37		0.038	0.0075	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/01/22 08:54	12/06/22 13:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	89		43 - 145				12/01/22 08:54	12/06/22 13:28	1
2-Fluorophenol (Surr)	97		31 - 166				12/01/22 08:54	12/06/22 13:28	1
Nitrobenzene-d5 (Surr)	86		37 - 147				12/01/22 08:54	12/06/22 13:28	1
Phenol-d5 (Surr)	97		30 - 153				12/01/22 08:54	12/06/22 13:28	1
Terphenyl-d14 (Surr)	177	S1+	42 - 157				12/01/22 08:54	12/06/22 13:28	1
2,4,6-Tribromophenol (Surr)	84		31 - 143				12/01/22 08:54	12/06/22 13:28	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J	1.1	0.22	mg/Kg	☼	12/01/22 16:18	12/06/22 13:58	1
Arsenic	8.9		0.55	0.19	mg/Kg	☼	12/01/22 16:18	12/06/22 13:58	1
Barium	52		0.55	0.063	mg/Kg	☼	12/01/22 16:18	12/06/22 13:58	1
Beryllium	0.74		0.22	0.052	mg/Kg	☼	12/01/22 16:18	12/06/22 13:58	1
Boron	10		2.8	0.26	mg/Kg	☼	12/01/22 16:18	12/06/22 13:58	1
Cadmium	0.25	B	0.11	0.020	mg/Kg	☼	12/01/22 16:18	12/06/22 13:58	1
Calcium	57000	B	55	9.4	mg/Kg	☼	12/01/22 16:18	12/07/22 01:03	5
Chromium	14		0.55	0.27	mg/Kg	☼	12/01/22 16:18	12/06/22 13:58	1
Cobalt	9.4		0.28	0.073	mg/Kg	☼	12/01/22 16:18	12/06/22 13:58	1
Copper	20		0.55	0.16	mg/Kg	☼	12/01/22 16:18	12/06/22 13:58	1
Iron	17000		11	5.8	mg/Kg	☼	12/01/22 16:18	12/06/22 13:58	1
Lead	93		0.28	0.13	mg/Kg	☼	12/01/22 16:18	12/06/22 13:58	1
Magnesium	27000		5.5	2.8	mg/Kg	☼	12/01/22 16:18	12/06/22 13:58	1
Manganese	330		0.55	0.080	mg/Kg	☼	12/01/22 16:18	12/06/22 13:58	1
Nickel	23		0.55	0.16	mg/Kg	☼	12/01/22 16:18	12/06/22 13:58	1
Potassium	1900		28	9.8	mg/Kg	☼	12/01/22 16:18	12/06/22 13:58	1
Selenium	<0.55		0.55	0.33	mg/Kg	☼	12/01/22 16:18	12/06/22 13:58	1
Silver	0.22	J	0.28	0.072	mg/Kg	☼	12/01/22 16:18	12/06/22 13:58	1
Sodium	860		55	8.2	mg/Kg	☼	12/01/22 16:18	12/06/22 13:58	1
Thallium	<0.55		0.55	0.28	mg/Kg	☼	12/01/22 16:18	12/06/22 13:58	1
Vanadium	20		0.28	0.065	mg/Kg	☼	12/01/22 16:18	12/06/22 13:58	1
Zinc	70		5.5	2.4	mg/Kg	☼	12/01/22 16:18	12/07/22 01:03	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.63		0.50	0.050	mg/L		12/02/22 15:04	12/05/22 15:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/02/22 15:04	12/05/22 15:44	1
Boron	0.74	J B *+	1.0	0.050	mg/L		12/02/22 15:04	12/05/22 15:44	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B05 (0-6)Dup

Lab Sample ID: 500-225658-3

Date Collected: 11/17/22 10:27

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0030	J	0.0050	0.0020	mg/L		12/02/22 15:04	12/05/22 15:44	1
Chromium	<0.025		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 15:44	1
Cobalt	0.027		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 15:44	1
Iron	0.84		0.40	0.20	mg/L		12/02/22 15:04	12/05/22 15:44	1
Lead	0.048		0.0075	0.0075	mg/L		12/02/22 15:04	12/05/22 15:44	1
Manganese	6.7		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 15:44	1
Nickel	0.033		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 15:44	1
Selenium	<0.050		0.050	0.020	mg/L		12/02/22 15:04	12/05/22 15:44	1
Silver	<0.025		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 15:44	1
Zinc	0.10	J	0.50	0.020	mg/L		12/02/22 15:04	12/05/22 15:44	1

Method: SW846 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.49		0.0075	0.0075	mg/L		12/02/22 15:12	12/07/22 21:23	1
Manganese	0.68		0.025	0.010	mg/L		12/02/22 15:12	12/07/22 21:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	*+	0.0060	0.0060	mg/L		12/02/22 15:04	12/05/22 15:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/02/22 15:04	12/05/22 15:06	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 16:00	12/05/22 12:19	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.019	0.0062	mg/Kg	☼	12/05/22 15:45	12/06/22 07:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.2		0.2	0.2	SU			11/23/22 16:11	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B03 (0-6)

Lab Sample ID: 500-225658-5

Date Collected: 11/17/22 11:20

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.11		0.029	0.012	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
Benzene	<0.0029		0.0029	0.00073	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
Bromodichloromethane	<0.0029		0.0029	0.00058	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
Bromoform	<0.0029		0.0029	0.00084	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
Bromomethane	<0.0072		0.0072	0.0027	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
2-Butanone (MEK)	0.032		0.0072	0.0032	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
Carbon disulfide	<0.0072		0.0072	0.0015	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
Carbon tetrachloride	<0.0029		0.0029	0.00083	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
Chlorobenzene	<0.0029		0.0029	0.0011	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
Chloroethane	<0.0072		0.0072	0.0021	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
Chloroform	<0.0029		0.0029	0.00099	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
Chloromethane	<0.0072		0.0072	0.0029	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
cis-1,2-Dichloroethene	<0.0029		0.0029	0.00080	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
cis-1,3-Dichloropropene	<0.0029		0.0029	0.00086	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
Dibromochloromethane	<0.0029		0.0029	0.00094	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
1,1-Dichloroethane	<0.0029		0.0029	0.00098	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
1,2-Dichloroethane	<0.0072		0.0072	0.0022	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
1,1-Dichloroethene	<0.0029		0.0029	0.00099	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
1,2-Dichloropropane	<0.0029		0.0029	0.00074	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
1,3-Dichloropropene, Total	<0.0029		0.0029	0.0010	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
Ethylbenzene	<0.0029		0.0029	0.0014	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
2-Hexanone	<0.0072		0.0072	0.0022	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
Methylene Chloride	<0.0072		0.0072	0.0028	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
4-Methyl-2-pentanone (MIBK)	<0.0072		0.0072	0.0021	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
Methyl tert-butyl ether	<0.0029		0.0029	0.00084	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
Styrene	<0.0029		0.0029	0.00087	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
1,1,2,2-Tetrachloroethane	<0.0029		0.0029	0.00092	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
Tetrachloroethene	<0.0029		0.0029	0.00098	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
Toluene	<0.0029		0.0029	0.00072	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
trans-1,2-Dichloroethene	<0.0029		0.0029	0.0013	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
trans-1,3-Dichloropropene	<0.0029		0.0029	0.0010	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
1,1,1-Trichloroethane	<0.0029		0.0029	0.00096	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
1,1,2-Trichloroethane	<0.0029		0.0029	0.0012	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
Trichloroethene	<0.0029		0.0029	0.00097	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
Vinyl acetate	<0.0072		0.0072	0.0025	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
Vinyl chloride	<0.0029		0.0029	0.0013	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1
Xylenes, Total	<0.0057		0.0057	0.00092	mg/Kg	☼	11/18/22 16:51	11/26/22 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 131	11/18/22 16:51	11/26/22 19:01	1
Dibromofluoromethane	92		75 - 126	11/18/22 16:51	11/26/22 19:01	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	11/18/22 16:51	11/26/22 19:01	1
Toluene-d8 (Surr)	86		75 - 124	11/18/22 16:51	11/26/22 19:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.042		0.042	0.0077	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Acenaphthylene	<0.042		0.042	0.0056	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Anthracene	<0.042		0.042	0.0071	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Benzo[a]anthracene	<0.042		0.042	0.0057	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B03 (0-6)

Lab Sample ID: 500-225658-5

Date Collected: 11/17/22 11:20

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.042	*3	0.042	0.0082	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Benzo[b]fluoranthene	0.013	J *3	0.042	0.0092	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Benzo[g,h,i]perylene	<0.042	*3	0.042	0.014	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Benzo[k]fluoranthene	<0.042	*3	0.042	0.013	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.064	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.078	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Butyl benzyl phthalate	<0.21		0.21	0.081	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
4-Chloroaniline	<0.86		0.86	0.20	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
2-Chlorophenol	<0.21		0.21	0.073	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.050	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Chrysene	<0.042		0.042	0.012	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Dibenz(a,h)anthracene	<0.042	*3	0.042	0.0082	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
1,2-Dichlorobenzene	<0.21		0.21	0.051	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
1,3-Dichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
1,4-Dichlorobenzene	<0.21		0.21	0.055	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.060	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Diethyl phthalate	<0.21		0.21	0.072	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Dimethyl phthalate	<0.21		0.21	0.056	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Di-n-butyl phthalate	<0.21		0.21	0.065	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
4,6-Dinitro-2-methylphenol	<0.86		0.86	0.34	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
2,4-Dinitrophenol	<0.86		0.86	0.75	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
2,4-Dinitrotoluene	<0.21		0.21	0.068	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
2,6-Dinitrotoluene	<0.21		0.21	0.084	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Di-n-octyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Fluoranthene	0.0093	J	0.042	0.0079	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Fluorene	<0.042		0.042	0.0060	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Hexachlorobenzene	<0.086		0.086	0.0099	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Hexachlorobutadiene	<0.21		0.21	0.067	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Hexachlorocyclopentadiene	<0.86		0.86	0.24	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Hexachloroethane	<0.21		0.21	0.065	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Indeno[1,2,3-cd]pyrene	<0.042	*3	0.042	0.011	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Isophorone	<0.21		0.21	0.048	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
2-Methylnaphthalene	<0.086		0.086	0.0078	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
3 & 4 Methylphenol	<0.21		0.21	0.071	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Naphthalene	<0.042		0.042	0.0066	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Nitrobenzene	<0.042		0.042	0.011	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B03 (0-6)

Lab Sample ID: 500-225658-5

Date Collected: 11/17/22 11:20

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.86		0.86	0.41	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
N-Nitrosodi-n-propylamine	<0.086		0.086	0.052	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Pentachlorophenol	<0.86		0.86	0.68	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Phenanthrene	0.0066	J	0.042	0.0059	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Phenol	<0.21		0.21	0.095	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Pyrene	0.016	J	0.042	0.0085	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
2,4,5-Trichlorophenol	<0.42		0.42	0.097	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
2,4,6-Trichlorophenol	<0.42		0.42	0.15	mg/Kg	☼	12/01/22 08:54	12/06/22 14:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	90		43 - 145				12/01/22 08:54	12/06/22 14:11	1
2-Fluorophenol (Surr)	98		31 - 166				12/01/22 08:54	12/06/22 14:11	1
Nitrobenzene-d5 (Surr)	102		37 - 147				12/01/22 08:54	12/06/22 14:11	1
Phenol-d5 (Surr)	96		30 - 153				12/01/22 08:54	12/06/22 14:11	1
Terphenyl-d14 (Surr)	148		42 - 157				12/01/22 08:54	12/06/22 14:11	1
2,4,6-Tribromophenol (Surr)	83		31 - 143				12/01/22 08:54	12/06/22 14:11	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.39	J	1.3	0.24	mg/Kg	☼	12/01/22 16:18	12/06/22 14:04	1
Arsenic	6.6		0.63	0.22	mg/Kg	☼	12/01/22 16:18	12/06/22 14:04	1
Barium	120		0.63	0.072	mg/Kg	☼	12/01/22 16:18	12/06/22 14:04	1
Beryllium	0.78		0.25	0.059	mg/Kg	☼	12/01/22 16:18	12/06/22 14:04	1
Boron	4.2		3.1	0.29	mg/Kg	☼	12/01/22 16:18	12/06/22 14:04	1
Cadmium	0.11	J B	0.13	0.023	mg/Kg	☼	12/01/22 16:18	12/06/22 14:04	1
Calcium	3600	B	13	2.1	mg/Kg	☼	12/01/22 16:18	12/06/22 14:04	1
Chromium	16		0.63	0.31	mg/Kg	☼	12/01/22 16:18	12/06/22 14:04	1
Cobalt	9.6		0.31	0.082	mg/Kg	☼	12/01/22 16:18	12/06/22 14:04	1
Copper	13		0.63	0.18	mg/Kg	☼	12/01/22 16:18	12/06/22 14:04	1
Iron	17000		13	6.5	mg/Kg	☼	12/01/22 16:18	12/06/22 14:04	1
Lead	25		0.31	0.15	mg/Kg	☼	12/01/22 16:18	12/06/22 14:04	1
Magnesium	2900		6.3	3.1	mg/Kg	☼	12/01/22 16:18	12/06/22 14:04	1
Manganese	320		0.63	0.091	mg/Kg	☼	12/01/22 16:18	12/06/22 14:04	1
Nickel	17		0.63	0.18	mg/Kg	☼	12/01/22 16:18	12/06/22 14:04	1
Potassium	980		31	11	mg/Kg	☼	12/01/22 16:18	12/06/22 14:04	1
Selenium	<0.63		0.63	0.37	mg/Kg	☼	12/01/22 16:18	12/06/22 14:04	1
Silver	0.34		0.31	0.081	mg/Kg	☼	12/01/22 16:18	12/06/22 14:04	1
Sodium	2300		63	9.3	mg/Kg	☼	12/01/22 16:18	12/06/22 14:04	1
Thallium	<0.63		0.63	0.31	mg/Kg	☼	12/01/22 16:18	12/06/22 14:04	1
Vanadium	31		0.31	0.074	mg/Kg	☼	12/01/22 16:18	12/06/22 14:04	1
Zinc	42		1.3	0.55	mg/Kg	☼	12/01/22 16:18	12/07/22 01:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.52		0.50	0.050	mg/L		12/02/22 15:04	12/05/22 15:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/02/22 15:04	12/05/22 15:51	1
Boron	0.71	J B *+	1.0	0.050	mg/L		12/02/22 15:04	12/05/22 15:51	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B03 (0-6)

Lab Sample ID: 500-225658-5

Date Collected: 11/17/22 11:20

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/02/22 15:04	12/05/22 15:51	1
Chromium	<0.025		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 15:51	1
Cobalt	0.043		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 15:51	1
Iron	0.83		0.40	0.20	mg/L		12/02/22 15:04	12/05/22 15:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/02/22 15:04	12/05/22 15:51	1
Manganese	8.5		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 15:51	1
Nickel	0.018	J	0.025	0.010	mg/L		12/02/22 15:04	12/05/22 15:51	1
Selenium	<0.050		0.050	0.020	mg/L		12/02/22 15:04	12/05/22 15:51	1
Silver	<0.025		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 15:51	1
Zinc	0.023	J	0.50	0.020	mg/L		12/02/22 15:04	12/05/22 15:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.4		0.025	0.010	mg/L		12/02/22 15:12	12/07/22 21:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	*+	0.0060	0.0060	mg/L		12/02/22 15:04	12/05/22 15:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/02/22 15:04	12/05/22 15:10	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 16:00	12/05/22 12:28	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.021	0.0068	mg/Kg	☼	12/05/22 15:45	12/06/22 08:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.2		0.2	0.2	SU			11/23/22 16:16	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B01 (0-5)

Lab Sample ID: 500-225658-7

Date Collected: 11/17/22 11:40

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0088	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
Benzene	<0.0020		0.0020	0.00052	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
Bromoform	<0.0020		0.0020	0.00059	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
2-Butanone (MEK)	<0.0051		0.0051	0.0022	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
Carbon disulfide	<0.0051		0.0051	0.0011	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
Carbon tetrachloride	<0.0020		0.0020	0.00059	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
Chlorobenzene	<0.0020		0.0020	0.00075	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
Chloroethane	<0.0051		0.0051	0.0015	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
Chloroform	<0.0020		0.0020	0.00070	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
Chloromethane	<0.0051		0.0051	0.0020	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00061	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
Dibromochloromethane	<0.0020		0.0020	0.00066	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
1,1-Dichloroethene	<0.0020		0.0020	0.00070	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00071	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
Ethylbenzene	<0.0020		0.0020	0.00097	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
Methylene Chloride	<0.0051		0.0051	0.0020	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0015	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
Styrene	<0.0020		0.0020	0.00061	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00065	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
Tetrachloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00090	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00071	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00087	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
Vinyl acetate	<0.0051		0.0051	0.0018	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1
Xylenes, Total	<0.0040		0.0040	0.00065	mg/Kg	☼	11/18/22 16:51	11/28/22 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		75 - 131	11/18/22 16:51	11/28/22 16:52	1
Dibromofluoromethane	95		75 - 126	11/18/22 16:51	11/28/22 16:52	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	11/18/22 16:51	11/28/22 16:52	1
Toluene-d8 (Surr)	106		75 - 124	11/18/22 16:51	11/28/22 16:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Benzo[a]anthracene	0.025	J	0.039	0.0053	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B01 (0-5)

Lab Sample ID: 500-225658-7

Date Collected: 11/17/22 11:40

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.025	J *3	0.039	0.0076	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Benzo[b]fluoranthene	0.042	*3	0.039	0.0085	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Benzo[g,h,i]perylene	<0.039	*3	0.039	0.013	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Benzo[k]fluoranthene	0.014	J *3	0.039	0.012	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Bis(2-ethylhexyl) phthalate	0.10	J	0.20	0.072	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Chrysene	0.033	J	0.039	0.011	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Dibenz(a,h)anthracene	<0.039	*3	0.039	0.0076	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Fluoranthene	0.037	J	0.039	0.0073	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Indeno[1,2,3-cd]pyrene	0.015	J *3	0.039	0.010	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B01 (0-5)

Lab Sample ID: 500-225658-7

Date Collected: 11/17/22 11:40

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Phenanthrene	0.018	J	0.039	0.0055	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Pyrene	0.059		0.039	0.0078	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	12/01/22 08:54	12/06/22 14:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	88		43 - 145				12/01/22 08:54	12/06/22 14:54	1
2-Fluorophenol (Surr)	98		31 - 166				12/01/22 08:54	12/06/22 14:54	1
Nitrobenzene-d5 (Surr)	97		37 - 147				12/01/22 08:54	12/06/22 14:54	1
Phenol-d5 (Surr)	100		30 - 153				12/01/22 08:54	12/06/22 14:54	1
Terphenyl-d14 (Surr)	184	S1+	42 - 157				12/01/22 08:54	12/06/22 14:54	1
2,4,6-Tribromophenol (Surr)	86		31 - 143				12/01/22 08:54	12/06/22 14:54	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.54	J	1.1	0.22	mg/Kg	☼	12/01/22 16:18	12/06/22 14:11	1
Arsenic	11		0.57	0.20	mg/Kg	☼	12/01/22 16:18	12/06/22 14:11	1
Barium	70		0.57	0.065	mg/Kg	☼	12/01/22 16:18	12/06/22 14:11	1
Beryllium	0.76		0.23	0.053	mg/Kg	☼	12/01/22 16:18	12/06/22 14:11	1
Boron	7.3		2.9	0.27	mg/Kg	☼	12/01/22 16:18	12/06/22 14:11	1
Cadmium	0.25	B	0.11	0.021	mg/Kg	☼	12/01/22 16:18	12/06/22 14:11	1
Calcium	25000	B	11	1.9	mg/Kg	☼	12/01/22 16:18	12/06/22 14:11	1
Chromium	15		0.57	0.28	mg/Kg	☼	12/01/22 16:18	12/06/22 14:11	1
Cobalt	12		0.29	0.075	mg/Kg	☼	12/01/22 16:18	12/06/22 14:11	1
Copper	19		0.57	0.16	mg/Kg	☼	12/01/22 16:18	12/06/22 14:11	1
Iron	20000		11	5.9	mg/Kg	☼	12/01/22 16:18	12/06/22 14:11	1
Lead	36		0.29	0.13	mg/Kg	☼	12/01/22 16:18	12/06/22 14:11	1
Magnesium	16000		5.7	2.8	mg/Kg	☼	12/01/22 16:18	12/06/22 14:11	1
Manganese	590		0.57	0.083	mg/Kg	☼	12/01/22 16:18	12/06/22 14:11	1
Nickel	24		0.57	0.17	mg/Kg	☼	12/01/22 16:18	12/06/22 14:11	1
Potassium	1600		29	10	mg/Kg	☼	12/01/22 16:18	12/06/22 14:11	1
Selenium	0.41	J	0.57	0.34	mg/Kg	☼	12/01/22 16:18	12/06/22 14:11	1
Silver	0.28	J	0.29	0.074	mg/Kg	☼	12/01/22 16:18	12/06/22 14:11	1
Sodium	1700		57	8.5	mg/Kg	☼	12/01/22 16:18	12/06/22 14:11	1
Thallium	<0.57		0.57	0.29	mg/Kg	☼	12/01/22 16:18	12/06/22 14:11	1
Vanadium	24		0.29	0.068	mg/Kg	☼	12/01/22 16:18	12/06/22 14:11	1
Zinc	62		1.1	0.50	mg/Kg	☼	12/01/22 16:18	12/07/22 01:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.48	J	0.50	0.050	mg/L		12/02/22 15:04	12/05/22 15:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/02/22 15:04	12/05/22 15:57	1
Boron	0.70	J B *+	1.0	0.050	mg/L		12/02/22 15:04	12/05/22 15:57	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B01 (0-5)

Lab Sample ID: 500-225658-7

Date Collected: 11/17/22 11:40

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/02/22 15:04	12/05/22 15:57	1
Chromium	<0.025		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 15:57	1
Cobalt	<0.025		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 15:57	1
Iron	<0.40		0.40	0.20	mg/L		12/02/22 15:04	12/05/22 15:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/02/22 15:04	12/05/22 15:57	1
Manganese	1.5		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 15:57	1
Nickel	<0.025		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 15:57	1
Selenium	<0.050		0.050	0.020	mg/L		12/02/22 15:04	12/05/22 15:57	1
Silver	<0.025		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 15:57	1
Zinc	<0.50		0.50	0.020	mg/L		12/02/22 15:04	12/05/22 15:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.3		0.025	0.010	mg/L		12/02/22 15:12	12/07/22 21:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	*+	0.0060	0.0060	mg/L		12/02/22 15:04	12/05/22 15:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/02/22 15:04	12/05/22 15:14	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 16:00	12/05/22 12:32	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.018	0.0062	mg/Kg	☼	12/05/22 15:45	12/06/22 08:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.9		0.2	0.2	SU			11/23/22 16:21	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B01 (5-7)

Lab Sample ID: 500-225658-8

Date Collected: 11/17/22 11:45

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0090	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
Benzene	<0.0021		0.0021	0.00053	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
Bromodichloromethane	<0.0021		0.0021	0.00042	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
Bromoform	<0.0021		0.0021	0.00060	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
Bromomethane	<0.0052		0.0052	0.0020	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
2-Butanone (MEK)	<0.0052		0.0052	0.0023	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
Carbon disulfide	<0.0052		0.0052	0.0011	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
Carbon tetrachloride	<0.0021		0.0021	0.00060	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
Chlorobenzene	<0.0021		0.0021	0.00076	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
Chloroethane	<0.0052		0.0052	0.0015	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
Chloroform	<0.0021		0.0021	0.00072	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
Chloromethane	<0.0052		0.0052	0.0021	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00058	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00062	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
Dibromochloromethane	<0.0021		0.0021	0.00067	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
1,1-Dichloroethane	<0.0021		0.0021	0.00071	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
1,2-Dichloroethane	<0.0052		0.0052	0.0016	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
1,1-Dichloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
1,2-Dichloropropane	<0.0021		0.0021	0.00053	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
1,3-Dichloropropane, Total	<0.0021		0.0021	0.00072	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
Ethylbenzene	<0.0021		0.0021	0.00099	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
Methylene Chloride	<0.0052		0.0052	0.0020	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0015	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00061	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
Styrene	<0.0021		0.0021	0.00062	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00066	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
Tetrachloroethene	<0.0021		0.0021	0.00070	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
Toluene	<0.0021		0.0021	0.00052	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00091	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00072	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00069	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00089	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
Trichloroethene	<0.0021		0.0021	0.00070	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
Vinyl acetate	<0.0052		0.0052	0.0018	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
Vinyl chloride	<0.0021		0.0021	0.00091	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1
Xylenes, Total	<0.0041		0.0041	0.00066	mg/Kg	☼	11/18/22 16:51	11/28/22 17:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		75 - 131	11/18/22 16:51	11/28/22 17:15	1
Dibromofluoromethane	96		75 - 126	11/18/22 16:51	11/28/22 17:15	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	11/18/22 16:51	11/28/22 17:15	1
Toluene-d8 (Surr)	109		75 - 124	11/18/22 16:51	11/28/22 17:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
Anthracene	<0.041		0.041	0.0068	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
Benzo[a]anthracene	0.031	J	0.041	0.0055	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B01 (5-7)

Lab Sample ID: 500-225658-8

Date Collected: 11/17/22 11:45

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.032	J *3	0.041	0.0079	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
Benzo[b]fluoranthene	0.055	*3	0.041	0.0088	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
Benzo[g,h,i]perylene	0.016	J *3	0.041	0.013	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
Benzo[k]fluoranthene	0.026	J *3	0.041	0.012	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
Chrysene	0.040	J	0.041	0.011	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
Dibenz(a,h)anthracene	<0.041	*3	0.041	0.0079	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
2,6-Dinitrotoluene	<0.21		0.21	0.080	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
Fluoranthene	0.061		0.041	0.0076	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
Indeno[1,2,3-cd]pyrene	0.018	J *3	0.041	0.011	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
2-Methylnaphthalene	<0.083		0.083	0.0075	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	12/01/22 08:54	12/06/22 15:15	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B01 (5-7)

Lab Sample ID: 500-225658-8

Date Collected: 11/17/22 11:45

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	✳	12/01/22 08:54	12/06/22 15:15	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	✳	12/01/22 08:54	12/06/22 15:15	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	✳	12/01/22 08:54	12/06/22 15:15	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	✳	12/01/22 08:54	12/06/22 15:15	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	✳	12/01/22 08:54	12/06/22 15:15	1
Phenanthrene	0.035	J	0.041	0.0057	mg/Kg	✳	12/01/22 08:54	12/06/22 15:15	1
Phenol	<0.21		0.21	0.091	mg/Kg	✳	12/01/22 08:54	12/06/22 15:15	1
Pyrene	0.090		0.041	0.0081	mg/Kg	✳	12/01/22 08:54	12/06/22 15:15	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	✳	12/01/22 08:54	12/06/22 15:15	1
2,4,5-Trichlorophenol	<0.41		0.41	0.093	mg/Kg	✳	12/01/22 08:54	12/06/22 15:15	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	✳	12/01/22 08:54	12/06/22 15:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	91		43 - 145				12/01/22 08:54	12/06/22 15:15	1
2-Fluorophenol (Surr)	94		31 - 166				12/01/22 08:54	12/06/22 15:15	1
Nitrobenzene-d5 (Surr)	104		37 - 147				12/01/22 08:54	12/06/22 15:15	1
Phenol-d5 (Surr)	89		30 - 153				12/01/22 08:54	12/06/22 15:15	1
Terphenyl-d14 (Surr)	168	S1+	42 - 157				12/01/22 08:54	12/06/22 15:15	1
2,4,6-Tribromophenol (Surr)	75		31 - 143				12/01/22 08:54	12/06/22 15:15	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.63	J	1.2	0.23	mg/Kg	✳	12/01/22 16:18	12/06/22 14:14	1
Arsenic	11		0.60	0.20	mg/Kg	✳	12/01/22 16:18	12/06/22 14:14	1
Barium	88		0.60	0.068	mg/Kg	✳	12/01/22 16:18	12/06/22 14:14	1
Beryllium	0.75		0.24	0.056	mg/Kg	✳	12/01/22 16:18	12/06/22 14:14	1
Boron	4.9		3.0	0.28	mg/Kg	✳	12/01/22 16:18	12/06/22 14:14	1
Cadmium	0.19	B	0.12	0.021	mg/Kg	✳	12/01/22 16:18	12/06/22 14:14	1
Calcium	19000	B	12	2.0	mg/Kg	✳	12/01/22 16:18	12/06/22 14:14	1
Chromium	16		0.60	0.30	mg/Kg	✳	12/01/22 16:18	12/06/22 14:14	1
Cobalt	12		0.30	0.078	mg/Kg	✳	12/01/22 16:18	12/06/22 14:14	1
Copper	20		0.60	0.17	mg/Kg	✳	12/01/22 16:18	12/06/22 14:14	1
Iron	21000		12	6.2	mg/Kg	✳	12/01/22 16:18	12/06/22 14:14	1
Lead	37		0.30	0.14	mg/Kg	✳	12/01/22 16:18	12/06/22 14:14	1
Magnesium	13000		6.0	3.0	mg/Kg	✳	12/01/22 16:18	12/06/22 14:14	1
Manganese	440		0.60	0.087	mg/Kg	✳	12/01/22 16:18	12/06/22 14:14	1
Nickel	21		0.60	0.17	mg/Kg	✳	12/01/22 16:18	12/06/22 14:14	1
Potassium	1200		30	11	mg/Kg	✳	12/01/22 16:18	12/06/22 14:14	1
Selenium	<0.60		0.60	0.35	mg/Kg	✳	12/01/22 16:18	12/06/22 14:14	1
Silver	0.33		0.30	0.077	mg/Kg	✳	12/01/22 16:18	12/06/22 14:14	1
Sodium	1800		60	8.8	mg/Kg	✳	12/01/22 16:18	12/06/22 14:14	1
Thallium	<0.60		0.60	0.30	mg/Kg	✳	12/01/22 16:18	12/06/22 14:14	1
Vanadium	28		0.30	0.070	mg/Kg	✳	12/01/22 16:18	12/06/22 14:14	1
Zinc	61		1.2	0.52	mg/Kg	✳	12/01/22 16:18	12/07/22 01:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.49	J	0.50	0.050	mg/L		12/02/22 15:04	12/05/22 16:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/02/22 15:04	12/05/22 16:00	1
Boron	0.69	J B *+	1.0	0.050	mg/L		12/02/22 15:04	12/05/22 16:00	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B01 (5-7)

Lab Sample ID: 500-225658-8

Date Collected: 11/17/22 11:45

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/02/22 15:04	12/05/22 16:00	1
Chromium	<0.025		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 16:00	1
Cobalt	<0.025		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 16:00	1
Iron	<0.40		0.40	0.20	mg/L		12/02/22 15:04	12/05/22 16:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/02/22 15:04	12/05/22 16:00	1
Manganese	0.81		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 16:00	1
Nickel	<0.025		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 16:00	1
Selenium	<0.050		0.050	0.020	mg/L		12/02/22 15:04	12/05/22 16:00	1
Silver	<0.025		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 16:00	1
Zinc	<0.50		0.50	0.020	mg/L		12/02/22 15:04	12/05/22 16:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.0		0.025	0.010	mg/L		12/02/22 15:12	12/07/22 21:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	*+	0.0060	0.0060	mg/L		12/02/22 15:04	12/05/22 15:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/02/22 15:04	12/05/22 15:16	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 16:00	12/05/22 12:34	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046		0.019	0.0064	mg/Kg	☆	12/05/22 15:45	12/06/22 08:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.1		0.2	0.2	SU			11/23/22 16:23	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

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

Glossary

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

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

GC/MS VOA

Prep Batch: 685985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225658-1	1401V3-04-B06 (0-6)	Total/NA	Solid	5035	
500-225658-2	1401V3-04-B05 (0-6)	Total/NA	Solid	5035	
500-225658-3	1401V3-04-B05 (0-6)Dup	Total/NA	Solid	5035	
500-225658-4	1401V3-04-B04 (0-6)	Total/NA	Solid	5035	
500-225658-5	1401V3-04-B03 (0-6)	Total/NA	Solid	5035	
500-225658-6	1401V3-04-B02 (0-2)	Total/NA	Solid	5035	
500-225658-7	1401V3-04-B01 (0-5)	Total/NA	Solid	5035	
500-225658-8	1401V3-04-B01 (5-7)	Total/NA	Solid	5035	

Analysis Batch: 686850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225658-1	1401V3-04-B06 (0-6)	Total/NA	Solid	8260B	685985
500-225658-2	1401V3-04-B05 (0-6)	Total/NA	Solid	8260B	685985
500-225658-3	1401V3-04-B05 (0-6)Dup	Total/NA	Solid	8260B	685985
500-225658-4	1401V3-04-B04 (0-6)	Total/NA	Solid	8260B	685985
500-225658-5	1401V3-04-B03 (0-6)	Total/NA	Solid	8260B	685985
500-225658-6	1401V3-04-B02 (0-2)	Total/NA	Solid	8260B	685985
MB 500-686850/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-686850/30	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-686850/9	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 686936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225658-7	1401V3-04-B01 (0-5)	Total/NA	Solid	8260B	685985
500-225658-8	1401V3-04-B01 (5-7)	Total/NA	Solid	8260B	685985
MB 500-686936/24	Method Blank	Total/NA	Solid	8260B	
LCS 500-686936/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-686936/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 687684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225658-1	1401V3-04-B06 (0-6)	Total/NA	Solid	3541	
500-225658-2	1401V3-04-B05 (0-6)	Total/NA	Solid	3541	
500-225658-3	1401V3-04-B05 (0-6)Dup	Total/NA	Solid	3541	
500-225658-4	1401V3-04-B04 (0-6)	Total/NA	Solid	3541	
500-225658-5	1401V3-04-B03 (0-6)	Total/NA	Solid	3541	
500-225658-6	1401V3-04-B02 (0-2)	Total/NA	Solid	3541	
500-225658-7	1401V3-04-B01 (0-5)	Total/NA	Solid	3541	
500-225658-8	1401V3-04-B01 (5-7)	Total/NA	Solid	3541	
MB 500-687684/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-687684/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-225658-1 MS	1401V3-04-B06 (0-6)	Total/NA	Solid	3541	
500-225658-1 MSD	1401V3-04-B06 (0-6)	Total/NA	Solid	3541	

Analysis Batch: 688419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225658-1	1401V3-04-B06 (0-6)	Total/NA	Solid	8270D	687684
500-225658-2	1401V3-04-B05 (0-6)	Total/NA	Solid	8270D	687684
500-225658-3	1401V3-04-B05 (0-6)Dup	Total/NA	Solid	8270D	687684

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

GC/MS Semi VOA (Continued)

Analysis Batch: 688419 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225658-4	1401V3-04-B04 (0-6)	Total/NA	Solid	8270D	687684
500-225658-5	1401V3-04-B03 (0-6)	Total/NA	Solid	8270D	687684
500-225658-6	1401V3-04-B02 (0-2)	Total/NA	Solid	8270D	687684
500-225658-7	1401V3-04-B01 (0-5)	Total/NA	Solid	8270D	687684
500-225658-8	1401V3-04-B01 (5-7)	Total/NA	Solid	8270D	687684
MB 500-687684/1-A	Method Blank	Total/NA	Solid	8270D	687684
LCS 500-687684/2-A	Lab Control Sample	Total/NA	Solid	8270D	687684
500-225658-1 MS	1401V3-04-B06 (0-6)	Total/NA	Solid	8270D	687684
500-225658-1 MSD	1401V3-04-B06 (0-6)	Total/NA	Solid	8270D	687684

Metals

Leach Batch: 687762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225658-1	1401V3-04-B06 (0-6)	TCLP	Solid	1311	
500-225658-2	1401V3-04-B05 (0-6)	TCLP	Solid	1311	
500-225658-3	1401V3-04-B05 (0-6)Dup	TCLP	Solid	1311	
500-225658-4	1401V3-04-B04 (0-6)	TCLP	Solid	1311	
500-225658-5	1401V3-04-B03 (0-6)	TCLP	Solid	1311	
500-225658-6	1401V3-04-B02 (0-2)	TCLP	Solid	1311	
500-225658-7	1401V3-04-B01 (0-5)	TCLP	Solid	1311	
500-225658-8	1401V3-04-B01 (5-7)	TCLP	Solid	1311	
LB 500-687762/1-B	Method Blank	TCLP	Solid	1311	
LB 500-687762/2-B	Method Blank	TCLP	Solid	1311	

Leach Batch: 687772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225658-1	1401V3-04-B06 (0-6)	SPLP East	Solid	1312	
500-225658-2	1401V3-04-B05 (0-6)	SPLP East	Solid	1312	
500-225658-3	1401V3-04-B05 (0-6)Dup	SPLP East	Solid	1312	
500-225658-4	1401V3-04-B04 (0-6)	SPLP East	Solid	1312	
500-225658-5	1401V3-04-B03 (0-6)	SPLP East	Solid	1312	
500-225658-6	1401V3-04-B02 (0-2)	SPLP East	Solid	1312	
500-225658-7	1401V3-04-B01 (0-5)	SPLP East	Solid	1312	
500-225658-8	1401V3-04-B01 (5-7)	SPLP East	Solid	1312	
LB 500-687772/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 687795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225658-1	1401V3-04-B06 (0-6)	Total/NA	Solid	3050B	
500-225658-2	1401V3-04-B05 (0-6)	Total/NA	Solid	3050B	
500-225658-3	1401V3-04-B05 (0-6)Dup	Total/NA	Solid	3050B	
500-225658-4	1401V3-04-B04 (0-6)	Total/NA	Solid	3050B	
500-225658-5	1401V3-04-B03 (0-6)	Total/NA	Solid	3050B	
500-225658-6	1401V3-04-B02 (0-2)	Total/NA	Solid	3050B	
500-225658-7	1401V3-04-B01 (0-5)	Total/NA	Solid	3050B	
500-225658-8	1401V3-04-B01 (5-7)	Total/NA	Solid	3050B	
MB 500-687795/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-687795/2-A	Lab Control Sample	Total/NA	Solid	3050B	

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Metals

Prep Batch: 687985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225658-1	1401V3-04-B06 (0-6)	TCLP	Solid	3010A	687762
500-225658-2	1401V3-04-B05 (0-6)	TCLP	Solid	3010A	687762
500-225658-3	1401V3-04-B05 (0-6)Dup	TCLP	Solid	3010A	687762
500-225658-4	1401V3-04-B04 (0-6)	TCLP	Solid	3010A	687762
500-225658-5	1401V3-04-B03 (0-6)	TCLP	Solid	3010A	687762
500-225658-6	1401V3-04-B02 (0-2)	TCLP	Solid	3010A	687762
500-225658-7	1401V3-04-B01 (0-5)	TCLP	Solid	3010A	687762
500-225658-8	1401V3-04-B01 (5-7)	TCLP	Solid	3010A	687762
LB 500-687762/1-B	Method Blank	TCLP	Solid	3010A	687762
LCS 500-687985/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 687988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225658-1	1401V3-04-B06 (0-6)	SPLP East	Solid	3010A	687772
500-225658-2	1401V3-04-B05 (0-6)	SPLP East	Solid	3010A	687772
500-225658-3	1401V3-04-B05 (0-6)Dup	SPLP East	Solid	3010A	687772
500-225658-4	1401V3-04-B04 (0-6)	SPLP East	Solid	3010A	687772
500-225658-5	1401V3-04-B03 (0-6)	SPLP East	Solid	3010A	687772
500-225658-6	1401V3-04-B02 (0-2)	SPLP East	Solid	3010A	687772
500-225658-7	1401V3-04-B01 (0-5)	SPLP East	Solid	3010A	687772
500-225658-8	1401V3-04-B01 (5-7)	SPLP East	Solid	3010A	687772
LB 500-687772/1-B	Method Blank	SPLP East	Solid	3010A	687772
LCS 500-687988/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 687994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225658-1	1401V3-04-B06 (0-6)	TCLP	Solid	7470A	687762
500-225658-2	1401V3-04-B05 (0-6)	TCLP	Solid	7470A	687762
500-225658-3	1401V3-04-B05 (0-6)Dup	TCLP	Solid	7470A	687762
500-225658-4	1401V3-04-B04 (0-6)	TCLP	Solid	7470A	687762
500-225658-5	1401V3-04-B03 (0-6)	TCLP	Solid	7470A	687762
500-225658-6	1401V3-04-B02 (0-2)	TCLP	Solid	7470A	687762
500-225658-7	1401V3-04-B01 (0-5)	TCLP	Solid	7470A	687762
500-225658-8	1401V3-04-B01 (5-7)	TCLP	Solid	7470A	687762
LB 500-687762/2-B	Method Blank	TCLP	Solid	7470A	687762
MB 500-687994/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-687994/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 688234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225658-1	1401V3-04-B06 (0-6)	Total/NA	Solid	7471B	
500-225658-2	1401V3-04-B05 (0-6)	Total/NA	Solid	7471B	
500-225658-3	1401V3-04-B05 (0-6)Dup	Total/NA	Solid	7471B	
500-225658-4	1401V3-04-B04 (0-6)	Total/NA	Solid	7471B	
500-225658-5	1401V3-04-B03 (0-6)	Total/NA	Solid	7471B	
500-225658-6	1401V3-04-B02 (0-2)	Total/NA	Solid	7471B	
500-225658-7	1401V3-04-B01 (0-5)	Total/NA	Solid	7471B	
500-225658-8	1401V3-04-B01 (5-7)	Total/NA	Solid	7471B	
MB 500-688234/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-688234/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-225658-5 MS	1401V3-04-B03 (0-6)	Total/NA	Solid	7471B	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Metals (Continued)

Prep Batch: 688234 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225658-5 MSD	1401V3-04-B03 (0-6)	Total/NA	Solid	7471B	
500-225658-5 DU	1401V3-04-B03 (0-6)	Total/NA	Solid	7471B	

Analysis Batch: 688267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225658-1	1401V3-04-B06 (0-6)	TCLP	Solid	7470A	687994
500-225658-2	1401V3-04-B05 (0-6)	TCLP	Solid	7470A	687994
500-225658-3	1401V3-04-B05 (0-6)Dup	TCLP	Solid	7470A	687994
500-225658-4	1401V3-04-B04 (0-6)	TCLP	Solid	7470A	687994
500-225658-5	1401V3-04-B03 (0-6)	TCLP	Solid	7470A	687994
500-225658-6	1401V3-04-B02 (0-2)	TCLP	Solid	7470A	687994
500-225658-7	1401V3-04-B01 (0-5)	TCLP	Solid	7470A	687994
500-225658-8	1401V3-04-B01 (5-7)	TCLP	Solid	7470A	687994
LB 500-687762/2-B	Method Blank	TCLP	Solid	7470A	687994
MB 500-687994/12-A	Method Blank	Total/NA	Solid	7470A	687994
LCS 500-687994/14-A	Lab Control Sample	Total/NA	Solid	7470A	687994

Analysis Batch: 688435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225658-1	1401V3-04-B06 (0-6)	TCLP	Solid	6010B	687985
500-225658-2	1401V3-04-B05 (0-6)	TCLP	Solid	6010B	687985
500-225658-3	1401V3-04-B05 (0-6)Dup	TCLP	Solid	6010B	687985
500-225658-4	1401V3-04-B04 (0-6)	TCLP	Solid	6010B	687985
500-225658-5	1401V3-04-B03 (0-6)	TCLP	Solid	6010B	687985
500-225658-6	1401V3-04-B02 (0-2)	TCLP	Solid	6010B	687985
500-225658-7	1401V3-04-B01 (0-5)	TCLP	Solid	6010B	687985
500-225658-8	1401V3-04-B01 (5-7)	TCLP	Solid	6010B	687985
LB 500-687762/1-B	Method Blank	TCLP	Solid	6010B	687985
LCS 500-687985/2-A	Lab Control Sample	Total/NA	Solid	6010B	687985

Analysis Batch: 688451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225658-1	1401V3-04-B06 (0-6)	Total/NA	Solid	7471B	688234
500-225658-2	1401V3-04-B05 (0-6)	Total/NA	Solid	7471B	688234
500-225658-3	1401V3-04-B05 (0-6)Dup	Total/NA	Solid	7471B	688234
500-225658-4	1401V3-04-B04 (0-6)	Total/NA	Solid	7471B	688234
500-225658-5	1401V3-04-B03 (0-6)	Total/NA	Solid	7471B	688234
500-225658-6	1401V3-04-B02 (0-2)	Total/NA	Solid	7471B	688234
500-225658-7	1401V3-04-B01 (0-5)	Total/NA	Solid	7471B	688234
500-225658-8	1401V3-04-B01 (5-7)	Total/NA	Solid	7471B	688234
MB 500-688234/12-A	Method Blank	Total/NA	Solid	7471B	688234
LCS 500-688234/13-A	Lab Control Sample	Total/NA	Solid	7471B	688234
500-225658-5 MS	1401V3-04-B03 (0-6)	Total/NA	Solid	7471B	688234
500-225658-5 MSD	1401V3-04-B03 (0-6)	Total/NA	Solid	7471B	688234
500-225658-5 DU	1401V3-04-B03 (0-6)	Total/NA	Solid	7471B	688234

Analysis Batch: 688456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225658-1	1401V3-04-B06 (0-6)	TCLP	Solid	6020A	687985
500-225658-2	1401V3-04-B05 (0-6)	TCLP	Solid	6020A	687985
500-225658-3	1401V3-04-B05 (0-6)Dup	TCLP	Solid	6020A	687985

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Metals (Continued)

Analysis Batch: 688456 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225658-4	1401V3-04-B04 (0-6)	TCLP	Solid	6020A	687985
500-225658-5	1401V3-04-B03 (0-6)	TCLP	Solid	6020A	687985
500-225658-6	1401V3-04-B02 (0-2)	TCLP	Solid	6020A	687985
500-225658-7	1401V3-04-B01 (0-5)	TCLP	Solid	6020A	687985
500-225658-8	1401V3-04-B01 (5-7)	TCLP	Solid	6020A	687985
LB 500-687762/1-B	Method Blank	TCLP	Solid	6020A	687985
LCS 500-687985/2-A	Lab Control Sample	Total/NA	Solid	6020A	687985

Analysis Batch: 688504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225658-1	1401V3-04-B06 (0-6)	Total/NA	Solid	6010B	687795
500-225658-2	1401V3-04-B05 (0-6)	Total/NA	Solid	6010B	687795
500-225658-3	1401V3-04-B05 (0-6)Dup	Total/NA	Solid	6010B	687795
500-225658-4	1401V3-04-B04 (0-6)	Total/NA	Solid	6010B	687795
500-225658-5	1401V3-04-B03 (0-6)	Total/NA	Solid	6010B	687795
500-225658-6	1401V3-04-B02 (0-2)	Total/NA	Solid	6010B	687795
500-225658-7	1401V3-04-B01 (0-5)	Total/NA	Solid	6010B	687795
500-225658-8	1401V3-04-B01 (5-7)	Total/NA	Solid	6010B	687795
MB 500-687795/1-A	Method Blank	Total/NA	Solid	6010B	687795
LCS 500-687795/2-A	Lab Control Sample	Total/NA	Solid	6010B	687795

Analysis Batch: 688666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225658-1	1401V3-04-B06 (0-6)	Total/NA	Solid	6010B	687795
500-225658-2	1401V3-04-B05 (0-6)	Total/NA	Solid	6010B	687795
500-225658-3	1401V3-04-B05 (0-6)Dup	Total/NA	Solid	6010B	687795
500-225658-4	1401V3-04-B04 (0-6)	Total/NA	Solid	6010B	687795
500-225658-5	1401V3-04-B03 (0-6)	Total/NA	Solid	6010B	687795
500-225658-6	1401V3-04-B02 (0-2)	Total/NA	Solid	6010B	687795
500-225658-7	1401V3-04-B01 (0-5)	Total/NA	Solid	6010B	687795
500-225658-8	1401V3-04-B01 (5-7)	Total/NA	Solid	6010B	687795

Analysis Batch: 688870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225658-1	1401V3-04-B06 (0-6)	SPLP East	Solid	6010B	687988
500-225658-2	1401V3-04-B05 (0-6)	SPLP East	Solid	6010B	687988
500-225658-3	1401V3-04-B05 (0-6)Dup	SPLP East	Solid	6010B	687988
500-225658-4	1401V3-04-B04 (0-6)	SPLP East	Solid	6010B	687988
500-225658-5	1401V3-04-B03 (0-6)	SPLP East	Solid	6010B	687988
500-225658-6	1401V3-04-B02 (0-2)	SPLP East	Solid	6010B	687988
500-225658-7	1401V3-04-B01 (0-5)	SPLP East	Solid	6010B	687988
500-225658-8	1401V3-04-B01 (5-7)	SPLP East	Solid	6010B	687988
LB 500-687772/1-B	Method Blank	SPLP East	Solid	6010B	687988
LCS 500-687988/2-A	Lab Control Sample	Total/NA	Solid	6010B	687988

General Chemistry

Analysis Batch: 686927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225658-1	1401V3-04-B06 (0-6)	Total/NA	Solid	9045D	
500-225658-2	1401V3-04-B05 (0-6)	Total/NA	Solid	9045D	

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QC Association Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

General Chemistry (Continued)

Analysis Batch: 686927 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225658-3	1401V3-04-B05 (0-6)Dup	Total/NA	Solid	9045D	
500-225658-4	1401V3-04-B04 (0-6)	Total/NA	Solid	9045D	
500-225658-5	1401V3-04-B03 (0-6)	Total/NA	Solid	9045D	
500-225658-6	1401V3-04-B02 (0-2)	Total/NA	Solid	9045D	
500-225658-7	1401V3-04-B01 (0-5)	Total/NA	Solid	9045D	
500-225658-8	1401V3-04-B01 (5-7)	Total/NA	Solid	9045D	
LCS 500-686927/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-686927/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 687349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225658-1	1401V3-04-B06 (0-6)	Total/NA	Solid	Moisture	
500-225658-2	1401V3-04-B05 (0-6)	Total/NA	Solid	Moisture	
500-225658-3	1401V3-04-B05 (0-6)Dup	Total/NA	Solid	Moisture	
500-225658-4	1401V3-04-B04 (0-6)	Total/NA	Solid	Moisture	
500-225658-5	1401V3-04-B03 (0-6)	Total/NA	Solid	Moisture	
500-225658-6	1401V3-04-B02 (0-2)	Total/NA	Solid	Moisture	
500-225658-7	1401V3-04-B01 (0-5)	Total/NA	Solid	Moisture	
500-225658-8	1401V3-04-B01 (5-7)	Total/NA	Solid	Moisture	



Surrogate Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-225658-1	1401V3-04-B06 (0-6)	100	89	103	88
500-225658-2	1401V3-04-B05 (0-6)	99	88	101	86
500-225658-3	1401V3-04-B05 (0-6)Dup	99	92	100	87
500-225658-4	1401V3-04-B04 (0-6)	106	91	102	86
500-225658-5	1401V3-04-B03 (0-6)	97	92	103	86
500-225658-6	1401V3-04-B02 (0-2)	99	88	101	87
500-225658-7	1401V3-04-B01 (0-5)	115	95	112	106
500-225658-8	1401V3-04-B01 (5-7)	119	96	111	109
LCS 500-686850/30	Lab Control Sample	91	86	88	89
LCS 500-686936/5	Lab Control Sample	103	93	100	109
LCSD 500-686850/9	Lab Control Sample Dup	94	85	93	90
LCSD 500-686936/6	Lab Control Sample Dup	104	94	100	108
MB 500-686850/7	Method Blank	99	86	96	87
MB 500-686936/24	Method Blank	104	95	107	111

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-225658-1	1401V3-04-B06 (0-6)	75	90	81	87	130	76
500-225658-1 MS	1401V3-04-B06 (0-6)	97	108	105	101	127	97
500-225658-1 MSD	1401V3-04-B06 (0-6)	102	107	109	108	131	100
500-225658-2	1401V3-04-B05 (0-6)	84	94	87	101	172 S1+	90
500-225658-3	1401V3-04-B05 (0-6)Dup	89	97	86	97	177 S1+	84
500-225658-4	1401V3-04-B04 (0-6)	97	101	109	96	156	81
500-225658-5	1401V3-04-B03 (0-6)	90	98	102	96	148	83
500-225658-6	1401V3-04-B02 (0-2)	93	92	98	92	176 S1+	82
500-225658-7	1401V3-04-B01 (0-5)	88	98	97	100	184 S1+	86
500-225658-8	1401V3-04-B01 (5-7)	91	94	104	89	168 S1+	75
LCS 500-687684/2-A	Lab Control Sample	96	100	103	101	112	86
MB 500-687684/1-A	Method Blank	110	109	117	116	135	79

Surrogate Legend

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

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

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

Lab Sample ID: MB 500-686850/7
Matrix: Solid
Analysis Batch: 686850

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			11/26/22 10:35	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			11/26/22 10:35	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			11/26/22 10:35	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			11/26/22 10:35	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			11/26/22 10:35	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			11/26/22 10:35	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			11/26/22 10:35	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			11/26/22 10:35	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			11/26/22 10:35	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			11/26/22 10:35	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			11/26/22 10:35	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			11/26/22 10:35	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			11/26/22 10:35	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			11/26/22 10:35	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			11/26/22 10:35	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			11/26/22 10:35	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			11/26/22 10:35	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			11/26/22 10:35	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			11/26/22 10:35	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			11/26/22 10:35	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			11/26/22 10:35	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			11/26/22 10:35	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			11/26/22 10:35	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			11/26/22 10:35	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			11/26/22 10:35	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			11/26/22 10:35	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			11/26/22 10:35	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/26/22 10:35	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			11/26/22 10:35	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			11/26/22 10:35	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			11/26/22 10:35	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			11/26/22 10:35	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			11/26/22 10:35	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/26/22 10:35	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			11/26/22 10:35	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			11/26/22 10:35	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			11/26/22 10:35	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	99		75 - 131		11/26/22 10:35	1
Dibromofluoromethane	86		75 - 126		11/26/22 10:35	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134		11/26/22 10:35	1
Toluene-d8 (Surr)	87		75 - 124		11/26/22 10:35	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

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

Lab Sample ID: LCS 500-686850/30
Matrix: Solid
Analysis Batch: 686850

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0500	0.0488		mg/Kg		98	40 - 150
Benzene	0.0500	0.0539		mg/Kg		108	70 - 125
Bromodichloromethane	0.0500	0.0570		mg/Kg		114	67 - 129
Bromoform	0.0500	0.0481		mg/Kg		96	68 - 136
Bromomethane	0.0500	0.0597		mg/Kg		119	70 - 130
2-Butanone (MEK)	0.0500	0.0464		mg/Kg		93	47 - 138
Carbon disulfide	0.0500	0.0567		mg/Kg		113	70 - 129
Carbon tetrachloride	0.0500	0.0597		mg/Kg		119	75 - 125
Chlorobenzene	0.0500	0.0540		mg/Kg		108	50 - 150
Chloroethane	0.0500	0.0554		mg/Kg		111	75 - 125
Chloroform	0.0500	0.0593		mg/Kg		119	57 - 135
Chloromethane	0.0500	0.0584		mg/Kg		117	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0550		mg/Kg		110	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0510		mg/Kg		102	70 - 125
Dibromochloromethane	0.0500	0.0538		mg/Kg		108	69 - 125
1,1-Dichloroethane	0.0500	0.0565		mg/Kg		113	70 - 125
1,2-Dichloroethane	0.0500	0.0569		mg/Kg		114	70 - 130
1,1-Dichloroethene	0.0500	0.0568		mg/Kg		114	70 - 120
1,2-Dichloropropane	0.0500	0.0519		mg/Kg		104	70 - 125
Ethylbenzene	0.0500	0.0555		mg/Kg		111	61 - 136
2-Hexanone	0.0500	0.0441		mg/Kg		88	48 - 146
Methylene Chloride	0.0500	0.0571		mg/Kg		114	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0446		mg/Kg		89	50 - 148
Methyl tert-butyl ether	0.0500	0.0517		mg/Kg		103	50 - 140
Styrene	0.0500	0.0547		mg/Kg		109	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0540		mg/Kg		108	70 - 122
Tetrachloroethene	0.0500	0.0508		mg/Kg		102	70 - 124
Toluene	0.0500	0.0538		mg/Kg		108	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0574		mg/Kg		115	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0534		mg/Kg		107	70 - 125
1,1,1-Trichloroethane	0.0500	0.0587		mg/Kg		117	70 - 128
1,1,2-Trichloroethane	0.0500	0.0545		mg/Kg		109	70 - 125
Trichloroethene	0.0500	0.0519		mg/Kg		104	70 - 125
Vinyl acetate	0.0500	0.0452		mg/Kg		90	40 - 153
Vinyl chloride	0.0500	0.0587		mg/Kg		117	70 - 125
Xylenes, Total	0.100	0.111		mg/Kg		111	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	91		75 - 131
Dibromofluoromethane	86		75 - 126
1,2-Dichloroethane-d4 (Surr)	88		70 - 134
Toluene-d8 (Surr)	89		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

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

Lab Sample ID: LCSD 500-686850/9
Matrix: Solid
Analysis Batch: 686850

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.0500	0.0532		mg/Kg		106	40 - 150	9	30
Benzene	0.0500	0.0560		mg/Kg		112	70 - 125	4	30
Bromodichloromethane	0.0500	0.0589		mg/Kg		118	67 - 129	3	30
Bromoform	0.0500	0.0548		mg/Kg		110	68 - 136	13	30
Bromomethane	0.0500	0.0586		mg/Kg		117	70 - 130	2	30
2-Butanone (MEK)	0.0500	0.0557		mg/Kg		111	47 - 138	18	30
Carbon disulfide	0.0500	0.0565		mg/Kg		113	70 - 129	0	30
Carbon tetrachloride	0.0500	0.0595		mg/Kg		119	75 - 125	0	30
Chlorobenzene	0.0500	0.0563		mg/Kg		113	50 - 150	4	30
Chloroethane	0.0500	0.0568		mg/Kg		114	75 - 125	3	30
Chloroform	0.0500	0.0610		mg/Kg		122	57 - 135	3	30
Chloromethane	0.0500	0.0591		mg/Kg		118	70 - 125	1	30
cis-1,2-Dichloroethene	0.0500	0.0589		mg/Kg		118	70 - 125	7	30
cis-1,3-Dichloropropene	0.0500	0.0542		mg/Kg		108	70 - 125	6	30
Dibromochloromethane	0.0500	0.0579		mg/Kg		116	69 - 125	7	30
1,1-Dichloroethane	0.0500	0.0576		mg/Kg		115	70 - 125	2	30
1,2-Dichloroethane	0.0500	0.0614		mg/Kg		123	70 - 130	8	30
1,1-Dichloroethene	0.0500	0.0575		mg/Kg		115	70 - 120	1	30
1,2-Dichloropropane	0.0500	0.0541		mg/Kg		108	70 - 125	4	30
Ethylbenzene	0.0500	0.0571		mg/Kg		114	61 - 136	3	30
2-Hexanone	0.0500	0.0526		mg/Kg		105	48 - 146	18	30
Methylene Chloride	0.0500	0.0587		mg/Kg		117	70 - 126	3	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0522		mg/Kg		104	50 - 148	16	30
Methyl tert-butyl ether	0.0500	0.0548		mg/Kg		110	50 - 140	6	30
Styrene	0.0500	0.0573		mg/Kg		115	70 - 125	5	30
1,1,2,2-Tetrachloroethane	0.0500	0.0609		mg/Kg		122	70 - 122	12	30
Tetrachloroethene	0.0500	0.0530		mg/Kg		106	70 - 124	4	30
Toluene	0.0500	0.0553		mg/Kg		111	70 - 125	3	30
trans-1,2-Dichloroethene	0.0500	0.0583		mg/Kg		117	70 - 125	1	30
trans-1,3-Dichloropropene	0.0500	0.0562		mg/Kg		112	70 - 125	5	30
1,1,1-Trichloroethane	0.0500	0.0597		mg/Kg		119	70 - 128	2	30
1,1,2-Trichloroethane	0.0500	0.0579		mg/Kg		116	70 - 125	6	30
Trichloroethene	0.0500	0.0537		mg/Kg		107	70 - 125	3	30
Vinyl acetate	0.0500	0.0509		mg/Kg		102	40 - 153	12	30
Vinyl chloride	0.0500	0.0582		mg/Kg		116	70 - 125	1	30
Xylenes, Total	0.100	0.115		mg/Kg		115	53 - 147	4	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	94		75 - 131
Dibromofluoromethane	85		75 - 126
1,2-Dichloroethane-d4 (Surr)	93		70 - 134
Toluene-d8 (Surr)	90		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

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

Lab Sample ID: MB 500-686936/24
Matrix: Solid
Analysis Batch: 686936

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			11/28/22 11:08	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			11/28/22 11:08	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			11/28/22 11:08	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			11/28/22 11:08	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			11/28/22 11:08	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			11/28/22 11:08	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			11/28/22 11:08	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			11/28/22 11:08	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			11/28/22 11:08	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			11/28/22 11:08	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			11/28/22 11:08	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			11/28/22 11:08	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			11/28/22 11:08	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			11/28/22 11:08	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			11/28/22 11:08	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			11/28/22 11:08	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			11/28/22 11:08	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			11/28/22 11:08	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			11/28/22 11:08	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			11/28/22 11:08	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			11/28/22 11:08	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			11/28/22 11:08	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			11/28/22 11:08	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			11/28/22 11:08	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			11/28/22 11:08	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			11/28/22 11:08	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			11/28/22 11:08	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/28/22 11:08	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			11/28/22 11:08	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			11/28/22 11:08	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			11/28/22 11:08	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			11/28/22 11:08	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			11/28/22 11:08	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/28/22 11:08	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			11/28/22 11:08	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			11/28/22 11:08	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			11/28/22 11:08	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	104		75 - 131		11/28/22 11:08	1
Dibromofluoromethane	95		75 - 126		11/28/22 11:08	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134		11/28/22 11:08	1
Toluene-d8 (Surr)	111		75 - 124		11/28/22 11:08	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

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

Lab Sample ID: LCS 500-686936/5
Matrix: Solid
Analysis Batch: 686936

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0500	0.0461		mg/Kg		92	40 - 150
Benzene	0.0500	0.0560		mg/Kg		112	70 - 125
Bromodichloromethane	0.0500	0.0579		mg/Kg		116	67 - 129
Bromoform	0.0500	0.0537		mg/Kg		107	68 - 136
Bromomethane	0.0500	0.0463		mg/Kg		93	70 - 130
2-Butanone (MEK)	0.0500	0.0474		mg/Kg		95	47 - 138
Carbon disulfide	0.0500	0.0530		mg/Kg		106	70 - 129
Carbon tetrachloride	0.0500	0.0504		mg/Kg		101	75 - 125
Chlorobenzene	0.0500	0.0523		mg/Kg		105	50 - 150
Chloroethane	0.0500	0.0445		mg/Kg		89	75 - 125
Chloroform	0.0500	0.0535		mg/Kg		107	57 - 135
Chloromethane	0.0500	0.0447		mg/Kg		89	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0522		mg/Kg		104	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0560		mg/Kg		112	70 - 125
Dibromochloromethane	0.0500	0.0516		mg/Kg		103	69 - 125
1,1-Dichloroethane	0.0500	0.0525		mg/Kg		105	70 - 125
1,2-Dichloroethane	0.0500	0.0556		mg/Kg		111	70 - 130
1,1-Dichloroethene	0.0500	0.0506		mg/Kg		101	70 - 120
1,2-Dichloropropane	0.0500	0.0562		mg/Kg		112	70 - 125
Ethylbenzene	0.0500	0.0542		mg/Kg		108	61 - 136
2-Hexanone	0.0500	0.0497		mg/Kg		99	48 - 146
Methylene Chloride	0.0500	0.0507		mg/Kg		101	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0464		mg/Kg		93	50 - 148
Methyl tert-butyl ether	0.0500	0.0516		mg/Kg		103	50 - 140
Styrene	0.0500	0.0567		mg/Kg		113	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0574		mg/Kg		115	70 - 122
Tetrachloroethene	0.0500	0.0492		mg/Kg		98	70 - 124
Toluene	0.0500	0.0540		mg/Kg		108	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0519		mg/Kg		104	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0588		mg/Kg		118	70 - 125
1,1,1-Trichloroethane	0.0500	0.0519		mg/Kg		104	70 - 128
1,1,2-Trichloroethane	0.0500	0.0536		mg/Kg		107	70 - 125
Trichloroethene	0.0500	0.0503		mg/Kg		101	70 - 125
Vinyl acetate	0.0500	0.0477		mg/Kg		95	40 - 153
Vinyl chloride	0.0500	0.0429		mg/Kg		86	70 - 125
Xylenes, Total	0.100	0.108		mg/Kg		108	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		75 - 131
Dibromofluoromethane	93		75 - 126
1,2-Dichloroethane-d4 (Surr)	100		70 - 134
Toluene-d8 (Surr)	109		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

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

Lab Sample ID: LCSD 500-686936/6
Matrix: Solid
Analysis Batch: 686936

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.0500	0.0403		mg/Kg		81	40 - 150	13	30
Benzene	0.0500	0.0468		mg/Kg		94	70 - 125	18	30
Bromodichloromethane	0.0500	0.0470		mg/Kg		94	67 - 129	21	30
Bromoform	0.0500	0.0439		mg/Kg		88	68 - 136	20	30
Bromomethane	0.0500	0.0417		mg/Kg		83	70 - 130	10	30
2-Butanone (MEK)	0.0500	0.0416		mg/Kg		83	47 - 138	13	30
Carbon disulfide	0.0500	0.0458		mg/Kg		92	70 - 129	15	30
Carbon tetrachloride	0.0500	0.0428		mg/Kg		86	75 - 125	16	30
Chlorobenzene	0.0500	0.0436		mg/Kg		87	50 - 150	18	30
Chloroethane	0.0500	0.0402		mg/Kg		80	75 - 125	10	30
Chloroform	0.0500	0.0454		mg/Kg		91	57 - 135	16	30
Chloromethane	0.0500	0.0417		mg/Kg		83	70 - 125	7	30
cis-1,2-Dichloroethene	0.0500	0.0436		mg/Kg		87	70 - 125	18	30
cis-1,3-Dichloropropene	0.0500	0.0467		mg/Kg		93	70 - 125	18	30
Dibromochloromethane	0.0500	0.0427		mg/Kg		85	69 - 125	19	30
1,1-Dichloroethane	0.0500	0.0444		mg/Kg		89	70 - 125	17	30
1,2-Dichloroethane	0.0500	0.0457		mg/Kg		91	70 - 130	20	30
1,1-Dichloroethene	0.0500	0.0439		mg/Kg		88	70 - 120	14	30
1,2-Dichloropropane	0.0500	0.0467		mg/Kg		93	70 - 125	19	30
Ethylbenzene	0.0500	0.0452		mg/Kg		90	61 - 136	18	30
2-Hexanone	0.0500	0.0396		mg/Kg		79	48 - 146	23	30
Methylene Chloride	0.0500	0.0427		mg/Kg		85	70 - 126	17	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0384		mg/Kg		77	50 - 148	19	30
Methyl tert-butyl ether	0.0500	0.0429		mg/Kg		86	50 - 140	19	30
Styrene	0.0500	0.0458		mg/Kg		92	70 - 125	21	30
1,1,2,2-Tetrachloroethane	0.0500	0.0462		mg/Kg		92	70 - 122	22	30
Tetrachloroethene	0.0500	0.0419		mg/Kg		84	70 - 124	16	30
Toluene	0.0500	0.0452		mg/Kg		90	70 - 125	18	30
trans-1,2-Dichloroethene	0.0500	0.0443		mg/Kg		89	70 - 125	16	30
trans-1,3-Dichloropropene	0.0500	0.0474		mg/Kg		95	70 - 125	22	30
1,1,1-Trichloroethane	0.0500	0.0442		mg/Kg		88	70 - 128	16	30
1,1,2-Trichloroethane	0.0500	0.0447		mg/Kg		89	70 - 125	18	30
Trichloroethene	0.0500	0.0424		mg/Kg		85	70 - 125	17	30
Vinyl acetate	0.0500	0.0416		mg/Kg		83	40 - 153	14	30
Vinyl chloride	0.0500	0.0380		mg/Kg		76	70 - 125	12	30
Xylenes, Total	0.100	0.0898		mg/Kg		90	53 - 147	18	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	104		75 - 131
Dibromofluoromethane	94		75 - 126
1,2-Dichloroethane-d4 (Surr)	100		70 - 134
Toluene-d8 (Surr)	108		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

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

Lab Sample ID: MB 500-687684/1-A
Matrix: Solid
Analysis Batch: 688419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687684

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Carbazole	<0.17		0.17	0.083	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Isophorone	<0.17		0.17	0.037	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		12/01/22 08:54	12/06/22 11:20	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

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

Lab Sample ID: MB 500-687684/1-A
Matrix: Solid
Analysis Batch: 688419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687684

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Phenol	<0.17		0.17	0.074	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		12/01/22 08:54	12/06/22 11:20	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		12/01/22 08:54	12/06/22 11:20	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl (Surr)	110		43 - 145	12/01/22 08:54	12/06/22 11:20	1
2-Fluorophenol (Surr)	109		31 - 166	12/01/22 08:54	12/06/22 11:20	1
Nitrobenzene-d5 (Surr)	117		37 - 147	12/01/22 08:54	12/06/22 11:20	1
Phenol-d5 (Surr)	116		30 - 153	12/01/22 08:54	12/06/22 11:20	1
Terphenyl-d14 (Surr)	135		42 - 157	12/01/22 08:54	12/06/22 11:20	1
2,4,6-Tribromophenol (Surr)	79		31 - 143	12/01/22 08:54	12/06/22 11:20	1

Lab Sample ID: LCS 500-687684/2-A
Matrix: Solid
Analysis Batch: 688419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687684

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	1.33	1.28		mg/Kg		96	68 - 120
Anthracene	1.33	1.20		mg/Kg		90	70 - 114
Benzo[a]anthracene	1.33	1.35		mg/Kg		101	67 - 122
Benzo[a]pyrene	1.33	1.26		mg/Kg		94	65 - 133
Benzo[b]fluoranthene	1.33	1.26		mg/Kg		94	69 - 129
Benzo[g,h,i]perylene	1.33	1.35		mg/Kg		101	72 - 131
Benzo[k]fluoranthene	1.33	1.14		mg/Kg		86	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.35		mg/Kg		101	60 - 112
Bis(2-chloroethyl)ether	1.33	1.29		mg/Kg		97	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.59		mg/Kg		120	72 - 131
4-Bromophenyl phenyl ether	1.33	1.22		mg/Kg		91	68 - 118
Butyl benzyl phthalate	1.33	1.54		mg/Kg		115	71 - 129
Carbazole	1.33	1.34		mg/Kg		100	65 - 142
4-Chloroaniline	1.33	0.790		mg/Kg		59	30 - 150
4-Chloro-3-methylphenol	1.33	1.43		mg/Kg		107	65 - 122
2-Chloronaphthalene	1.33	1.24		mg/Kg		93	69 - 114
2-Chlorophenol	1.33	1.36		mg/Kg		102	64 - 110

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

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

Lab Sample ID: LCS 500-687684/2-A

Matrix: Solid

Analysis Batch: 688419

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 687684

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chlorophenyl phenyl ether	1.33	1.23		mg/Kg		92	62 - 119
Chrysene	1.33	1.31		mg/Kg		98	63 - 120
Dibenz(a,h)anthracene	1.33	1.38		mg/Kg		104	64 - 131
Dibenzofuran	1.33	1.26		mg/Kg		95	66 - 115
1,2-Dichlorobenzene	1.33	1.22		mg/Kg		91	62 - 110
1,3-Dichlorobenzene	1.33	1.16		mg/Kg		87	65 - 124
1,4-Dichlorobenzene	1.33	1.17		mg/Kg		88	61 - 110
3,3'-Dichlorobenzidine	1.33	0.889		mg/Kg		67	35 - 128
2,4-Dichlorophenol	1.33	1.15		mg/Kg		86	58 - 120
Diethyl phthalate	1.33	1.27		mg/Kg		95	58 - 120
2,4-Dimethylphenol	1.33	1.29		mg/Kg		97	60 - 110
Dimethyl phthalate	1.33	1.26		mg/Kg		94	69 - 116
Di-n-butyl phthalate	1.33	1.31		mg/Kg		98	65 - 120
4,6-Dinitro-2-methylphenol	2.67	1.65		mg/Kg		62	10 - 110
2,4-Dinitrophenol	2.67	1.17		mg/Kg		44	10 - 100
2,4-Dinitrotoluene	1.33	1.39		mg/Kg		104	69 - 124
2,6-Dinitrotoluene	1.33	1.34		mg/Kg		101	70 - 123
Di-n-octyl phthalate	1.33	1.36		mg/Kg		102	68 - 134
Fluoranthene	1.33	1.29		mg/Kg		96	62 - 120
Fluorene	1.33	1.27		mg/Kg		95	62 - 120
Hexachlorobenzene	1.33	1.17		mg/Kg		88	63 - 124
Hexachlorobutadiene	1.33	1.06		mg/Kg		79	56 - 120
Hexachlorocyclopentadiene	1.33	0.239	J	mg/Kg		18	10 - 133
Hexachloroethane	1.33	1.21		mg/Kg		91	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.44		mg/Kg		108	68 - 130
Isophorone	1.33	1.31		mg/Kg		98	55 - 110
2-Methylnaphthalene	1.33	1.20		mg/Kg		90	69 - 112
2-Methylphenol	1.33	1.54		mg/Kg		115	60 - 120
3 & 4 Methylphenol	1.33	1.51		mg/Kg		114	57 - 120
Naphthalene	1.33	1.21		mg/Kg		91	63 - 110
2-Nitroaniline	1.33	1.59		mg/Kg		119	57 - 124
3-Nitroaniline	1.33	0.638		mg/Kg		48	40 - 122
4-Nitroaniline	1.33	1.10		mg/Kg		82	60 - 160
Nitrobenzene	1.33	1.37		mg/Kg		102	60 - 116
2-Nitrophenol	1.33	1.34		mg/Kg		100	60 - 120
4-Nitrophenol	2.67	2.38		mg/Kg		89	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.43		mg/Kg		107	56 - 118
N-Nitrosodiphenylamine	1.33	1.25		mg/Kg		94	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.19		mg/Kg		89	40 - 124
Pentachlorophenol	2.67	1.84		mg/Kg		69	13 - 112
Phenanthrene	1.33	1.25		mg/Kg		94	62 - 120
Phenol	1.33	1.31		mg/Kg		98	56 - 122
Pyrene	1.33	1.49		mg/Kg		112	61 - 128
1,2,4-Trichlorobenzene	1.33	1.16		mg/Kg		87	66 - 117
2,4,5-Trichlorophenol	1.33	1.16		mg/Kg		87	50 - 120
2,4,6-Trichlorophenol	1.33	1.26		mg/Kg		95	57 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

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

Lab Sample ID: LCS 500-687684/2-A
Matrix: Solid
Analysis Batch: 688419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687684

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	96		43 - 145
2-Fluorophenol (Surr)	100		31 - 166
Nitrobenzene-d5 (Surr)	103		37 - 147
Phenol-d5 (Surr)	101		30 - 153
Terphenyl-d14 (Surr)	112		42 - 157
2,4,6-Tribromophenol (Surr)	86		31 - 143

Lab Sample ID: 500-225658-1 MS
Matrix: Solid
Analysis Batch: 688419

Client Sample ID: 1401V3-04-B06 (0-6)
Prep Type: Total/NA
Prep Batch: 687684

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	0.019	J	1.57	1.55		mg/Kg	✱	97	65 - 124
Acenaphthylene	<0.039		1.57	1.54		mg/Kg	✱	98	68 - 120
Anthracene	0.014	J	1.57	1.60		mg/Kg	✱	101	70 - 114
Benzo[a]anthracene	0.065		1.57	1.76		mg/Kg	✱	108	67 - 122
Benzo[a]pyrene	0.083		1.57	1.59		mg/Kg	✱	96	65 - 133
Benzo[b]fluoranthene	0.12		1.57	1.70		mg/Kg	✱	101	69 - 129
Benzo[g,h,i]perylene	0.040	F1	1.57	1.04	F1	mg/Kg	✱	63	72 - 131
Benzo[k]fluoranthene	0.040		1.57	1.72		mg/Kg	✱	107	68 - 127
Bis(2-chloroethoxy)methane	<0.20	F1	1.57	1.62		mg/Kg	✱	103	60 - 112
Bis(2-chloroethyl)ether	<0.20	F1	1.57	1.46		mg/Kg	✱	93	55 - 111
Bis(2-ethylhexyl) phthalate	<0.20	F1	1.57	2.03		mg/Kg	✱	129	72 - 131
4-Bromophenyl phenyl ether	<0.20		1.57	1.51		mg/Kg	✱	96	68 - 118
Butyl benzyl phthalate	<0.20	F1	1.57	1.95		mg/Kg	✱	124	71 - 129
Carbazole	<0.20		1.57	1.69		mg/Kg	✱	108	65 - 142
4-Chloroaniline	<0.79		1.57	1.31		mg/Kg	✱	83	30 - 150
4-Chloro-3-methylphenol	<0.39	F1	1.57	1.77		mg/Kg	✱	113	65 - 122
2-Chloronaphthalene	<0.20		1.57	1.45		mg/Kg	✱	92	69 - 114
2-Chlorophenol	<0.20	F1	1.57	1.58		mg/Kg	✱	100	64 - 110
4-Chlorophenyl phenyl ether	<0.20		1.57	1.49		mg/Kg	✱	94	62 - 119
Chrysene	0.077		1.57	1.72		mg/Kg	✱	104	63 - 120
Dibenz(a,h)anthracene	0.010	J	1.57	1.18		mg/Kg	✱	74	64 - 131
Dibenzofuran	<0.20		1.57	1.56		mg/Kg	✱	99	66 - 115
1,2-Dichlorobenzene	<0.20		1.57	1.31		mg/Kg	✱	83	62 - 110
1,3-Dichlorobenzene	<0.20		1.57	1.23		mg/Kg	✱	78	60 - 110
1,4-Dichlorobenzene	<0.20		1.57	1.28		mg/Kg	✱	81	61 - 110
3,3'-Dichlorobenzidine	<0.20		1.57	1.26		mg/Kg	✱	80	35 - 128
2,4-Dichlorophenol	<0.39		1.57	1.41		mg/Kg	✱	90	58 - 120
Diethyl phthalate	<0.20		1.57	1.53		mg/Kg	✱	98	58 - 120
2,4-Dimethylphenol	<0.39	F1	1.57	1.58		mg/Kg	✱	100	60 - 110
Dimethyl phthalate	<0.20		1.57	1.50		mg/Kg	✱	96	69 - 116
Di-n-butyl phthalate	<0.20		1.57	1.62		mg/Kg	✱	103	65 - 120
4,6-Dinitro-2-methylphenol	<0.79		3.15	1.63		mg/Kg	✱	52	10 - 110
2,4-Dinitrophenol	<0.79		3.15	1.39		mg/Kg	✱	44	10 - 100
2,4-Dinitrotoluene	<0.20		1.57	1.72		mg/Kg	✱	109	69 - 124
2,6-Dinitrotoluene	<0.20		1.57	1.63		mg/Kg	✱	103	70 - 123
Di-n-octyl phthalate	<0.20		1.57	1.58		mg/Kg	✱	101	68 - 134

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

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

Lab Sample ID: 500-225658-1 MS
Matrix: Solid
Analysis Batch: 688419

Client Sample ID: 1401V3-04-B06 (0-6)
Prep Type: Total/NA
Prep Batch: 687684

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Fluoranthene	0.072		1.57	1.60		mg/Kg	☼	97	62 - 120	
Fluorene	0.018	J	1.57	1.57		mg/Kg	☼	99	62 - 120	
Hexachlorobenzene	<0.079		1.57	1.53		mg/Kg	☼	97	63 - 124	
Hexachlorobutadiene	<0.20		1.57	1.16		mg/Kg	☼	74	56 - 120	
Hexachlorocyclopentadiene	<0.79	F1	1.57	<0.79	F1	mg/Kg	☼	0	10 - 133	
Hexachloroethane	<0.20		1.57	1.15		mg/Kg	☼	73	60 - 114	
Indeno[1,2,3-cd]pyrene	0.041		1.57	1.22		mg/Kg	☼	75	68 - 130	
Isophorone	<0.20	F1	1.57	1.57		mg/Kg	☼	100	55 - 110	
2-Methylnaphthalene	<0.079		1.57	1.42		mg/Kg	☼	90	69 - 112	
2-Methylphenol	<0.20	F1	1.57	1.83		mg/Kg	☼	116	60 - 120	
3 & 4 Methylphenol	<0.20	F1	1.57	1.81		mg/Kg	☼	115	57 - 120	
Naphthalene	<0.039		1.57	1.41		mg/Kg	☼	89	63 - 110	
2-Nitroaniline	<0.20	F1	1.57	1.90		mg/Kg	☼	121	57 - 124	
3-Nitroaniline	<0.39		1.57	1.39		mg/Kg	☼	88	40 - 122	
4-Nitroaniline	<0.39		1.57	1.49		mg/Kg	☼	95	60 - 160	
Nitrobenzene	<0.039	F1	1.57	1.60		mg/Kg	☼	101	60 - 116	
2-Nitrophenol	<0.39		1.57	1.58		mg/Kg	☼	100	60 - 120	
4-Nitrophenol	<0.79		3.15	3.25		mg/Kg	☼	103	30 - 122	
N-Nitrosodi-n-propylamine	<0.079	F1	1.57	1.69		mg/Kg	☼	107	56 - 118	
N-Nitrosodiphenylamine	<0.20	F1	1.57	1.58		mg/Kg	☼	101	65 - 112	
2,2'-oxybis[1-chloropropane]	<0.20		1.57	1.37		mg/Kg	☼	87	40 - 124	
Pentachlorophenol	<0.79		3.15	2.46		mg/Kg	☼	78	13 - 112	
Phenanthrene	0.041		1.57	1.60		mg/Kg	☼	99	62 - 120	
Phenol	<0.20		1.57	1.51		mg/Kg	☼	96	56 - 122	
Pyrene	0.095	F1	1.57	1.99		mg/Kg	☼	121	61 - 128	
1,2,4-Trichlorobenzene	<0.20		1.57	1.32		mg/Kg	☼	84	66 - 117	
2,4,5-Trichlorophenol	<0.39		1.57	1.49		mg/Kg	☼	95	50 - 120	
2,4,6-Trichlorophenol	<0.39		1.57	1.60		mg/Kg	☼	102	57 - 120	

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	97		43 - 145
2-Fluorophenol (Surr)	108		31 - 166
Nitrobenzene-d5 (Surr)	105		37 - 147
Phenol-d5 (Surr)	101		30 - 153
Terphenyl-d14 (Surr)	127		42 - 157
2,4,6-Tribromophenol (Surr)	97		31 - 143

Lab Sample ID: 500-225658-1 MSD
Matrix: Solid
Analysis Batch: 688419

Client Sample ID: 1401V3-04-B06 (0-6)
Prep Type: Total/NA
Prep Batch: 687684

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Acenaphthene	0.019	J	1.60	1.79		mg/Kg	☼	111	65 - 124	14	30	
Acenaphthylene	<0.039		1.60	1.78		mg/Kg	☼	112	68 - 120	14	30	
Anthracene	0.014	J	1.60	1.81		mg/Kg	☼	112	70 - 114	12	30	
Benzo[a]anthracene	0.065		1.60	1.95		mg/Kg	☼	118	67 - 122	10	30	
Benzo[a]pyrene	0.083		1.60	1.79		mg/Kg	☼	107	65 - 133	12	30	
Benzo[b]fluoranthene	0.12		1.60	2.08		mg/Kg	☼	123	69 - 129	20	30	

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

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

Lab Sample ID: 500-225658-1 MSD

Matrix: Solid

Analysis Batch: 688419

Client Sample ID: 1401V3-04-B06 (0-6)

Prep Type: Total/NA

Prep Batch: 687684

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Benzo[g,h,i]perylene	0.040	F1	1.60	1.08	F1	mg/Kg	☼	65	72 - 131	4	30
Benzo[k]fluoranthene	0.040		1.60	1.96		mg/Kg	☼	120	68 - 127	13	30
Bis(2-chloroethoxy)methane	<0.20	F1	1.60	1.87	F1	mg/Kg	☼	117	60 - 112	14	30
Bis(2-chloroethyl)ether	<0.20	F1	1.60	1.84	F1	mg/Kg	☼	116	55 - 111	23	30
Bis(2-ethylhexyl) phthalate	<0.20	F1	1.60	2.25	F1	mg/Kg	☼	141	72 - 131	11	30
4-Bromophenyl phenyl ether	<0.20		1.60	1.74		mg/Kg	☼	109	68 - 118	14	30
Butyl benzyl phthalate	<0.20	F1	1.60	2.18	F1	mg/Kg	☼	137	71 - 129	11	30
Carbazole	<0.20		1.60	1.89		mg/Kg	☼	118	65 - 142	11	30
4-Chloroaniline	<0.79		1.60	1.38		mg/Kg	☼	87	30 - 150	6	30
4-Chloro-3-methylphenol	<0.39	F1	1.60	2.02	F1	mg/Kg	☼	127	65 - 122	13	30
2-Chloronaphthalene	<0.20		1.60	1.68		mg/Kg	☼	105	69 - 114	15	30
2-Chlorophenol	<0.20	F1	1.60	1.85	F1	mg/Kg	☼	116	64 - 110	16	30
4-Chlorophenyl phenyl ether	<0.20		1.60	1.72		mg/Kg	☼	108	62 - 119	15	30
Chrysene	0.077		1.60	1.93		mg/Kg	☼	116	63 - 120	12	30
Dibenz(a,h)anthracene	0.010	J	1.60	1.25		mg/Kg	☼	78	64 - 131	6	30
Dibenzofuran	<0.20		1.60	1.78		mg/Kg	☼	111	66 - 115	13	30
1,2-Dichlorobenzene	<0.20		1.60	1.63		mg/Kg	☼	102	62 - 110	21	30
1,3-Dichlorobenzene	<0.20		1.60	1.56		mg/Kg	☼	98	60 - 110	23	30
1,4-Dichlorobenzene	<0.20		1.60	1.57		mg/Kg	☼	98	61 - 110	20	30
3,3'-Dichlorobenzidine	<0.20		1.60	1.43		mg/Kg	☼	89	35 - 128	13	30
2,4-Dichlorophenol	<0.39		1.60	1.63		mg/Kg	☼	102	58 - 120	14	30
Diethyl phthalate	<0.20		1.60	1.76		mg/Kg	☼	110	58 - 120	14	30
2,4-Dimethylphenol	<0.39	F1	1.60	1.83	F1	mg/Kg	☼	115	60 - 110	15	30
Dimethyl phthalate	<0.20		1.60	1.73		mg/Kg	☼	108	69 - 116	14	30
Di-n-butyl phthalate	<0.20		1.60	1.80		mg/Kg	☼	113	65 - 120	11	30
4,6-Dinitro-2-methylphenol	<0.79		3.19	1.26		mg/Kg	☼	40	10 - 110	25	30
2,4-Dinitrophenol	<0.79		3.19	1.15		mg/Kg	☼	36	10 - 100	19	30
2,4-Dinitrotoluene	<0.20		1.60	1.93		mg/Kg	☼	121	69 - 124	12	30
2,6-Dinitrotoluene	<0.20		1.60	1.84		mg/Kg	☼	115	70 - 123	12	30
Di-n-octyl phthalate	<0.20		1.60	1.76		mg/Kg	☼	111	68 - 134	11	30
Fluoranthene	0.072		1.60	1.87		mg/Kg	☼	112	62 - 120	15	30
Fluorene	0.018	J	1.60	1.77		mg/Kg	☼	110	62 - 120	12	30
Hexachlorobenzene	<0.079		1.60	1.73		mg/Kg	☼	108	63 - 124	12	30
Hexachlorobutadiene	<0.20		1.60	1.42		mg/Kg	☼	89	56 - 120	20	30
Hexachlorocyclopentadiene	<0.79	F1	1.60	<0.80	F1	mg/Kg	☼	0	10 - 133	NC	30
Hexachloroethane	<0.20		1.60	1.37		mg/Kg	☼	86	60 - 114	18	30
Indeno[1,2,3-cd]pyrene	0.041		1.60	1.29		mg/Kg	☼	78	68 - 130	6	30
Isophorone	<0.20	F1	1.60	1.84	F1	mg/Kg	☼	115	55 - 110	16	30
2-Methylnaphthalene	<0.079		1.60	1.67		mg/Kg	☼	105	69 - 112	16	30
2-Methylphenol	<0.20	F1	1.60	2.13	F1	mg/Kg	☼	134	60 - 120	15	30
3 & 4 Methylphenol	<0.20	F1	1.60	2.06	F1	mg/Kg	☼	129	57 - 120	13	30
Naphthalene	<0.039		1.60	1.67		mg/Kg	☼	105	63 - 110	17	30
2-Nitroaniline	<0.20	F1	1.60	2.21	F1	mg/Kg	☼	139	57 - 124	15	30
3-Nitroaniline	<0.39		1.60	1.59		mg/Kg	☼	100	40 - 122	14	30
4-Nitroaniline	<0.39		1.60	1.71		mg/Kg	☼	107	60 - 160	14	30
Nitrobenzene	<0.039	F1	1.60	1.90	F1	mg/Kg	☼	119	60 - 116	17	30
2-Nitrophenol	<0.39		1.60	1.80		mg/Kg	☼	113	60 - 120	13	30
4-Nitrophenol	<0.79		3.19	3.62		mg/Kg	☼	113	30 - 122	11	30
N-Nitrosodi-n-propylamine	<0.079	F1	1.60	1.94	F1	mg/Kg	☼	122	56 - 118	14	30

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

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

Lab Sample ID: 500-225658-1 MSD

Client Sample ID: 1401V3-04-B06 (0-6)

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 688419

Prep Batch: 687684

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
N-Nitrosodiphenylamine	<0.20	F1	1.60	1.80	F1	mg/Kg	☼	113	65 - 112	13	30	
2,2'-oxybis[1-chloropropane]	<0.20		1.60	1.62		mg/Kg	☼	101	40 - 124	17	30	
Pentachlorophenol	<0.79		3.19	2.39		mg/Kg	☼	75	13 - 112	3	30	
Phenanthrene	0.041		1.60	1.83		mg/Kg	☼	112	62 - 120	13	30	
Phenol	<0.20		1.60	1.78		mg/Kg	☼	111	56 - 122	16	30	
Pyrene	0.095	F1	1.60	2.28	F1	mg/Kg	☼	137	61 - 128	14	30	
1,2,4-Trichlorobenzene	<0.20		1.60	1.58		mg/Kg	☼	99	66 - 117	18	30	
2,4,5-Trichlorophenol	<0.39		1.60	1.75		mg/Kg	☼	110	50 - 120	16	30	
2,4,6-Trichlorophenol	<0.39		1.60	1.83		mg/Kg	☼	115	57 - 120	13	30	
MSD MSD												
Surrogate	%Recovery	Qualifier	Limits									
2-Fluorobiphenyl (Surr)	102		43 - 145									
2-Fluorophenol (Surr)	107		31 - 166									
Nitrobenzene-d5 (Surr)	109		37 - 147									
Phenol-d5 (Surr)	108		30 - 153									
Terphenyl-d14 (Surr)	131		42 - 157									
2,4,6-Tribromophenol (Surr)	100		31 - 143									

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-687795/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 688504

Prep Batch: 687795

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		12/01/22 16:18	12/06/22 11:15	1
Arsenic	<1.0		1.0	0.34	mg/Kg		12/01/22 16:18	12/06/22 11:15	1
Barium	<1.0		1.0	0.11	mg/Kg		12/01/22 16:18	12/06/22 11:15	1
Beryllium	<0.40		0.40	0.093	mg/Kg		12/01/22 16:18	12/06/22 11:15	1
Boron	<5.0		5.0	0.47	mg/Kg		12/01/22 16:18	12/06/22 11:15	1
Cadmium	0.0364	J	0.20	0.036	mg/Kg		12/01/22 16:18	12/06/22 11:15	1
Calcium	5.24	J	20	3.4	mg/Kg		12/01/22 16:18	12/06/22 11:15	1
Chromium	<1.0		1.0	0.50	mg/Kg		12/01/22 16:18	12/06/22 11:15	1
Cobalt	<0.50		0.50	0.13	mg/Kg		12/01/22 16:18	12/06/22 11:15	1
Copper	<1.0		1.0	0.28	mg/Kg		12/01/22 16:18	12/06/22 11:15	1
Iron	<20		20	10	mg/Kg		12/01/22 16:18	12/06/22 11:15	1
Lead	<0.50		0.50	0.23	mg/Kg		12/01/22 16:18	12/06/22 11:15	1
Magnesium	<10		10	5.0	mg/Kg		12/01/22 16:18	12/06/22 11:15	1
Manganese	<1.0		1.0	0.15	mg/Kg		12/01/22 16:18	12/06/22 11:15	1
Nickel	<1.0		1.0	0.29	mg/Kg		12/01/22 16:18	12/06/22 11:15	1
Potassium	<50		50	18	mg/Kg		12/01/22 16:18	12/06/22 11:15	1
Selenium	<1.0		1.0	0.59	mg/Kg		12/01/22 16:18	12/06/22 11:15	1
Silver	<0.50		0.50	0.13	mg/Kg		12/01/22 16:18	12/06/22 11:15	1
Sodium	<100		100	15	mg/Kg		12/01/22 16:18	12/06/22 11:15	1
Thallium	<1.0		1.0	0.50	mg/Kg		12/01/22 16:18	12/06/22 11:15	1
Vanadium	<0.50		0.50	0.12	mg/Kg		12/01/22 16:18	12/06/22 11:15	1
Zinc	<2.0		2.0	0.88	mg/Kg		12/01/22 16:18	12/06/22 11:15	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-687795/2-A
Matrix: Solid
Analysis Batch: 688504

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687795

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	46.4		mg/Kg		93	80 - 120
Arsenic	10.0	9.44		mg/Kg		94	80 - 120
Barium	200	201		mg/Kg		101	80 - 120
Beryllium	5.00	4.55		mg/Kg		91	80 - 120
Boron	100	86.4		mg/Kg		86	80 - 120
Cadmium	5.00	4.62		mg/Kg		92	80 - 120
Calcium	1000	951		mg/Kg		95	80 - 120
Chromium	20.0	19.3		mg/Kg		97	80 - 120
Cobalt	50.0	49.7		mg/Kg		99	80 - 120
Copper	25.0	24.9		mg/Kg		99	80 - 120
Iron	100	102		mg/Kg		102	80 - 120
Lead	10.0	9.42		mg/Kg		94	80 - 120
Magnesium	1000	926		mg/Kg		93	80 - 120
Manganese	50.0	46.4		mg/Kg		93	80 - 120
Nickel	50.0	48.2		mg/Kg		96	80 - 120
Potassium	1000	980		mg/Kg		98	80 - 120
Selenium	10.0	8.31		mg/Kg		83	80 - 120
Silver	5.00	4.35		mg/Kg		87	80 - 120
Sodium	1000	1000		mg/Kg		100	80 - 120
Thallium	10.0	9.11		mg/Kg		91	80 - 120
Vanadium	50.0	49.0		mg/Kg		98	80 - 120
Zinc	50.0	47.1		mg/Kg		94	80 - 120

Lab Sample ID: LCS 500-687985/2-A
Matrix: Solid
Analysis Batch: 688435

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687985

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.535		mg/L		107	80 - 120
Beryllium	0.0500	0.0493		mg/L		99	80 - 120
Boron	1.00	1.60	*+	mg/L		160	80 - 120
Cadmium	0.0500	0.0531		mg/L		106	80 - 120
Chromium	0.200	0.188		mg/L		94	80 - 120
Cobalt	0.500	0.504		mg/L		101	80 - 120
Iron	1.00	0.903		mg/L		90	80 - 120
Lead	0.100	0.0909		mg/L		91	80 - 120
Manganese	0.500	0.474		mg/L		95	80 - 120
Nickel	0.500	0.490		mg/L		98	80 - 120
Selenium	0.100	0.116		mg/L		116	80 - 120
Silver	0.0500	0.0527		mg/L		105	80 - 120
Zinc	0.500	0.516		mg/L		103	80 - 120

Lab Sample ID: LCS 500-687988/2-A
Matrix: Solid
Analysis Batch: 688870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687988

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.100	0.0960		mg/L		96	80 - 120
Manganese	0.500	0.498		mg/L		100	80 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Method: 6010B - Metals (ICP)

Lab Sample ID: LB 500-687762/1-B
Matrix: Solid
Analysis Batch: 688435

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 687985

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		12/02/22 15:04	12/05/22 15:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/02/22 15:04	12/05/22 15:25	1
Boron	0.669	J	1.0	0.050	mg/L		12/02/22 15:04	12/05/22 15:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/02/22 15:04	12/05/22 15:25	1
Chromium	<0.025		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 15:25	1
Cobalt	<0.025		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 15:25	1
Iron	<0.40		0.40	0.20	mg/L		12/02/22 15:04	12/05/22 15:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/02/22 15:04	12/05/22 15:25	1
Manganese	<0.025		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 15:25	1
Nickel	<0.025		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 15:25	1
Selenium	<0.050		0.050	0.020	mg/L		12/02/22 15:04	12/05/22 15:25	1
Silver	<0.025		0.025	0.010	mg/L		12/02/22 15:04	12/05/22 15:25	1
Zinc	<0.50		0.50	0.020	mg/L		12/02/22 15:04	12/05/22 15:25	1

Lab Sample ID: LB 500-687772/1-B
Matrix: Solid
Analysis Batch: 688870

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 687988

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		12/02/22 15:12	12/07/22 21:10	1
Manganese	<0.025		0.025	0.010	mg/L		12/02/22 15:12	12/07/22 21:10	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-687985/2-A
Matrix: Solid
Analysis Batch: 688456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687985

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.666	*+	mg/L		133	80 - 120
Thallium	0.100	0.118		mg/L		118	80 - 120

Lab Sample ID: LB 500-687762/1-B
Matrix: Solid
Analysis Batch: 688456

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 687985

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/02/22 15:04	12/05/22 14:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/02/22 15:04	12/05/22 14:58	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-687994/12-A
Matrix: Solid
Analysis Batch: 688267

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687994

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 16:00	12/05/22 12:09	1

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LCS 500-687994/14-A
Matrix: Solid
Analysis Batch: 688267

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687994

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00198		mg/L		100	80 - 120

Lab Sample ID: LB 500-687762/2-B
Matrix: Solid
Analysis Batch: 688267

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 687994

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 16:00	12/05/22 12:11	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-688234/12-A
Matrix: Solid
Analysis Batch: 688451

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 688234

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		12/05/22 15:45	12/06/22 07:39	1

Lab Sample ID: LCS 500-688234/13-A
Matrix: Solid
Analysis Batch: 688451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 688234

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.161		mg/Kg		97	80 - 120

Lab Sample ID: 500-225658-5 MS
Matrix: Solid
Analysis Batch: 688451

Client Sample ID: 1401V3-04-B03 (0-6)
Prep Type: Total/NA
Prep Batch: 688234

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.039		0.102	0.151		mg/Kg	☼	110	75 - 125

Lab Sample ID: 500-225658-5 MSD
Matrix: Solid
Analysis Batch: 688451

Client Sample ID: 1401V3-04-B03 (0-6)
Prep Type: Total/NA
Prep Batch: 688234

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.039		0.102	0.145		mg/Kg	☼	103	75 - 125	4	20

Lab Sample ID: 500-225658-5 DU
Matrix: Solid
Analysis Batch: 688451

Client Sample ID: 1401V3-04-B03 (0-6)
Prep Type: Total/NA
Prep Batch: 688234

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.039		0.102	0.0403		mg/Kg	☼			3	20

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B06 (0-6)

Lab Sample ID: 500-225658-1

Date Collected: 11/17/22 10:10

Matrix: Solid

Date Received: 11/17/22 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			687772	EA	EET CHI	12/01/22 10:25 - 12/02/22 04:25 ¹
SPLP East	Prep	3010A			687988	RN	EET CHI	12/02/22 15:12 - 12/02/22 15:42 ¹
SPLP East	Analysis	6010B		1	688870	JJB	EET CHI	12/07/22 21:17
TCLP	Leach	1311			687762	EA	EET CHI	12/01/22 14:19 - 12/02/22 08:19 ¹
TCLP	Prep	3010A			687985	RN	EET CHI	12/02/22 15:04 - 12/02/22 15:34 ¹
TCLP	Analysis	6010B		1	688435	JJB	EET CHI	12/05/22 15:32
TCLP	Leach	1311			687762	EA	EET CHI	12/01/22 14:19 - 12/02/22 08:19 ¹
TCLP	Prep	3010A			687985	RN	EET CHI	12/02/22 15:04 - 12/02/22 15:34 ¹
TCLP	Analysis	6020A		1	688456	FXG	EET CHI	12/05/22 15:02
TCLP	Leach	1311			687762	EA	EET CHI	12/01/22 14:19 - 12/02/22 08:19 ¹
TCLP	Prep	7470A			687994	MJG	EET CHI	12/02/22 16:00 - 12/02/22 18:00 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 12:15
Total/NA	Analysis	9045D		1	686927	LWN	EET CHI	11/23/22 16:03
Total/NA	Analysis	Moisture		1	687349	LWN	EET CHI	11/29/22 15:58

Client Sample ID: 1401V3-04-B06 (0-6)

Lab Sample ID: 500-225658-1

Date Collected: 11/17/22 10:10

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			685985	WRE	EET CHI	11/18/22 16:51
Total/NA	Analysis	8260B		1	686850	W1T	EET CHI	11/26/22 17:20
Total/NA	Prep	3541			687684	KN	EET CHI	12/01/22 08:54 - 12/01/22 15:30 ¹
Total/NA	Analysis	8270D		1	688419	SS	EET CHI	12/06/22 12:03
Total/NA	Prep	3050B			687795	LMB	EET CHI	12/01/22 16:18 - 12/02/22 10:12 ¹
Total/NA	Analysis	6010B		1	688504	JJB	EET CHI	12/06/22 13:52
Total/NA	Prep	3050B			687795	LMB	EET CHI	12/01/22 16:18 - 12/02/22 10:12 ¹
Total/NA	Analysis	6010B		1	688666	JJB	EET CHI	12/07/22 00:48
Total/NA	Prep	7471B			688234	MJG	EET CHI	12/05/22 15:45
Total/NA	Analysis	7471B		1	688451	MJG	EET CHI	12/06/22 07:55

Client Sample ID: 1401V3-04-B05 (0-6)

Lab Sample ID: 500-225658-2

Date Collected: 11/17/22 10:25

Matrix: Solid

Date Received: 11/17/22 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			687772	EA	EET CHI	12/01/22 10:25 - 12/02/22 04:25 ¹
SPLP East	Prep	3010A			687988	RN	EET CHI	12/02/22 15:12 - 12/02/22 15:42 ¹
SPLP East	Analysis	6010B		1	688870	JJB	EET CHI	12/07/22 21:20
TCLP	Leach	1311			687762	EA	EET CHI	12/01/22 14:19 - 12/02/22 08:19 ¹
TCLP	Prep	3010A			687985	RN	EET CHI	12/02/22 15:04 - 12/02/22 15:34 ¹
TCLP	Analysis	6010B		1	688435	JJB	EET CHI	12/05/22 15:35
TCLP	Leach	1311			687762	EA	EET CHI	12/01/22 14:19 - 12/02/22 08:19 ¹
TCLP	Prep	3010A			687985	RN	EET CHI	12/02/22 15:04 - 12/02/22 15:34 ¹
TCLP	Analysis	6020A		1	688456	FXG	EET CHI	12/05/22 15:04

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B05 (0-6)

Lab Sample ID: 500-225658-2

Date Collected: 11/17/22 10:25

Matrix: Solid

Date Received: 11/17/22 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			687762	EA	EET CHI	12/01/22 14:19 - 12/02/22 08:19 ¹
TCLP	Prep	7470A			687994	MJG	EET CHI	12/02/22 16:00 - 12/02/22 18:00 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 12:17
Total/NA	Analysis	9045D		1	686927	LWN	EET CHI	11/23/22 16:06
Total/NA	Analysis	Moisture		1	687349	LWN	EET CHI	11/29/22 15:58

Client Sample ID: 1401V3-04-B05 (0-6)

Lab Sample ID: 500-225658-2

Date Collected: 11/17/22 10:25

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			685985	WRE	EET CHI	11/18/22 16:51
Total/NA	Analysis	8260B		1	686850	W1T	EET CHI	11/26/22 17:45
Total/NA	Prep	3541			687684	KN	EET CHI	12/01/22 08:54 - 12/01/22 15:30 ¹
Total/NA	Analysis	8270D		1	688419	SS	EET CHI	12/06/22 13:07
Total/NA	Prep	3050B			687795	LMB	EET CHI	12/01/22 16:18 - 12/02/22 10:12 ¹
Total/NA	Analysis	6010B		1	688504	JJB	EET CHI	12/06/22 13:55
Total/NA	Prep	3050B			687795	LMB	EET CHI	12/01/22 16:18 - 12/02/22 10:12 ¹
Total/NA	Analysis	6010B		1	688666	JJB	EET CHI	12/07/22 01:00
Total/NA	Prep	7471B			688234	MJG	EET CHI	12/05/22 15:45
Total/NA	Analysis	7471B		1	688451	MJG	EET CHI	12/06/22 07:57

Client Sample ID: 1401V3-04-B05 (0-6)Dup

Lab Sample ID: 500-225658-3

Date Collected: 11/17/22 10:27

Matrix: Solid

Date Received: 11/17/22 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			687772	EA	EET CHI	12/01/22 10:25 - 12/02/22 04:25 ¹
SPLP East	Prep	3010A			687988	RN	EET CHI	12/02/22 15:12 - 12/02/22 15:42 ¹
SPLP East	Analysis	6010B		1	688870	JJB	EET CHI	12/07/22 21:23
TCLP	Leach	1311			687762	EA	EET CHI	12/01/22 14:19 - 12/02/22 08:19 ¹
TCLP	Prep	3010A			687985	RN	EET CHI	12/02/22 15:04 - 12/02/22 15:34 ¹
TCLP	Analysis	6010B		1	688435	JJB	EET CHI	12/05/22 15:44
TCLP	Leach	1311			687762	EA	EET CHI	12/01/22 14:19 - 12/02/22 08:19 ¹
TCLP	Prep	3010A			687985	RN	EET CHI	12/02/22 15:04 - 12/02/22 15:34 ¹
TCLP	Analysis	6020A		1	688456	FXG	EET CHI	12/05/22 15:06
TCLP	Leach	1311			687762	EA	EET CHI	12/01/22 14:19 - 12/02/22 08:19 ¹
TCLP	Prep	7470A			687994	MJG	EET CHI	12/02/22 16:00 - 12/02/22 18:00 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 12:19
Total/NA	Analysis	9045D		1	686927	LWN	EET CHI	11/23/22 16:11
Total/NA	Analysis	Moisture		1	687349	LWN	EET CHI	11/29/22 15:58

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B05 (0-6)Dup

Lab Sample ID: 500-225658-3

Date Collected: 11/17/22 10:27

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			685985	WRE	EET CHI	11/18/22 16:51
Total/NA	Analysis	8260B		1	686850	W1T	EET CHI	11/26/22 18:10
Total/NA	Prep	3541			687684	KN	EET CHI	12/01/22 08:54 - 12/01/22 15:30 ¹
Total/NA	Analysis	8270D		1	688419	SS	EET CHI	12/06/22 13:28
Total/NA	Prep	3050B			687795	LMB	EET CHI	12/01/22 16:18 - 12/02/22 10:12 ¹
Total/NA	Analysis	6010B		1	688504	JJB	EET CHI	12/06/22 13:58
Total/NA	Prep	3050B			687795	LMB	EET CHI	12/01/22 16:18 - 12/02/22 10:12 ¹
Total/NA	Analysis	6010B		5	688666	JJB	EET CHI	12/07/22 01:03
Total/NA	Prep	7471B			688234	MJG	EET CHI	12/05/22 15:45
Total/NA	Analysis	7471B		1	688451	MJG	EET CHI	12/06/22 07:59

Client Sample ID: 1401V3-04-B04 (0-6)

Lab Sample ID: 500-225658-4

Date Collected: 11/17/22 11:05

Matrix: Solid

Date Received: 11/17/22 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			687772	EA	EET CHI	12/01/22 10:25 - 12/02/22 04:25 ¹
SPLP East	Prep	3010A			687988	RN	EET CHI	12/02/22 15:12 - 12/02/22 15:42 ¹
SPLP East	Analysis	6010B		1	688870	JJB	EET CHI	12/07/22 21:26
TCLP	Leach	1311			687762	EA	EET CHI	12/01/22 14:19 - 12/02/22 08:19 ¹
TCLP	Prep	3010A			687985	RN	EET CHI	12/02/22 15:04 - 12/02/22 15:34 ¹
TCLP	Analysis	6010B		1	688435	JJB	EET CHI	12/05/22 15:48
TCLP	Leach	1311			687762	EA	EET CHI	12/01/22 14:19 - 12/02/22 08:19 ¹
TCLP	Prep	3010A			687985	RN	EET CHI	12/02/22 15:04 - 12/02/22 15:34 ¹
TCLP	Analysis	6020A		1	688456	FXG	EET CHI	12/05/22 15:08
TCLP	Leach	1311			687762	EA	EET CHI	12/01/22 14:19 - 12/02/22 08:19 ¹
TCLP	Prep	7470A			687994	MJG	EET CHI	12/02/22 16:00 - 12/02/22 18:00 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 12:26
Total/NA	Analysis	9045D		1	686927	LWN	EET CHI	11/23/22 16:13
Total/NA	Analysis	Moisture		1	687349	LWN	EET CHI	11/29/22 15:58

Client Sample ID: 1401V3-04-B04 (0-6)

Lab Sample ID: 500-225658-4

Date Collected: 11/17/22 11:05

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			685985	WRE	EET CHI	11/18/22 16:51
Total/NA	Analysis	8260B		1	686850	W1T	EET CHI	11/26/22 18:35
Total/NA	Prep	3541			687684	KN	EET CHI	12/01/22 08:54 - 12/01/22 15:30 ¹
Total/NA	Analysis	8270D		1	688419	SS	EET CHI	12/06/22 13:50
Total/NA	Prep	3050B			687795	LMB	EET CHI	12/01/22 16:18 - 12/02/22 10:12 ¹
Total/NA	Analysis	6010B		1	688504	JJB	EET CHI	12/06/22 14:01
Total/NA	Prep	3050B			687795	LMB	EET CHI	12/01/22 16:18 - 12/02/22 10:12 ¹
Total/NA	Analysis	6010B		1	688666	JJB	EET CHI	12/07/22 01:06

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B04 (0-6)

Lab Sample ID: 500-225658-4

Date Collected: 11/17/22 11:05

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			688234	MJG	EET CHI	12/05/22 15:45
Total/NA	Analysis	7471B		1	688451	MJG	EET CHI	12/06/22 08:01

Client Sample ID: 1401V3-04-B03 (0-6)

Lab Sample ID: 500-225658-5

Date Collected: 11/17/22 11:20

Matrix: Solid

Date Received: 11/17/22 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			687772	EA	EET CHI	12/01/22 10:25 - 12/02/22 04:25 ¹
SPLP East	Prep	3010A			687988	RN	EET CHI	12/02/22 15:12 - 12/02/22 15:42 ¹
SPLP East	Analysis	6010B		1	688870	JJJ	EET CHI	12/07/22 21:29
TCLP	Leach	1311			687762	EA	EET CHI	12/01/22 14:19 - 12/02/22 08:19 ¹
TCLP	Prep	3010A			687985	RN	EET CHI	12/02/22 15:04 - 12/02/22 15:34 ¹
TCLP	Analysis	6010B		1	688435	JJJ	EET CHI	12/05/22 15:51
TCLP	Leach	1311			687762	EA	EET CHI	12/01/22 14:19 - 12/02/22 08:19 ¹
TCLP	Prep	3010A			687985	RN	EET CHI	12/02/22 15:04 - 12/02/22 15:34 ¹
TCLP	Analysis	6020A		1	688456	FXG	EET CHI	12/05/22 15:10
TCLP	Leach	1311			687762	EA	EET CHI	12/01/22 14:19 - 12/02/22 08:19 ¹
TCLP	Prep	7470A			687994	MJG	EET CHI	12/02/22 16:00 - 12/02/22 18:00 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 12:28
Total/NA	Analysis	9045D		1	686927	LWN	EET CHI	11/23/22 16:16
Total/NA	Analysis	Moisture		1	687349	LWN	EET CHI	11/29/22 15:58

Client Sample ID: 1401V3-04-B03 (0-6)

Lab Sample ID: 500-225658-5

Date Collected: 11/17/22 11:20

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			685985	WRE	EET CHI	11/18/22 16:51
Total/NA	Analysis	8260B		1	686850	W1T	EET CHI	11/26/22 19:01
Total/NA	Prep	3541			687684	KN	EET CHI	12/01/22 08:54 - 12/01/22 15:30 ¹
Total/NA	Analysis	8270D		1	688419	SS	EET CHI	12/06/22 14:11
Total/NA	Prep	3050B			687795	LMB	EET CHI	12/01/22 16:18 - 12/02/22 10:12 ¹
Total/NA	Analysis	6010B		1	688504	JJJ	EET CHI	12/06/22 14:04
Total/NA	Prep	3050B			687795	LMB	EET CHI	12/01/22 16:18 - 12/02/22 10:12 ¹
Total/NA	Analysis	6010B		1	688666	JJJ	EET CHI	12/07/22 01:10
Total/NA	Prep	7471B			688234	MJG	EET CHI	12/05/22 15:45
Total/NA	Analysis	7471B		1	688451	MJG	EET CHI	12/06/22 08:03

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B02 (0-2)

Lab Sample ID: 500-225658-6

Date Collected: 11/17/22 11:30

Matrix: Solid

Date Received: 11/17/22 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			687772	EA	EET CHI	12/01/22 10:25 - 12/02/22 04:25 ¹
SPLP East	Prep	3010A			687988	RN	EET CHI	12/02/22 15:12 - 12/02/22 15:42 ¹
SPLP East	Analysis	6010B		1	688870	JJB	EET CHI	12/07/22 21:32
TCLP	Leach	1311			687762	EA	EET CHI	12/01/22 14:19 - 12/02/22 08:19 ¹
TCLP	Prep	3010A			687985	RN	EET CHI	12/02/22 15:04 - 12/02/22 15:34 ¹
TCLP	Analysis	6010B		1	688435	JJB	EET CHI	12/05/22 15:54
TCLP	Leach	1311			687762	EA	EET CHI	12/01/22 14:19 - 12/02/22 08:19 ¹
TCLP	Prep	3010A			687985	RN	EET CHI	12/02/22 15:04 - 12/02/22 15:34 ¹
TCLP	Analysis	6020A		1	688456	FXG	EET CHI	12/05/22 15:12
TCLP	Leach	1311			687762	EA	EET CHI	12/01/22 14:19 - 12/02/22 08:19 ¹
TCLP	Prep	7470A			687994	MJG	EET CHI	12/02/22 16:00 - 12/02/22 18:00 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 12:30
Total/NA	Analysis	9045D		1	686927	LWN	EET CHI	11/23/22 16:18
Total/NA	Analysis	Moisture		1	687349	LWN	EET CHI	11/29/22 15:58

Client Sample ID: 1401V3-04-B02 (0-2)

Lab Sample ID: 500-225658-6

Date Collected: 11/17/22 11:30

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			685985	WRE	EET CHI	11/18/22 16:51
Total/NA	Analysis	8260B		1	686850	W1T	EET CHI	11/26/22 19:26
Total/NA	Prep	3541			687684	KN	EET CHI	12/01/22 08:54 - 12/01/22 15:30 ¹
Total/NA	Analysis	8270D		1	688419	SS	EET CHI	12/06/22 14:32
Total/NA	Prep	3050B			687795	LMB	EET CHI	12/01/22 16:18 - 12/02/22 10:12 ¹
Total/NA	Analysis	6010B		1	688504	JJB	EET CHI	12/06/22 14:08
Total/NA	Prep	3050B			687795	LMB	EET CHI	12/01/22 16:18 - 12/02/22 10:12 ¹
Total/NA	Analysis	6010B		1	688666	JJB	EET CHI	12/07/22 01:13
Total/NA	Prep	7471B			688234	MJG	EET CHI	12/05/22 15:45
Total/NA	Analysis	7471B		1	688451	MJG	EET CHI	12/06/22 08:14

Client Sample ID: 1401V3-04-B01 (0-5)

Lab Sample ID: 500-225658-7

Date Collected: 11/17/22 11:40

Matrix: Solid

Date Received: 11/17/22 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			687772	EA	EET CHI	12/01/22 10:25 - 12/02/22 04:25 ¹
SPLP East	Prep	3010A			687988	RN	EET CHI	12/02/22 15:12 - 12/02/22 15:42 ¹
SPLP East	Analysis	6010B		1	688870	JJB	EET CHI	12/07/22 21:35
TCLP	Leach	1311			687762	EA	EET CHI	12/01/22 14:19 - 12/02/22 08:19 ¹
TCLP	Prep	3010A			687985	RN	EET CHI	12/02/22 15:04 - 12/02/22 15:34 ¹
TCLP	Analysis	6010B		1	688435	JJB	EET CHI	12/05/22 15:57
TCLP	Leach	1311			687762	EA	EET CHI	12/01/22 14:19 - 12/02/22 08:19 ¹
TCLP	Prep	3010A			687985	RN	EET CHI	12/02/22 15:04 - 12/02/22 15:34 ¹
TCLP	Analysis	6020A		1	688456	FXG	EET CHI	12/05/22 15:14

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B01 (0-5)

Lab Sample ID: 500-225658-7

Date Collected: 11/17/22 11:40

Matrix: Solid

Date Received: 11/17/22 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			687762	EA	EET CHI	12/01/22 14:19 - 12/02/22 08:19 ¹
TCLP	Prep	7470A			687994	MJG	EET CHI	12/02/22 16:00 - 12/02/22 18:00 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 12:32
Total/NA	Analysis	9045D		1	686927	LWN	EET CHI	11/23/22 16:21
Total/NA	Analysis	Moisture		1	687349	LWN	EET CHI	11/29/22 15:58

Client Sample ID: 1401V3-04-B01 (0-5)

Lab Sample ID: 500-225658-7

Date Collected: 11/17/22 11:40

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			685985	WRE	EET CHI	11/18/22 16:51
Total/NA	Analysis	8260B		1	686936	W1T	EET CHI	11/28/22 16:52
Total/NA	Prep	3541			687684	KN	EET CHI	12/01/22 08:54 - 12/01/22 15:30 ¹
Total/NA	Analysis	8270D		1	688419	SS	EET CHI	12/06/22 14:54
Total/NA	Prep	3050B			687795	LMB	EET CHI	12/01/22 16:18 - 12/02/22 10:12 ¹
Total/NA	Analysis	6010B		1	688504	JJB	EET CHI	12/06/22 14:11
Total/NA	Prep	3050B			687795	LMB	EET CHI	12/01/22 16:18 - 12/02/22 10:12 ¹
Total/NA	Analysis	6010B		1	688666	JJB	EET CHI	12/07/22 01:16
Total/NA	Prep	7471B			688234	MJG	EET CHI	12/05/22 15:45
Total/NA	Analysis	7471B		1	688451	MJG	EET CHI	12/06/22 08:16

Client Sample ID: 1401V3-04-B01 (5-7)

Lab Sample ID: 500-225658-8

Date Collected: 11/17/22 11:45

Matrix: Solid

Date Received: 11/17/22 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			687772	EA	EET CHI	12/01/22 10:25 - 12/02/22 04:25 ¹
SPLP East	Prep	3010A			687988	RN	EET CHI	12/02/22 15:12 - 12/02/22 15:42 ¹
SPLP East	Analysis	6010B		1	688870	JJB	EET CHI	12/07/22 21:39
TCLP	Leach	1311			687762	EA	EET CHI	12/01/22 14:19 - 12/02/22 08:19 ¹
TCLP	Prep	3010A			687985	RN	EET CHI	12/02/22 15:04 - 12/02/22 15:34 ¹
TCLP	Analysis	6010B		1	688435	JJB	EET CHI	12/05/22 16:00
TCLP	Leach	1311			687762	EA	EET CHI	12/01/22 14:19 - 12/02/22 08:19 ¹
TCLP	Prep	3010A			687985	RN	EET CHI	12/02/22 15:04 - 12/02/22 15:34 ¹
TCLP	Analysis	6020A		1	688456	FXG	EET CHI	12/05/22 15:16
TCLP	Leach	1311			687762	EA	EET CHI	12/01/22 14:19 - 12/02/22 08:19 ¹
TCLP	Prep	7470A			687994	MJG	EET CHI	12/02/22 16:00 - 12/02/22 18:00 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 12:34
Total/NA	Analysis	9045D		1	686927	LWN	EET CHI	11/23/22 16:23
Total/NA	Analysis	Moisture		1	687349	LWN	EET CHI	11/29/22 15:58

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Client Sample ID: 1401V3-04-B01 (5-7)

Lab Sample ID: 500-225658-8

Date Collected: 11/17/22 11:45

Matrix: Solid

Date Received: 11/17/22 14:30

Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			685985	WRE	EET CHI	11/18/22 16:51
Total/NA	Analysis	8260B		1	686936	W1T	EET CHI	11/28/22 17:15
Total/NA	Prep	3541			687684	KN	EET CHI	12/01/22 08:54 - 12/01/22 15:30 ¹
Total/NA	Analysis	8270D		1	688419	SS	EET CHI	12/06/22 15:15
Total/NA	Prep	3050B			687795	LMB	EET CHI	12/01/22 16:18 - 12/02/22 10:12 ¹
Total/NA	Analysis	6010B		1	688504	JJB	EET CHI	12/06/22 14:14
Total/NA	Prep	3050B			687795	LMB	EET CHI	12/01/22 16:18 - 12/02/22 10:12 ¹
Total/NA	Analysis	6010B		1	688666	JJB	EET CHI	12/07/22 01:19
Total/NA	Prep	7471B			688234	MJG	EET CHI	12/05/22 15:45
Total/NA	Analysis	7471B		1	688451	MJG	EET CHI	12/06/22 08:18

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225658-1

Laboratory: Eurofins Chicago

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

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

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Chain of Custody Record

541354



Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

500-225658 COC

TAL-8210

Client Contact		Project Manager: <i>D. Tietz</i>		Site Contact: <i>A. Hays</i>		Date: <i>11/17/22</i>	
Company Name: <i>WSP</i>		Tel/Email:		Lab Contact: <i>R. Wright</i>		Carrier:	
Address: <i>30 N. LaSalle</i>		Analysis Turnaround Time					
City/State/Zip: <i>Chicago IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS		Filtered Sample (Y/N) Perform MS/MSD (Y/N) PH 6 solvents VOCs SVOCs Total Metals TCCP*			
Phone:		TAT if different from Below:					
Fax:		<input checked="" type="checkbox"/> 2 weeks					
Project Name: <i>1007 W013 - Bachelard col</i>		<input type="checkbox"/> 1 week					
Site: <i>31403055.018</i>		<input type="checkbox"/> 2 days		1 of 1 COCs Sampler For Lab Use Only Walk-in Client Lab Sampling Job / SDG No <i>500-225658</i> Sample Specific Notes			
P.O.#:		<input type="checkbox"/> 1 day					
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	
1	1401V3-04-B06 (0-6)	11/17/22	1010	C	S	2	X X X X X X
2	1401V3-04-B05 (0-6)	11/17/22	1025	C	S	2	X X X X X X
3	1401V3-04-B05 (0-6) D4P	11/17/22	1027	C	S	2	X X X X X X
4	1401V3-04-B04 (0-6)	11/17/22	1165	C	S	2	X X X X X X
5	1401V3-04-B03 (0-6)	11/17/22	1120	C	S	2	X X X X X X
6	1401V3-04-B02 (0-2)	11/17/22	1130	C	S	2	X X X X X X
7	1401V3-04-B01 (0-5)	11/17/22	1140	C	S	2	X X X X X X
8	1401V3-04-B01 (0-5) (5-7) <i>(BIM)</i>	11/17/22	1145	C	S	2	X X X X X X
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other							
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown				<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months			
Special Instructions/QC Requirements & Comments: <i>* SPLP analysis based on TCCP results</i>							
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <i>3.6</i> Corr'd <i>3.8</i>		Therm ID No	
Relinquished by: <i>[Signature]</i>		Company: <i>WSP</i>		Date/Time: <i>11/17/22 1240</i>		Received by: <i>[Signature]</i>	
Relinquished by: <i>[Signature]</i>		Company: <i>BETA</i>		Date/Time: <i>11/17/22</i>		Received by: <i>[Signature]</i>	
Relinquished by: <i>[Signature]</i>		Company: <i>BETA</i>		Date/Time: <i>11/17/22 1230</i>		Received by: <i>[Signature]</i>	
Relinquished by: <i>[Signature]</i>		Company: <i>BETA</i>		Date/Time: <i>11-17-22 1430</i>		Received in Laboratory by: <i>[Signature]</i>	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225658-1

Login Number: 225658

List Number: 1

Creator: James, Jeff A

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 365 & FAP 870 (Butterfield Road) Office Phone Number, if available: _____

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

2 S 661 IL 53 (ISGS #1401V3-5)

City: Glen Ellyn State: IL Zip Code: 60137

County: DuPage Township: Milton

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

Latitude: 41.83282 Longitude: -88.05345

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 171

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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



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

Analytical Data Summary
PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

Key to Data Tables

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

Criteria Qualifiers and Shading

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

**PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11
CONTAMINANTS OF CONCERN**

SITE	ISGS #1401V3-05 (Commercial Buildings)	Comparison Criteria					
		MACs			TACO		
BORING	1401V3-05-B01	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1401V3-05-B01 (0-4)						
MATRIX	Soil						
DEPTH (feet)	0-4						
pH	6.6						
PID (meter units)	--						
VOCs (None Detected)							
SVOCs (None Detected)							
Inorganics (mg/kg)							
Arsenic	11	11.3	13	--	13	61	--
Barium	99	1,500	--	--	5,500	14,000	--
Beryllium	1.0	22	--	--	160	410	--
Boron	5.9	40	--	--	16,000	41,000	--
Cadmium	0.12	5.2	--	--	78	200	--
Calcium	4,200	--	--	--	--	--	--
Chromium	18	21	--	--	230	690	--
Cobalt	15	20	--	--	4,700	12,000	--
Copper	22	2,900	--	--	2,900	8,200	--
Iron	24,000 †m	15,000	15,900	--	--	--	--
Lead	26	107	--	--	400	700	--
Magnesium	4,100	325,000	--	--	--	730,000	--
Manganese	610	630	636	--	1,600	4,100	--
Mercury	0.043	0.89	--	--	10	0.1	--
Nickel	28	100	--	--	1,600	4,100	--
Potassium	1,900	--	--	--	--	--	--
Silver	0.35	4.4	--	--	390	1,000	--
Sodium	1,200	--	--	--	--	--	--
Thallium	0.35 J	2.6	--	--	6.3	160	--
Vanadium	29	550	--	--	550	1,400	--
Zinc	71	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)							
Barium	0.40 J	--	--	--	--	--	2
Boron	1.0	--	--	--	--	--	2
Iron	ND U	--	--	--	--	--	5
Manganese	0.071	--	--	--	--	--	0.15
Zinc	0.069 J	--	--	--	--	--	5
SPLP Metals (Not Analyzed)							

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ANALYTICAL REPORT

PREPARED FOR

Attn: Dean Tiebot
WSP USA Inc.
30 North LaSalle Street
Chicago Illinois 60602
Generated 11/23/2022 5:31:40 PM

JOB DESCRIPTION

IDOT - 196-002-WO 13 IL 56

JOB NUMBER

500-225163-1



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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

Job ID: 500-225163-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225163-1

Receipt

The samples were received on 11/9/2022 5:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.5° C, 5.5° C and 5.6° C.

GC/MS VOA

Method 8260B: The following sample was diluted to bring the concentration of target analytes within the calibration range: 1401V3-05-B02 (0-4) (500-225163-2). Acetone was over the calibration range in the low level analysis. A 1/50 high level dilution was performed on the methanol extract. Acetone was detected below the reporting limit in this high level run. Elevated reporting limits are provided for Acetone.

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

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-686590 was outside the method criteria for the following analyte(s): Benzo[g,h,i]perylene, Dibenz(a,h)anthracene, Di-n-octyl phthalate and Phenol-d5. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-686590 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Perylene-d12 Internal standard (ISTD) response for the following samples was outside of acceptance limits: 1401V3-05-B01 (0-4) (500-225163-1), 1401V3-05-B02 (0-4) (500-225163-2) and 1401V3-05-B03 (0-4) (500-225163-3). Analytes associated to this internal standard were non-detect and/or below the reporting limit; therefore, re-analysis was not performed.

Method 8270D: The method blank for preparation batch 500-685446 and analytical batch 500-686154 contained Bis(2-ethylhexyl) phthalate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

Metals

Method Moisture: Sample homogenized due to a color variation throughout the sample. 1401V3-05-B01 (0-4) (500-225163-1)

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

General Chemistry

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

Organic Prep

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

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

Client Sample ID: 1401V3-05-B01 (0-4)

Lab Sample ID: 500-225163-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		0.61	0.21	mg/Kg	1	✳	6010B	Total/NA
Barium	99		0.61	0.070	mg/Kg	1	✳	6010B	Total/NA
Beryllium	1.0		0.24	0.057	mg/Kg	1	✳	6010B	Total/NA
Boron	5.9		3.1	0.28	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.12		0.12	0.022	mg/Kg	1	✳	6010B	Total/NA
Calcium	4200		12	2.1	mg/Kg	1	✳	6010B	Total/NA
Chromium	18		0.61	0.30	mg/Kg	1	✳	6010B	Total/NA
Cobalt	15		0.31	0.080	mg/Kg	1	✳	6010B	Total/NA
Copper	22		0.61	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	24000		12	6.4	mg/Kg	1	✳	6010B	Total/NA
Lead	26		0.31	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	4100		6.1	3.0	mg/Kg	1	✳	6010B	Total/NA
Manganese	610		0.61	0.089	mg/Kg	1	✳	6010B	Total/NA
Nickel	28		0.61	0.18	mg/Kg	1	✳	6010B	Total/NA
Potassium	1900		31	11	mg/Kg	1	✳	6010B	Total/NA
Silver	0.35		0.31	0.079	mg/Kg	1	✳	6010B	Total/NA
Sodium	1200		61	9.1	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.35	J	0.61	0.31	mg/Kg	1	✳	6010B	Total/NA
Vanadium	29		0.31	0.072	mg/Kg	1	✳	6010B	Total/NA
Zinc	71		1.2	0.54	mg/Kg	1	✳	6010B	Total/NA
Barium	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.0		0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.071		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.069	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.043		0.020	0.0066	mg/Kg	1	✳	7471B	Total/NA
pH	6.6		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010B	Metals (ICP)	SW846	EET CHI
6010B	SPLP Metals	SW846	EET CHI
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225163-1	1401V3-05-B01 (0-4)	Solid	11/09/22 13:35	11/09/22 17:00

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

Client Sample ID: 1401V3-05-B01 (0-4)

Lab Sample ID: 500-225163-1

Date Collected: 11/09/22 13:35

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
Ethylbenzene	<0.0020		0.0020	0.00095	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00088	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
Trichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
Vinyl chloride	<0.0020		0.0020	0.00088	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg	☼	11/10/22 17:39	11/14/22 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		75 - 131	11/10/22 17:39	11/14/22 18:08	1
Dibromofluoromethane	104		75 - 126	11/10/22 17:39	11/14/22 18:08	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	11/10/22 17:39	11/14/22 18:08	1
Toluene-d8 (Surr)	100		75 - 124	11/10/22 17:39	11/14/22 18:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

Client Sample ID: 1401V3-05-B01 (0-4)

Lab Sample ID: 500-225163-1

Date Collected: 11/09/22 13:35

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
2-Chlorophenol	<0.20		0.20	0.070	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.042	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Naphthalene	<0.040		0.040	0.0063	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
2,4-Dichlorophenol	<0.40		0.40	0.097	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.048	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Phenanthrene	<0.040		0.040	0.0057	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Fluoranthene	<0.040		0.040	0.0076	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Pyrene	<0.040		0.040	0.0081	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Butyl benzyl phthalate	<0.20	*	0.20	0.077	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Benzo[a]anthracene	<0.040		0.040	0.0055	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

Client Sample ID: 1401V3-05-B01 (0-4)

Lab Sample ID: 500-225163-1

Date Collected: 11/09/22 13:35

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Bis(2-ethylhexyl) phthalate	<0.20	*	0.20	0.074	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Benzo[b]fluoranthene	<0.040	*3	0.040	0.0088	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Benzo[k]fluoranthene	<0.040	*3	0.040	0.012	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Benzo[a]pyrene	<0.040	*3	0.040	0.0079	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Indeno[1,2,3-cd]pyrene	<0.040	*3	0.040	0.011	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Dibenz(a,h)anthracene	<0.040	*3	0.040	0.0079	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
Benzo[g,h,i]perylene	<0.040	*3	0.040	0.013	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	11/17/22 07:24	11/22/22 23:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	116		31 - 166	11/17/22 07:24	11/22/22 23:44	1
Phenol-d5	90		30 - 153	11/17/22 07:24	11/22/22 23:44	1
Nitrobenzene-d5 (Surr)	78		37 - 147	11/17/22 07:24	11/22/22 23:44	1
2-Fluorobiphenyl (Surr)	83		43 - 145	11/17/22 07:24	11/22/22 23:44	1
2,4,6-Tribromophenol	100		31 - 143	11/17/22 07:24	11/22/22 23:44	1
Terphenyl-d14 (Surr)	141		42 - 157	11/17/22 07:24	11/22/22 23:44	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	11/14/22 17:20	11/16/22 01:48	1
Arsenic	11		0.61	0.21	mg/Kg	☼	11/14/22 17:20	11/16/22 01:48	1
Barium	99		0.61	0.070	mg/Kg	☼	11/14/22 17:20	11/16/22 01:48	1
Beryllium	1.0		0.24	0.057	mg/Kg	☼	11/14/22 17:20	11/16/22 01:48	1
Boron	5.9		3.1	0.28	mg/Kg	☼	11/14/22 17:20	11/16/22 01:48	1
Cadmium	0.12		0.12	0.022	mg/Kg	☼	11/14/22 17:20	11/16/22 01:48	1
Calcium	4200		12	2.1	mg/Kg	☼	11/14/22 17:20	11/16/22 01:48	1
Chromium	18		0.61	0.30	mg/Kg	☼	11/14/22 17:20	11/16/22 01:48	1
Cobalt	15		0.31	0.080	mg/Kg	☼	11/14/22 17:20	11/16/22 01:48	1
Copper	22		0.61	0.17	mg/Kg	☼	11/14/22 17:20	11/16/22 01:48	1
Iron	24000		12	6.4	mg/Kg	☼	11/14/22 17:20	11/16/22 01:48	1
Lead	26		0.31	0.14	mg/Kg	☼	11/14/22 17:20	11/16/22 01:48	1
Magnesium	4100		6.1	3.0	mg/Kg	☼	11/14/22 17:20	11/16/22 01:48	1
Manganese	610		0.61	0.089	mg/Kg	☼	11/14/22 17:20	11/16/22 01:48	1
Nickel	28		0.61	0.18	mg/Kg	☼	11/14/22 17:20	11/16/22 01:48	1
Potassium	1900		31	11	mg/Kg	☼	11/14/22 17:20	11/16/22 01:48	1
Selenium	<0.61		0.61	0.36	mg/Kg	☼	11/14/22 17:20	11/16/22 01:48	1
Silver	0.35		0.31	0.079	mg/Kg	☼	11/14/22 17:20	11/16/22 01:48	1
Sodium	1200		61	9.1	mg/Kg	☼	11/14/22 17:20	11/16/22 01:48	1
Thallium	0.35 J		0.61	0.31	mg/Kg	☼	11/14/22 17:20	11/16/22 01:48	1
Vanadium	29		0.31	0.072	mg/Kg	☼	11/14/22 17:20	11/16/22 01:48	1
Zinc	71		1.2	0.54	mg/Kg	☼	11/14/22 17:20	11/16/22 14:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.40 J		0.50	0.050	mg/L		11/16/22 17:32	11/17/22 16:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/22 17:32	11/17/22 16:37	1
Boron	1.0		0.50	0.050	mg/L		11/16/22 17:32	11/17/22 16:37	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

Client Sample ID: 1401V3-05-B01 (0-4)

Lab Sample ID: 500-225163-1

Date Collected: 11/09/22 13:35

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/16/22 17:32	11/17/22 16:37	1
Chromium	<0.025		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:37	1
Cobalt	<0.025		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:37	1
Iron	<0.40		0.40	0.20	mg/L		11/16/22 17:32	11/17/22 16:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/16/22 17:32	11/17/22 16:37	1
Manganese	0.071		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:37	1
Nickel	<0.025		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:37	1
Selenium	<0.050		0.050	0.020	mg/L		11/16/22 17:32	11/17/22 16:37	1
Silver	<0.025		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:37	1
Zinc	0.069	J	0.50	0.020	mg/L		11/16/22 17:32	11/17/22 16:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/16/22 17:32	11/17/22 22:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/16/22 17:32	11/17/22 22:00	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/17/22 12:30	11/18/22 09:59	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.020	0.0066	mg/Kg	☼	11/17/22 15:25	11/18/22 07:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.6		0.2	0.2	SU			11/15/22 19:22	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

GC/MS VOA

Prep Batch: 684693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225163-1	1401V3-05-B01 (0-4)	Total/NA	Solid	5035	
500-225163-2	1401V3-05-B02 (0-4)	Total/NA	Solid	5035	
500-225163-3	1401V3-05-B03 (0-4)	Total/NA	Solid	5035	

Analysis Batch: 684731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225163-1	1401V3-05-B01 (0-4)	Total/NA	Solid	8260B	684693
500-225163-2	1401V3-05-B02 (0-4)	Total/NA	Solid	8260B	684693
MB 500-684731/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-684731/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-684731/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 685466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225163-3	1401V3-05-B03 (0-4)	Total/NA	Solid	8260B	684693
MB 500-685466/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-685466/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-685466/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 686078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225163-2 - DL	1401V3-05-B02 (0-4)	Total/NA	Solid	5035	

Analysis Batch: 686099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225163-2 - DL	1401V3-05-B02 (0-4)	Total/NA	Solid	8260B	686078
MB 500-686099/8	Method Blank	Total/NA	Solid	8260B	
LCS 500-686099/5	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 685446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225163-1	1401V3-05-B01 (0-4)	Total/NA	Solid	3541	
500-225163-2	1401V3-05-B02 (0-4)	Total/NA	Solid	3541	
500-225163-3	1401V3-05-B03 (0-4)	Total/NA	Solid	3541	
MB 500-685446/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-685446/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 686154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-685446/1-A	Method Blank	Total/NA	Solid	8270D	685446
LCS 500-685446/2-A	Lab Control Sample	Total/NA	Solid	8270D	685446

Analysis Batch: 686590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225163-1	1401V3-05-B01 (0-4)	Total/NA	Solid	8270D	685446
500-225163-2	1401V3-05-B02 (0-4)	Total/NA	Solid	8270D	685446
500-225163-3	1401V3-05-B03 (0-4)	Total/NA	Solid	8270D	685446

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

Metals

Prep Batch: 684901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225163-1	1401V3-05-B01 (0-4)	Total/NA	Solid	3050B	
500-225163-2	1401V3-05-B02 (0-4)	Total/NA	Solid	3050B	
500-225163-3	1401V3-05-B03 (0-4)	Total/NA	Solid	3050B	
MB 500-684901/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-684901/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Leach Batch: 685076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225163-1	1401V3-05-B01 (0-4)	TCLP	Solid	1311	
500-225163-2	1401V3-05-B02 (0-4)	TCLP	Solid	1311	
500-225163-3	1401V3-05-B03 (0-4)	TCLP	Solid	1311	
LB 500-685076/1-B	Method Blank	TCLP	Solid	1311	
LB 500-685076/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 685080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225163-2	1401V3-05-B02 (0-4)	SPLP East	Solid	1312	
500-225163-3	1401V3-05-B03 (0-4)	SPLP East	Solid	1312	
LB 500-685080/1-B	Method Blank	SPLP East	Solid	1312	
500-225163-3 MS	1401V3-05-B03 (0-4)	SPLP East	Solid	1312	
500-225163-3 DU	1401V3-05-B03 (0-4)	SPLP East	Solid	1312	

Analysis Batch: 685232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225163-1	1401V3-05-B01 (0-4)	Total/NA	Solid	6010B	684901
500-225163-2	1401V3-05-B02 (0-4)	Total/NA	Solid	6010B	684901
500-225163-3	1401V3-05-B03 (0-4)	Total/NA	Solid	6010B	684901
MB 500-684901/1-A	Method Blank	Total/NA	Solid	6010B	684901
LCS 500-684901/2-A	Lab Control Sample	Total/NA	Solid	6010B	684901

Prep Batch: 685407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225163-1	1401V3-05-B01 (0-4)	TCLP	Solid	3010A	685076
500-225163-2	1401V3-05-B02 (0-4)	TCLP	Solid	3010A	685076
500-225163-3	1401V3-05-B03 (0-4)	TCLP	Solid	3010A	685076
LB 500-685076/1-B	Method Blank	TCLP	Solid	3010A	685076
LCS 500-685407/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 685409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225163-2	1401V3-05-B02 (0-4)	SPLP East	Solid	3010A	685080
500-225163-3	1401V3-05-B03 (0-4)	SPLP East	Solid	3010A	685080
LB 500-685080/1-B	Method Blank	SPLP East	Solid	3010A	685080
LCS 500-685409/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-225163-3 MS	1401V3-05-B03 (0-4)	SPLP East	Solid	3010A	685080
500-225163-3 DU	1401V3-05-B03 (0-4)	SPLP East	Solid	3010A	685080

Analysis Batch: 685531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225163-1	1401V3-05-B01 (0-4)	Total/NA	Solid	6010B	684901
500-225163-2	1401V3-05-B02 (0-4)	Total/NA	Solid	6010B	684901

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

Metals (Continued)

Analysis Batch: 685531 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225163-3	1401V3-05-B03 (0-4)	Total/NA	Solid	6010B	684901
MB 500-684901/1-A	Method Blank	Total/NA	Solid	6010B	684901
LCS 500-684901/2-A	Lab Control Sample	Total/NA	Solid	6010B	684901

Prep Batch: 685599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225163-1	1401V3-05-B01 (0-4)	TCLP	Solid	7470A	685076
500-225163-2	1401V3-05-B02 (0-4)	TCLP	Solid	7470A	685076
500-225163-3	1401V3-05-B03 (0-4)	TCLP	Solid	7470A	685076
LB 500-685076/1-C	Method Blank	TCLP	Solid	7470A	685076
MB 500-685599/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-685599/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 685603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225163-1	1401V3-05-B01 (0-4)	Total/NA	Solid	7471B	
500-225163-2	1401V3-05-B02 (0-4)	Total/NA	Solid	7471B	
500-225163-3	1401V3-05-B03 (0-4)	Total/NA	Solid	7471B	
MB 500-685603/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-685603/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 685824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225163-1	1401V3-05-B01 (0-4)	TCLP	Solid	6010B	685407
500-225163-2	1401V3-05-B02 (0-4)	TCLP	Solid	6010B	685407
500-225163-3	1401V3-05-B03 (0-4)	TCLP	Solid	6010B	685407
LB 500-685076/1-B	Method Blank	TCLP	Solid	6010B	685407
LCS 500-685407/2-A	Lab Control Sample	Total/NA	Solid	6010B	685407

Analysis Batch: 685882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225163-1	1401V3-05-B01 (0-4)	TCLP	Solid	6020A	685407
500-225163-2	1401V3-05-B02 (0-4)	TCLP	Solid	6020A	685407
500-225163-3	1401V3-05-B03 (0-4)	TCLP	Solid	6020A	685407
LB 500-685076/1-B	Method Blank	TCLP	Solid	6020A	685407
LCS 500-685407/2-A	Lab Control Sample	Total/NA	Solid	6020A	685407

Analysis Batch: 685886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225163-1	1401V3-05-B01 (0-4)	Total/NA	Solid	7471B	685603
500-225163-2	1401V3-05-B02 (0-4)	Total/NA	Solid	7471B	685603
500-225163-3	1401V3-05-B03 (0-4)	Total/NA	Solid	7471B	685603
MB 500-685603/12-A	Method Blank	Total/NA	Solid	7471B	685603
LCS 500-685603/13-A	Lab Control Sample	Total/NA	Solid	7471B	685603

Analysis Batch: 685896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225163-1	1401V3-05-B01 (0-4)	TCLP	Solid	7470A	685599
500-225163-2	1401V3-05-B02 (0-4)	TCLP	Solid	7470A	685599
500-225163-3	1401V3-05-B03 (0-4)	TCLP	Solid	7470A	685599
LB 500-685076/1-C	Method Blank	TCLP	Solid	7470A	685599

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

Metals (Continued)

Analysis Batch: 685896 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-685599/12-A	Method Blank	Total/NA	Solid	7470A	685599
LCS 500-685599/14-A	Lab Control Sample	Total/NA	Solid	7470A	685599

Analysis Batch: 686365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225163-2	1401V3-05-B02 (0-4)	SPLP East	Solid	6010B	685409
500-225163-3	1401V3-05-B03 (0-4)	SPLP East	Solid	6010B	685409
LB 500-685080/1-B	Method Blank	SPLP East	Solid	6010B	685409
LCS 500-685409/2-A	Lab Control Sample	Total/NA	Solid	6010B	685409
500-225163-3 MS	1401V3-05-B03 (0-4)	SPLP East	Solid	6010B	685409
500-225163-3 DU	1401V3-05-B03 (0-4)	SPLP East	Solid	6010B	685409

General Chemistry

Analysis Batch: 684487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225163-1	1401V3-05-B01 (0-4)	Total/NA	Solid	Moisture	
500-225163-2	1401V3-05-B02 (0-4)	Total/NA	Solid	Moisture	
500-225163-3	1401V3-05-B03 (0-4)	Total/NA	Solid	Moisture	

Analysis Batch: 685174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225163-1	1401V3-05-B01 (0-4)	Total/NA	Solid	9045D	
500-225163-3	1401V3-05-B03 (0-4)	Total/NA	Solid	9045D	
LCS 500-685174/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-685174/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 685250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225163-2	1401V3-05-B02 (0-4)	Total/NA	Solid	9045D	
LCS 500-685250/5	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-685250/6	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-225163-2 DU	1401V3-05-B02 (0-4)	Total/NA	Solid	9045D	

Surrogate Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-225163-1	1401V3-05-B01 (0-4)	105	104	110	100
500-225163-2	1401V3-05-B02 (0-4)	102	102	106	99
500-225163-3	1401V3-05-B03 (0-4)	97	91	95	88
LCS 500-684731/3	Lab Control Sample	107	94	100	98
LCS 500-685466/4	Lab Control Sample	90	83	81	92
LCSD 500-684731/4	Lab Control Sample Dup	112	96	103	97
LCSD 500-685466/5	Lab Control Sample Dup	91	83	83	92
MB 500-684731/6	Method Blank	105	102	105	100
MB 500-685466/7	Method Blank	94	86	88	89

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (72-124)	DBFM (75-120)	DCA (75-126)	TOL (75-120)
500-225163-2 - DL	1401V3-05-B02 (0-4)	93	102	118	97
LCS 500-686099/5	Lab Control Sample	93	100	115	103
MB 500-686099/8	Method Blank	88	110	124	103

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (31-166)	PHL (30-153)	NBZ (37-147)	FBP (43-145)	TBP (31-143)	TPHL (42-157)
500-225163-1	1401V3-05-B01 (0-4)	116	90	78	83	100	141
500-225163-2	1401V3-05-B02 (0-4)	127	117	75	80	105	140
500-225163-3	1401V3-05-B03 (0-4)	137	124	78	83	110	153
LCS 500-685446/2-A	Lab Control Sample	97	88	69	79	84	83
MB 500-685446/1-A	Method Blank	102	96	66	79	71	79

Surrogate Legend

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

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

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

Lab Sample ID: MB 500-684731/6
Matrix: Solid
Analysis Batch: 684731

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			11/14/22 10:54	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			11/14/22 10:54	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			11/14/22 10:54	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			11/14/22 10:54	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			11/14/22 10:54	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			11/14/22 10:54	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			11/14/22 10:54	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			11/14/22 10:54	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			11/14/22 10:54	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			11/14/22 10:54	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			11/14/22 10:54	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			11/14/22 10:54	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			11/14/22 10:54	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			11/14/22 10:54	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			11/14/22 10:54	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			11/14/22 10:54	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			11/14/22 10:54	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			11/14/22 10:54	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			11/14/22 10:54	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			11/14/22 10:54	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			11/14/22 10:54	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			11/14/22 10:54	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			11/14/22 10:54	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			11/14/22 10:54	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			11/14/22 10:54	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			11/14/22 10:54	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			11/14/22 10:54	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/14/22 10:54	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			11/14/22 10:54	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			11/14/22 10:54	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			11/14/22 10:54	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			11/14/22 10:54	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			11/14/22 10:54	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/14/22 10:54	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			11/14/22 10:54	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			11/14/22 10:54	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			11/14/22 10:54	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	105		75 - 131		11/14/22 10:54	1
Dibromofluoromethane	102		75 - 126		11/14/22 10:54	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		11/14/22 10:54	1
Toluene-d8 (Surr)	100		75 - 124		11/14/22 10:54	1

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

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

Lab Sample ID: LCS 500-684731/3
Matrix: Solid
Analysis Batch: 684731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0400	0.0438		mg/Kg		110	40 - 150
Benzene	0.0400	0.0445		mg/Kg		111	70 - 125
Bromodichloromethane	0.0400	0.0470		mg/Kg		118	67 - 129
Bromoform	0.0400	0.0487		mg/Kg		122	68 - 136
Bromomethane	0.0400	0.0420		mg/Kg		105	70 - 130
2-Butanone (MEK)	0.0400	0.0465		mg/Kg		116	47 - 138
Carbon disulfide	0.0400	0.0391		mg/Kg		98	70 - 129
Carbon tetrachloride	0.0400	0.0443		mg/Kg		111	75 - 125
Chlorobenzene	0.0400	0.0466		mg/Kg		117	50 - 150
Chloroethane	0.0400	0.0448		mg/Kg		112	75 - 125
Chloroform	0.0400	0.0414		mg/Kg		103	57 - 135
Chloromethane	0.0400	0.0408		mg/Kg		102	70 - 125
cis-1,2-Dichloroethene	0.0400	0.0411		mg/Kg		103	70 - 125
cis-1,3-Dichloropropene	0.0400	0.0444		mg/Kg		111	70 - 125
Dibromochloromethane	0.0400	0.0454		mg/Kg		113	69 - 125
1,1-Dichloroethane	0.0400	0.0407		mg/Kg		102	70 - 125
1,2-Dichloroethane	0.0400	0.0470		mg/Kg		118	70 - 130
1,1-Dichloroethene	0.0400	0.0402		mg/Kg		100	70 - 120
1,2-Dichloropropane	0.0400	0.0461		mg/Kg		115	70 - 125
Ethylbenzene	0.0400	0.0444		mg/Kg		111	61 - 136
2-Hexanone	0.0400	0.0475		mg/Kg		119	48 - 146
Methylene Chloride	0.0400	0.0408		mg/Kg		102	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0400	0.0398		mg/Kg		100	50 - 148
Methyl tert-butyl ether	0.0400	0.0427		mg/Kg		107	50 - 140
Styrene	0.0400	0.0473		mg/Kg		118	70 - 125
1,1,2,2-Tetrachloroethane	0.0400	0.0416		mg/Kg		104	70 - 122
Tetrachloroethene	0.0400	0.0443		mg/Kg		111	70 - 124
Toluene	0.0400	0.0407		mg/Kg		102	70 - 125
trans-1,2-Dichloroethene	0.0400	0.0409		mg/Kg		102	70 - 125
trans-1,3-Dichloropropene	0.0400	0.0489		mg/Kg		122	70 - 125
1,1,1-Trichloroethane	0.0400	0.0435		mg/Kg		109	70 - 128
1,1,2-Trichloroethane	0.0400	0.0454		mg/Kg		114	70 - 125
Trichloroethene	0.0400	0.0466		mg/Kg		117	70 - 125
Vinyl acetate	0.0400	0.0387		mg/Kg		97	40 - 153
Vinyl chloride	0.0400	0.0429		mg/Kg		107	70 - 125
Xylenes, Total	0.0800	0.0832		mg/Kg		104	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	107		75 - 131
Dibromofluoromethane	94		75 - 126
1,2-Dichloroethane-d4 (Surr)	100		70 - 134
Toluene-d8 (Surr)	98		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

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

Lab Sample ID: LCSD 500-684731/4
Matrix: Solid
Analysis Batch: 684731

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.0400	0.0393		mg/Kg		98	40 - 150	11	30
Benzene	0.0400	0.0386		mg/Kg		97	70 - 125	14	30
Bromodichloromethane	0.0400	0.0402		mg/Kg		100	67 - 129	16	30
Bromoform	0.0400	0.0393		mg/Kg		98	68 - 136	22	30
Bromomethane	0.0400	0.0391		mg/Kg		98	70 - 130	7	30
2-Butanone (MEK)	0.0400	0.0356		mg/Kg		89	47 - 138	26	30
Carbon disulfide	0.0400	0.0335		mg/Kg		84	70 - 129	16	30
Carbon tetrachloride	0.0400	0.0396		mg/Kg		99	75 - 125	11	30
Chlorobenzene	0.0400	0.0401		mg/Kg		100	50 - 150	15	30
Chloroethane	0.0400	0.0402		mg/Kg		100	75 - 125	11	30
Chloroform	0.0400	0.0355		mg/Kg		89	57 - 135	15	30
Chloromethane	0.0400	0.0400		mg/Kg		100	70 - 125	2	30
cis-1,2-Dichloroethene	0.0400	0.0356		mg/Kg		89	70 - 125	14	30
cis-1,3-Dichloropropene	0.0400	0.0383		mg/Kg		96	70 - 125	15	30
Dibromochloromethane	0.0400	0.0371		mg/Kg		93	69 - 125	20	30
1,1-Dichloroethane	0.0400	0.0361		mg/Kg		90	70 - 125	12	30
1,2-Dichloroethane	0.0400	0.0391		mg/Kg		98	70 - 130	18	30
1,1-Dichloroethene	0.0400	0.0341		mg/Kg		85	70 - 120	17	30
1,2-Dichloropropane	0.0400	0.0385		mg/Kg		96	70 - 125	18	30
Ethylbenzene	0.0400	0.0382		mg/Kg		96	61 - 136	15	30
2-Hexanone	0.0400	0.0384		mg/Kg		96	48 - 146	21	30
Methylene Chloride	0.0400	0.0356		mg/Kg		89	70 - 126	14	30
4-Methyl-2-pentanone (MIBK)	0.0400	0.0330		mg/Kg		82	50 - 148	19	30
Methyl tert-butyl ether	0.0400	0.0369		mg/Kg		92	50 - 140	15	30
Styrene	0.0400	0.0402		mg/Kg		101	70 - 125	16	30
1,1,2,2-Tetrachloroethane	0.0400	0.0358		mg/Kg		89	70 - 122	15	30
Tetrachloroethene	0.0400	0.0379		mg/Kg		95	70 - 124	16	30
Toluene	0.0400	0.0358		mg/Kg		90	70 - 125	13	30
trans-1,2-Dichloroethene	0.0400	0.0354		mg/Kg		89	70 - 125	14	30
trans-1,3-Dichloropropene	0.0400	0.0415		mg/Kg		104	70 - 125	16	30
1,1,1-Trichloroethane	0.0400	0.0388		mg/Kg		97	70 - 128	11	30
1,1,2-Trichloroethane	0.0400	0.0367		mg/Kg		92	70 - 125	21	30
Trichloroethene	0.0400	0.0413		mg/Kg		103	70 - 125	12	30
Vinyl acetate	0.0400	0.0399		mg/Kg		100	40 - 153	3	30
Vinyl chloride	0.0400	0.0415		mg/Kg		104	70 - 125	3	30
Xylenes, Total	0.0800	0.0710		mg/Kg		89	53 - 147	16	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	112		75 - 131
Dibromofluoromethane	96		75 - 126
1,2-Dichloroethane-d4 (Surr)	103		70 - 134
Toluene-d8 (Surr)	97		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

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

Lab Sample ID: MB 500-685466/7
Matrix: Solid
Analysis Batch: 685466

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			11/17/22 11:20	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			11/17/22 11:20	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			11/17/22 11:20	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			11/17/22 11:20	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			11/17/22 11:20	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			11/17/22 11:20	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			11/17/22 11:20	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			11/17/22 11:20	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			11/17/22 11:20	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			11/17/22 11:20	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			11/17/22 11:20	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			11/17/22 11:20	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			11/17/22 11:20	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			11/17/22 11:20	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			11/17/22 11:20	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			11/17/22 11:20	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			11/17/22 11:20	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			11/17/22 11:20	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			11/17/22 11:20	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			11/17/22 11:20	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			11/17/22 11:20	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			11/17/22 11:20	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			11/17/22 11:20	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			11/17/22 11:20	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			11/17/22 11:20	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			11/17/22 11:20	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			11/17/22 11:20	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/17/22 11:20	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			11/17/22 11:20	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			11/17/22 11:20	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			11/17/22 11:20	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			11/17/22 11:20	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			11/17/22 11:20	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/17/22 11:20	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			11/17/22 11:20	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			11/17/22 11:20	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			11/17/22 11:20	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	94		75 - 131		11/17/22 11:20	1
Dibromofluoromethane	86		75 - 126		11/17/22 11:20	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134		11/17/22 11:20	1
Toluene-d8 (Surr)	89		75 - 124		11/17/22 11:20	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

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

Lab Sample ID: LCS 500-685466/4
Matrix: Solid
Analysis Batch: 685466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0500	0.0455		mg/Kg		91	40 - 150
Benzene	0.0500	0.0517		mg/Kg		103	70 - 125
Bromodichloromethane	0.0500	0.0516		mg/Kg		103	67 - 129
Bromoform	0.0500	0.0478		mg/Kg		96	68 - 136
Bromomethane	0.0500	0.0550		mg/Kg		110	70 - 130
2-Butanone (MEK)	0.0500	0.0464		mg/Kg		93	47 - 138
Carbon disulfide	0.0500	0.0527		mg/Kg		105	70 - 129
Carbon tetrachloride	0.0500	0.0548		mg/Kg		110	75 - 125
Chlorobenzene	0.0500	0.0525		mg/Kg		105	50 - 150
Chloroethane	0.0500	0.0535		mg/Kg		107	75 - 125
Chloroform	0.0500	0.0542		mg/Kg		108	57 - 135
Chloromethane	0.0500	0.0501		mg/Kg		100	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0527		mg/Kg		105	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0493		mg/Kg		99	70 - 125
Dibromochloromethane	0.0500	0.0512		mg/Kg		102	69 - 125
1,1-Dichloroethane	0.0500	0.0516		mg/Kg		103	70 - 125
1,2-Dichloroethane	0.0500	0.0513		mg/Kg		103	70 - 130
1,1-Dichloroethene	0.0500	0.0533		mg/Kg		107	70 - 120
1,2-Dichloropropane	0.0500	0.0490		mg/Kg		98	70 - 125
Ethylbenzene	0.0500	0.0532		mg/Kg		106	61 - 136
2-Hexanone	0.0500	0.0451		mg/Kg		90	48 - 146
Methylene Chloride	0.0500	0.0523		mg/Kg		105	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0438		mg/Kg		88	50 - 148
Methyl tert-butyl ether	0.0500	0.0455		mg/Kg		91	50 - 140
Styrene	0.0500	0.0518		mg/Kg		104	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0511		mg/Kg		102	70 - 122
Tetrachloroethene	0.0500	0.0516		mg/Kg		103	70 - 124
Toluene	0.0500	0.0521		mg/Kg		104	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0540		mg/Kg		108	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0501		mg/Kg		100	70 - 125
1,1,1-Trichloroethane	0.0500	0.0540		mg/Kg		108	70 - 128
1,1,2-Trichloroethane	0.0500	0.0512		mg/Kg		102	70 - 125
Trichloroethene	0.0500	0.0511		mg/Kg		102	70 - 125
Vinyl acetate	0.0500	0.0444		mg/Kg		89	40 - 153
Vinyl chloride	0.0500	0.0505		mg/Kg		101	70 - 125
Xylenes, Total	0.100	0.105		mg/Kg		105	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	90		75 - 131
Dibromofluoromethane	83		75 - 126
1,2-Dichloroethane-d4 (Surr)	81		70 - 134
Toluene-d8 (Surr)	92		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

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

Lab Sample ID: LCSD 500-685466/5
Matrix: Solid
Analysis Batch: 685466

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.0500	0.0485		mg/Kg		97	40 - 150	6	30
Benzene	0.0500	0.0536		mg/Kg		107	70 - 125	4	30
Bromodichloromethane	0.0500	0.0556		mg/Kg		111	67 - 129	7	30
Bromoform	0.0500	0.0521		mg/Kg		104	68 - 136	9	30
Bromomethane	0.0500	0.0535		mg/Kg		107	70 - 130	3	30
2-Butanone (MEK)	0.0500	0.0501		mg/Kg		100	47 - 138	8	30
Carbon disulfide	0.0500	0.0539		mg/Kg		108	70 - 129	2	30
Carbon tetrachloride	0.0500	0.0568		mg/Kg		114	75 - 125	3	30
Chlorobenzene	0.0500	0.0554		mg/Kg		111	50 - 150	5	30
Chloroethane	0.0500	0.0528		mg/Kg		106	75 - 125	1	30
Chloroform	0.0500	0.0572		mg/Kg		114	57 - 135	5	30
Chloromethane	0.0500	0.0503		mg/Kg		101	70 - 125	1	30
cis-1,2-Dichloroethene	0.0500	0.0555		mg/Kg		111	70 - 125	5	30
cis-1,3-Dichloropropene	0.0500	0.0534		mg/Kg		107	70 - 125	8	30
Dibromochloromethane	0.0500	0.0564		mg/Kg		113	69 - 125	10	30
1,1-Dichloroethane	0.0500	0.0548		mg/Kg		110	70 - 125	6	30
1,2-Dichloroethane	0.0500	0.0556		mg/Kg		111	70 - 130	8	30
1,1-Dichloroethene	0.0500	0.0559		mg/Kg		112	70 - 120	5	30
1,2-Dichloropropane	0.0500	0.0521		mg/Kg		104	70 - 125	6	30
Ethylbenzene	0.0500	0.0558		mg/Kg		112	61 - 136	5	30
2-Hexanone	0.0500	0.0474		mg/Kg		95	48 - 146	5	30
Methylene Chloride	0.0500	0.0566		mg/Kg		113	70 - 126	8	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0467		mg/Kg		93	50 - 148	6	30
Methyl tert-butyl ether	0.0500	0.0501		mg/Kg		100	50 - 140	10	30
Styrene	0.0500	0.0547		mg/Kg		109	70 - 125	6	30
1,1,2,2-Tetrachloroethane	0.0500	0.0559		mg/Kg		112	70 - 122	9	30
Tetrachloroethene	0.0500	0.0539		mg/Kg		108	70 - 124	4	30
Toluene	0.0500	0.0550		mg/Kg		110	70 - 125	5	30
trans-1,2-Dichloroethene	0.0500	0.0563		mg/Kg		113	70 - 125	4	30
trans-1,3-Dichloropropene	0.0500	0.0533		mg/Kg		107	70 - 125	6	30
1,1,1-Trichloroethane	0.0500	0.0559		mg/Kg		112	70 - 128	4	30
1,1,2-Trichloroethane	0.0500	0.0553		mg/Kg		111	70 - 125	8	30
Trichloroethene	0.0500	0.0542		mg/Kg		108	70 - 125	6	30
Vinyl acetate	0.0500	0.0463		mg/Kg		93	40 - 153	4	30
Vinyl chloride	0.0500	0.0516		mg/Kg		103	70 - 125	2	30
Xylenes, Total	0.100	0.110		mg/Kg		110	53 - 147	5	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	91		75 - 131
Dibromofluoromethane	83		75 - 126
1,2-Dichloroethane-d4 (Surr)	83		70 - 134
Toluene-d8 (Surr)	92		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

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

Lab Sample ID: MB 500-686099/8
Matrix: Solid
Analysis Batch: 686099

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.010		0.010	0.0017	mg/Kg			11/20/22 13:29	1
Benzene	<0.00025		0.00025	0.00015	mg/Kg			11/20/22 13:29	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/Kg			11/20/22 13:29	1
Bromoform	<0.0010		0.0010	0.00048	mg/Kg			11/20/22 13:29	1
Bromomethane	<0.0030		0.0030	0.00080	mg/Kg			11/20/22 13:29	1
2-Butanone (MEK)	<0.0050		0.0050	0.0021	mg/Kg			11/20/22 13:29	1
Carbon disulfide	<0.0020		0.0020	0.00080	mg/Kg			11/20/22 13:29	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/Kg			11/20/22 13:29	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/Kg			11/20/22 13:29	1
Chloroethane	<0.0010		0.0010	0.00050	mg/Kg			11/20/22 13:29	1
Chloroform	<0.0020		0.0020	0.00037	mg/Kg			11/20/22 13:29	1
Chloromethane	<0.0010		0.0010	0.00032	mg/Kg			11/20/22 13:29	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/Kg			11/20/22 13:29	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/Kg			11/20/22 13:29	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/Kg			11/20/22 13:29	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/Kg			11/20/22 13:29	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/Kg			11/20/22 13:29	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/Kg			11/20/22 13:29	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/Kg			11/20/22 13:29	1
1,3-Dichloropropane, Total	<0.0010		0.0010	0.00042	mg/Kg			11/20/22 13:29	1
Ethylbenzene	<0.00025		0.00025	0.00018	mg/Kg			11/20/22 13:29	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			11/20/22 13:29	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/Kg			11/20/22 13:29	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0022	mg/Kg			11/20/22 13:29	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/Kg			11/20/22 13:29	1
Styrene	<0.0010		0.0010	0.00039	mg/Kg			11/20/22 13:29	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/Kg			11/20/22 13:29	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/Kg			11/20/22 13:29	1
Toluene	<0.00025		0.00025	0.00015	mg/Kg			11/20/22 13:29	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/Kg			11/20/22 13:29	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/Kg			11/20/22 13:29	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/Kg			11/20/22 13:29	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/Kg			11/20/22 13:29	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/Kg			11/20/22 13:29	1
Vinyl acetate	<0.0020		0.0020	0.00090	mg/Kg			11/20/22 13:29	1
Vinyl chloride	<0.0010		0.0010	0.00026	mg/Kg			11/20/22 13:29	1
Xylenes, Total	<0.00050		0.00050	0.00022	mg/Kg			11/20/22 13:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		72 - 124		11/20/22 13:29	1
Dibromofluoromethane	110		75 - 120		11/20/22 13:29	1
1,2-Dichloroethane-d4 (Surr)	124		75 - 126		11/20/22 13:29	1
Toluene-d8 (Surr)	103		75 - 120		11/20/22 13:29	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

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

Lab Sample ID: LCS 500-686099/5
Matrix: Solid
Analysis Batch: 686099

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0500	0.0431		mg/Kg		86	40 - 143
Benzene	0.0500	0.0495		mg/Kg		99	70 - 120
Bromodichloromethane	0.0500	0.0523		mg/Kg		105	69 - 120
Bromoform	0.0500	0.0532		mg/Kg		106	56 - 132
Bromomethane	0.0500	0.0525		mg/Kg		105	40 - 152
2-Butanone (MEK)	0.0500	0.0397		mg/Kg		79	46 - 144
Carbon disulfide	0.0500	0.0520		mg/Kg		104	66 - 120
Carbon tetrachloride	0.0500	0.0592		mg/Kg		118	59 - 133
Chlorobenzene	0.0500	0.0490		mg/Kg		98	70 - 120
Chloroethane	0.0500	0.0551		mg/Kg		110	48 - 136
Chloroform	0.0500	0.0512		mg/Kg		102	70 - 120
Chloromethane	0.0500	0.0486		mg/Kg		97	56 - 152
cis-1,2-Dichloroethene	0.0500	0.0488		mg/Kg		98	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0482		mg/Kg		96	64 - 127
Dibromochloromethane	0.0500	0.0500		mg/Kg		100	68 - 125
1,1-Dichloroethane	0.0500	0.0482		mg/Kg		96	70 - 125
1,2-Dichloroethane	0.0500	0.0555		mg/Kg		111	68 - 127
1,1-Dichloroethene	0.0500	0.0502		mg/Kg		100	67 - 122
1,2-Dichloropropane	0.0500	0.0447		mg/Kg		89	67 - 130
Ethylbenzene	0.0500	0.0444		mg/Kg		89	70 - 123
2-Hexanone	0.0500	0.0357		mg/Kg		71	54 - 146
Methylene Chloride	0.0500	0.0479		mg/Kg		96	69 - 125
4-Methyl-2-pentanone (MIBK)	0.0500	0.0397		mg/Kg		79	55 - 139
Methyl tert-butyl ether	0.0500	0.0470		mg/Kg		94	55 - 123
Styrene	0.0500	0.0478		mg/Kg		96	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0425		mg/Kg		85	62 - 140
Tetrachloroethene	0.0500	0.0537		mg/Kg		107	70 - 128
Toluene	0.0500	0.0477		mg/Kg		95	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0486		mg/Kg		97	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0470		mg/Kg		94	62 - 128
1,1,1-Trichloroethane	0.0500	0.0554		mg/Kg		111	70 - 125
1,1,2-Trichloroethane	0.0500	0.0459		mg/Kg		92	71 - 130
Trichloroethene	0.0500	0.0461		mg/Kg		92	70 - 125
Vinyl acetate	0.0500	0.0380		mg/Kg		76	43 - 133
Vinyl chloride	0.0500	0.0408		mg/Kg		82	64 - 126
Xylenes, Total	0.100	0.104		mg/Kg		104	70 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	93		72 - 124
Dibromofluoromethane	100		75 - 120
1,2-Dichloroethane-d4 (Surr)	115		75 - 126
Toluene-d8 (Surr)	103		75 - 120

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

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

Lab Sample ID: MB 500-685446/1-A
Matrix: Solid
Analysis Batch: 686154

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685446

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Isophorone	<0.17		0.17	0.037	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Carbazole	<0.17		0.17	0.083	mg/Kg		11/17/22 07:24	11/20/22 17:04	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

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

Lab Sample ID: MB 500-685446/1-A
Matrix: Solid
Analysis Batch: 686154

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685446

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Bis(2-ethylhexyl) phthalate	0.0813	J	0.17	0.061	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		11/17/22 07:24	11/20/22 17:04	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorophenol	102		31 - 166	11/17/22 07:24	11/20/22 17:04	1
Phenol-d5	96		30 - 153	11/17/22 07:24	11/20/22 17:04	1
Nitrobenzene-d5 (Surr)	66		37 - 147	11/17/22 07:24	11/20/22 17:04	1
2-Fluorobiphenyl (Surr)	79		43 - 145	11/17/22 07:24	11/20/22 17:04	1
2,4,6-Tribromophenol	71		31 - 143	11/17/22 07:24	11/20/22 17:04	1
Terphenyl-d14 (Surr)	79		42 - 157	11/17/22 07:24	11/20/22 17:04	1

Lab Sample ID: LCS 500-685446/2-A
Matrix: Solid
Analysis Batch: 686154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685446

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Bis(2-chloroethyl)ether	1.33	1.02		mg/Kg		76	55 - 111
1,3-Dichlorobenzene	1.33	1.08		mg/Kg		81	65 - 124
1,4-Dichlorobenzene	1.33	1.08		mg/Kg		81	61 - 110
1,2-Dichlorobenzene	1.33	1.09		mg/Kg		81	62 - 110
2-Methylphenol	1.33	1.22		mg/Kg		91	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	0.729		mg/Kg		55	40 - 124
N-Nitrosodi-n-propylamine	1.33	0.921		mg/Kg		69	56 - 118
Hexachloroethane	1.33	0.926		mg/Kg		69	60 - 114
2-Chlorophenol	1.33	1.12		mg/Kg		84	64 - 110
Nitrobenzene	1.33	1.01		mg/Kg		76	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.09		mg/Kg		82	60 - 112
1,2,4-Trichlorobenzene	1.33	1.14		mg/Kg		86	66 - 117
Isophorone	1.33	0.990		mg/Kg		74	55 - 110
2,4-Dimethylphenol	1.33	1.10		mg/Kg		82	60 - 110
Hexachlorobutadiene	1.33	0.998		mg/Kg		75	56 - 120
Naphthalene	1.33	1.15		mg/Kg		86	63 - 110
2,4-Dichlorophenol	1.33	1.12		mg/Kg		84	58 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

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

Lab Sample ID: LCS 500-685446/2-A

Matrix: Solid

Analysis Batch: 686154

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 685446

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloroaniline	1.33	0.685		mg/Kg		51	30 - 150
2,4,6-Trichlorophenol	1.33	0.979		mg/Kg		73	57 - 120
2,4,5-Trichlorophenol	1.33	1.09		mg/Kg		82	50 - 120
Hexachlorocyclopentadiene	1.33	0.275	J	mg/Kg		21	10 - 133
2-Methylnaphthalene	1.33	1.11		mg/Kg		84	69 - 112
2-Nitroaniline	1.33	0.864		mg/Kg		65	57 - 124
2-Chloronaphthalene	1.33	1.12		mg/Kg		84	69 - 114
4-Chloro-3-methylphenol	1.33	1.12		mg/Kg		84	65 - 122
2,6-Dinitrotoluene	1.33	1.15		mg/Kg		86	70 - 123
2-Nitrophenol	1.33	1.19		mg/Kg		89	60 - 120
3-Nitroaniline	1.33	0.834		mg/Kg		63	40 - 122
Dimethyl phthalate	1.33	1.23		mg/Kg		93	69 - 116
2,4-Dinitrophenol	2.67	0.882		mg/Kg		33	10 - 100
Acenaphthylene	1.33	1.20		mg/Kg		90	68 - 120
2,4-Dinitrotoluene	1.33	1.21		mg/Kg		91	69 - 124
Acenaphthene	1.33	1.11		mg/Kg		83	65 - 124
Dibenzofuran	1.33	1.17		mg/Kg		88	66 - 115
4-Nitrophenol	2.67	1.17		mg/Kg		44	30 - 122
Fluorene	1.33	1.15		mg/Kg		86	62 - 120
4-Nitroaniline	1.33	1.10		mg/Kg		83	60 - 160
4-Bromophenyl phenyl ether	1.33	0.988		mg/Kg		74	68 - 118
Hexachlorobenzene	1.33	1.11		mg/Kg		83	63 - 124
Diethyl phthalate	1.33	0.990		mg/Kg		74	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.11		mg/Kg		83	62 - 119
Pentachlorophenol	2.67	1.19		mg/Kg		45	13 - 112
N-Nitrosodiphenylamine	1.33	1.13		mg/Kg		85	65 - 112
4,6-Dinitro-2-methylphenol	2.67	1.35		mg/Kg		51	10 - 110
Phenanthrene	1.33	1.14		mg/Kg		85	62 - 120
Anthracene	1.33	1.15		mg/Kg		86	70 - 114
Carbazole	1.33	1.26		mg/Kg		94	65 - 142
Di-n-butyl phthalate	1.33	1.10		mg/Kg		82	65 - 120
Fluoranthene	1.33	1.30		mg/Kg		97	62 - 120
Pyrene	1.33	1.09		mg/Kg		81	61 - 128
Butyl benzyl phthalate	1.33	0.918	*-	mg/Kg		69	71 - 129
Benzo[a]anthracene	1.33	1.20		mg/Kg		90	67 - 122
Chrysene	1.33	1.21		mg/Kg		90	63 - 120
3,3'-Dichlorobenzidine	1.33	0.981		mg/Kg		74	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	0.917	*-	mg/Kg		69	72 - 131
Di-n-octyl phthalate	1.33	1.27		mg/Kg		95	68 - 134
Benzo[b]fluoranthene	1.33	1.08		mg/Kg		81	69 - 129
Benzo[k]fluoranthene	1.33	1.08		mg/Kg		81	68 - 127
Benzo[a]pyrene	1.33	1.22		mg/Kg		91	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.10		mg/Kg		82	68 - 130
Dibenz(a,h)anthracene	1.33	1.02		mg/Kg		77	64 - 131
Benzo[g,h,i]perylene	1.33	1.23		mg/Kg		92	72 - 131
3 & 4 Methylphenol	1.33	1.15		mg/Kg		86	57 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

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

Lab Sample ID: LCS 500-685446/2-A
Matrix: Solid
Analysis Batch: 686154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685446

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	97		31 - 166
Phenol-d5	88		30 - 153
Nitrobenzene-d5 (Surr)	69		37 - 147
2-Fluorobiphenyl (Surr)	79		43 - 145
2,4,6-Tribromophenol	84		31 - 143
Terphenyl-d14 (Surr)	83		42 - 157

Method: 6010B - SPLP Metals

Lab Sample ID: LCS 500-685409/2-A
Matrix: Solid
Analysis Batch: 686365

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685409

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Iron	1.00	0.995		mg/L		99	80 - 120	
Lead	0.100	0.0911		mg/L		91	80 - 120	
Manganese	0.500	0.493		mg/L		99	80 - 120	

Lab Sample ID: LB 500-685080/1-B
Matrix: Solid
Analysis Batch: 686365

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 685409

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Iron	<0.20		0.20	0.20	mg/L		11/16/22 17:36	11/21/22 12:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/16/22 17:36	11/21/22 12:01	1
Manganese	<0.025		0.025	0.010	mg/L		11/16/22 17:36	11/21/22 12:01	1

Lab Sample ID: 500-225163-3 MS
Matrix: Solid
Analysis Batch: 686365

Client Sample ID: 1401V3-05-B03 (0-4)
Prep Type: SPLP East
Prep Batch: 685409

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	
Iron	94		1.00	121	4	mg/L		2720	75 - 125	
Lead	0.12		0.100	0.229		mg/L		108	75 - 125	
Manganese	0.52		0.500	1.09		mg/L		113	75 - 125	

Lab Sample ID: 500-225163-3 DU
Matrix: Solid
Analysis Batch: 686365

Client Sample ID: 1401V3-05-B03 (0-4)
Prep Type: SPLP East
Prep Batch: 685409

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	RPD	
			Result	Qualifier				RPD	Limit
Iron	94		93.5		mg/L		0.8	20	
Lead	0.12		0.120		mg/L		1	20	
Manganese	0.52		0.527		mg/L		0.5	20	

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-684901/1-A
Matrix: Solid
Analysis Batch: 685232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 684901

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Arsenic	<1.0		1.0	0.34	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Barium	<1.0		1.0	0.11	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Beryllium	<0.40		0.40	0.093	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Boron	<5.0		5.0	0.47	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Cadmium	<0.20		0.20	0.036	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Calcium	<20		20	3.4	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Chromium	<1.0		1.0	0.50	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Cobalt	<0.50		0.50	0.13	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Copper	<1.0		1.0	0.28	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Iron	<20		20	10	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Lead	<0.50		0.50	0.23	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Magnesium	<10		10	5.0	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Manganese	<1.0		1.0	0.15	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Nickel	<1.0		1.0	0.29	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Potassium	<50		50	18	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Selenium	<1.0		1.0	0.59	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Silver	<0.50		0.50	0.13	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Sodium	<100		100	15	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Thallium	<1.0		1.0	0.50	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Vanadium	<0.50		0.50	0.12	mg/Kg		11/14/22 17:20	11/16/22 00:25	1

Lab Sample ID: MB 500-684901/1-A
Matrix: Solid
Analysis Batch: 685531

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 684901

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Zinc	<2.0		2.0	0.88	mg/Kg		11/14/22 17:20	11/16/22 13:44	1

Lab Sample ID: LCS 500-684901/2-A
Matrix: Solid
Analysis Batch: 685232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684901

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Antimony	50.0	44.6		mg/Kg		89	80 - 120	
Arsenic	10.0	8.79		mg/Kg		88	80 - 120	
Barium	200	198		mg/Kg		99	80 - 120	
Beryllium	5.00	4.79		mg/Kg		96	80 - 120	
Boron	100	81.8		mg/Kg		82	80 - 120	
Cadmium	5.00	4.56		mg/Kg		91	80 - 120	
Calcium	1000	932		mg/Kg		93	80 - 120	
Chromium	20.0	18.4		mg/Kg		92	80 - 120	
Cobalt	50.0	49.0		mg/Kg		98	80 - 120	
Copper	25.0	23.5		mg/Kg		94	80 - 120	
Iron	100	97.5		mg/Kg		98	80 - 120	
Lead	10.0	9.06		mg/Kg		91	80 - 120	
Magnesium	1000	906		mg/Kg		91	80 - 120	
Manganese	50.0	46.5		mg/Kg		93	80 - 120	
Nickel	50.0	47.5		mg/Kg		95	80 - 120	

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-684901/2-A
Matrix: Solid
Analysis Batch: 685232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684901

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec	Limits
		Result	Qualifier					
Potassium	1000	971		mg/Kg		97		80 - 120
Selenium	10.0	8.14		mg/Kg		81		80 - 120
Silver	5.00	4.03		mg/Kg		81		80 - 120
Sodium	1000	1020		mg/Kg		102		80 - 120
Thallium	10.0	8.80		mg/Kg		88		80 - 120
Vanadium	50.0	48.5		mg/Kg		97		80 - 120

Lab Sample ID: LCS 500-684901/2-A
Matrix: Solid
Analysis Batch: 685531

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684901

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec	Limits
		Result	Qualifier					
Zinc	50.0	45.9		mg/Kg		92		80 - 120

Lab Sample ID: LCS 500-685407/2-A
Matrix: Solid
Analysis Batch: 685824

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685407

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec	Limits
		Result	Qualifier					
Barium	0.500	0.485	J	mg/L		97		80 - 120
Beryllium	0.0500	0.0487		mg/L		97		80 - 120
Boron	1.00	0.916		mg/L		92		80 - 120
Cadmium	0.0500	0.0516		mg/L		103		80 - 120
Chromium	0.200	0.196		mg/L		98		80 - 120
Cobalt	0.500	0.500		mg/L		100		80 - 120
Iron	1.00	0.961		mg/L		96		80 - 120
Lead	0.100	0.0944		mg/L		94		80 - 120
Manganese	0.500	0.481		mg/L		96		80 - 120
Nickel	0.500	0.490		mg/L		98		80 - 120
Selenium	0.100	0.105		mg/L		105		80 - 120
Silver	0.0500	0.0545		mg/L		109		80 - 120
Zinc	0.500	0.521		mg/L		104		80 - 120

Lab Sample ID: LB 500-685076/1-B
Matrix: Solid
Analysis Batch: 685824

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685407

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		11/16/22 17:32	11/17/22 16:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/22 17:32	11/17/22 16:30	1
Boron	<0.50		0.50	0.050	mg/L		11/16/22 17:32	11/17/22 16:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/16/22 17:32	11/17/22 16:30	1
Chromium	<0.025		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:30	1
Cobalt	<0.025		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:30	1
Iron	<0.40		0.40	0.20	mg/L		11/16/22 17:32	11/17/22 16:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/16/22 17:32	11/17/22 16:30	1
Manganese	<0.025		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:30	1
Nickel	<0.025		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:30	1
Selenium	<0.050		0.050	0.020	mg/L		11/16/22 17:32	11/17/22 16:30	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-685076/1-B
Matrix: Solid
Analysis Batch: 685824

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685407

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		11/16/22 17:32	11/17/22 16:30	1
Zinc	<0.50		0.50	0.020	mg/L		11/16/22 17:32	11/17/22 16:30	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-685407/2-A
Matrix: Solid
Analysis Batch: 685882

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685407

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.491		mg/L		98	80 - 120
Thallium	0.100	0.102		mg/L		102	80 - 120

Lab Sample ID: LB 500-685076/1-B
Matrix: Solid
Analysis Batch: 685882

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685407

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/16/22 17:32	11/17/22 21:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/16/22 17:32	11/17/22 21:53	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-685599/12-A
Matrix: Solid
Analysis Batch: 685896

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685599

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/17/22 12:30	11/18/22 09:52	1

Lab Sample ID: LCS 500-685599/14-A
Matrix: Solid
Analysis Batch: 685896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685599

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00187		mg/L		94	80 - 120

Lab Sample ID: LB 500-685076/1-C
Matrix: Solid
Analysis Batch: 685896

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685599

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/17/22 12:30	11/18/22 09:54	1

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-685603/12-A
Matrix: Solid
Analysis Batch: 685886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685603

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		11/17/22 15:25	11/18/22 07:38	1

Lab Sample ID: LCS 500-685603/13-A
Matrix: Solid
Analysis Batch: 685886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685603

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.153		mg/Kg		93	80 - 120

Method: 9045D - pH

Lab Sample ID: 500-225163-2 DU
Matrix: Solid
Analysis Batch: 685250

Client Sample ID: 1401V3-05-B02 (0-4)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.5		7.5		SU		0.3	

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

Client Sample ID: 1401V3-05-B01 (0-4)

Lab Sample ID: 500-225163-1

Date Collected: 11/09/22 13:35

Matrix: Solid

Date Received: 11/09/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			685076	AW	EET CHI	11/15/22 13:08 - 11/16/22 07:08 ¹
TCLP	Prep	3010A			685407	LMB	EET CHI	11/16/22 17:32 - 11/16/22 18:02 ¹
TCLP	Analysis	6010B		1	685824	JJB	EET CHI	11/17/22 16:37
TCLP	Leach	1311			685076	AW	EET CHI	11/15/22 13:08 - 11/16/22 07:08 ¹
TCLP	Prep	3010A			685407	LMB	EET CHI	11/16/22 17:32 - 11/16/22 18:02 ¹
TCLP	Analysis	6020A		1	685882	FXG	EET CHI	11/17/22 22:00
TCLP	Leach	1311			685076	AW	EET CHI	11/15/22 13:08 - 11/16/22 07:08 ¹
TCLP	Prep	7470A			685599	MJG	EET CHI	11/17/22 12:30 - 11/17/22 14:30 ¹
TCLP	Analysis	7470A		1	685896	MJG	EET CHI	11/18/22 09:59
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 19:22
Total/NA	Analysis	Moisture		1	684487	LWN	EET CHI	11/11/22 10:13

Client Sample ID: 1401V3-05-B01 (0-4)

Lab Sample ID: 500-225163-1

Date Collected: 11/09/22 13:35

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684693	WRE	EET CHI	11/10/22 17:39
Total/NA	Analysis	8260B		1	684731	W1T	EET CHI	11/14/22 18:08
Total/NA	Prep	3541			685446	KN	EET CHI	11/17/22 07:24 - 11/17/22 15:30 ¹
Total/NA	Analysis	8270D		1	686590	SS	EET CHI	11/22/22 23:44
Total/NA	Prep	3050B			684901	LMB	EET CHI	11/14/22 17:20 - 11/14/22 17:50 ¹
Total/NA	Analysis	6010B		1	685232	JJB	EET CHI	11/16/22 01:48
Total/NA	Prep	3050B			684901	LMB	EET CHI	11/14/22 17:20 - 11/14/22 17:50 ¹
Total/NA	Analysis	6010B		1	685531	JJB	EET CHI	11/16/22 14:22
Total/NA	Prep	7471B			685603	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 07:48

Client Sample ID: 1401V3-05-B02 (0-4)

Lab Sample ID: 500-225163-2

Date Collected: 11/09/22 13:40

Matrix: Solid

Date Received: 11/09/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685080	AW	EET CHI	11/15/22 13:08 - 11/16/22 13:08 ¹
SPLP East	Prep	3010A			685409	LMB	EET CHI	11/16/22 17:36 - 11/16/22 18:06 ¹
SPLP East	Analysis	6010B		1	686365	JJB	EET CHI	11/21/22 13:08
TCLP	Leach	1311			685076	AW	EET CHI	11/15/22 13:08 - 11/16/22 07:08 ¹
TCLP	Prep	3010A			685407	LMB	EET CHI	11/16/22 17:32 - 11/16/22 18:02 ¹
TCLP	Analysis	6010B		1	685824	JJB	EET CHI	11/17/22 16:40
TCLP	Leach	1311			685076	AW	EET CHI	11/15/22 13:08 - 11/16/22 07:08 ¹
TCLP	Prep	3010A			685407	LMB	EET CHI	11/16/22 17:32 - 11/16/22 18:02 ¹
TCLP	Analysis	6020A		1	685882	FXG	EET CHI	11/17/22 22:03
TCLP	Leach	1311			685076	AW	EET CHI	11/15/22 13:08 - 11/16/22 07:08 ¹
TCLP	Prep	7470A			685599	MJG	EET CHI	11/17/22 12:30 - 11/17/22 14:30 ¹
TCLP	Analysis	7470A		1	685896	MJG	EET CHI	11/18/22 10:01

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

Client Sample ID: 1401V3-05-B02 (0-4)

Lab Sample ID: 500-225163-2

Date Collected: 11/09/22 13:40

Matrix: Solid

Date Received: 11/09/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	685250	EH	EET CHI	11/16/22 10:30 - 11/16/22 10:41 ¹
Total/NA	Analysis	Moisture		1	684487	LWN	EET CHI	11/11/22 10:13

Client Sample ID: 1401V3-05-B02 (0-4)

Lab Sample ID: 500-225163-2

Date Collected: 11/09/22 13:40

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 73.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684693	WRE	EET CHI	11/10/22 17:39
Total/NA	Analysis	8260B		1	684731	W1T	EET CHI	11/14/22 18:32
Total/NA	Prep	5035	DL		686078	WRE	EET CHI	11/09/22 13:40
Total/NA	Analysis	8260B	DL	50	686099	PSP	EET CHI	11/20/22 21:09
Total/NA	Prep	3541			685446	KN	EET CHI	11/17/22 07:24 - 11/17/22 15:30 ¹
Total/NA	Analysis	8270D		1	686590	SS	EET CHI	11/23/22 00:07
Total/NA	Prep	3050B			684901	LMB	EET CHI	11/14/22 17:20 - 11/14/22 17:50 ¹
Total/NA	Analysis	6010B		1	685232	JJB	EET CHI	11/16/22 01:51
Total/NA	Prep	3050B			684901	LMB	EET CHI	11/14/22 17:20 - 11/14/22 17:50 ¹
Total/NA	Analysis	6010B		1	685531	JJB	EET CHI	11/16/22 14:25
Total/NA	Prep	7471B			685603	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 07:50

Client Sample ID: 1401V3-05-B03 (0-4)

Lab Sample ID: 500-225163-3

Date Collected: 11/09/22 13:45

Matrix: Solid

Date Received: 11/09/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685080	AW	EET CHI	11/15/22 13:08 - 11/16/22 13:08 ¹
SPLP East	Prep	3010A			685409	LMB	EET CHI	11/16/22 17:36 - 11/16/22 18:06 ¹
SPLP East	Analysis	6010B		1	686365	JJB	EET CHI	11/21/22 13:11
TCLP	Leach	1311			685076	AW	EET CHI	11/15/22 13:08 - 11/16/22 07:08 ¹
TCLP	Prep	3010A			685407	LMB	EET CHI	11/16/22 17:32 - 11/16/22 18:02 ¹
TCLP	Analysis	6010B		1	685824	JJB	EET CHI	11/17/22 16:43
TCLP	Leach	1311			685076	AW	EET CHI	11/15/22 13:08 - 11/16/22 07:08 ¹
TCLP	Prep	3010A			685407	LMB	EET CHI	11/16/22 17:32 - 11/16/22 18:02 ¹
TCLP	Analysis	6020A		1	685882	FXG	EET CHI	11/17/22 22:07
TCLP	Leach	1311			685076	AW	EET CHI	11/15/22 13:08 - 11/16/22 07:08 ¹
TCLP	Prep	7470A			685599	MJG	EET CHI	11/17/22 12:30 - 11/17/22 14:30 ¹
TCLP	Analysis	7470A		1	685896	MJG	EET CHI	11/18/22 10:03
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 19:27
Total/NA	Analysis	Moisture		1	684487	LWN	EET CHI	11/11/22 10:13

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

Client Sample ID: 1401V3-05-B03 (0-4)

Lab Sample ID: 500-225163-3

Date Collected: 11/09/22 13:45

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684693	WRE	EET CHI	11/10/22 17:39
Total/NA	Analysis	8260B		1	685466	W1T	EET CHI	11/17/22 18:05
Total/NA	Prep	3541			685446	KN	EET CHI	11/17/22 07:24 - 11/17/22 15:30 ¹
Total/NA	Analysis	8270D		1	686590	SS	EET CHI	11/23/22 00:30
Total/NA	Prep	3050B			684901	LMB	EET CHI	11/14/22 17:20 - 11/14/22 17:50 ¹
Total/NA	Analysis	6010B		1	685232	JJB	EET CHI	11/16/22 01:54
Total/NA	Prep	3050B			684901	LMB	EET CHI	11/14/22 17:20 - 11/14/22 17:50 ¹
Total/NA	Analysis	6010B		1	685531	JJB	EET CHI	11/16/22 14:34
Total/NA	Prep	7471B			685603	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 07:52

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225163-1

Laboratory: Eurofins Chicago

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

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

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- 16

Chain of Custody Record

522924




Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact Company Name: WSP Address: 30 N. LaSalle City/State/Zip: Chicago, IL Phone: _____ Fax: _____ Project Name: DOT W013 Butterfield Rd Site: _____ P O #: PO: 31403025.D13		Project Manager: D. TIEBOLT Tel/Email: _____ Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below: <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Contact: A. HARREL Date: 11/9/22 Lab Contact: R. WRIGHT Carrier: _____ COC No: 4 of 7 COCs Sampler: _____ For Lab Use Only Walk-in Client: <input type="checkbox"/> Lab Sampling: <input type="checkbox"/> Job / SDG No: 500-225163													
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		Matrix		# of Cont.		Filtered Sample (Y/N) Perform MS / MSD (Y/N)		 500-225163 COC		Sample Specific Notes	
		1 11/01/23 - 05 - B01 (0-4)		11/9/22		1335		C		S		2				pH % Solids Total Metals VOC's SVOC's TC/PC	
2 11/01/23 - 05 - B02 (0-4)		11/9/22		1340		C		S		2		X X X X X X					
3 11/01/23 - 05 - B03 (0-4)		11/9/22		1345		C		S		2		X X X X X X					
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other																	
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months							
Special Instructions/QC Requirements & Comments: *SPLP dependent on TCLP results																	
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd		Corr'd		Therm ID No									
Relinquished by: COOPER COOPER CORP		Company: WSP		Date/Time: 11/9/22 1545		Received by: M. J. Ellias		Company: ETA		Date/Time: 11/9/22 1545							
Relinquished by: M. J. Ellias		Company: ETA		Date/Time: 11/9/22 1700		Received by: _____		Company: _____		Date/Time: _____							
Relinquished by: _____		Company: _____		Date/Time: _____		Received in Laboratory by: M. J. Ellias		Company: ETA		Date/Time: 11/10/22 0750							

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225163-1

Login Number: 225163

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.5,2.5,5.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Eurofins Chicago

Job Notes

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

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Authorization



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11/23/2022 5:31:40 PM

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



Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 365 & FAP 870 (Butterfield Road) Office Phone Number, if available: _____

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

22 W 066-086 Prairie Green Court (ISGS #1401V3-6)

City: Glen Ellyn State: IL Zip Code: 60137

County: DuPage Township: Milton

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

Latitude: 41.83224 Longitude: -88.05505
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 332

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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



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

Analytical Data Summary
PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

Key to Data Tables

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

Criteria Qualifiers and Shading

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

PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

CONTAMINANTS OF CONCERN

SITE	ISGS #1401V3-06 (Residences)		Comparison Criteria					
	1401V3-06-B01		MACs			TACO		
BORING	1401V3-06-B01		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1401V3-06-B01 (0-4)	1401V3-06-B01 (4-8)						
MATRIX	Soil	Soil						
DEPTH (feet)	0-4	4-8						
pH	6.7	6.9						
PID (meter units)	--	--						
VOCs (None Detected)								
SVOCs (None Detected)								
Inorganics (mg/kg)								
Antimony	0.31 J	0.36 J	5	--	--	31	82	--
Arsenic	11	11	11.3	13	--	13	61	--
Barium	35	13	1,500	--	--	5,500	14,000	--
Beryllium	0.75	0.47	22	--	--	160	410	--
Boron	7.8	5.6	40	--	--	16,000	41,000	--
Cadmium	0.23	0.31	5.2	--	--	78	200	--
Calcium	19,000	62,000	--	--	--	--	--	--
Chromium	13	7.4	21	--	--	230	690	--
Cobalt	12	8.8	20	--	--	4,700	12,000	--
Copper	28	26	2,900	--	--	2,900	8,200	--
Iron	21,000 †m	15,000	15,000	15,900	--	--	--	--
Lead	19	14	107	--	--	400	700	--
Magnesium	14,000	27,000	325,000	--	--	--	730,000	--
Manganese	430	280	630	636	--	1,600	4,100	--
Mercury	0.022	0.015 J	0.89	--	--	10	0.1	--
Nickel	30	22	100	--	--	1,600	4,100	--
Potassium	1,900	1,100 J	--	--	--	--	--	--
Silver	0.22 J	0.16 J	4.4	--	--	390	1,000	--
Sodium	260	160	--	--	--	--	--	--
Thallium	0.57	0.56 J	2.6	--	--	6.3	160	--
Vanadium	17	10	550	--	--	550	1,400	--
Zinc	89	90	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)								
Barium	0.32 J	0.26 J	--	--	--	--	--	2
Boron	1.1	0.96	--	--	--	--	--	2
Cadmium	ND U	0.0024 J	--	--	--	--	--	0.005
Cobalt	ND U	0.012 J	--	--	--	--	--	1
Iron	ND U	ND U	--	--	--	--	--	5
Manganese	1.1 L	1.5 L	--	--	--	--	--	0.15
Nickel	0.010 J	0.015 J	--	--	--	--	--	0.1
Zinc	0.050 J	0.050 J	--	--	--	--	--	5
SPLP Metals (mg/L)								
Manganese	0.47 L	0.24 L	--	--	--	--	--	0.15



ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/1/2022 5:57:01 PM

JOB DESCRIPTION

IDOT - 196-002-WO 13 IL 56

JOB NUMBER

500-225161-1

Eurofins Chicago

Job Notes

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

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Authorization



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Authorized for release by
Jodie Bracken, Project Management Assistant II
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Designee for
Richard Wright, Senior Project Manager
Richard.Wright@et.eurofinsus.com
(708)746-0045

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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

Job ID: 500-225161-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225161-1

Receipt

The samples were received on 11/9/2022 5:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.5° C, 5.5° C and 5.6° C.

GC/MS VOA

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

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-686590 was outside the method criteria for the following analyte(s): Benzo[g,h,i]perylene, Dibenz(a,h)anthracene, Di-n-octyl phthalate and Phenol-d5. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-686590 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Perylene-d12 Internal standard (ISTD) response for the following samples was outside of acceptance limits: 1401V3-06-B02 (4-8) (500-225161-2) and 1401V3-06-B01 (0-4) (500-225161-3). Analytes associated to this internal standard were non-detect and/or below the reporting limit; therefore, re-analysis was not performed.

Method 8270D: The method blank for preparation batch 500-685446 and analytical batch 500-686154 contained Bis(2-ethylhexyl) phthalate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-686691 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-686691 was outside the method criteria for the following analyte(s): Benzoic acid, 2-Methylphenol and 3 & 4 Methylphenol. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The following sample was diluted due to the nature of the sample matrix: 1401V3-06-B02 (0-4) (500-225161-1). Elevated reporting limits (RLs) are provided.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-687487 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-687487 was outside the method criteria for the following analyte(s): Phenol-d5, Di-n-octyl phthalate and Dibenz(a,h)anthracene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Surrogate recovery for the following sample was outside the upper control limit: (MB 500-686807/1-A). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

Metals

Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

Job ID: 500-225161-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

Method 6010B: The method blank for preparation batch 500-684902 and analytical batch 500-685803 contained Magnesium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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

General Chemistry

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

Organic Prep

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

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Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

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- 13
- 14
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Client Sample ID: 1401V3-06-B01 (0-4)

Lab Sample ID: 500-225161-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Antimony	0.31	J	1.1	0.21	mg/Kg	1	✳		6010B	Total/NA
Arsenic	11		0.55	0.19	mg/Kg	1	✳		6010B	Total/NA
Barium	35		0.55	0.062	mg/Kg	1	✳		6010B	Total/NA
Beryllium	0.75		0.22	0.051	mg/Kg	1	✳		6010B	Total/NA
Boron	7.8		2.7	0.25	mg/Kg	1	✳		6010B	Total/NA
Cadmium	0.23		0.11	0.020	mg/Kg	1	✳		6010B	Total/NA
Calcium	19000	B	11	1.9	mg/Kg	1	✳		6010B	Total/NA
Chromium	13		0.55	0.27	mg/Kg	1	✳		6010B	Total/NA
Cobalt	12		0.27	0.072	mg/Kg	1	✳		6010B	Total/NA
Copper	28		0.55	0.15	mg/Kg	1	✳		6010B	Total/NA
Iron	21000	B	11	5.7	mg/Kg	1	✳		6010B	Total/NA
Lead	19		0.27	0.13	mg/Kg	1	✳		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

Client Sample ID: 1401V3-06-B01 (0-4) (Continued)

Lab Sample ID: 500-225161-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	14000	B	5.5	2.7	mg/Kg	1	☒	6010B	Total/NA
Manganese	430	B	0.55	0.079	mg/Kg	1	☒	6010B	Total/NA
Nickel	30		0.55	0.16	mg/Kg	1	☒	6010B	Total/NA
Potassium	1900		27	9.7	mg/Kg	1	☒	6010B	Total/NA
Silver	0.22	J	0.27	0.071	mg/Kg	1	☒	6010B	Total/NA
Sodium	260		55	8.1	mg/Kg	1	☒	6010B	Total/NA
Thallium	0.57		0.55	0.27	mg/Kg	1	☒	6010B	Total/NA
Vanadium	17		0.27	0.064	mg/Kg	1	☒	6010B	Total/NA
Zinc	89		1.1	0.48	mg/Kg	1	☒	6010B	Total/NA
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.1		0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.050	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.47		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.017	0.0058	mg/Kg	1	☒	7471B	Total/NA
pH	6.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-06-B01 (4-8)

Lab Sample ID: 500-225161-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.36	J F1	1.0	0.20	mg/Kg	1	☒	6010B	Total/NA
Arsenic	11		0.52	0.18	mg/Kg	1	☒	6010B	Total/NA
Barium	13		0.52	0.059	mg/Kg	1	☒	6010B	Total/NA
Beryllium	0.47		0.21	0.049	mg/Kg	1	☒	6010B	Total/NA
Boron	5.6		2.6	0.24	mg/Kg	1	☒	6010B	Total/NA
Cadmium	0.31		0.10	0.019	mg/Kg	1	☒	6010B	Total/NA
Calcium	62000	B	52	8.8	mg/Kg	5	☒	6010B	Total/NA
Chromium	7.4		0.52	0.26	mg/Kg	1	☒	6010B	Total/NA
Cobalt	8.8		0.26	0.068	mg/Kg	1	☒	6010B	Total/NA
Copper	26		0.52	0.15	mg/Kg	1	☒	6010B	Total/NA
Iron	15000	B	10	5.4	mg/Kg	1	☒	6010B	Total/NA
Lead	14		0.26	0.12	mg/Kg	1	☒	6010B	Total/NA
Magnesium	27000	B	5.2	2.6	mg/Kg	1	☒	6010B	Total/NA
Manganese	280	B	0.52	0.075	mg/Kg	1	☒	6010B	Total/NA
Nickel	22		0.52	0.15	mg/Kg	1	☒	6010B	Total/NA
Potassium	1100	F1	26	9.2	mg/Kg	1	☒	6010B	Total/NA
Silver	0.16	J	0.26	0.067	mg/Kg	1	☒	6010B	Total/NA
Sodium	160		52	7.7	mg/Kg	1	☒	6010B	Total/NA
Thallium	0.56	F1	0.52	0.26	mg/Kg	1	☒	6010B	Total/NA
Vanadium	10		0.26	0.061	mg/Kg	1	☒	6010B	Total/NA
Zinc	90		1.0	0.46	mg/Kg	1	☒	6010B	Total/NA
Barium	0.26	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.96		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0024	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.050	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.015	J	0.016	0.0055	mg/Kg	1	☒	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

Client Sample ID: 1401V3-06-B01 (4-8) (Continued)

Lab Sample ID: 500-225161-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	6.9		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010B	Metals (ICP)	SW846	EET CHI
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225161-3	1401V3-06-B01 (0-4)	Solid	11/09/22 12:15	11/09/22 17:00
500-225161-4	1401V3-06-B01 (4-8)	Solid	11/09/22 12:18	11/09/22 17:00

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

Client Sample ID: 1401V3-06-B01 (0-4)

Lab Sample ID: 500-225161-3

Date Collected: 11/09/22 12:15

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.023		0.023	0.0099	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
Benzene	<0.0023		0.0023	0.00058	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
Bromodichloromethane	<0.0023		0.0023	0.00046	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
Bromoform	<0.0023		0.0023	0.00066	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
Bromomethane	<0.0057		0.0057	0.0021	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
2-Butanone (MEK)	<0.0057		0.0057	0.0025	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
Carbon disulfide	<0.0057		0.0057	0.0012	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
Carbon tetrachloride	<0.0023		0.0023	0.00066	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
Chlorobenzene	<0.0023		0.0023	0.00084	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
Chloroethane	<0.0057		0.0057	0.0017	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
Chloroform	<0.0023		0.0023	0.00079	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
Chloromethane	<0.0057		0.0057	0.0023	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
cis-1,2-Dichloroethene	<0.0023		0.0023	0.00063	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
cis-1,3-Dichloropropene	<0.0023		0.0023	0.00068	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
Dibromochloromethane	<0.0023		0.0023	0.00074	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
1,1-Dichloroethane	<0.0023		0.0023	0.00078	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
1,2-Dichloroethane	<0.0057		0.0057	0.0018	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
1,1-Dichloroethene	<0.0023		0.0023	0.00078	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
1,2-Dichloropropane	<0.0023		0.0023	0.00059	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
1,3-Dichloropropane, Total	<0.0023		0.0023	0.00080	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
Ethylbenzene	<0.0023		0.0023	0.0011	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
2-Hexanone	<0.0057		0.0057	0.0018	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
Methylene Chloride	<0.0057		0.0057	0.0022	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
4-Methyl-2-pentanone (MIBK)	<0.0057		0.0057	0.0017	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
Methyl tert-butyl ether	<0.0023		0.0023	0.00066	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
Styrene	<0.0023		0.0023	0.00068	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
1,1,2,2-Tetrachloroethane	<0.0023		0.0023	0.00072	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
Tetrachloroethene	<0.0023		0.0023	0.00077	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
Toluene	<0.0023		0.0023	0.00057	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
trans-1,2-Dichloroethene	<0.0023		0.0023	0.0010	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
trans-1,3-Dichloropropene	<0.0023		0.0023	0.00080	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
1,1,1-Trichloroethane	<0.0023		0.0023	0.00076	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
1,1,2-Trichloroethane	<0.0023		0.0023	0.00097	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
Trichloroethene	<0.0023		0.0023	0.00077	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
Vinyl acetate	<0.0057		0.0057	0.0020	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
Vinyl chloride	<0.0023		0.0023	0.0010	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1
Xylenes, Total	<0.0045		0.0045	0.00073	mg/Kg	☼	11/10/22 17:39	11/14/22 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		75 - 131	11/10/22 17:39	11/14/22 17:20	1
Dibromofluoromethane	104		75 - 126	11/10/22 17:39	11/14/22 17:20	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	11/10/22 17:39	11/14/22 17:20	1
Toluene-d8 (Surr)	97		75 - 124	11/10/22 17:39	11/14/22 17:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

Client Sample ID: 1401V3-06-B01 (0-4)

Lab Sample ID: 500-225161-3

Date Collected: 11/09/22 12:15

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Hexachlorocyclopentadiene	<0.75		0.75	0.22	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
2-Methylnaphthalene	<0.075		0.075	0.0069	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Butyl benzyl phthalate	<0.19	*	0.19	0.071	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

Client Sample ID: 1401V3-06-B01 (0-4)

Lab Sample ID: 500-225161-3

Date Collected: 11/09/22 12:15

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Bis(2-ethylhexyl) phthalate	<0.19	*	0.19	0.068	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Benzo[b]fluoranthene	<0.037	*3	0.037	0.0081	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Benzo[k]fluoranthene	<0.037	*3	0.037	0.011	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Benzo[a]pyrene	<0.037	*3	0.037	0.0072	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Indeno[1,2,3-cd]pyrene	<0.037	*3	0.037	0.0097	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Dibenz(a,h)anthracene	<0.037	*3	0.037	0.0072	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
Benzo[g,h,i]perylene	<0.037	*3	0.037	0.012	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	11/17/22 07:24	11/22/22 22:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	136		31 - 166	11/17/22 07:24	11/22/22 22:58	1
Phenol-d5	96		30 - 153	11/17/22 07:24	11/22/22 22:58	1
Nitrobenzene-d5 (Surr)	83		37 - 147	11/17/22 07:24	11/22/22 22:58	1
2-Fluorobiphenyl (Surr)	93		43 - 145	11/17/22 07:24	11/22/22 22:58	1
2,4,6-Tribromophenol	111		31 - 143	11/17/22 07:24	11/22/22 22:58	1
Terphenyl-d14 (Surr)	138		42 - 157	11/17/22 07:24	11/22/22 22:58	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.31	J	1.1	0.21	mg/Kg	☼	11/14/22 17:22	11/17/22 22:07	1
Arsenic	11		0.55	0.19	mg/Kg	☼	11/14/22 17:22	11/17/22 22:07	1
Barium	35		0.55	0.062	mg/Kg	☼	11/14/22 17:22	11/17/22 22:07	1
Beryllium	0.75		0.22	0.051	mg/Kg	☼	11/14/22 17:22	11/17/22 22:07	1
Boron	7.8		2.7	0.25	mg/Kg	☼	11/14/22 17:22	11/17/22 22:07	1
Cadmium	0.23		0.11	0.020	mg/Kg	☼	11/14/22 17:22	11/17/22 22:07	1
Calcium	19000	B	11	1.9	mg/Kg	☼	11/14/22 17:22	11/17/22 22:07	1
Chromium	13		0.55	0.27	mg/Kg	☼	11/14/22 17:22	11/17/22 22:07	1
Cobalt	12		0.27	0.072	mg/Kg	☼	11/14/22 17:22	11/17/22 22:07	1
Copper	28		0.55	0.15	mg/Kg	☼	11/14/22 17:22	11/17/22 22:07	1
Iron	21000	B	11	5.7	mg/Kg	☼	11/14/22 17:22	11/17/22 22:07	1
Lead	19		0.27	0.13	mg/Kg	☼	11/14/22 17:22	11/17/22 22:07	1
Magnesium	14000	B	5.5	2.7	mg/Kg	☼	11/14/22 17:22	11/17/22 22:07	1
Manganese	430	B	0.55	0.079	mg/Kg	☼	11/14/22 17:22	11/17/22 22:07	1
Nickel	30		0.55	0.16	mg/Kg	☼	11/14/22 17:22	11/17/22 22:07	1
Potassium	1900		27	9.7	mg/Kg	☼	11/14/22 17:22	11/17/22 22:07	1
Selenium	<0.55		0.55	0.32	mg/Kg	☼	11/14/22 17:22	11/17/22 22:07	1
Silver	0.22	J	0.27	0.071	mg/Kg	☼	11/14/22 17:22	11/17/22 22:07	1
Sodium	260		55	8.1	mg/Kg	☼	11/14/22 17:22	11/17/22 22:07	1
Thallium	0.57		0.55	0.27	mg/Kg	☼	11/14/22 17:22	11/17/22 22:07	1
Vanadium	17		0.27	0.064	mg/Kg	☼	11/14/22 17:22	11/17/22 22:07	1
Zinc	89		1.1	0.48	mg/Kg	☼	11/14/22 17:22	11/17/22 22:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.32	J	0.50	0.050	mg/L		11/15/22 19:01	11/16/22 22:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/22 19:01	11/16/22 22:31	1
Boron	1.1		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 22:31	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

Client Sample ID: 1401V3-06-B01 (0-4)

Lab Sample ID: 500-225161-3

Date Collected: 11/09/22 12:15

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/22 19:01	11/16/22 22:31	1
Chromium	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:31	1
Cobalt	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:31	1
Iron	<0.40		0.40	0.20	mg/L		11/15/22 19:01	11/16/22 22:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/15/22 19:01	11/16/22 22:31	1
Manganese	1.1		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:31	1
Nickel	0.010	J	0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:31	1
Selenium	<0.050		0.050	0.020	mg/L		11/15/22 19:01	11/16/22 22:31	1
Silver	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:31	1
Zinc	0.050	J	0.50	0.020	mg/L		11/15/22 19:01	11/16/22 22:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.47		0.025	0.010	mg/L		11/15/22 19:05	11/17/22 19:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/15/22 19:01	11/17/22 20:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/15/22 19:01	11/17/22 20:58	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/16/22 11:50	11/17/22 11:08	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.017	0.0058	mg/Kg	☆	11/18/22 13:10	11/21/22 08:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.7		0.2	0.2	SU			11/15/22 21:47	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

Client Sample ID: 1401V3-06-B01 (4-8)

Lab Sample ID: 500-225161-4

Date Collected: 11/09/22 12:18

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 94.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0089	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
Benzene	<0.0020		0.0020	0.00052	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
Bromoform	<0.0020		0.0020	0.00059	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
2-Butanone (MEK)	<0.0051		0.0051	0.0023	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
Carbon disulfide	<0.0051		0.0051	0.0011	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
Carbon tetrachloride	<0.0020		0.0020	0.00059	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
Chlorobenzene	<0.0020		0.0020	0.00075	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
Chloroethane	<0.0051		0.0051	0.0015	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
Chloroform	<0.0020		0.0020	0.00071	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
Chloromethane	<0.0051		0.0051	0.0020	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00057	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00061	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
Dibromochloromethane	<0.0020		0.0020	0.00066	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
1,1-Dichloroethane	<0.0020		0.0020	0.00070	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
1,1-Dichloroethene	<0.0020		0.0020	0.00070	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
1,2-Dichloropropane	<0.0020		0.0020	0.00053	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00071	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
Ethylbenzene	<0.0020		0.0020	0.00097	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
Methylene Chloride	<0.0051		0.0051	0.0020	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0015	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00060	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
Styrene	<0.0020		0.0020	0.00061	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00065	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
Tetrachloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00090	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00071	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00087	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
Trichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
Vinyl acetate	<0.0051		0.0051	0.0018	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
Vinyl chloride	<0.0020		0.0020	0.00090	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1
Xylenes, Total	<0.0041		0.0041	0.00065	mg/Kg	☼	11/10/22 17:39	11/14/22 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		75 - 131	11/10/22 17:39	11/14/22 17:44	1
Dibromofluoromethane	107		75 - 126	11/10/22 17:39	11/14/22 17:44	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	11/10/22 17:39	11/14/22 17:44	1
Toluene-d8 (Surr)	102		75 - 124	11/10/22 17:39	11/14/22 17:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.077	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

Client Sample ID: 1401V3-06-B01 (4-8)

Lab Sample ID: 500-225161-4

Date Collected: 11/09/22 12:18

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 94.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
2-Methylphenol	<0.18		0.18	0.056	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
N-Nitrosodi-n-propylamine	<0.070		0.070	0.043	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Hexachloroethane	<0.18		0.18	0.053	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Nitrobenzene	<0.035		0.035	0.0087	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Hexachlorobutadiene	<0.18		0.18	0.055	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
2,4-Dichlorophenol	<0.35		0.35	0.083	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
4-Chloroaniline	<0.70		0.70	0.16	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
2,4,5-Trichlorophenol	<0.35		0.35	0.080	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Hexachlorocyclopentadiene	<0.70		0.70	0.20	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
2-Methylnaphthalene	<0.070		0.070	0.0064	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
2-Nitroaniline	<0.18		0.18	0.047	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
2,6-Dinitrotoluene	<0.18		0.18	0.069	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
2-Nitrophenol	<0.35		0.35	0.082	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
2,4-Dinitrophenol	<0.70		0.70	0.61	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Acenaphthylene	<0.035		0.035	0.0046	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Acenaphthene	<0.035		0.035	0.0063	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
4-Nitrophenol	<0.70		0.70	0.33	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Fluorene	<0.035		0.035	0.0049	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.046	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Hexachlorobenzene	<0.070		0.070	0.0081	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Pentachlorophenol	<0.70		0.70	0.56	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
N-Nitrosodiphenylamine	<0.18		0.18	0.041	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
4,6-Dinitro-2-methylphenol	<0.70		0.70	0.28	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Phenanthrene	<0.035		0.035	0.0049	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Anthracene	<0.035		0.035	0.0058	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Carbazole	<0.18		0.18	0.087	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Di-n-butyl phthalate	<0.18		0.18	0.053	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Fluoranthene	<0.035		0.035	0.0065	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Pyrene	<0.035		0.035	0.0069	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Butyl benzyl phthalate	<0.18		0.18	0.066	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Benzo[a]anthracene	<0.035		0.035	0.0047	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

Client Sample ID: 1401V3-06-B01 (4-8)

Lab Sample ID: 500-225161-4

Date Collected: 11/09/22 12:18

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 94.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.035		0.035	0.0095	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.064	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Di-n-octyl phthalate	<0.18		0.18	0.057	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Benzo[b]fluoranthene	<0.035		0.035	0.0075	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Benzo[a]pyrene	<0.035		0.035	0.0068	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.0090	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0067	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
3 & 4 Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	11/23/22 14:48	11/30/22 23:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	160		31 - 166				11/23/22 14:48	11/30/22 23:42	1
Phenol-d5	133		30 - 153				11/23/22 14:48	11/30/22 23:42	1
Nitrobenzene-d5 (Surr)	84		37 - 147				11/23/22 14:48	11/30/22 23:42	1
2-Fluorobiphenyl (Surr)	98		43 - 145				11/23/22 14:48	11/30/22 23:42	1
2,4,6-Tribromophenol	87		31 - 143				11/23/22 14:48	11/30/22 23:42	1
Terphenyl-d14 (Surr)	126		42 - 157				11/23/22 14:48	11/30/22 23:42	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.36	J F1	1.0	0.20	mg/Kg	☼	11/14/22 17:22	11/17/22 22:10	1
Arsenic	11		0.52	0.18	mg/Kg	☼	11/14/22 17:22	11/17/22 22:10	1
Barium	13		0.52	0.059	mg/Kg	☼	11/14/22 17:22	11/17/22 22:10	1
Beryllium	0.47		0.21	0.049	mg/Kg	☼	11/14/22 17:22	11/17/22 22:10	1
Boron	5.6		2.6	0.24	mg/Kg	☼	11/14/22 17:22	11/17/22 22:10	1
Cadmium	0.31		0.10	0.019	mg/Kg	☼	11/14/22 17:22	11/17/22 22:10	1
Calcium	62000	B	52	8.8	mg/Kg	☼	11/14/22 17:22	11/18/22 13:18	5
Chromium	7.4		0.52	0.26	mg/Kg	☼	11/14/22 17:22	11/17/22 22:10	1
Cobalt	8.8		0.26	0.068	mg/Kg	☼	11/14/22 17:22	11/17/22 22:10	1
Copper	26		0.52	0.15	mg/Kg	☼	11/14/22 17:22	11/17/22 22:10	1
Iron	15000	B	10	5.4	mg/Kg	☼	11/14/22 17:22	11/17/22 22:10	1
Lead	14		0.26	0.12	mg/Kg	☼	11/14/22 17:22	11/17/22 22:10	1
Magnesium	27000	B	5.2	2.6	mg/Kg	☼	11/14/22 17:22	11/17/22 22:10	1
Manganese	280	B	0.52	0.075	mg/Kg	☼	11/14/22 17:22	11/17/22 22:10	1
Nickel	22		0.52	0.15	mg/Kg	☼	11/14/22 17:22	11/17/22 22:10	1
Potassium	1100	F1	26	9.2	mg/Kg	☼	11/14/22 17:22	11/17/22 22:10	1
Selenium	<0.52	F1	0.52	0.31	mg/Kg	☼	11/14/22 17:22	11/17/22 22:10	1
Silver	0.16	J	0.26	0.067	mg/Kg	☼	11/14/22 17:22	11/17/22 22:10	1
Sodium	160		52	7.7	mg/Kg	☼	11/14/22 17:22	11/17/22 22:10	1
Thallium	0.56	F1	0.52	0.26	mg/Kg	☼	11/14/22 17:22	11/17/22 22:10	1
Vanadium	10		0.26	0.061	mg/Kg	☼	11/14/22 17:22	11/17/22 22:10	1
Zinc	90		1.0	0.46	mg/Kg	☼	11/14/22 17:22	11/17/22 22:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.26	J	0.50	0.050	mg/L		11/15/22 19:01	11/16/22 22:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/22 19:01	11/16/22 22:34	1
Boron	0.96		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 22:34	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

Client Sample ID: 1401V3-06-B01 (4-8)

Lab Sample ID: 500-225161-4

Date Collected: 11/09/22 12:18

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 94.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0024	J	0.0050	0.0020	mg/L		11/15/22 19:01	11/16/22 22:34	1
Chromium	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:34	1
Cobalt	0.012	J	0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:34	1
Iron	<0.40		0.40	0.20	mg/L		11/15/22 19:01	11/16/22 22:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/15/22 19:01	11/16/22 22:34	1
Manganese	1.5		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:34	1
Nickel	0.015	J	0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:34	1
Selenium	<0.050		0.050	0.020	mg/L		11/15/22 19:01	11/16/22 22:34	1
Silver	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:34	1
Zinc	0.050	J	0.50	0.020	mg/L		11/15/22 19:01	11/16/22 22:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.24		0.025	0.010	mg/L		11/15/22 19:05	11/17/22 19:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/15/22 19:01	11/17/22 21:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/15/22 19:01	11/17/22 21:02	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/16/22 11:50	11/17/22 11:10	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.016	0.0055	mg/Kg	☆	11/18/22 13:10	11/21/22 08:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.9		0.2	0.2	SU			11/15/22 21:49	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

Qualifiers

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

GC/MS VOA

Prep Batch: 684692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225161-1	1401V3-06-B02 (0-4)	Total/NA	Solid	5035	
500-225161-2	1401V3-06-B02 (4-8)	Total/NA	Solid	5035	
500-225161-3	1401V3-06-B01 (0-4)	Total/NA	Solid	5035	
500-225161-4	1401V3-06-B01 (4-8)	Total/NA	Solid	5035	

Analysis Batch: 684731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225161-1	1401V3-06-B02 (0-4)	Total/NA	Solid	8260B	684692
500-225161-2	1401V3-06-B02 (4-8)	Total/NA	Solid	8260B	684692
500-225161-3	1401V3-06-B01 (0-4)	Total/NA	Solid	8260B	684692
500-225161-4	1401V3-06-B01 (4-8)	Total/NA	Solid	8260B	684692
MB 500-684731/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-684731/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-684731/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 685446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225161-1	1401V3-06-B02 (0-4)	Total/NA	Solid	3541	
500-225161-2	1401V3-06-B02 (4-8)	Total/NA	Solid	3541	
500-225161-3	1401V3-06-B01 (0-4)	Total/NA	Solid	3541	
MB 500-685446/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-685446/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 686154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-685446/1-A	Method Blank	Total/NA	Solid	8270D	685446
LCS 500-685446/2-A	Lab Control Sample	Total/NA	Solid	8270D	685446

Analysis Batch: 686590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225161-2	1401V3-06-B02 (4-8)	Total/NA	Solid	8270D	685446
500-225161-3	1401V3-06-B01 (0-4)	Total/NA	Solid	8270D	685446

Analysis Batch: 686691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225161-1	1401V3-06-B02 (0-4)	Total/NA	Solid	8270D	685446

Prep Batch: 686807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225161-4	1401V3-06-B01 (4-8)	Total/NA	Solid	3541	
MB 500-686807/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-686807/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 687487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225161-4	1401V3-06-B01 (4-8)	Total/NA	Solid	8270D	686807
MB 500-686807/1-A	Method Blank	Total/NA	Solid	8270D	686807
LCS 500-686807/2-A	Lab Control Sample	Total/NA	Solid	8270D	686807

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

Metals

Leach Batch: 684867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225161-1	1401V3-06-B02 (0-4)	TCLP	Solid	1311	
500-225161-2	1401V3-06-B02 (4-8)	TCLP	Solid	1311	
500-225161-3	1401V3-06-B01 (0-4)	TCLP	Solid	1311	
500-225161-4	1401V3-06-B01 (4-8)	TCLP	Solid	1311	
LB 500-684867/1-B	Method Blank	TCLP	Solid	1311	
LB 500-684867/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 684882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225161-1	1401V3-06-B02 (0-4)	SPLP East	Solid	1312	
500-225161-2	1401V3-06-B02 (4-8)	SPLP East	Solid	1312	
500-225161-3	1401V3-06-B01 (0-4)	SPLP East	Solid	1312	
500-225161-4	1401V3-06-B01 (4-8)	SPLP East	Solid	1312	
LB 500-684882/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 684902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225161-1	1401V3-06-B02 (0-4)	Total/NA	Solid	3050B	
500-225161-2	1401V3-06-B02 (4-8)	Total/NA	Solid	3050B	
500-225161-3	1401V3-06-B01 (0-4)	Total/NA	Solid	3050B	
500-225161-4	1401V3-06-B01 (4-8)	Total/NA	Solid	3050B	
MB 500-684902/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-684902/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-225161-4 MS	1401V3-06-B01 (4-8)	Total/NA	Solid	3050B	
500-225161-4 MSD	1401V3-06-B01 (4-8)	Total/NA	Solid	3050B	
500-225161-4 DU	1401V3-06-B01 (4-8)	Total/NA	Solid	3050B	

Prep Batch: 685167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225161-1	1401V3-06-B02 (0-4)	TCLP	Solid	3010A	684867
500-225161-2	1401V3-06-B02 (4-8)	TCLP	Solid	3010A	684867
500-225161-3	1401V3-06-B01 (0-4)	TCLP	Solid	3010A	684867
500-225161-4	1401V3-06-B01 (4-8)	TCLP	Solid	3010A	684867
LB 500-684867/1-B	Method Blank	TCLP	Solid	3010A	684867
LCS 500-685167/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 685169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225161-1	1401V3-06-B02 (0-4)	SPLP East	Solid	3010A	684882
500-225161-2	1401V3-06-B02 (4-8)	SPLP East	Solid	3010A	684882
500-225161-3	1401V3-06-B01 (0-4)	SPLP East	Solid	3010A	684882
500-225161-4	1401V3-06-B01 (4-8)	SPLP East	Solid	3010A	684882
LB 500-684882/1-B	Method Blank	SPLP East	Solid	3010A	684882
LCS 500-685169/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 685346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225161-1	1401V3-06-B02 (0-4)	TCLP	Solid	7470A	684867
500-225161-2	1401V3-06-B02 (4-8)	TCLP	Solid	7470A	684867
500-225161-3	1401V3-06-B01 (0-4)	TCLP	Solid	7470A	684867
500-225161-4	1401V3-06-B01 (4-8)	TCLP	Solid	7470A	684867

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

Metals (Continued)

Prep Batch: 685346 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-684867/1-C	Method Blank	TCLP	Solid	7470A	684867
MB 500-685346/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-685346/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 685532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225161-1	1401V3-06-B02 (0-4)	TCLP	Solid	6010B	685167
500-225161-2	1401V3-06-B02 (4-8)	TCLP	Solid	6010B	685167
500-225161-3	1401V3-06-B01 (0-4)	TCLP	Solid	6010B	685167
500-225161-4	1401V3-06-B01 (4-8)	TCLP	Solid	6010B	685167
LB 500-684867/1-B	Method Blank	TCLP	Solid	6010B	685167
LCS 500-685167/2-A	Lab Control Sample	Total/NA	Solid	6010B	685167

Analysis Batch: 685588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225161-1	1401V3-06-B02 (0-4)	TCLP	Solid	7470A	685346
500-225161-2	1401V3-06-B02 (4-8)	TCLP	Solid	7470A	685346
500-225161-3	1401V3-06-B01 (0-4)	TCLP	Solid	7470A	685346
500-225161-4	1401V3-06-B01 (4-8)	TCLP	Solid	7470A	685346
LB 500-684867/1-C	Method Blank	TCLP	Solid	7470A	685346
MB 500-685346/12-A	Method Blank	Total/NA	Solid	7470A	685346
LCS 500-685346/14-A	Lab Control Sample	Total/NA	Solid	7470A	685346

Prep Batch: 685768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225161-1	1401V3-06-B02 (0-4)	Total/NA	Solid	7471B	
500-225161-2	1401V3-06-B02 (4-8)	Total/NA	Solid	7471B	
500-225161-3	1401V3-06-B01 (0-4)	Total/NA	Solid	7471B	
500-225161-4	1401V3-06-B01 (4-8)	Total/NA	Solid	7471B	
MB 500-685768/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-685768/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 685803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225161-1	1401V3-06-B02 (0-4)	SPLP East	Solid	6010B	685169
500-225161-1	1401V3-06-B02 (0-4)	Total/NA	Solid	6010B	684902
500-225161-2	1401V3-06-B02 (4-8)	SPLP East	Solid	6010B	685169
500-225161-2	1401V3-06-B02 (4-8)	Total/NA	Solid	6010B	684902
500-225161-3	1401V3-06-B01 (0-4)	SPLP East	Solid	6010B	685169
500-225161-3	1401V3-06-B01 (0-4)	Total/NA	Solid	6010B	684902
500-225161-4	1401V3-06-B01 (4-8)	SPLP East	Solid	6010B	685169
500-225161-4	1401V3-06-B01 (4-8)	Total/NA	Solid	6010B	684902
LB 500-684882/1-B	Method Blank	SPLP East	Solid	6010B	685169
MB 500-684902/1-A	Method Blank	Total/NA	Solid	6010B	684902
LCS 500-684902/2-A	Lab Control Sample	Total/NA	Solid	6010B	684902
LCS 500-685169/2-A	Lab Control Sample	Total/NA	Solid	6010B	685169
500-225161-4 MS	1401V3-06-B01 (4-8)	Total/NA	Solid	6010B	684902
500-225161-4 MSD	1401V3-06-B01 (4-8)	Total/NA	Solid	6010B	684902
500-225161-4 DU	1401V3-06-B01 (4-8)	Total/NA	Solid	6010B	684902

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

Metals

Analysis Batch: 685882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225161-1	1401V3-06-B02 (0-4)	TCLP	Solid	6020A	685167
500-225161-2	1401V3-06-B02 (4-8)	TCLP	Solid	6020A	685167
500-225161-3	1401V3-06-B01 (0-4)	TCLP	Solid	6020A	685167
500-225161-4	1401V3-06-B01 (4-8)	TCLP	Solid	6020A	685167
LB 500-684867/1-B	Method Blank	TCLP	Solid	6020A	685167
LCS 500-685167/2-A	Lab Control Sample	Total/NA	Solid	6020A	685167

Analysis Batch: 686262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225161-4	1401V3-06-B01 (4-8)	Total/NA	Solid	6010B	684902
500-225161-4 MS	1401V3-06-B01 (4-8)	Total/NA	Solid	6010B	684902
500-225161-4 MSD	1401V3-06-B01 (4-8)	Total/NA	Solid	6010B	684902
500-225161-4 DU	1401V3-06-B01 (4-8)	Total/NA	Solid	6010B	684902

Analysis Batch: 686326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225161-1	1401V3-06-B02 (0-4)	Total/NA	Solid	7471B	685768
500-225161-2	1401V3-06-B02 (4-8)	Total/NA	Solid	7471B	685768
500-225161-3	1401V3-06-B01 (0-4)	Total/NA	Solid	7471B	685768
500-225161-4	1401V3-06-B01 (4-8)	Total/NA	Solid	7471B	685768
MB 500-685768/12-A	Method Blank	Total/NA	Solid	7471B	685768
LCS 500-685768/13-A	Lab Control Sample	Total/NA	Solid	7471B	685768

General Chemistry

Analysis Batch: 685030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225161-1	1401V3-06-B02 (0-4)	Total/NA	Solid	Moisture	
500-225161-2	1401V3-06-B02 (4-8)	Total/NA	Solid	Moisture	
500-225161-3	1401V3-06-B01 (0-4)	Total/NA	Solid	Moisture	
500-225161-4	1401V3-06-B01 (4-8)	Total/NA	Solid	Moisture	

Analysis Batch: 685174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225161-1	1401V3-06-B02 (0-4)	Total/NA	Solid	9045D	
500-225161-2	1401V3-06-B02 (4-8)	Total/NA	Solid	9045D	
500-225161-3	1401V3-06-B01 (0-4)	Total/NA	Solid	9045D	
500-225161-4	1401V3-06-B01 (4-8)	Total/NA	Solid	9045D	
LCS 500-685174/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-685174/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Surrogate Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(75-131)	(75-126)	(70-134)	(75-124)
500-225161-1	1401V3-06-B02 (0-4)	108	104	108	101
500-225161-2	1401V3-06-B02 (4-8)	103	105	110	97
500-225161-3	1401V3-06-B01 (0-4)	102	104	107	97
500-225161-4	1401V3-06-B01 (4-8)	102	107	111	102
LCS 500-684731/3	Lab Control Sample	107	94	100	98
LCS 500-684731/4	Lab Control Sample Dup	112	96	103	97
MB 500-684731/6	Method Blank	105	102	105	100

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP	PHL	NBZ	FBP	TBP	TPHL
		(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-225161-1	1401V3-06-B02 (0-4)	108	84	84	86	79	129
500-225161-2	1401V3-06-B02 (4-8)	138	122	78	85	109	131
500-225161-3	1401V3-06-B01 (0-4)	136	96	83	93	111	138
500-225161-4	1401V3-06-B01 (4-8)	160	133	84	98	87	126
LCS 500-685446/2-A	Lab Control Sample	97	88	69	79	84	83
LCS 500-686807/2-A	Lab Control Sample	145	122	89	102	116	114
MB 500-685446/1-A	Method Blank	102	96	66	79	71	79
MB 500-686807/1-A	Method Blank	173 S1+	157 S1+	99	111	108	127

Surrogate Legend

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

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

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

Lab Sample ID: MB 500-684731/6
Matrix: Solid
Analysis Batch: 684731

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			11/14/22 10:54	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			11/14/22 10:54	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			11/14/22 10:54	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			11/14/22 10:54	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			11/14/22 10:54	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			11/14/22 10:54	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			11/14/22 10:54	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			11/14/22 10:54	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			11/14/22 10:54	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			11/14/22 10:54	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			11/14/22 10:54	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			11/14/22 10:54	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			11/14/22 10:54	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			11/14/22 10:54	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			11/14/22 10:54	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			11/14/22 10:54	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			11/14/22 10:54	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			11/14/22 10:54	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			11/14/22 10:54	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			11/14/22 10:54	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			11/14/22 10:54	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			11/14/22 10:54	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			11/14/22 10:54	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			11/14/22 10:54	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			11/14/22 10:54	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			11/14/22 10:54	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			11/14/22 10:54	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/14/22 10:54	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			11/14/22 10:54	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			11/14/22 10:54	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			11/14/22 10:54	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			11/14/22 10:54	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			11/14/22 10:54	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/14/22 10:54	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			11/14/22 10:54	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			11/14/22 10:54	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			11/14/22 10:54	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	105		75 - 131		11/14/22 10:54	1
Dibromofluoromethane	102		75 - 126		11/14/22 10:54	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		11/14/22 10:54	1
Toluene-d8 (Surr)	100		75 - 124		11/14/22 10:54	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

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

Lab Sample ID: LCS 500-684731/3
Matrix: Solid
Analysis Batch: 684731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0400	0.0438		mg/Kg		110	40 - 150
Benzene	0.0400	0.0445		mg/Kg		111	70 - 125
Bromodichloromethane	0.0400	0.0470		mg/Kg		118	67 - 129
Bromoform	0.0400	0.0487		mg/Kg		122	68 - 136
Bromomethane	0.0400	0.0420		mg/Kg		105	70 - 130
2-Butanone (MEK)	0.0400	0.0465		mg/Kg		116	47 - 138
Carbon disulfide	0.0400	0.0391		mg/Kg		98	70 - 129
Carbon tetrachloride	0.0400	0.0443		mg/Kg		111	75 - 125
Chlorobenzene	0.0400	0.0466		mg/Kg		117	50 - 150
Chloroethane	0.0400	0.0448		mg/Kg		112	75 - 125
Chloroform	0.0400	0.0414		mg/Kg		103	57 - 135
Chloromethane	0.0400	0.0408		mg/Kg		102	70 - 125
cis-1,2-Dichloroethene	0.0400	0.0411		mg/Kg		103	70 - 125
cis-1,3-Dichloropropene	0.0400	0.0444		mg/Kg		111	70 - 125
Dibromochloromethane	0.0400	0.0454		mg/Kg		113	69 - 125
1,1-Dichloroethane	0.0400	0.0407		mg/Kg		102	70 - 125
1,2-Dichloroethane	0.0400	0.0470		mg/Kg		118	70 - 130
1,1-Dichloroethene	0.0400	0.0402		mg/Kg		100	70 - 120
1,2-Dichloropropane	0.0400	0.0461		mg/Kg		115	70 - 125
Ethylbenzene	0.0400	0.0444		mg/Kg		111	61 - 136
2-Hexanone	0.0400	0.0475		mg/Kg		119	48 - 146
Methylene Chloride	0.0400	0.0408		mg/Kg		102	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0400	0.0398		mg/Kg		100	50 - 148
Methyl tert-butyl ether	0.0400	0.0427		mg/Kg		107	50 - 140
Styrene	0.0400	0.0473		mg/Kg		118	70 - 125
1,1,2,2-Tetrachloroethane	0.0400	0.0416		mg/Kg		104	70 - 122
Tetrachloroethene	0.0400	0.0443		mg/Kg		111	70 - 124
Toluene	0.0400	0.0407		mg/Kg		102	70 - 125
trans-1,2-Dichloroethene	0.0400	0.0409		mg/Kg		102	70 - 125
trans-1,3-Dichloropropene	0.0400	0.0489		mg/Kg		122	70 - 125
1,1,1-Trichloroethane	0.0400	0.0435		mg/Kg		109	70 - 128
1,1,2-Trichloroethane	0.0400	0.0454		mg/Kg		114	70 - 125
Trichloroethene	0.0400	0.0466		mg/Kg		117	70 - 125
Vinyl acetate	0.0400	0.0387		mg/Kg		97	40 - 153
Vinyl chloride	0.0400	0.0429		mg/Kg		107	70 - 125
Xylenes, Total	0.0800	0.0832		mg/Kg		104	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	107		75 - 131
Dibromofluoromethane	94		75 - 126
1,2-Dichloroethane-d4 (Surr)	100		70 - 134
Toluene-d8 (Surr)	98		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

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

Lab Sample ID: LCSD 500-684731/4
Matrix: Solid
Analysis Batch: 684731

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.0400	0.0393		mg/Kg		98	40 - 150	11	30
Benzene	0.0400	0.0386		mg/Kg		97	70 - 125	14	30
Bromodichloromethane	0.0400	0.0402		mg/Kg		100	67 - 129	16	30
Bromoform	0.0400	0.0393		mg/Kg		98	68 - 136	22	30
Bromomethane	0.0400	0.0391		mg/Kg		98	70 - 130	7	30
2-Butanone (MEK)	0.0400	0.0356		mg/Kg		89	47 - 138	26	30
Carbon disulfide	0.0400	0.0335		mg/Kg		84	70 - 129	16	30
Carbon tetrachloride	0.0400	0.0396		mg/Kg		99	75 - 125	11	30
Chlorobenzene	0.0400	0.0401		mg/Kg		100	50 - 150	15	30
Chloroethane	0.0400	0.0402		mg/Kg		100	75 - 125	11	30
Chloroform	0.0400	0.0355		mg/Kg		89	57 - 135	15	30
Chloromethane	0.0400	0.0400		mg/Kg		100	70 - 125	2	30
cis-1,2-Dichloroethene	0.0400	0.0356		mg/Kg		89	70 - 125	14	30
cis-1,3-Dichloropropene	0.0400	0.0383		mg/Kg		96	70 - 125	15	30
Dibromochloromethane	0.0400	0.0371		mg/Kg		93	69 - 125	20	30
1,1-Dichloroethane	0.0400	0.0361		mg/Kg		90	70 - 125	12	30
1,2-Dichloroethane	0.0400	0.0391		mg/Kg		98	70 - 130	18	30
1,1-Dichloroethene	0.0400	0.0341		mg/Kg		85	70 - 120	17	30
1,2-Dichloropropane	0.0400	0.0385		mg/Kg		96	70 - 125	18	30
Ethylbenzene	0.0400	0.0382		mg/Kg		96	61 - 136	15	30
2-Hexanone	0.0400	0.0384		mg/Kg		96	48 - 146	21	30
Methylene Chloride	0.0400	0.0356		mg/Kg		89	70 - 126	14	30
4-Methyl-2-pentanone (MIBK)	0.0400	0.0330		mg/Kg		82	50 - 148	19	30
Methyl tert-butyl ether	0.0400	0.0369		mg/Kg		92	50 - 140	15	30
Styrene	0.0400	0.0402		mg/Kg		101	70 - 125	16	30
1,1,2,2-Tetrachloroethane	0.0400	0.0358		mg/Kg		89	70 - 122	15	30
Tetrachloroethene	0.0400	0.0379		mg/Kg		95	70 - 124	16	30
Toluene	0.0400	0.0358		mg/Kg		90	70 - 125	13	30
trans-1,2-Dichloroethene	0.0400	0.0354		mg/Kg		89	70 - 125	14	30
trans-1,3-Dichloropropene	0.0400	0.0415		mg/Kg		104	70 - 125	16	30
1,1,1-Trichloroethane	0.0400	0.0388		mg/Kg		97	70 - 128	11	30
1,1,2-Trichloroethane	0.0400	0.0367		mg/Kg		92	70 - 125	21	30
Trichloroethene	0.0400	0.0413		mg/Kg		103	70 - 125	12	30
Vinyl acetate	0.0400	0.0399		mg/Kg		100	40 - 153	3	30
Vinyl chloride	0.0400	0.0415		mg/Kg		104	70 - 125	3	30
Xylenes, Total	0.0800	0.0710		mg/Kg		89	53 - 147	16	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	112		75 - 131
Dibromofluoromethane	96		75 - 126
1,2-Dichloroethane-d4 (Surr)	103		70 - 134
Toluene-d8 (Surr)	97		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

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

Lab Sample ID: MB 500-685446/1-A
Matrix: Solid
Analysis Batch: 686154

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685446

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Isophorone	<0.17		0.17	0.037	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Carbazole	<0.17		0.17	0.083	mg/Kg		11/17/22 07:24	11/20/22 17:04	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

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

Lab Sample ID: MB 500-685446/1-A
Matrix: Solid
Analysis Batch: 686154

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685446

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Bis(2-ethylhexyl) phthalate	0.0813	J	0.17	0.061	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		11/17/22 07:24	11/20/22 17:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	102		31 - 166	11/17/22 07:24	11/20/22 17:04	1
Phenol-d5	96		30 - 153	11/17/22 07:24	11/20/22 17:04	1
Nitrobenzene-d5 (Surr)	66		37 - 147	11/17/22 07:24	11/20/22 17:04	1
2-Fluorobiphenyl (Surr)	79		43 - 145	11/17/22 07:24	11/20/22 17:04	1
2,4,6-Tribromophenol	71		31 - 143	11/17/22 07:24	11/20/22 17:04	1
Terphenyl-d14 (Surr)	79		42 - 157	11/17/22 07:24	11/20/22 17:04	1

Lab Sample ID: LCS 500-685446/2-A
Matrix: Solid
Analysis Batch: 686154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685446

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.06		mg/Kg		80	56 - 122
Bis(2-chloroethyl)ether	1.33	1.02		mg/Kg		76	55 - 111
1,3-Dichlorobenzene	1.33	1.08		mg/Kg		81	65 - 124
1,4-Dichlorobenzene	1.33	1.08		mg/Kg		81	61 - 110
1,2-Dichlorobenzene	1.33	1.09		mg/Kg		81	62 - 110
2-Methylphenol	1.33	1.22		mg/Kg		91	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	0.729		mg/Kg		55	40 - 124
N-Nitrosodi-n-propylamine	1.33	0.921		mg/Kg		69	56 - 118
Hexachloroethane	1.33	0.926		mg/Kg		69	60 - 114
2-Chlorophenol	1.33	1.12		mg/Kg		84	64 - 110
Nitrobenzene	1.33	1.01		mg/Kg		76	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.09		mg/Kg		82	60 - 112
1,2,4-Trichlorobenzene	1.33	1.14		mg/Kg		86	66 - 117
Isophorone	1.33	0.990		mg/Kg		74	55 - 110
2,4-Dimethylphenol	1.33	1.10		mg/Kg		82	60 - 110
Hexachlorobutadiene	1.33	0.998		mg/Kg		75	56 - 120
Naphthalene	1.33	1.15		mg/Kg		86	63 - 110
2,4-Dichlorophenol	1.33	1.12		mg/Kg		84	58 - 120

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

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

Lab Sample ID: LCS 500-685446/2-A
Matrix: Solid
Analysis Batch: 686154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685446

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloroaniline	1.33	0.685		mg/Kg		51	30 - 150
2,4,6-Trichlorophenol	1.33	0.979		mg/Kg		73	57 - 120
2,4,5-Trichlorophenol	1.33	1.09		mg/Kg		82	50 - 120
Hexachlorocyclopentadiene	1.33	0.275	J	mg/Kg		21	10 - 133
2-Methylnaphthalene	1.33	1.11		mg/Kg		84	69 - 112
2-Nitroaniline	1.33	0.864		mg/Kg		65	57 - 124
2-Chloronaphthalene	1.33	1.12		mg/Kg		84	69 - 114
4-Chloro-3-methylphenol	1.33	1.12		mg/Kg		84	65 - 122
2,6-Dinitrotoluene	1.33	1.15		mg/Kg		86	70 - 123
2-Nitrophenol	1.33	1.19		mg/Kg		89	60 - 120
3-Nitroaniline	1.33	0.834		mg/Kg		63	40 - 122
Dimethyl phthalate	1.33	1.23		mg/Kg		93	69 - 116
2,4-Dinitrophenol	2.67	0.882		mg/Kg		33	10 - 100
Acenaphthylene	1.33	1.20		mg/Kg		90	68 - 120
2,4-Dinitrotoluene	1.33	1.21		mg/Kg		91	69 - 124
Acenaphthene	1.33	1.11		mg/Kg		83	65 - 124
Dibenzofuran	1.33	1.17		mg/Kg		88	66 - 115
4-Nitrophenol	2.67	1.17		mg/Kg		44	30 - 122
Fluorene	1.33	1.15		mg/Kg		86	62 - 120
4-Nitroaniline	1.33	1.10		mg/Kg		83	60 - 160
4-Bromophenyl phenyl ether	1.33	0.988		mg/Kg		74	68 - 118
Hexachlorobenzene	1.33	1.11		mg/Kg		83	63 - 124
Diethyl phthalate	1.33	0.990		mg/Kg		74	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.11		mg/Kg		83	62 - 119
Pentachlorophenol	2.67	1.19		mg/Kg		45	13 - 112
N-Nitrosodiphenylamine	1.33	1.13		mg/Kg		85	65 - 112
4,6-Dinitro-2-methylphenol	2.67	1.35		mg/Kg		51	10 - 110
Phenanthrene	1.33	1.14		mg/Kg		85	62 - 120
Anthracene	1.33	1.15		mg/Kg		86	70 - 114
Carbazole	1.33	1.26		mg/Kg		94	65 - 142
Di-n-butyl phthalate	1.33	1.10		mg/Kg		82	65 - 120
Fluoranthene	1.33	1.30		mg/Kg		97	62 - 120
Pyrene	1.33	1.09		mg/Kg		81	61 - 128
Butyl benzyl phthalate	1.33	0.918	*-	mg/Kg		69	71 - 129
Benzo[a]anthracene	1.33	1.20		mg/Kg		90	67 - 122
Chrysene	1.33	1.21		mg/Kg		90	63 - 120
3,3'-Dichlorobenzidine	1.33	0.981		mg/Kg		74	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	0.917	*-	mg/Kg		69	72 - 131
Di-n-octyl phthalate	1.33	1.27		mg/Kg		95	68 - 134
Benzo[b]fluoranthene	1.33	1.08		mg/Kg		81	69 - 129
Benzo[k]fluoranthene	1.33	1.08		mg/Kg		81	68 - 127
Benzo[a]pyrene	1.33	1.22		mg/Kg		91	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.10		mg/Kg		82	68 - 130
Dibenz(a,h)anthracene	1.33	1.02		mg/Kg		77	64 - 131
Benzo[g,h,i]perylene	1.33	1.23		mg/Kg		92	72 - 131
3 & 4 Methylphenol	1.33	1.15		mg/Kg		86	57 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

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

Lab Sample ID: LCS 500-685446/2-A
Matrix: Solid
Analysis Batch: 686154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685446

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	97		31 - 166
Phenol-d5	88		30 - 153
Nitrobenzene-d5 (Surr)	69		37 - 147
2-Fluorobiphenyl (Surr)	79		43 - 145
2,4,6-Tribromophenol	84		31 - 143
Terphenyl-d14 (Surr)	83		42 - 157

Lab Sample ID: MB 500-686807/1-A
Matrix: Solid
Analysis Batch: 687487

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686807

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Isophorone	<0.17		0.17	0.037	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		11/23/22 14:48	11/30/22 16:02	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

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

Lab Sample ID: MB 500-686807/1-A
Matrix: Solid
Analysis Batch: 687487

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686807

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.033		0.033	0.0047	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Carbazole	<0.17		0.17	0.083	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		11/23/22 14:48	11/30/22 16:02	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		11/23/22 14:48	11/30/22 16:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	173	S1+	31 - 166	11/23/22 14:48	11/30/22 16:02	1
Phenol-d5	157	S1+	30 - 153	11/23/22 14:48	11/30/22 16:02	1
Nitrobenzene-d5 (Surr)	99		37 - 147	11/23/22 14:48	11/30/22 16:02	1
2-Fluorobiphenyl (Surr)	111		43 - 145	11/23/22 14:48	11/30/22 16:02	1
2,4,6-Tribromophenol	108		31 - 143	11/23/22 14:48	11/30/22 16:02	1
Terphenyl-d14 (Surr)	127		42 - 157	11/23/22 14:48	11/30/22 16:02	1

Lab Sample ID: LCS 500-686807/2-A
Matrix: Solid
Analysis Batch: 687487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686807

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenol	1.33	1.51		mg/Kg		113	56 - 122
Bis(2-chloroethyl)ether	1.33	1.38		mg/Kg		103	55 - 111
1,3-Dichlorobenzene	1.33	1.23		mg/Kg		92	65 - 124
1,4-Dichlorobenzene	1.33	1.24		mg/Kg		93	61 - 110
1,2-Dichlorobenzene	1.33	1.26		mg/Kg		95	62 - 110
2-Methylphenol	1.33	1.38		mg/Kg		104	60 - 120

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

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

Lab Sample ID: LCS 500-686807/2-A
Matrix: Solid
Analysis Batch: 687487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686807

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2'-oxybis[1-chloropropane]	1.33	1.29		mg/Kg		97	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.32		mg/Kg		99	56 - 118
Hexachloroethane	1.33	1.22		mg/Kg		91	60 - 114
2-Chlorophenol	1.33	1.47		mg/Kg		110	64 - 110
Nitrobenzene	1.33	1.31		mg/Kg		98	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.30		mg/Kg		98	60 - 112
1,2,4-Trichlorobenzene	1.33	1.34		mg/Kg		100	66 - 117
Isophorone	1.33	1.26		mg/Kg		95	55 - 110
2,4-Dimethylphenol	1.33	1.32		mg/Kg		99	60 - 110
Hexachlorobutadiene	1.33	1.27		mg/Kg		95	56 - 120
Naphthalene	1.33	1.26		mg/Kg		95	63 - 110
2,4-Dichlorophenol	1.33	1.36		mg/Kg		102	58 - 120
4-Chloroaniline	1.33	0.890		mg/Kg		67	30 - 150
2,4,6-Trichlorophenol	1.33	1.38		mg/Kg		103	57 - 120
2,4,5-Trichlorophenol	1.33	1.43		mg/Kg		107	50 - 120
Hexachlorocyclopentadiene	1.33	<0.67		mg/Kg		14	10 - 133
2-Methylnaphthalene	1.33	1.27		mg/Kg		95	69 - 112
2-Nitroaniline	1.33	1.61		mg/Kg		121	57 - 124
2-Chloronaphthalene	1.33	1.42		mg/Kg		106	69 - 114
4-Chloro-3-methylphenol	1.33	1.50		mg/Kg		112	65 - 122
2,6-Dinitrotoluene	1.33	1.63		mg/Kg		122	70 - 123
2-Nitrophenol	1.33	1.42		mg/Kg		106	60 - 120
3-Nitroaniline	1.33	1.10		mg/Kg		83	40 - 122
Dimethyl phthalate	1.33	1.45		mg/Kg		109	69 - 116
2,4-Dinitrophenol	2.67	0.793		mg/Kg		30	10 - 100
Acenaphthylene	1.33	1.46		mg/Kg		109	68 - 120
2,4-Dinitrotoluene	1.33	1.46		mg/Kg		109	69 - 124
Acenaphthene	1.33	1.46		mg/Kg		110	65 - 124
Dibenzofuran	1.33	1.46		mg/Kg		110	66 - 115
4-Nitrophenol	2.67	2.84		mg/Kg		106	30 - 122
Fluorene	1.33	1.43		mg/Kg		107	62 - 120
4-Nitroaniline	1.33	1.50		mg/Kg		112	60 - 160
4-Bromophenyl phenyl ether	1.33	1.35		mg/Kg		101	68 - 118
Hexachlorobenzene	1.33	1.36		mg/Kg		102	63 - 124
Diethyl phthalate	1.33	1.46		mg/Kg		110	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.42		mg/Kg		107	62 - 119
Pentachlorophenol	2.67	1.48		mg/Kg		55	13 - 112
N-Nitrosodiphenylamine	1.33	1.37		mg/Kg		102	65 - 112
4,6-Dinitro-2-methylphenol	2.67	1.47		mg/Kg		55	10 - 110
Phenanthrene	1.33	1.35		mg/Kg		101	62 - 120
Anthracene	1.33	1.39		mg/Kg		104	70 - 114
Carbazole	1.33	1.54		mg/Kg		116	65 - 142
Di-n-butyl phthalate	1.33	1.42		mg/Kg		106	65 - 120
Fluoranthene	1.33	1.42		mg/Kg		107	62 - 120
Pyrene	1.33	1.49		mg/Kg		112	61 - 128
Butyl benzyl phthalate	1.33	1.52		mg/Kg		114	71 - 129
Benzo[a]anthracene	1.33	1.46		mg/Kg		110	67 - 122
Chrysene	1.33	1.44		mg/Kg		108	63 - 120
3,3'-Dichlorobenzidine	1.33	1.15		mg/Kg		86	35 - 128

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

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

Lab Sample ID: LCS 500-686807/2-A
Matrix: Solid
Analysis Batch: 687487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686807

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	1.33	1.63		mg/Kg		122	72 - 131
Di-n-octyl phthalate	1.33	1.64		mg/Kg		123	68 - 134
Benzo[b]fluoranthene	1.33	1.35		mg/Kg		101	69 - 129
Benzo[k]fluoranthene	1.33	1.29		mg/Kg		97	68 - 127
Benzo[a]pyrene	1.33	1.45		mg/Kg		109	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.62		mg/Kg		121	68 - 130
Dibenz(a,h)anthracene	1.33	1.54		mg/Kg		116	64 - 131
Benzo[g,h,i]perylene	1.33	1.48		mg/Kg		111	72 - 131
3 & 4 Methylphenol	1.33	1.44		mg/Kg		108	57 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	145		31 - 166
Phenol-d5	122		30 - 153
Nitrobenzene-d5 (Surr)	89		37 - 147
2-Fluorobiphenyl (Surr)	102		43 - 145
2,4,6-Tribromophenol	116		31 - 143
Terphenyl-d14 (Surr)	114		42 - 157

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-684902/1-A
Matrix: Solid
Analysis Batch: 685803

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 684902

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Arsenic	<1.0		1.0	0.34	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Barium	<1.0		1.0	0.11	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Beryllium	<0.40		0.40	0.093	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Boron	<5.0		5.0	0.47	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Cadmium	<0.20		0.20	0.036	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Calcium	18.4	J	20	3.4	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Chromium	<1.0		1.0	0.50	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Cobalt	<0.50		0.50	0.13	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Copper	<1.0		1.0	0.28	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Iron	13.7	J	20	10	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Lead	<0.50		0.50	0.23	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Magnesium	11.6		10	5.0	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Manganese	0.271	J	1.0	0.15	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Nickel	<1.0		1.0	0.29	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Potassium	<50		50	18	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Selenium	<1.0		1.0	0.59	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Silver	<0.50		0.50	0.13	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Sodium	<100		100	15	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Thallium	<1.0		1.0	0.50	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Vanadium	<0.50		0.50	0.12	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Zinc	<2.0		2.0	0.88	mg/Kg		11/14/22 17:22	11/17/22 21:22	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-684902/2-A
Matrix: Solid
Analysis Batch: 685803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684902

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	46.2		mg/Kg		92	80 - 120
Arsenic	10.0	9.13		mg/Kg		91	80 - 120
Barium	200	201		mg/Kg		101	80 - 120
Beryllium	5.00	4.63		mg/Kg		93	80 - 120
Boron	100	85.6		mg/Kg		86	80 - 120
Cadmium	5.00	4.63		mg/Kg		93	80 - 120
Calcium	1000	941		mg/Kg		94	80 - 120
Chromium	20.0	18.9		mg/Kg		94	80 - 120
Cobalt	50.0	48.5		mg/Kg		97	80 - 120
Copper	25.0	24.8		mg/Kg		99	80 - 120
Iron	100	111		mg/Kg		111	80 - 120
Lead	10.0	8.95		mg/Kg		89	80 - 120
Magnesium	1000	931		mg/Kg		93	80 - 120
Manganese	50.0	47.1		mg/Kg		94	80 - 120
Nickel	50.0	47.1		mg/Kg		94	80 - 120
Potassium	1000	971		mg/Kg		97	80 - 120
Selenium	10.0	8.51		mg/Kg		85	80 - 120
Silver	5.00	4.14		mg/Kg		83	80 - 120
Sodium	1000	981		mg/Kg		98	80 - 120
Thallium	10.0	8.74		mg/Kg		87	80 - 120
Vanadium	50.0	48.0		mg/Kg		96	80 - 120
Zinc	50.0	46.4		mg/Kg		93	80 - 120

Lab Sample ID: 500-225161-4 MS
Matrix: Solid
Analysis Batch: 685803

Client Sample ID: 1401V3-06-B01 (4-8)
Prep Type: Total/NA
Prep Batch: 684902

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.36	J F1	26.0	6.16	F1	mg/Kg	⊛	22	75 - 125
Arsenic	11		5.19	16.3		mg/Kg	⊛	108	75 - 125
Barium	13		104	108		mg/Kg	⊛	91	75 - 125
Beryllium	0.47		2.60	2.91		mg/Kg	⊛	94	75 - 125
Boron	5.6		51.9	48.2		mg/Kg	⊛	82	75 - 125
Cadmium	0.31		2.60	2.68		mg/Kg	⊛	91	75 - 125
Chromium	7.4		10.4	17.8		mg/Kg	⊛	101	75 - 125
Cobalt	8.8		26.0	35.6		mg/Kg	⊛	104	75 - 125
Copper	26		13.0	40.8		mg/Kg	⊛	114	75 - 125
Iron	15000	B	51.9	16500	4	mg/Kg	⊛	2139	75 - 125
Lead	14		5.19	19.6		mg/Kg	⊛	107	75 - 125
Magnesium	27000	B	519	28100	4	mg/Kg	⊛	239	75 - 125
Manganese	280	B	26.0	310	4	mg/Kg	⊛	106	75 - 125
Nickel	22		26.0	47.3		mg/Kg	⊛	97	75 - 125
Potassium	1100	F1	519	2780	F1	mg/Kg	⊛	316	75 - 125
Selenium	<0.52	F1	5.19	3.94		mg/Kg	⊛	76	75 - 125
Silver	0.16	J	2.60	2.50		mg/Kg	⊛	90	75 - 125
Sodium	160		519	663		mg/Kg	⊛	97	75 - 125
Thallium	0.56	F1	5.19	4.32	F1	mg/Kg	⊛	73	75 - 125
Vanadium	10		26.0	35.5		mg/Kg	⊛	98	75 - 125
Zinc	90		26.0	116		mg/Kg	⊛	99	75 - 125

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

Method: 6010B - Metals (ICP)

Lab Sample ID: 500-225161-4 MS
Matrix: Solid
Analysis Batch: 686262

Client Sample ID: 1401V3-06-B01 (4-8)
Prep Type: Total/NA
Prep Batch: 684902

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	62000	B	519	64300	4	mg/Kg	☼	382	75 - 125

Lab Sample ID: 500-225161-4 MSD
Matrix: Solid
Analysis Batch: 685803

Client Sample ID: 1401V3-06-B01 (4-8)
Prep Type: Total/NA
Prep Batch: 684902

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.36	J F1	25.3	6.29	F1	mg/Kg	☼	23	75 - 125	2	20
Arsenic	11		5.07	16.1		mg/Kg	☼	107	75 - 125	1	20
Barium	13		101	104		mg/Kg	☼	90	75 - 125	4	20
Beryllium	0.47		2.53	2.77		mg/Kg	☼	91	75 - 125	5	20
Boron	5.6		50.7	47.2		mg/Kg	☼	82	75 - 125	2	20
Cadmium	0.31		2.53	2.59		mg/Kg	☼	90	75 - 125	4	20
Chromium	7.4		10.1	17.0		mg/Kg	☼	95	75 - 125	5	20
Cobalt	8.8		25.3	34.4		mg/Kg	☼	101	75 - 125	3	20
Copper	26		12.7	41.6		mg/Kg	☼	124	75 - 125	2	20
Iron	15000	B	50.7	16500	4	mg/Kg	☼	2228	75 - 125	0	20
Lead	14		5.07	18.7		mg/Kg	☼	92	75 - 125	5	20
Magnesium	27000	B	507	28100	4	mg/Kg	☼	249	75 - 125	0	20
Manganese	280	B	25.3	350	4	mg/Kg	☼	266	75 - 125	12	20
Nickel	22		25.3	45.9		mg/Kg	☼	94	75 - 125	3	20
Potassium	1100	F1	507	2660	F1	mg/Kg	☼	300	75 - 125	5	20
Selenium	<0.52	F1	5.07	3.54	F1	mg/Kg	☼	70	75 - 125	11	20
Silver	0.16	J	2.53	2.37		mg/Kg	☼	87	75 - 125	5	20
Sodium	160		507	624		mg/Kg	☼	92	75 - 125	6	20
Thallium	0.56	F1	5.07	4.24	F1	mg/Kg	☼	73	75 - 125	2	20
Vanadium	10		25.3	33.9		mg/Kg	☼	94	75 - 125	5	20
Zinc	90		25.3	115		mg/Kg	☼	99	75 - 125	1	20

Lab Sample ID: 500-225161-4 MSD
Matrix: Solid
Analysis Batch: 686262

Client Sample ID: 1401V3-06-B01 (4-8)
Prep Type: Total/NA
Prep Batch: 684902

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	62000	B	507	71300	4	mg/Kg	☼	1783	75 - 125	10	20

Lab Sample ID: 500-225161-4 DU
Matrix: Solid
Analysis Batch: 685803

Client Sample ID: 1401V3-06-B01 (4-8)
Prep Type: Total/NA
Prep Batch: 684902

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	0.36	J F1	0.407	J	mg/Kg	☼	13	20
Arsenic	11		10.7		mg/Kg	☼	0.3	20
Barium	13		13.3		mg/Kg	☼	0.8	20
Beryllium	0.47		0.483		mg/Kg	☼	2	20
Boron	5.6		6.03		mg/Kg	☼	7	20
Cadmium	0.31		0.340		mg/Kg	☼	9	20
Chromium	7.4		7.63		mg/Kg	☼	3	20
Cobalt	8.8		9.33		mg/Kg	☼	6	20

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-225161-4 DU
Matrix: Solid
Analysis Batch: 685803

Client Sample ID: 1401V3-06-B01 (4-8)
Prep Type: Total/NA
Prep Batch: 684902

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Copper	26		27.1		mg/Kg	✖	4	20
Iron	15000	B	15200		mg/Kg	✖	1	20
Lead	14		14.2		mg/Kg	✖	1	20
Magnesium	27000	B	26800		mg/Kg	✖	0.4	20
Manganese	280	B	299		mg/Kg	✖	6	20
Nickel	22		22.9		mg/Kg	✖	4	20
Potassium	1100	F1	1190		mg/Kg	✖	4	20
Selenium	<0.52	F1	<0.53		mg/Kg	✖	NC	20
Silver	0.16	J	0.136	J	mg/Kg	✖	14	20
Sodium	160		161		mg/Kg	✖	1	20
Thallium	0.56	F1	0.693	F5	mg/Kg	✖	21	20
Vanadium	10		10.2		mg/Kg	✖	3	20
Zinc	90		84.9		mg/Kg	✖	6	20

Lab Sample ID: 500-225161-4 DU
Matrix: Solid
Analysis Batch: 686262

Client Sample ID: 1401V3-06-B01 (4-8)
Prep Type: Total/NA
Prep Batch: 684902

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Calcium	62000	B	61100		mg/Kg	✖	2	20

Lab Sample ID: LCS 500-685167/2-A
Matrix: Solid
Analysis Batch: 685532

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685167

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Barium	0.500	0.496	J	mg/L		99	80 - 120
Beryllium	0.0500	0.0463		mg/L		93	80 - 120
Boron	1.00	0.932		mg/L		93	80 - 120
Cadmium	0.0500	0.0505		mg/L		101	80 - 120
Chromium	0.200	0.182		mg/L		91	80 - 120
Cobalt	0.500	0.485		mg/L		97	80 - 120
Iron	1.00	0.884		mg/L		88	80 - 120
Lead	0.100	0.0905		mg/L		90	80 - 120
Manganese	0.500	0.454		mg/L		91	80 - 120
Nickel	0.500	0.470		mg/L		94	80 - 120
Selenium	0.100	0.102		mg/L		102	80 - 120
Silver	0.0500	0.0514		mg/L		103	80 - 120
Zinc	0.500	0.476	J	mg/L		95	80 - 120

Lab Sample ID: LCS 500-685169/2-A
Matrix: Solid
Analysis Batch: 685803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685169

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Manganese	0.500	0.490		mg/L		98	80 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-684867/1-B
Matrix: Solid
Analysis Batch: 685532

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685167

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 21:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/22 19:01	11/16/22 21:28	1
Boron	<0.50		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 21:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/22 19:01	11/16/22 21:28	1
Chromium	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:28	1
Cobalt	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:28	1
Iron	<0.40		0.40	0.20	mg/L		11/15/22 19:01	11/16/22 21:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/15/22 19:01	11/16/22 21:28	1
Manganese	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:28	1
Nickel	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:28	1
Selenium	<0.050		0.050	0.020	mg/L		11/15/22 19:01	11/16/22 21:28	1
Silver	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:28	1
Zinc	<0.50		0.50	0.020	mg/L		11/15/22 19:01	11/16/22 21:28	1

Lab Sample ID: LB 500-684882/1-B
Matrix: Solid
Analysis Batch: 685803

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 685169

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Manganese	<0.025		0.025	0.010	mg/L		11/15/22 19:05	11/17/22 18:30	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-685167/2-A
Matrix: Solid
Analysis Batch: 685882

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685167

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Antimony	0.500	0.509		mg/L		102	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: LB 500-684867/1-B
Matrix: Solid
Analysis Batch: 685882

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685167

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		11/15/22 19:01	11/17/22 19:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/15/22 19:01	11/17/22 19:57	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-685346/12-A
Matrix: Solid
Analysis Batch: 685588

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685346

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		11/16/22 11:50	11/17/22 10:26	1

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LCS 500-685346/14-A
Matrix: Solid
Analysis Batch: 685588

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685346

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00178		mg/L		90	80 - 120

Lab Sample ID: LB 500-684867/1-C
Matrix: Solid
Analysis Batch: 685588

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685346

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/16/22 11:50	11/17/22 10:28	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-685768/12-A
Matrix: Solid
Analysis Batch: 686326

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685768

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		11/18/22 13:10	11/21/22 07:49	1

Lab Sample ID: LCS 500-685768/13-A
Matrix: Solid
Analysis Batch: 686326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685768

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.144		mg/Kg		87	80 - 120

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

Client Sample ID: 1401V3-06-B02 (0-4)

Lab Sample ID: 500-225161-1

Date Collected: 11/09/22 12:00

Matrix: Solid

Date Received: 11/09/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			684882	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
SPLP East	Prep	3010A			685169	LMB	EET CHI	11/15/22 19:05 - 11/15/22 19:35 ¹
SPLP East	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 19:24
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6010B		1	685532	JJB	EET CHI	11/16/22 22:24
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6020A		1	685882	FXG	EET CHI	11/17/22 20:52
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	7470A			685346	MJG	EET CHI	11/16/22 11:50 - 11/16/22 13:50 ¹
TCLP	Analysis	7470A		1	685588	MJG	EET CHI	11/17/22 11:04
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 21:42
Total/NA	Analysis	Moisture		1	685030	LWN	EET CHI	11/15/22 12:17

Client Sample ID: 1401V3-06-B02 (0-4)

Lab Sample ID: 500-225161-1

Date Collected: 11/09/22 12:00

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684692	WRE	EET CHI	11/10/22 17:39
Total/NA	Analysis	8260B		1	684731	W1T	EET CHI	11/14/22 16:32
Total/NA	Prep	3541			685446	KN	EET CHI	11/17/22 07:24 - 11/17/22 15:30 ¹
Total/NA	Analysis	8270D		2	686691	JSB	EET CHI	11/23/22 16:39
Total/NA	Prep	3050B			684902	LMB	EET CHI	11/14/22 17:22 - 11/14/22 17:52 ¹
Total/NA	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 22:01
Total/NA	Prep	7471B			685768	MJG	EET CHI	11/18/22 13:10
Total/NA	Analysis	7471B		1	686326	MJG	EET CHI	11/21/22 08:05

Client Sample ID: 1401V3-06-B02 (4-8)

Lab Sample ID: 500-225161-2

Date Collected: 11/09/22 12:02

Matrix: Solid

Date Received: 11/09/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			684882	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
SPLP East	Prep	3010A			685169	LMB	EET CHI	11/15/22 19:05 - 11/15/22 19:35 ¹
SPLP East	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 19:27
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6010B		1	685532	JJB	EET CHI	11/16/22 22:28
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6020A		1	685882	FXG	EET CHI	11/17/22 20:55
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	7470A			685346	MJG	EET CHI	11/16/22 11:50 - 11/16/22 13:50 ¹
TCLP	Analysis	7470A		1	685588	MJG	EET CHI	11/17/22 11:06

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

Client Sample ID: 1401V3-06-B02 (4-8)

Lab Sample ID: 500-225161-2

Date Collected: 11/09/22 12:02

Matrix: Solid

Date Received: 11/09/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 21:44
Total/NA	Analysis	Moisture		1	685030	LWN	EET CHI	11/15/22 12:17

Client Sample ID: 1401V3-06-B02 (4-8)

Lab Sample ID: 500-225161-2

Date Collected: 11/09/22 12:02

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684692	WRE	EET CHI	11/10/22 17:39
Total/NA	Analysis	8260B		1	684731	W1T	EET CHI	11/14/22 16:56
Total/NA	Prep	3541			685446	KN	EET CHI	11/17/22 07:24 - 11/17/22 15:30 ¹
Total/NA	Analysis	8270D		1	686590	SS	EET CHI	11/22/22 22:35
Total/NA	Prep	3050B			684902	LMB	EET CHI	11/14/22 17:22 - 11/14/22 17:52 ¹
Total/NA	Analysis	6010B		1	685803	JJJ	EET CHI	11/17/22 22:04
Total/NA	Prep	7471B			685768	MJG	EET CHI	11/18/22 13:10
Total/NA	Analysis	7471B		1	686326	MJG	EET CHI	11/21/22 08:07

Client Sample ID: 1401V3-06-B01 (0-4)

Lab Sample ID: 500-225161-3

Date Collected: 11/09/22 12:15

Matrix: Solid

Date Received: 11/09/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			684882	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
SPLP East	Prep	3010A			685169	LMB	EET CHI	11/15/22 19:05 - 11/15/22 19:35 ¹
SPLP East	Analysis	6010B		1	685803	JJJ	EET CHI	11/17/22 19:31
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6010B		1	685532	JJJ	EET CHI	11/16/22 22:31
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6020A		1	685882	FXG	EET CHI	11/17/22 20:58
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	7470A			685346	MJG	EET CHI	11/16/22 11:50 - 11/16/22 13:50 ¹
TCLP	Analysis	7470A		1	685588	MJG	EET CHI	11/17/22 11:08
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 21:47
Total/NA	Analysis	Moisture		1	685030	LWN	EET CHI	11/15/22 12:17

Client Sample ID: 1401V3-06-B01 (0-4)

Lab Sample ID: 500-225161-3

Date Collected: 11/09/22 12:15

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684692	WRE	EET CHI	11/10/22 17:39
Total/NA	Analysis	8260B		1	684731	W1T	EET CHI	11/14/22 17:20

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

Client Sample ID: 1401V3-06-B01 (0-4)

Lab Sample ID: 500-225161-3

Date Collected: 11/09/22 12:15

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			685446	KN	EET CHI	11/17/22 07:24 - 11/17/22 15:30 ¹
Total/NA	Analysis	8270D		1	686590	SS	EET CHI	11/22/22 22:58
Total/NA	Prep	3050B			684902	LMB	EET CHI	11/14/22 17:22 - 11/14/22 17:52 ¹
Total/NA	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 22:07
Total/NA	Prep	7471B			685768	MJG	EET CHI	11/18/22 13:10
Total/NA	Analysis	7471B		1	686326	MJG	EET CHI	11/21/22 08:09

Client Sample ID: 1401V3-06-B01 (4-8)

Lab Sample ID: 500-225161-4

Date Collected: 11/09/22 12:18

Matrix: Solid

Date Received: 11/09/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			684882	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
SPLP East	Prep	3010A			685169	LMB	EET CHI	11/15/22 19:05 - 11/15/22 19:35 ¹
SPLP East	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 19:34
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6010B		1	685532	JJB	EET CHI	11/16/22 22:34
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6020A		1	685882	FXG	EET CHI	11/17/22 21:02
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	7470A			685346	MJG	EET CHI	11/16/22 11:50 - 11/16/22 13:50 ¹
TCLP	Analysis	7470A		1	685588	MJG	EET CHI	11/17/22 11:10
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 21:49
Total/NA	Analysis	Moisture		1	685030	LWN	EET CHI	11/15/22 12:17

Client Sample ID: 1401V3-06-B01 (4-8)

Lab Sample ID: 500-225161-4

Date Collected: 11/09/22 12:18

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684692	WRE	EET CHI	11/10/22 17:39
Total/NA	Analysis	8260B		1	684731	W1T	EET CHI	11/14/22 17:44
Total/NA	Prep	3541			686807	EK	EET CHI	11/23/22 14:48 - 11/23/22 17:30 ¹
Total/NA	Analysis	8270D		1	687487	SS	EET CHI	11/30/22 23:42
Total/NA	Prep	3050B			684902	LMB	EET CHI	11/14/22 17:22 - 11/14/22 17:52 ¹
Total/NA	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 22:10
Total/NA	Prep	3050B			684902	LMB	EET CHI	11/14/22 17:22 - 11/14/22 17:52 ¹
Total/NA	Analysis	6010B		5	686262	JJB	EET CHI	11/18/22 13:18
Total/NA	Prep	7471B			685768	MJG	EET CHI	11/18/22 13:10
Total/NA	Analysis	7471B		1	686326	MJG	EET CHI	11/21/22 08:11

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Eurofins Chicago

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225161-1

Laboratory: Eurofins Chicago

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

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

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

Chain of Custody Record

522921




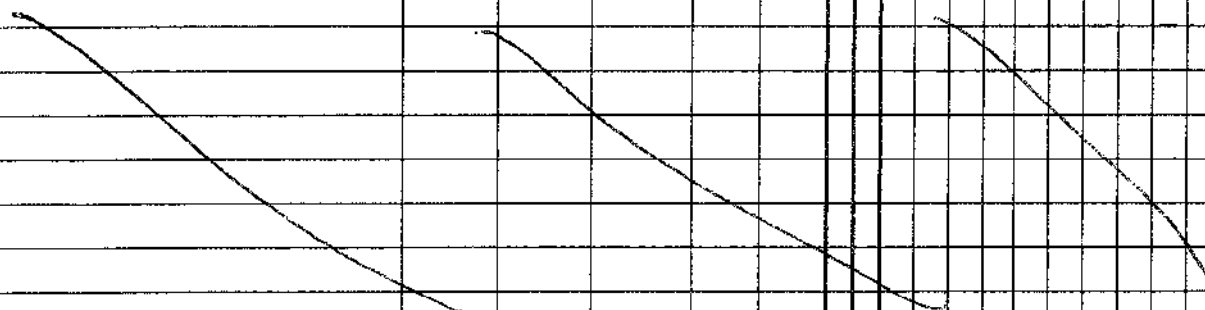
Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

11/09/2022

TAL-8210

Client Contact		Project Manager <i>D. Tichout</i>		Site Contact <i>A. Hefner</i>		Date <i>11/09/2022</i>		COC No <i>2</i>	
Company Name <i>WSP</i>		Tel/Email		Lab Contact <i>P. Wright</i>		Carrier		2 of 7 COCs	
Address <i>30 N. LaSalle</i>		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) <i>pH</i> <i>4 solids</i> <i>VOC'S</i> <i>SVOC'S</i> <i>Total Metals</i> <i>TCLP</i>		 500-225161 COC		Sampler	
City/State/Zip <i>Chicago, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below						For Lab Use Only:	
Phone		<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Walk-in Client	
Fax								Lab Sampling	
Project Name <i>BIT Water Butterfield Rd</i>								Job / SDG No	
Site <i>PN 31402935.013</i>								<i>500-225161</i>	
P O #								Sample Specific Notes	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	
<i>1</i>	<i>1401V3-06-B02(0-4)</i>	<i>11/9/22</i>	<i>1200</i>	<i>C</i>	<i>S</i>	<i>2</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>2</i>	<i>1401V3-06-B02(4-8)</i>	<i>11/9/22</i>	<i>1202</i>	<i>C</i>	<i>S</i>	<i>2</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>3</i>	<i>1401V3-06-B01(0-4)</i>	<i>11/9/22</i>	<i>1215</i>	<i>C</i>	<i>S</i>	<i>2</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>4</i>	<i>1401V3-06-B01(4-8)</i>	<i>11/9/22</i>	<i>1218</i>	<i>C</i>	<i>S</i>	<i>2</i>	<i>X</i>	<i>X</i>	<i>X</i>
									
Preservation Used. 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments: <i>* SLP dependent on TCLP results</i>									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd		Cor'd		Therm ID No	
Retrieved by <i>Dawn Cooper</i>		Company <i>WSP</i>		Date/Time <i>11/9/22 1545</i>		Received by <i>A. J. Ellis</i>		Company <i>EETA</i>	
Retrieved by <i>A. J. Ellis</i>		Company <i>EETA</i>		Date/Time <i>11/9/22 1700</i>		Received by		Company	
Retrieved by		Company		Date/Time		Received in Laboratory by <i>Dawn Cooper</i>		Company <i>EETA</i>	
								Date/Time <i>11/10/22 0750</i>	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225161-1

Login Number: 225161

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.5,2.5,5.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 365 & FAP 870 (Butterfield Road) Office Phone Number, if available: _____

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

21 W 730 Butterfield Road (ISGS #1401V3-7)

City: Lombard State: IL Zip Code: 60148

County: DuPage Township: Milton

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

Latitude: 41.83238 Longitude: -88.05249
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: 0430455057 BOW: _____ BOA: _____

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

Estimated Volume of debris (cu. Yd.): 2,086

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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



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

Analytical Data Summary
PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

Key to Data Tables

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

Criteria Qualifiers and Shading

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

CONTAMINANTS OF CONCERN

SITE	ISGS #1401V3-07 (Glen Briar Park and Aquatics Center)			Comparison Criteria					
	1401V3-07-B01		1401V3-07-B03	MACs			TACO		
BORING	1401V3-07-B01 (0-7)		1401V3-07-B01 (7-13)	1401V3-07-B03 (0-6)			Residential	Construction Worker	SCGIER
SAMPLE	Soil	Soil	Soil	Most Stringent	Within an MSA	Within Chicago			
MATRIX	0-7	7-13	0-6						
DEPTH (feet)	7.5	8.0	7.1						
pH	--	--	--						
PID (meter units)									
VOCs (mg/kg)									
2-Butanone (MEK)	ND U	ND U	ND U	--	--	--	--	--	--
Acetone	ND U	0.010 J	ND U	25	--	--	70,000	100,000	--
Benzene	ND U	ND U	ND U	0.03	--	--	0.8	2.2	--
Methylene Chloride	ND U	0.0047 J	ND U	0.02	--	--	13	34	--
Toluene	ND U	ND U	ND U	12	--	--	650	42	--
Xylenes, Total	ND U	ND U	ND U	5.6	--	--	320	5.6	--
SVOCs (mg/kg)									
2-Methylnaphthalene	ND U	ND U	0.032 J	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	570	--	0.94	4,700	120,000	--
Acenaphthylene	ND U	ND U	ND U	--	--	0.25	--	--	--
Anthracene	ND U	ND U	0.015 J	12,000	--	2.6	23,000	610,000	--
Benzo(a)anthracene	ND U	ND U	0.0094 J	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	ND U	ND U	0.014 J	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	ND U	ND U	0.023 J	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	ND U	ND U	0.014 J	--	--	4.4	--	--	--
Benzo(k)fluoranthene	ND U	ND U	ND U	9	--	8.1	9	1,700	--
Chrysene	ND U	ND U	0.017 J	88	--	11	88	17,000	--
Dibenzo(a,h)anthracene	ND U	ND U	ND U	0.09	0.42	1	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	ND U	ND U	0.025 J	3,100	--	28	3,100	82,000	--
Fluorene	ND U	ND U	ND U	560	--	1.1	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND U	ND U	0.011 J	0.9	1.6	5.8	1.6	170	--
Naphthalene	ND U	ND U	ND U	1.8	--	0.26	170	1.8	--
Phenanthrene	ND U	ND U	0.019 J	--	--	15	--	--	--
Pyrene	ND UJ	ND UJ	0.015 J	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)									
Antimony	0.46 J	0.43 J	0.37 J	5	--	--	31	82	--
Arsenic	11	11 J	9.3	11.3	13	--	13	61	--
Barium	98	19	56	1,500	--	--	5,500	14,000	--
Beryllium	1.0	0.63	0.75	22	--	--	160	410	--
Boron	9.4	9.7	12	40	--	--	16,000	41,000	--
Cadmium	0.16	0.28	0.27	5.2	--	--	78	200	--
Calcium	1,800	43,000	81,000	--	--	--	--	--	--
Chromium	22 †	11	13	21	--	--	230	690	--
Cobalt	17	11	10	20	--	--	4,700	12,000	--
Copper	27	30	20	2,900	--	--	2,900	8,200	--
Iron	26,000 †m	18,000 †m	22,000 †m	15,000	15,900	--	--	--	--
Lead	20	18	68	107	--	--	400	700	--
Magnesium	5,100	24,000	49,000	325,000	--	--	--	730,000	--
Manganese	440	350	560	630	636	--	1,600	4,100	--
Mercury	0.036	0.021	0.034	0.89	--	--	10	0.1	--
Nickel	46	26	23	100	--	--	1,600	4,100	--
Potassium	2,300	1,900 J	2,100	--	--	--	--	--	--
Selenium	ND U	ND UJ	ND U	1.3	--	--	390	1,000	--
Silver	ND U	ND U	ND U	4.4	--	--	390	1,000	--
Sodium	83	140	770	--	--	--	--	--	--
Thallium	0.41 J	0.33 J	ND U	2.6	--	--	6.3	160	--
Vanadium	25	14	18	550	--	--	550	1,400	--
Zinc	85	90	58	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)									
Barium	0.35 J	0.19 J	0.53	--	--	--	--	--	2
Boron	0.12 J	0.099 J	0.070 J	--	--	--	--	--	2
Cadmium	ND U	ND U	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	ND U	ND U	ND U	--	--	--	--	--	1
Iron	0.21 J	ND U	0.29 J	--	--	--	--	--	5
Lead	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	0.011 J	1.4 L	1.6 L	--	--	--	--	--	0.15
Nickel	ND U	ND U	0.011 J	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U	--	--	--	--	--	0.05
Zinc	ND U	0.029 J	ND U	--	--	--	--	--	5
SPLP Metals (mg/L)									
Lead	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	NA	0.54 L	1.2 L	--	--	--	--	--	0.15

**PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11
CONTAMINANTS OF CONCERN**

SITE	ISGS #1401V3-07 (Glen Briar Park and Aquatics Center)				Comparison Criteria					
	1401V3-07-B04		1401V3-07-B06		MACs			TACO		
BORING	1401V3-07-B04		1401V3-07-B06		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1401V3-07-B04 (0-5)	1401V3-07-B04 (5-9)	1401V3-07-B06 (0-5)	1401V3-07-B06 (5-9)						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-5	5-9	0-5	5-9						
pH	6.9	6.8	7.7	7.5						
PID (meter units)	--	--	--	--						
VOCs (mg/kg)										
2-Butanone (MEK)	0.011	ND U	ND U	ND U	--	--	--	--	--	--
Acetone	0.044	ND U	ND U	ND U	25	--	--	70,000	100,000	--
Benzene	ND U	ND U	ND U	ND U	0.03	--	--	0.8	2.2	--
Methylene Chloride	ND U	ND U	ND U	0.0034 J	0.02	--	--	13	34	--
Toluene	0.0010 J	ND U	ND U	ND U	12	--	--	650	42	--
Xylenes, Total	ND U	ND U	ND U	ND U	5.6	--	--	320	5.6	--
SVOCs (mg/kg)										
2-Methylnaphthalene	0.033 J	ND U	ND U	ND U	--	--	--	--	--	--
Acenaphthene	0.031 J	ND U	ND U	ND U	570	--	0.94	4,700	120,000	--
Acenaphthylene	0.013 J	ND U	ND U	ND U	--	--	0.25	--	--	--
Anthracene	0.018 J	ND U	ND U	ND U	12,000	--	2.6	23,000	610,000	--
Benzo(a)anthracene	0.033 J	ND U	ND U	ND U	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	0.046	ND U	ND U	ND U	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	0.073	ND U	ND U	ND U	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	0.028 J	ND U	ND U	ND U	--	--	4.4	--	--	--
Benzo(k)fluoranthene	0.023 J	ND U	ND U	ND U	9	--	8.1	9	1,700	--
Chrysene	0.051	ND U	ND U	ND U	88	--	11	88	17,000	--
Dibenzo(a,h)anthracene	0.0091 J	ND U	ND U	ND U	0.09	0.42	1	0.42	17	--
Dibenzofuran	0.056 J	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	0.085	ND U	0.013 J	ND U	3,100	--	28	3,100	82,000	--
Fluorene	0.039	ND U	ND U	ND U	560	--	1.1	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.024 J	ND U	ND U	ND U	0.9	1.6	5.8	1.6	170	--
Naphthalene	0.0062 J	ND U	ND U	ND U	1.8	--	0.26	170	1.8	--
Phenanthrene	0.044	ND U	0.015 J	ND U	--	--	15	--	--	--
Pyrene	0.063 J	ND UJ	ND UJ	ND UJ	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)										
Antimony	0.32 J	0.44 J	0.36 J	0.37 J	5	--	--	31	82	--
Arsenic	9.9	9.5	10	7.1	11.3	13	--	13	61	--
Barium	65	81	77	95	1,500	--	--	5,500	14,000	--
Beryllium	0.86	0.86	0.94	0.93	22	--	--	160	410	--
Boron	9.5	4.3	6.4	4.0	40	--	--	16,000	41,000	--
Cadmium	0.23	0.10 J	0.16	0.25	5.2	--	--	78	200	--
Calcium	26,000	1,600	2,500	2,800	--	--	--	--	--	--
Chromium	16	17	20	20	21	--	--	230	690	--
Cobalt	13	13	17	14	20	--	--	4,700	12,000	--
Copper	24	22	23	20	2,900	--	--	2,900	8,200	--
Iron	21,000 †m	21,000 †m	23,000 †m	23,000 †m	15,000	15,900	--	--	--	--
Lead	31	18	23	19	107	--	--	400	700	--
Magnesium	16,000	3,200	3,700	4,000	325,000	--	--	--	730,000	--
Manganese	590	550	580	550	630	636	--	1,600	4,100	--
Mercury	0.031	0.043	0.040	0.046	0.89	--	--	10	0.1	--
Nickel	29	28	30	28	100	--	--	1,600	4,100	--
Potassium	2,300	1,300	2,100	1,600	--	--	--	--	--	--
Selenium	ND U	0.38 J	0.35 J	ND U	1.3	--	--	390	1,000	--
Silver	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	--
Sodium	1,000	770	710	1,000	--	--	--	--	--	--
Thallium	0.43 J	ND U	0.36 J	ND U	2.6	--	--	6.3	160	--
Vanadium	23	30	28	25	550	--	--	550	1,400	--
Zinc	69	63	67	80	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	0.69	0.45 J	0.44 J	0.15 J	--	--	--	--	--	2
Boron	0.094 J	0.054 J	0.086 J	0.063 J	--	--	--	--	--	2
Cadmium	0.0028 J	ND U	ND U	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	0.070	ND U	ND U	ND U	--	--	--	--	--	1
Iron	1.6	ND U	ND U	0.43	--	--	--	--	--	5
Lead	0.064 L	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	14 L	0.026	1.1 L	0.011 J	--	--	--	--	--	0.15
Nickel	0.046	ND U	ND U	ND U	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05
Zinc	0.14 J	ND U	ND U	ND U	--	--	--	--	--	5
SPLP Metals (mg/L)										
Lead	0.56 L	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	1.3 L	NA	0.79 L	NA	--	--	--	--	--	0.15

CONTAMINANTS OF CONCERN

SITE	ISGS #1401V3-07 (Glen Briar Park and Aquatics Center)			Comparison Criteria					
	1401V3-07-B07		1401V3-07-B08	MACs			TACO		
BORING	1401V3-07-B07		1401V3-07-B08	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1401V3-07-B07 (0-5)	1401V3-07-B07 (5-9)	1401V3-07-B08 (0-2)						
MATRIX	Soil	Soil	Soil						
DEPTH (feet)	0-5	5-9	0-2						
pH	7.8 J	6.5	6.5						
PID (meter units)	--	--	--						
VOCs (mg/kg)									
2-Butanone (MEK)	ND U	ND U	ND U	--	--	--	--	--	--
Acetone	ND U	ND U	ND U	25	--	--	70,000	100,000	--
Benzene	ND U	ND U	ND U	0.03	--	--	0.8	2.2	--
Methylene Chloride	ND U	ND U	ND U	0.02	--	--	13	34	--
Toluene	ND U	ND U	ND U	12	--	--	650	42	--
Xylenes, Total	ND U	ND U	ND U	5.6	--	--	320	5.6	--
SVOCs (mg/kg)									
2-Methylnaphthalene	ND U	ND U	ND U	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	570	--	0.94	4,700	120,000	--
Acenaphthylene	ND U	ND U	ND U	--	--	0.25	--	--	--
Anthracene	ND U	ND U	ND U	12,000	--	2.6	23,000	610,000	--
Benzo(a)anthracene	ND U	ND U	ND U	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	ND U	ND U	ND U	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	ND U	ND U	ND U	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	ND U	ND U	ND U	--	--	4.4	--	--	--
Benzo(k)fluoranthene	ND U	ND U	ND U	9	--	8.1	9	1,700	--
Chrysene	ND U	ND U	ND U	88	--	11	88	17,000	--
Dibenzo(a,h)anthracene	ND UJ	ND UJ	ND UJ	0.09	0.42	1	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	ND U	ND U	ND U	3,100	--	28	3,100	82,000	--
Fluorene	ND U	ND U	ND U	560	--	1.1	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND U	ND U	ND U	0.9	1.6	5.8	1.6	170	--
Naphthalene	ND U	ND U	ND U	1.8	--	0.26	170	1.8	--
Phenanthrene	ND U	ND U	ND U	--	--	15	--	--	--
Pyrene	ND U	ND U	ND U	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)									
Antimony	ND U	0.36 J	0.33 J	5	--	--	31	82	--
Arsenic	8.7	13	8.9	11.3	13	--	13	61	--
Barium	100	30	110	1,500	--	--	5,500	14,000	--
Beryllium	0.77	0.61	0.82	22	--	--	160	410	--
Boron	2.3 J	6.6	5.7	40	--	--	16,000	41,000	--
Cadmium	0.085 J	0.26	0.25	5.2	--	--	78	200	--
Calcium	3,200	33,000	8,800	--	--	--	--	--	--
Chromium	16	11	16	21	--	--	230	690	--
Cobalt	12	8.2	12	20	--	--	4,700	12,000	--
Copper	14	29	21	2,900	--	--	2,900	8,200	--
Iron	19,000 †m	19,000 †m	19,000 †m	15,000	15,900	--	--	--	--
Lead	22	15	88	107	--	--	400	700	--
Magnesium	3,700	22,000	6,300	325,000	--	--	--	730,000	--
Manganese	700 †m	330	470	630	636	--	1,600	4,100	--
Mercury	0.038	0.034	0.033	0.89	--	--	10	0.1	--
Nickel	19	25	26	100	--	--	1,600	4,100	--
Potassium	1,000	1,400	1,700	--	--	--	--	--	--
Selenium	ND U	ND U	ND U	1.3	--	--	390	1,000	--
Silver	0.32	0.18 J	0.28 J	4.4	--	--	390	1,000	--
Sodium	200	320	61	--	--	--	--	--	--
Thallium	ND U	0.46 J	0.38 J	2.6	--	--	6.3	160	--
Vanadium	28	14	22	550	--	--	550	1,400	--
Zinc	59	95	89	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)									
Barium	0.61	0.55	0.75	--	--	--	--	--	2
Boron	1.0	1.2	1.2	--	--	--	--	--	2
Cadmium	ND U	ND U	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	ND U	ND U	ND U	--	--	--	--	--	1
Iron	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	ND U	0.0079 L	--	--	--	--	--	0.0075
Manganese	0.037	0.84 L	0.10	--	--	--	--	--	0.15
Nickel	ND U	ND U	ND U	--	--	--	--	--	0.1
Selenium	0.020 J	ND U	ND U	--	--	--	--	--	0.05
Zinc	0.063 J	0.056 J	0.086 J	--	--	--	--	--	5
SPLP Metals (mg/L)									
Lead	NA	NA	0.053 L	--	--	--	--	--	0.0075
Manganese	NA	0.51 L	NA	--	--	--	--	--	0.15

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ANALYTICAL REPORT

PREPARED FOR

Attn: Dean Tiebot
WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602
Generated 11/28/2022 5:19:29 PM

JOB DESCRIPTION

IDOT - 196-002-WO 13 IL 56

JOB NUMBER

500-225162-1

Eurofins Chicago

Job Notes

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Authorization



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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Job ID: 500-225162-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225162-1

Receipt

The samples were received on 11/9/2022 5:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.5° C, 5.5° C and 5.6° C.

GC/MS VOA

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

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-686476 was outside the method criteria for the following analyte(s): 4,6-Dinitro-2-methylphenol and Dibenzo(a,h)anthracene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with preparation batch 500-685501 and analytical batch 500-686476 had 1 analytes outside control limits: Indeno[1,2,3-cd]pyrene. These results have been reported and qualified.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-685501 and analytical batch 500-686476 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Metals

Method 6010B: The method blank for preparation batch 500-684902 and analytical batch 500-685803 contained Magnesium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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

General Chemistry

Method 9045D: Reanalysis of the following sample(s) was performed outside of the analytical holding time due the original pH result was outside it's limits. Original pH was performed and reported in batch 685174. : 1401V3-07-B09 (0-5) (500-225162-4).

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

Organic Prep

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

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Client Sample ID: 1401V3-07-B07 (0-5)

Lab Sample ID: 500-225162-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.7		0.55	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	100		0.55	0.063	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.77		0.22	0.051	mg/Kg	1	✳	6010B	Total/NA
Boron	2.3	J	2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.085	J	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	3200	B	11	1.9	mg/Kg	1	✳	6010B	Total/NA
Chromium	16		0.55	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	12		0.28	0.072	mg/Kg	1	✳	6010B	Total/NA
Copper	14		0.55	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	19000	B	11	5.7	mg/Kg	1	✳	6010B	Total/NA
Lead	22		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	3700	B	5.5	2.7	mg/Kg	1	✳	6010B	Total/NA
Manganese	700	B	0.55	0.080	mg/Kg	1	✳	6010B	Total/NA
Nickel	19		0.55	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	1000		28	9.8	mg/Kg	1	✳	6010B	Total/NA
Silver	0.32		0.28	0.071	mg/Kg	1	✳	6010B	Total/NA
Sodium	200		55	8.2	mg/Kg	1	✳	6010B	Total/NA
Vanadium	28		0.28	0.065	mg/Kg	1	✳	6010B	Total/NA
Zinc	59		1.1	0.48	mg/Kg	1	✳	6010B	Total/NA
Barium	0.61		0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.0		0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.037		0.025	0.010	mg/L	1		6010B	TCLP
Selenium	0.020	J	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.063	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.038		0.018	0.0060	mg/Kg	1	✳	7471B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-07-B07 (5-9)

Lab Sample ID: 500-225162-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.36	J	1.1	0.21	mg/Kg	1	✳	6010B	Total/NA
Arsenic	13		0.55	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	30		0.55	0.063	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.61		0.22	0.051	mg/Kg	1	✳	6010B	Total/NA
Boron	6.6		2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.26		0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	33000	B	11	1.9	mg/Kg	1	✳	6010B	Total/NA
Chromium	11		0.55	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	8.2		0.28	0.072	mg/Kg	1	✳	6010B	Total/NA
Copper	29		0.55	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	19000	B	11	5.7	mg/Kg	1	✳	6010B	Total/NA
Lead	15		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	22000	B	5.5	2.7	mg/Kg	1	✳	6010B	Total/NA
Manganese	330	B	0.55	0.080	mg/Kg	1	✳	6010B	Total/NA
Nickel	25		0.55	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	1400		28	9.7	mg/Kg	1	✳	6010B	Total/NA
Silver	0.18	J	0.28	0.071	mg/Kg	1	✳	6010B	Total/NA
Sodium	320		55	8.1	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.46	J	0.55	0.27	mg/Kg	1	✳	6010B	Total/NA
Vanadium	14		0.28	0.065	mg/Kg	1	✳	6010B	Total/NA
Zinc	95		1.1	0.48	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Client Sample ID: 1401V3-07-B07 (5-9) (Continued)

Lab Sample ID: 500-225162-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.55		0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.2		0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.84		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.056	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.51		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.034		0.017	0.0058	mg/Kg	1	✳	7471B	Total/NA
pH	6.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-07-B08 (0-2)

Lab Sample ID: 500-225162-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.33	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	8.9		0.57	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	110		0.57	0.065	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.82		0.23	0.053	mg/Kg	1	✳	6010B	Total/NA
Boron	5.7		2.9	0.27	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.25		0.11	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	8800	B	11	1.9	mg/Kg	1	✳	6010B	Total/NA
Chromium	16		0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	12		0.29	0.075	mg/Kg	1	✳	6010B	Total/NA
Copper	21		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	19000	B	11	6.0	mg/Kg	1	✳	6010B	Total/NA
Lead	88		0.29	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	6300	B	5.7	2.8	mg/Kg	1	✳	6010B	Total/NA
Manganese	470	B	0.57	0.083	mg/Kg	1	✳	6010B	Total/NA
Nickel	26		0.57	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	1700		29	10	mg/Kg	1	✳	6010B	Total/NA
Silver	0.28	J	0.29	0.074	mg/Kg	1	✳	6010B	Total/NA
Sodium	61		57	8.5	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.38	J	0.57	0.29	mg/Kg	1	✳	6010B	Total/NA
Vanadium	22		0.29	0.068	mg/Kg	1	✳	6010B	Total/NA
Zinc	89		1.1	0.50	mg/Kg	1	✳	6010B	Total/NA
Barium	0.75		0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.2		0.50	0.050	mg/L	1		6010B	TCLP
Lead	0.0079		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	0.10		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.086	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.053		0.0075	0.0075	mg/L	1		6010B	SPLP East
Mercury	0.033		0.018	0.0059	mg/Kg	1	✳	7471B	Total/NA
pH	6.5		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010B	Metals (ICP)	SW846	EET CHI
6010B	SPLP Metals	SW846	EET CHI
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225162-1	1401V3-07-B07 (0-5)	Solid	11/09/22 12:45	11/09/22 17:00
500-225162-2	1401V3-07-B07 (5-9)	Solid	11/09/22 12:48	11/09/22 17:00
500-225162-3	1401V3-07-B08 (0-2)	Solid	11/09/22 13:00	11/09/22 17:00

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Client Sample ID: 1401V3-07-B07 (0-5)

Lab Sample ID: 500-225162-1

Date Collected: 11/09/22 12:45

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0092	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
Benzene	<0.0021		0.0021	0.00054	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
Bromodichloromethane	<0.0021		0.0021	0.00043	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
Bromoform	<0.0021		0.0021	0.00062	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
Bromomethane	<0.0053		0.0053	0.0020	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
2-Butanone (MEK)	<0.0053		0.0053	0.0023	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
Carbon disulfide	<0.0053		0.0053	0.0011	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
Carbon tetrachloride	<0.0021		0.0021	0.00061	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
Chlorobenzene	<0.0021		0.0021	0.00078	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
Chloroethane	<0.0053		0.0053	0.0016	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
Chloroform	<0.0021		0.0021	0.00073	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
Chloromethane	<0.0053		0.0053	0.0021	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00059	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00064	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
Dibromochloromethane	<0.0021		0.0021	0.00069	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
1,1-Dichloroethane	<0.0021		0.0021	0.00072	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
1,2-Dichloroethane	<0.0053		0.0053	0.0016	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
1,1-Dichloroethene	<0.0021		0.0021	0.00073	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
1,2-Dichloropropane	<0.0021		0.0021	0.00055	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
1,3-Dichloropropane, Total	<0.0021		0.0021	0.00074	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
2-Hexanone	<0.0053		0.0053	0.0016	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
Methylene Chloride	<0.0053		0.0053	0.0021	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0016	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00062	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
Styrene	<0.0021		0.0021	0.00064	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00067	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
Tetrachloroethene	<0.0021		0.0021	0.00072	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
Toluene	<0.0021		0.0021	0.00053	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00093	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00074	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00071	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00091	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
Trichloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
Vinyl acetate	<0.0053		0.0053	0.0018	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
Vinyl chloride	<0.0021		0.0021	0.00093	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1
Xylenes, Total	<0.0042		0.0042	0.00068	mg/Kg	☼	11/10/22 17:39	11/14/22 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		75 - 131	11/10/22 17:39	11/14/22 18:34	1
Dibromofluoromethane	89		75 - 126	11/10/22 17:39	11/14/22 18:34	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	11/10/22 17:39	11/14/22 18:34	1
Toluene-d8 (Surr)	83		75 - 124	11/10/22 17:39	11/14/22 18:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Client Sample ID: 1401V3-07-B07 (0-5)

Lab Sample ID: 500-225162-1

Date Collected: 11/09/22 12:45

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
2-Methylphenol	<0.19	F1	0.19	0.061	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
2-Chlorophenol	<0.19	F1	0.19	0.065	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Nitrobenzene	<0.038	F1	0.038	0.0095	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Bis(2-chloroethoxy)methane	<0.19	F1	0.19	0.039	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Isophorone	<0.19	F1	0.19	0.043	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
2,4-Dimethylphenol	<0.38	F1	0.38	0.14	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Naphthalene	<0.038	F1	0.038	0.0059	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
2,4,6-Trichlorophenol	<0.38	F1	0.38	0.13	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
2,4,5-Trichlorophenol	<0.38	F1	0.38	0.087	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
2-Methylnaphthalene	<0.077	F1	0.077	0.0070	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
2-Nitroaniline	<0.19	F1	0.19	0.051	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
4-Chloro-3-methylphenol	<0.38	F1	0.38	0.13	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
2,6-Dinitrotoluene	<0.19	F1	0.19	0.075	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
2-Nitrophenol	<0.38	F1	0.38	0.090	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Dimethyl phthalate	<0.19	F1	0.19	0.050	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
2,4-Dinitrophenol	<0.77	F1	0.77	0.67	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
2,4-Dinitrotoluene	<0.19	F1	0.19	0.061	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Dibenzofuran	<0.19	F1	0.19	0.045	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
4-Nitrophenol	<0.77	F1	0.77	0.36	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Fluorene	<0.038	F1	0.038	0.0054	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
4-Bromophenyl phenyl ether	<0.19	F1	0.19	0.050	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Hexachlorobenzene	<0.077	F1	0.077	0.0088	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
4-Chlorophenyl phenyl ether	<0.19	F1	0.19	0.044	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
N-Nitrosodiphenylamine	<0.19	F1	0.19	0.045	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
4,6-Dinitro-2-methylphenol	<0.77	F1	0.77	0.31	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Phenanthrene	<0.038	F1	0.038	0.0053	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Anthracene	<0.038	F1	0.038	0.0064	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Di-n-butyl phthalate	<0.19	F1	0.19	0.058	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Fluoranthene	<0.038	F1	0.038	0.0071	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Pyrene	<0.038	F1	0.038	0.0076	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Benzo[a]anthracene	<0.038	F1	0.038	0.0051	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Client Sample ID: 1401V3-07-B07 (0-5)

Lab Sample ID: 500-225162-1

Date Collected: 11/09/22 12:45

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Benzo[b]fluoranthene	<0.038	F1	0.038	0.0082	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Indeno[1,2,3-cd]pyrene	<0.038	F1 *+	0.038	0.0099	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Dibenz(a,h)anthracene	<0.038	F1	0.038	0.0074	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1
3 & 4 Methylphenol	<0.19	F1	0.19	0.064	mg/Kg	☼	11/17/22 08:34	11/22/22 12:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	97		31 - 166	11/17/22 08:34	11/22/22 12:19	1
Phenol-d5	91		30 - 153	11/17/22 08:34	11/22/22 12:19	1
Nitrobenzene-d5 (Surr)	102		37 - 147	11/17/22 08:34	11/22/22 12:19	1
2-Fluorobiphenyl (Surr)	97		43 - 145	11/17/22 08:34	11/22/22 12:19	1
2,4,6-Tribromophenol	86		31 - 143	11/17/22 08:34	11/22/22 12:19	1
Terphenyl-d14 (Surr)	122		42 - 157	11/17/22 08:34	11/22/22 12:19	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.21	mg/Kg	☼	11/14/22 17:22	11/17/22 22:37	1
Arsenic	8.7		0.55	0.19	mg/Kg	☼	11/14/22 17:22	11/17/22 22:37	1
Barium	100		0.55	0.063	mg/Kg	☼	11/14/22 17:22	11/17/22 22:37	1
Beryllium	0.77		0.22	0.051	mg/Kg	☼	11/14/22 17:22	11/17/22 22:37	1
Boron	2.3	J	2.8	0.26	mg/Kg	☼	11/14/22 17:22	11/17/22 22:37	1
Cadmium	0.085	J	0.11	0.020	mg/Kg	☼	11/14/22 17:22	11/17/22 22:37	1
Calcium	3200	B	11	1.9	mg/Kg	☼	11/14/22 17:22	11/17/22 22:37	1
Chromium	16		0.55	0.27	mg/Kg	☼	11/14/22 17:22	11/17/22 22:37	1
Cobalt	12		0.28	0.072	mg/Kg	☼	11/14/22 17:22	11/17/22 22:37	1
Copper	14		0.55	0.15	mg/Kg	☼	11/14/22 17:22	11/17/22 22:37	1
Iron	19000	B	11	5.7	mg/Kg	☼	11/14/22 17:22	11/17/22 22:37	1
Lead	22		0.28	0.13	mg/Kg	☼	11/14/22 17:22	11/17/22 22:37	1
Magnesium	3700	B	5.5	2.7	mg/Kg	☼	11/14/22 17:22	11/17/22 22:37	1
Manganese	700	B	0.55	0.080	mg/Kg	☼	11/14/22 17:22	11/17/22 22:37	1
Nickel	19		0.55	0.16	mg/Kg	☼	11/14/22 17:22	11/17/22 22:37	1
Potassium	1000		28	9.8	mg/Kg	☼	11/14/22 17:22	11/17/22 22:37	1
Selenium	<0.55		0.55	0.32	mg/Kg	☼	11/14/22 17:22	11/17/22 22:37	1
Silver	0.32		0.28	0.071	mg/Kg	☼	11/14/22 17:22	11/17/22 22:37	1
Sodium	200		55	8.2	mg/Kg	☼	11/14/22 17:22	11/17/22 22:37	1
Thallium	<0.55		0.55	0.28	mg/Kg	☼	11/14/22 17:22	11/17/22 22:37	1
Vanadium	28		0.28	0.065	mg/Kg	☼	11/14/22 17:22	11/17/22 22:37	1
Zinc	59		1.1	0.48	mg/Kg	☼	11/14/22 17:22	11/17/22 22:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.61		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 22:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/22 19:01	11/16/22 22:47	1
Boron	1.0		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 22:47	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Client Sample ID: 1401V3-07-B07 (0-5)

Lab Sample ID: 500-225162-1

Date Collected: 11/09/22 12:45

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/22 19:01	11/16/22 22:47	1
Chromium	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:47	1
Cobalt	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:47	1
Iron	<0.40		0.40	0.20	mg/L		11/15/22 19:01	11/16/22 22:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/15/22 19:01	11/16/22 22:47	1
Manganese	0.037		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:47	1
Nickel	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:47	1
Selenium	0.020 J		0.050	0.020	mg/L		11/15/22 19:01	11/16/22 22:47	1
Silver	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:47	1
Zinc	0.063 J		0.50	0.020	mg/L		11/15/22 19:01	11/16/22 22:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/15/22 19:01	11/17/22 21:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/15/22 19:01	11/17/22 21:05	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/16/22 11:50	11/17/22 11:12	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.018	0.0060	mg/Kg	☼	11/18/22 13:10	11/21/22 08:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.8		0.2	0.2	SU			11/15/22 21:54	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Client Sample ID: 1401V3-07-B07 (5-9)

Lab Sample ID: 500-225162-2

Date Collected: 11/09/22 12:48

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0076	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
Benzene	<0.0017		0.0017	0.00045	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
Bromodichloromethane	<0.0017		0.0017	0.00036	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
Carbon tetrachloride	<0.0017		0.0017	0.00051	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
Chlorobenzene	<0.0017		0.0017	0.00065	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
Chloroform	<0.0017		0.0017	0.00061	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00053	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
Ethylbenzene	<0.0017		0.0017	0.00084	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
Tetrachloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	11/10/22 17:39	11/14/22 18:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	11/10/22 17:39	11/14/22 18:59	1
Dibromofluoromethane	91		75 - 126	11/10/22 17:39	11/14/22 18:59	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 134	11/10/22 17:39	11/14/22 18:59	1
Toluene-d8 (Surr)	84		75 - 124	11/10/22 17:39	11/14/22 18:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Client Sample ID: 1401V3-07-B07 (5-9)

Lab Sample ID: 500-225162-2

Date Collected: 11/09/22 12:48

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
2-Methylnaphthalene	<0.075		0.075	0.0069	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Client Sample ID: 1401V3-07-B07 (5-9)

Lab Sample ID: 500-225162-2

Date Collected: 11/09/22 12:48

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Indeno[1,2,3-cd]pyrene	<0.037	+	0.037	0.0097	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	11/17/22 08:34	11/22/22 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	81		31 - 166	11/17/22 08:34	11/22/22 13:23	1
Phenol-d5	72		30 - 153	11/17/22 08:34	11/22/22 13:23	1
Nitrobenzene-d5 (Surr)	78		37 - 147	11/17/22 08:34	11/22/22 13:23	1
2-Fluorobiphenyl (Surr)	73		43 - 145	11/17/22 08:34	11/22/22 13:23	1
2,4,6-Tribromophenol	54		31 - 143	11/17/22 08:34	11/22/22 13:23	1
Terphenyl-d14 (Surr)	97		42 - 157	11/17/22 08:34	11/22/22 13:23	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.36	J	1.1	0.21	mg/Kg	☼	11/14/22 17:22	11/17/22 22:40	1
Arsenic	13		0.55	0.19	mg/Kg	☼	11/14/22 17:22	11/17/22 22:40	1
Barium	30		0.55	0.063	mg/Kg	☼	11/14/22 17:22	11/17/22 22:40	1
Beryllium	0.61		0.22	0.051	mg/Kg	☼	11/14/22 17:22	11/17/22 22:40	1
Boron	6.6		2.8	0.26	mg/Kg	☼	11/14/22 17:22	11/17/22 22:40	1
Cadmium	0.26		0.11	0.020	mg/Kg	☼	11/14/22 17:22	11/17/22 22:40	1
Calcium	33000	B	11	1.9	mg/Kg	☼	11/14/22 17:22	11/17/22 22:40	1
Chromium	11		0.55	0.27	mg/Kg	☼	11/14/22 17:22	11/17/22 22:40	1
Cobalt	8.2		0.28	0.072	mg/Kg	☼	11/14/22 17:22	11/17/22 22:40	1
Copper	29		0.55	0.15	mg/Kg	☼	11/14/22 17:22	11/17/22 22:40	1
Iron	19000	B	11	5.7	mg/Kg	☼	11/14/22 17:22	11/17/22 22:40	1
Lead	15		0.28	0.13	mg/Kg	☼	11/14/22 17:22	11/17/22 22:40	1
Magnesium	22000	B	5.5	2.7	mg/Kg	☼	11/14/22 17:22	11/17/22 22:40	1
Manganese	330	B	0.55	0.080	mg/Kg	☼	11/14/22 17:22	11/17/22 22:40	1
Nickel	25		0.55	0.16	mg/Kg	☼	11/14/22 17:22	11/17/22 22:40	1
Potassium	1400		28	9.7	mg/Kg	☼	11/14/22 17:22	11/17/22 22:40	1
Selenium	<0.55		0.55	0.32	mg/Kg	☼	11/14/22 17:22	11/17/22 22:40	1
Silver	0.18	J	0.28	0.071	mg/Kg	☼	11/14/22 17:22	11/17/22 22:40	1
Sodium	320		55	8.1	mg/Kg	☼	11/14/22 17:22	11/17/22 22:40	1
Thallium	0.46	J	0.55	0.27	mg/Kg	☼	11/14/22 17:22	11/17/22 22:40	1
Vanadium	14		0.28	0.065	mg/Kg	☼	11/14/22 17:22	11/17/22 22:40	1
Zinc	95		1.1	0.48	mg/Kg	☼	11/14/22 17:22	11/17/22 22:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.55		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 22:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/22 19:01	11/16/22 22:50	1
Boron	1.2		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 22:50	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Client Sample ID: 1401V3-07-B07 (5-9)

Lab Sample ID: 500-225162-2

Date Collected: 11/09/22 12:48

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/22 19:01	11/16/22 22:50	1
Chromium	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:50	1
Cobalt	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:50	1
Iron	<0.40		0.40	0.20	mg/L		11/15/22 19:01	11/16/22 22:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/15/22 19:01	11/16/22 22:50	1
Manganese	0.84		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:50	1
Nickel	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:50	1
Selenium	<0.050		0.050	0.020	mg/L		11/15/22 19:01	11/16/22 22:50	1
Silver	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:50	1
Zinc	0.056	J	0.50	0.020	mg/L		11/15/22 19:01	11/16/22 22:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.51		0.025	0.010	mg/L		11/15/22 19:05	11/17/22 19:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/15/22 19:01	11/17/22 21:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/15/22 19:01	11/17/22 21:15	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/16/22 11:50	11/17/22 11:14	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.017	0.0058	mg/Kg	☆	11/18/22 13:10	11/21/22 08:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.5		0.2	0.2	SU			11/15/22 21:59	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Client Sample ID: 1401V3-07-B08 (0-2)

Lab Sample ID: 500-225162-3

Date Collected: 11/09/22 13:00

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022		0.022	0.0097	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
Benzene	<0.0022		0.0022	0.00057	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
Bromodichloromethane	<0.0022		0.0022	0.00045	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
Bromoform	<0.0022		0.0022	0.00065	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
Bromomethane	<0.0056		0.0056	0.0021	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
2-Butanone (MEK)	<0.0056		0.0056	0.0025	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
Carbon disulfide	<0.0056		0.0056	0.0012	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
Carbon tetrachloride	<0.0022		0.0022	0.00065	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
Chlorobenzene	<0.0022		0.0022	0.00082	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
Chloroethane	<0.0056		0.0056	0.0016	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
Chloroform	<0.0022		0.0022	0.00077	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
Chloromethane	<0.0056		0.0056	0.0022	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00062	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00067	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
Dibromochloromethane	<0.0022		0.0022	0.00073	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
1,1-Dichloroethane	<0.0022		0.0022	0.00076	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
1,2-Dichloroethane	<0.0056		0.0056	0.0017	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
1,1-Dichloroethene	<0.0022		0.0022	0.00077	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
1,2-Dichloropropane	<0.0022		0.0022	0.00058	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
1,3-Dichloropropane, Total	<0.0022		0.0022	0.00078	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
Ethylbenzene	<0.0022		0.0022	0.0011	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
2-Hexanone	<0.0056		0.0056	0.0017	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
Methylene Chloride	<0.0056		0.0056	0.0022	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
4-Methyl-2-pentanone (MIBK)	<0.0056		0.0056	0.0016	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00065	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
Styrene	<0.0022		0.0022	0.00067	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.00071	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
Tetrachloroethene	<0.0022		0.0022	0.00076	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
Toluene	<0.0022		0.0022	0.00056	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00099	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.00078	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
1,1,1-Trichloroethane	<0.0022		0.0022	0.00075	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00095	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
Trichloroethene	<0.0022		0.0022	0.00075	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
Vinyl acetate	<0.0056		0.0056	0.0019	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
Vinyl chloride	<0.0022		0.0022	0.00098	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1
Xylenes, Total	<0.0045		0.0045	0.00071	mg/Kg	☼	11/10/22 17:39	11/14/22 19:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	11/10/22 17:39	11/14/22 19:24	1
Dibromofluoromethane	89		75 - 126	11/10/22 17:39	11/14/22 19:24	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 134	11/10/22 17:39	11/14/22 19:24	1
Toluene-d8 (Surr)	84		75 - 124	11/10/22 17:39	11/14/22 19:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Client Sample ID: 1401V3-07-B08 (0-2)

Lab Sample ID: 500-225162-3

Date Collected: 11/09/22 13:00

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Client Sample ID: 1401V3-07-B08 (0-2)

Lab Sample ID: 500-225162-3

Date Collected: 11/09/22 13:00

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Indeno[1,2,3-cd]pyrene	<0.038	+	0.038	0.010	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	11/17/22 08:34	11/22/22 13:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	104		31 - 166	11/17/22 08:34	11/22/22 13:44	1
Phenol-d5	99		30 - 153	11/17/22 08:34	11/22/22 13:44	1
Nitrobenzene-d5 (Surr)	123		37 - 147	11/17/22 08:34	11/22/22 13:44	1
2-Fluorobiphenyl (Surr)	115		43 - 145	11/17/22 08:34	11/22/22 13:44	1
2,4,6-Tribromophenol	94		31 - 143	11/17/22 08:34	11/22/22 13:44	1
Terphenyl-d14 (Surr)	138		42 - 157	11/17/22 08:34	11/22/22 13:44	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.1	0.22	mg/Kg	☼	11/14/22 17:22	11/17/22 22:43	1
Arsenic	8.9		0.57	0.20	mg/Kg	☼	11/14/22 17:22	11/17/22 22:43	1
Barium	110		0.57	0.065	mg/Kg	☼	11/14/22 17:22	11/17/22 22:43	1
Beryllium	0.82		0.23	0.053	mg/Kg	☼	11/14/22 17:22	11/17/22 22:43	1
Boron	5.7		2.9	0.27	mg/Kg	☼	11/14/22 17:22	11/17/22 22:43	1
Cadmium	0.25		0.11	0.021	mg/Kg	☼	11/14/22 17:22	11/17/22 22:43	1
Calcium	8800	B	11	1.9	mg/Kg	☼	11/14/22 17:22	11/17/22 22:43	1
Chromium	16		0.57	0.28	mg/Kg	☼	11/14/22 17:22	11/17/22 22:43	1
Cobalt	12		0.29	0.075	mg/Kg	☼	11/14/22 17:22	11/17/22 22:43	1
Copper	21		0.57	0.16	mg/Kg	☼	11/14/22 17:22	11/17/22 22:43	1
Iron	19000	B	11	6.0	mg/Kg	☼	11/14/22 17:22	11/17/22 22:43	1
Lead	88		0.29	0.13	mg/Kg	☼	11/14/22 17:22	11/17/22 22:43	1
Magnesium	6300	B	5.7	2.8	mg/Kg	☼	11/14/22 17:22	11/17/22 22:43	1
Manganese	470	B	0.57	0.083	mg/Kg	☼	11/14/22 17:22	11/17/22 22:43	1
Nickel	26		0.57	0.17	mg/Kg	☼	11/14/22 17:22	11/17/22 22:43	1
Potassium	1700		29	10	mg/Kg	☼	11/14/22 17:22	11/17/22 22:43	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	11/14/22 17:22	11/17/22 22:43	1
Silver	0.28	J	0.29	0.074	mg/Kg	☼	11/14/22 17:22	11/17/22 22:43	1
Sodium	61		57	8.5	mg/Kg	☼	11/14/22 17:22	11/17/22 22:43	1
Thallium	0.38	J	0.57	0.29	mg/Kg	☼	11/14/22 17:22	11/17/22 22:43	1
Vanadium	22		0.29	0.068	mg/Kg	☼	11/14/22 17:22	11/17/22 22:43	1
Zinc	89		1.1	0.50	mg/Kg	☼	11/14/22 17:22	11/17/22 22:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.75		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 22:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/22 19:01	11/16/22 22:54	1
Boron	1.2		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 22:54	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Client Sample ID: 1401V3-07-B08 (0-2)

Lab Sample ID: 500-225162-3

Date Collected: 11/09/22 13:00

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/22 19:01	11/16/22 22:54	1
Chromium	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:54	1
Cobalt	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:54	1
Iron	<0.40		0.40	0.20	mg/L		11/15/22 19:01	11/16/22 22:54	1
Lead	0.0079		0.0075	0.0075	mg/L		11/15/22 19:01	11/16/22 22:54	1
Manganese	0.10		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:54	1
Nickel	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:54	1
Selenium	<0.050		0.050	0.020	mg/L		11/15/22 19:01	11/16/22 22:54	1
Silver	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 22:54	1
Zinc	0.086 J		0.50	0.020	mg/L		11/15/22 19:01	11/16/22 22:54	1

Method: SW846 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.053		0.0075	0.0075	mg/L		11/15/22 19:05	11/17/22 19:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/15/22 19:01	11/17/22 21:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/15/22 19:01	11/17/22 21:19	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/16/22 11:50	11/17/22 11:17	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.018	0.0059	mg/Kg	☆	11/18/22 13:10	11/21/22 08:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.5		0.2	0.2	SU			11/15/22 22:01	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

GC/MS VOA

Prep Batch: 684693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225162-1	1401V3-07-B07 (0-5)	Total/NA	Solid	5035	
500-225162-2	1401V3-07-B07 (5-9)	Total/NA	Solid	5035	
500-225162-3	1401V3-07-B08 (0-2)	Total/NA	Solid	5035	
500-225162-4	1401V3-07-B09 (0-5)	Total/NA	Solid	5035	
500-225162-5	1401V3-07-B09 (5-9)	Total/NA	Solid	5035	

Analysis Batch: 684733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225162-1	1401V3-07-B07 (0-5)	Total/NA	Solid	8260B	684693
500-225162-2	1401V3-07-B07 (5-9)	Total/NA	Solid	8260B	684693
500-225162-3	1401V3-07-B08 (0-2)	Total/NA	Solid	8260B	684693
500-225162-4	1401V3-07-B09 (0-5)	Total/NA	Solid	8260B	684693
500-225162-5	1401V3-07-B09 (5-9)	Total/NA	Solid	8260B	684693
MB 500-684733/8	Method Blank	Total/NA	Solid	8260B	
LCS 500-684733/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-684733/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 685501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225162-1	1401V3-07-B07 (0-5)	Total/NA	Solid	3541	
500-225162-2	1401V3-07-B07 (5-9)	Total/NA	Solid	3541	
500-225162-3	1401V3-07-B08 (0-2)	Total/NA	Solid	3541	
500-225162-4	1401V3-07-B09 (0-5)	Total/NA	Solid	3541	
500-225162-5	1401V3-07-B09 (5-9)	Total/NA	Solid	3541	
MB 500-685501/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-685501/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-225162-1 MS	1401V3-07-B07 (0-5)	Total/NA	Solid	3541	
500-225162-1 MSD	1401V3-07-B07 (0-5)	Total/NA	Solid	3541	

Analysis Batch: 686476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225162-1	1401V3-07-B07 (0-5)	Total/NA	Solid	8270D	685501
500-225162-2	1401V3-07-B07 (5-9)	Total/NA	Solid	8270D	685501
500-225162-3	1401V3-07-B08 (0-2)	Total/NA	Solid	8270D	685501
500-225162-4	1401V3-07-B09 (0-5)	Total/NA	Solid	8270D	685501
500-225162-5	1401V3-07-B09 (5-9)	Total/NA	Solid	8270D	685501
MB 500-685501/1-A	Method Blank	Total/NA	Solid	8270D	685501
LCS 500-685501/2-A	Lab Control Sample	Total/NA	Solid	8270D	685501
500-225162-1 MS	1401V3-07-B07 (0-5)	Total/NA	Solid	8270D	685501
500-225162-1 MSD	1401V3-07-B07 (0-5)	Total/NA	Solid	8270D	685501

Metals

Leach Batch: 684867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225162-1	1401V3-07-B07 (0-5)	TCLP	Solid	1311	
500-225162-2	1401V3-07-B07 (5-9)	TCLP	Solid	1311	
500-225162-3	1401V3-07-B08 (0-2)	TCLP	Solid	1311	
500-225162-4	1401V3-07-B09 (0-5)	TCLP	Solid	1311	
500-225162-5	1401V3-07-B09 (5-9)	TCLP	Solid	1311	

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QC Association Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Metals (Continued)

Leach Batch: 684867 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-684867/1-B	Method Blank	TCLP	Solid	1311	
LB 500-684867/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 684882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225162-2	1401V3-07-B07 (5-9)	SPLP East	Solid	1312	
500-225162-3	1401V3-07-B08 (0-2)	SPLP East	Solid	1312	
500-225162-5	1401V3-07-B09 (5-9)	SPLP East	Solid	1312	
LB 500-684882/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 684902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225162-1	1401V3-07-B07 (0-5)	Total/NA	Solid	3050B	
500-225162-2	1401V3-07-B07 (5-9)	Total/NA	Solid	3050B	
500-225162-3	1401V3-07-B08 (0-2)	Total/NA	Solid	3050B	
MB 500-684902/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-684902/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 685008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225162-4	1401V3-07-B09 (0-5)	Total/NA	Solid	3050B	
500-225162-5	1401V3-07-B09 (5-9)	Total/NA	Solid	3050B	
MB 500-685008/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-685008/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-225162-4 MS	1401V3-07-B09 (0-5)	Total/NA	Solid	3050B	
500-225162-4 MSD	1401V3-07-B09 (0-5)	Total/NA	Solid	3050B	
500-225162-4 DU	1401V3-07-B09 (0-5)	Total/NA	Solid	3050B	

Prep Batch: 685167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225162-1	1401V3-07-B07 (0-5)	TCLP	Solid	3010A	684867
500-225162-2	1401V3-07-B07 (5-9)	TCLP	Solid	3010A	684867
500-225162-3	1401V3-07-B08 (0-2)	TCLP	Solid	3010A	684867
500-225162-4	1401V3-07-B09 (0-5)	TCLP	Solid	3010A	684867
500-225162-5	1401V3-07-B09 (5-9)	TCLP	Solid	3010A	684867
LB 500-684867/1-B	Method Blank	TCLP	Solid	3010A	684867
LCS 500-685167/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 685169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225162-2	1401V3-07-B07 (5-9)	SPLP East	Solid	3010A	684882
500-225162-3	1401V3-07-B08 (0-2)	SPLP East	Solid	3010A	684882
500-225162-5	1401V3-07-B09 (5-9)	SPLP East	Solid	3010A	684882
LB 500-684882/1-B	Method Blank	SPLP East	Solid	3010A	684882
LCS 500-685169/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 685346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225162-1	1401V3-07-B07 (0-5)	TCLP	Solid	7470A	684867
500-225162-2	1401V3-07-B07 (5-9)	TCLP	Solid	7470A	684867
500-225162-3	1401V3-07-B08 (0-2)	TCLP	Solid	7470A	684867

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Metals (Continued)

Prep Batch: 685346 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225162-4	1401V3-07-B09 (0-5)	TCLP	Solid	7470A	684867
500-225162-5	1401V3-07-B09 (5-9)	TCLP	Solid	7470A	684867
LB 500-684867/1-C	Method Blank	TCLP	Solid	7470A	684867
MB 500-685346/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-685346/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 685532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225162-1	1401V3-07-B07 (0-5)	TCLP	Solid	6010B	685167
500-225162-2	1401V3-07-B07 (5-9)	TCLP	Solid	6010B	685167
500-225162-3	1401V3-07-B08 (0-2)	TCLP	Solid	6010B	685167
500-225162-4	1401V3-07-B09 (0-5)	TCLP	Solid	6010B	685167
500-225162-5	1401V3-07-B09 (5-9)	TCLP	Solid	6010B	685167
LB 500-684867/1-B	Method Blank	TCLP	Solid	6010B	685167
LCS 500-685167/2-A	Lab Control Sample	Total/NA	Solid	6010B	685167

Analysis Batch: 685588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225162-1	1401V3-07-B07 (0-5)	TCLP	Solid	7470A	685346
500-225162-2	1401V3-07-B07 (5-9)	TCLP	Solid	7470A	685346
500-225162-3	1401V3-07-B08 (0-2)	TCLP	Solid	7470A	685346
500-225162-4	1401V3-07-B09 (0-5)	TCLP	Solid	7470A	685346
500-225162-5	1401V3-07-B09 (5-9)	TCLP	Solid	7470A	685346
LB 500-684867/1-C	Method Blank	TCLP	Solid	7470A	685346
MB 500-685346/12-A	Method Blank	Total/NA	Solid	7470A	685346
LCS 500-685346/14-A	Lab Control Sample	Total/NA	Solid	7470A	685346

Prep Batch: 685768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225162-1	1401V3-07-B07 (0-5)	Total/NA	Solid	7471B	
500-225162-2	1401V3-07-B07 (5-9)	Total/NA	Solid	7471B	
500-225162-3	1401V3-07-B08 (0-2)	Total/NA	Solid	7471B	
500-225162-4	1401V3-07-B09 (0-5)	Total/NA	Solid	7471B	
500-225162-5	1401V3-07-B09 (5-9)	Total/NA	Solid	7471B	
MB 500-685768/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-685768/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-225162-1 MS	1401V3-07-B07 (0-5)	Total/NA	Solid	7471B	
500-225162-1 MSD	1401V3-07-B07 (0-5)	Total/NA	Solid	7471B	
500-225162-1 DU	1401V3-07-B07 (0-5)	Total/NA	Solid	7471B	

Analysis Batch: 685798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225162-4	1401V3-07-B09 (0-5)	Total/NA	Solid	6010B	685008
500-225162-5	1401V3-07-B09 (5-9)	Total/NA	Solid	6010B	685008
MB 500-685008/1-A	Method Blank	Total/NA	Solid	6010B	685008
LCS 500-685008/2-A	Lab Control Sample	Total/NA	Solid	6010B	685008
500-225162-4 MS	1401V3-07-B09 (0-5)	Total/NA	Solid	6010B	685008
500-225162-4 MSD	1401V3-07-B09 (0-5)	Total/NA	Solid	6010B	685008
500-225162-4 DU	1401V3-07-B09 (0-5)	Total/NA	Solid	6010B	685008

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Metals

Analysis Batch: 685803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225162-1	1401V3-07-B07 (0-5)	Total/NA	Solid	6010B	684902
500-225162-2	1401V3-07-B07 (5-9)	SPLP East	Solid	6010B	685169
500-225162-2	1401V3-07-B07 (5-9)	Total/NA	Solid	6010B	684902
500-225162-3	1401V3-07-B08 (0-2)	SPLP East	Solid	6010B	685169
500-225162-3	1401V3-07-B08 (0-2)	Total/NA	Solid	6010B	684902
500-225162-5	1401V3-07-B09 (5-9)	SPLP East	Solid	6010B	685169
LB 500-684882/1-B	Method Blank	SPLP East	Solid	6010B	685169
MB 500-684902/1-A	Method Blank	Total/NA	Solid	6010B	684902
LCS 500-684902/2-A	Lab Control Sample	Total/NA	Solid	6010B	684902
LCS 500-685169/2-A	Lab Control Sample	Total/NA	Solid	6010B	685169

Analysis Batch: 685882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225162-1	1401V3-07-B07 (0-5)	TCLP	Solid	6020A	685167
500-225162-2	1401V3-07-B07 (5-9)	TCLP	Solid	6020A	685167
500-225162-3	1401V3-07-B08 (0-2)	TCLP	Solid	6020A	685167
500-225162-4	1401V3-07-B09 (0-5)	TCLP	Solid	6020A	685167
500-225162-5	1401V3-07-B09 (5-9)	TCLP	Solid	6020A	685167
LB 500-684867/1-B	Method Blank	TCLP	Solid	6020A	685167
LCS 500-685167/2-A	Lab Control Sample	Total/NA	Solid	6020A	685167

Analysis Batch: 686262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225162-5	1401V3-07-B09 (5-9)	Total/NA	Solid	6010B	685008

Analysis Batch: 686326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225162-1	1401V3-07-B07 (0-5)	Total/NA	Solid	7471B	685768
500-225162-2	1401V3-07-B07 (5-9)	Total/NA	Solid	7471B	685768
500-225162-3	1401V3-07-B08 (0-2)	Total/NA	Solid	7471B	685768
500-225162-4	1401V3-07-B09 (0-5)	Total/NA	Solid	7471B	685768
500-225162-5	1401V3-07-B09 (5-9)	Total/NA	Solid	7471B	685768
MB 500-685768/12-A	Method Blank	Total/NA	Solid	7471B	685768
LCS 500-685768/13-A	Lab Control Sample	Total/NA	Solid	7471B	685768
500-225162-1 MS	1401V3-07-B07 (0-5)	Total/NA	Solid	7471B	685768
500-225162-1 MSD	1401V3-07-B07 (0-5)	Total/NA	Solid	7471B	685768
500-225162-1 DU	1401V3-07-B07 (0-5)	Total/NA	Solid	7471B	685768

General Chemistry

Analysis Batch: 685030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225162-1	1401V3-07-B07 (0-5)	Total/NA	Solid	Moisture	
500-225162-2	1401V3-07-B07 (5-9)	Total/NA	Solid	Moisture	
500-225162-3	1401V3-07-B08 (0-2)	Total/NA	Solid	Moisture	
500-225162-4	1401V3-07-B09 (0-5)	Total/NA	Solid	Moisture	
500-225162-5	1401V3-07-B09 (5-9)	Total/NA	Solid	Moisture	

Analysis Batch: 685174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225162-1	1401V3-07-B07 (0-5)	Total/NA	Solid	9045D	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

General Chemistry (Continued)

Analysis Batch: 685174 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225162-2	1401V3-07-B07 (5-9)	Total/NA	Solid	9045D	
500-225162-3	1401V3-07-B08 (0-2)	Total/NA	Solid	9045D	
500-225162-4	1401V3-07-B09 (0-5)	Total/NA	Solid	9045D	
500-225162-5	1401V3-07-B09 (5-9)	Total/NA	Solid	9045D	
LCS 500-685174/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-685174/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-225162-1 DU	1401V3-07-B07 (0-5)	Total/NA	Solid	9045D	

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

Surrogate Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(75-131)	(75-126)	(70-134)	(75-124)
500-225162-1	1401V3-07-B07 (0-5)	90	89	87	83
500-225162-2	1401V3-07-B07 (5-9)	92	91	86	84
500-225162-3	1401V3-07-B08 (0-2)	92	89	86	84
500-225162-4	1401V3-07-B09 (0-5)	92	91	86	82
500-225162-5	1401V3-07-B09 (5-9)	94	90	87	82
LCS 500-684733/5	Lab Control Sample	90	86	85	87
LCSD 500-684733/6	Lab Control Sample Dup	89	86	81	86
MB 500-684733/8	Method Blank	91	88	82	84

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP	PHL	NBZ	FBP	TBP	TPHL
		(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-225162-1	1401V3-07-B07 (0-5)	97	91	102	97	86	122
500-225162-1 MS	1401V3-07-B07 (0-5)	113	112	116	114	122	136
500-225162-1 MSD	1401V3-07-B07 (0-5)	110	106	112	106	113	127
500-225162-2	1401V3-07-B07 (5-9)	81	72	78	73	54	97
500-225162-3	1401V3-07-B08 (0-2)	104	99	123	115	94	138
500-225162-4	1401V3-07-B09 (0-5)	98	95	101	89	86	120
500-225162-5	1401V3-07-B09 (5-9)	105	103	112	106	71	134
LCS 500-685501/2-A	Lab Control Sample	106	101	103	103	105	124
MB 500-685501/1-A	Method Blank	98	96	92	90	75	112

Surrogate Legend

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

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

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

Lab Sample ID: MB 500-684733/8
Matrix: Solid
Analysis Batch: 684733

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			11/14/22 11:50	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			11/14/22 11:50	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			11/14/22 11:50	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			11/14/22 11:50	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			11/14/22 11:50	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			11/14/22 11:50	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			11/14/22 11:50	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			11/14/22 11:50	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			11/14/22 11:50	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			11/14/22 11:50	1
Chloroform	0.00106	J	0.0020	0.00069	mg/Kg			11/14/22 11:50	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			11/14/22 11:50	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			11/14/22 11:50	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			11/14/22 11:50	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			11/14/22 11:50	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			11/14/22 11:50	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			11/14/22 11:50	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			11/14/22 11:50	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			11/14/22 11:50	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			11/14/22 11:50	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			11/14/22 11:50	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			11/14/22 11:50	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			11/14/22 11:50	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			11/14/22 11:50	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			11/14/22 11:50	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			11/14/22 11:50	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			11/14/22 11:50	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/14/22 11:50	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			11/14/22 11:50	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			11/14/22 11:50	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			11/14/22 11:50	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			11/14/22 11:50	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			11/14/22 11:50	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/14/22 11:50	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			11/14/22 11:50	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			11/14/22 11:50	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			11/14/22 11:50	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	91		75 - 131		11/14/22 11:50	1
Dibromofluoromethane	88		75 - 126		11/14/22 11:50	1
1,2-Dichloroethane-d4 (Surr)	82		70 - 134		11/14/22 11:50	1
Toluene-d8 (Surr)	84		75 - 124		11/14/22 11:50	1

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

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

Lab Sample ID: LCS 500-684733/5
Matrix: Solid
Analysis Batch: 684733

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0500	0.0512		mg/Kg		102	40 - 150
Benzene	0.0500	0.0498		mg/Kg		100	70 - 125
Bromodichloromethane	0.0500	0.0529		mg/Kg		106	67 - 129
Bromoform	0.0500	0.0532		mg/Kg		106	68 - 136
Bromomethane	0.0500	0.0544		mg/Kg		109	70 - 130
2-Butanone (MEK)	0.0500	0.0556		mg/Kg		111	47 - 138
Carbon disulfide	0.0500	0.0442		mg/Kg		88	70 - 129
Carbon tetrachloride	0.0500	0.0567		mg/Kg		113	75 - 125
Chlorobenzene	0.0500	0.0519		mg/Kg		104	50 - 150
Chloroethane	0.0500	0.0517		mg/Kg		103	75 - 125
Chloroform	0.0500	0.0533		mg/Kg		107	57 - 135
Chloromethane	0.0500	0.0471		mg/Kg		94	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0528		mg/Kg		106	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0475		mg/Kg		95	70 - 125
Dibromochloromethane	0.0500	0.0546		mg/Kg		109	69 - 125
1,1-Dichloroethane	0.0500	0.0501		mg/Kg		100	70 - 125
1,2-Dichloroethane	0.0500	0.0537		mg/Kg		107	70 - 130
1,1-Dichloroethene	0.0500	0.0486		mg/Kg		97	70 - 120
1,2-Dichloropropane	0.0500	0.0493		mg/Kg		99	70 - 125
Ethylbenzene	0.0500	0.0519		mg/Kg		104	61 - 136
2-Hexanone	0.0500	0.0546		mg/Kg		109	48 - 146
Methylene Chloride	0.0500	0.0515		mg/Kg		103	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0518		mg/Kg		104	50 - 148
Methyl tert-butyl ether	0.0500	0.0505		mg/Kg		101	50 - 140
Styrene	0.0500	0.0512		mg/Kg		102	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0541		mg/Kg		108	70 - 122
Tetrachloroethene	0.0500	0.0521		mg/Kg		104	70 - 124
Toluene	0.0500	0.0492		mg/Kg		98	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0528		mg/Kg		106	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0497		mg/Kg		99	70 - 125
1,1,1-Trichloroethane	0.0500	0.0547		mg/Kg		109	70 - 128
1,1,2-Trichloroethane	0.0500	0.0517		mg/Kg		103	70 - 125
Trichloroethene	0.0500	0.0534		mg/Kg		107	70 - 125
Vinyl acetate	0.0500	0.0424		mg/Kg		85	40 - 153
Vinyl chloride	0.0500	0.0447		mg/Kg		89	70 - 125
Xylenes, Total	0.100	0.101		mg/Kg		101	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	90		75 - 131
Dibromofluoromethane	86		75 - 126
1,2-Dichloroethane-d4 (Surr)	85		70 - 134
Toluene-d8 (Surr)	87		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

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

Lab Sample ID: LCSD 500-684733/6
Matrix: Solid
Analysis Batch: 684733

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.0500	0.0421		mg/Kg		84	40 - 150	20	30
Benzene	0.0500	0.0535		mg/Kg		107	70 - 125	7	30
Bromodichloromethane	0.0500	0.0567		mg/Kg		113	67 - 129	7	30
Bromoform	0.0500	0.0520		mg/Kg		104	68 - 136	2	30
Bromomethane	0.0500	0.0540		mg/Kg		108	70 - 130	1	30
2-Butanone (MEK)	0.0500	0.0470		mg/Kg		94	47 - 138	17	30
Carbon disulfide	0.0500	0.0480		mg/Kg		96	70 - 129	8	30
Carbon tetrachloride	0.0500	0.0606		mg/Kg		121	75 - 125	7	30
Chlorobenzene	0.0500	0.0550		mg/Kg		110	50 - 150	6	30
Chloroethane	0.0500	0.0532		mg/Kg		106	75 - 125	3	30
Chloroform	0.0500	0.0585		mg/Kg		117	57 - 135	9	30
Chloromethane	0.0500	0.0487		mg/Kg		97	70 - 125	3	30
cis-1,2-Dichloroethene	0.0500	0.0572		mg/Kg		114	70 - 125	8	30
cis-1,3-Dichloropropene	0.0500	0.0508		mg/Kg		102	70 - 125	7	30
Dibromochloromethane	0.0500	0.0544		mg/Kg		109	69 - 125	0	30
1,1-Dichloroethane	0.0500	0.0547		mg/Kg		109	70 - 125	9	30
1,2-Dichloroethane	0.0500	0.0545		mg/Kg		109	70 - 130	1	30
1,1-Dichloroethene	0.0500	0.0543		mg/Kg		109	70 - 120	11	30
1,2-Dichloropropane	0.0500	0.0522		mg/Kg		104	70 - 125	6	30
Ethylbenzene	0.0500	0.0554		mg/Kg		111	61 - 136	7	30
2-Hexanone	0.0500	0.0461		mg/Kg		92	48 - 146	17	30
Methylene Chloride	0.0500	0.0544		mg/Kg		109	70 - 126	5	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0442		mg/Kg		88	50 - 148	16	30
Methyl tert-butyl ether	0.0500	0.0485		mg/Kg		97	50 - 140	4	30
Styrene	0.0500	0.0546		mg/Kg		109	70 - 125	6	30
1,1,2,2-Tetrachloroethane	0.0500	0.0516		mg/Kg		103	70 - 122	5	30
Tetrachloroethene	0.0500	0.0561		mg/Kg		112	70 - 124	7	30
Toluene	0.0500	0.0529		mg/Kg		106	70 - 125	7	30
trans-1,2-Dichloroethene	0.0500	0.0575		mg/Kg		115	70 - 125	9	30
trans-1,3-Dichloropropene	0.0500	0.0502		mg/Kg		100	70 - 125	1	30
1,1,1-Trichloroethane	0.0500	0.0585		mg/Kg		117	70 - 128	7	30
1,1,2-Trichloroethane	0.0500	0.0530		mg/Kg		106	70 - 125	2	30
Trichloroethene	0.0500	0.0585		mg/Kg		117	70 - 125	9	30
Vinyl acetate	0.0500	0.0449		mg/Kg		90	40 - 153	6	30
Vinyl chloride	0.0500	0.0466		mg/Kg		93	70 - 125	4	30
Xylenes, Total	0.100	0.109		mg/Kg		109	53 - 147	8	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	89		75 - 131
Dibromofluoromethane	86		75 - 126
1,2-Dichloroethane-d4 (Surr)	81		70 - 134
Toluene-d8 (Surr)	86		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

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

Lab Sample ID: MB 500-685501/1-A
Matrix: Solid
Analysis Batch: 686476

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685501

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Isophorone	<0.17		0.17	0.037	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Carbazole	<0.17		0.17	0.083	mg/Kg		11/17/22 08:34	11/22/22 11:36	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

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

Lab Sample ID: MB 500-685501/1-A
Matrix: Solid
Analysis Batch: 686476

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685501

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		11/17/22 08:34	11/22/22 11:36	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		11/17/22 08:34	11/22/22 11:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	98		31 - 166	11/17/22 08:34	11/22/22 11:36	1
Phenol-d5	96		30 - 153	11/17/22 08:34	11/22/22 11:36	1
Nitrobenzene-d5 (Surr)	92		37 - 147	11/17/22 08:34	11/22/22 11:36	1
2-Fluorobiphenyl (Surr)	90		43 - 145	11/17/22 08:34	11/22/22 11:36	1
2,4,6-Tribromophenol	75		31 - 143	11/17/22 08:34	11/22/22 11:36	1
Terphenyl-d14 (Surr)	112		42 - 157	11/17/22 08:34	11/22/22 11:36	1

Lab Sample ID: LCS 500-685501/2-A
Matrix: Solid
Analysis Batch: 686476

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685501

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.32		mg/Kg		99	56 - 122
Bis(2-chloroethyl)ether	1.33	1.35		mg/Kg		101	55 - 111
1,3-Dichlorobenzene	1.33	1.30		mg/Kg		97	65 - 124
1,4-Dichlorobenzene	1.33	1.31		mg/Kg		98	61 - 110
1,2-Dichlorobenzene	1.33	1.33		mg/Kg		100	62 - 110
2-Methylphenol	1.33	1.57		mg/Kg		118	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.43		mg/Kg		107	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.35		mg/Kg		101	56 - 118
Hexachloroethane	1.33	1.27		mg/Kg		96	60 - 114
2-Chlorophenol	1.33	1.45		mg/Kg		109	64 - 110
Nitrobenzene	1.33	1.44		mg/Kg		108	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.42		mg/Kg		107	60 - 112
1,2,4-Trichlorobenzene	1.33	1.37		mg/Kg		103	66 - 117
Isophorone	1.33	1.35		mg/Kg		101	55 - 110
2,4-Dimethylphenol	1.33	1.42		mg/Kg		107	60 - 110
Hexachlorobutadiene	1.33	1.31		mg/Kg		98	56 - 120
Naphthalene	1.33	1.36		mg/Kg		102	63 - 110
2,4-Dichlorophenol	1.33	1.39		mg/Kg		104	58 - 120

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

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

Lab Sample ID: LCS 500-685501/2-A
Matrix: Solid
Analysis Batch: 686476

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685501

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloroaniline	1.33	0.940		mg/Kg		71	30 - 150
2,4,6-Trichlorophenol	1.33	1.47		mg/Kg		111	57 - 120
2,4,5-Trichlorophenol	1.33	1.45		mg/Kg		109	50 - 120
Hexachlorocyclopentadiene	1.33	1.24		mg/Kg		93	10 - 133
2-Methylnaphthalene	1.33	1.35		mg/Kg		101	69 - 112
2-Nitroaniline	1.33	1.53		mg/Kg		115	57 - 124
2-Chloronaphthalene	1.33	1.34		mg/Kg		101	69 - 114
4-Chloro-3-methylphenol	1.33	1.54		mg/Kg		116	65 - 122
2,6-Dinitrotoluene	1.33	1.46		mg/Kg		109	70 - 123
2-Nitrophenol	1.33	1.51		mg/Kg		113	60 - 120
3-Nitroaniline	1.33	0.629		mg/Kg		47	40 - 122
Dimethyl phthalate	1.33	1.39		mg/Kg		104	69 - 116
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		19	10 - 100
Acenaphthylene	1.33	1.40		mg/Kg		105	68 - 120
2,4-Dinitrotoluene	1.33	1.52		mg/Kg		114	69 - 124
Acenaphthene	1.33	1.41		mg/Kg		106	65 - 124
Dibenzofuran	1.33	1.38		mg/Kg		104	66 - 115
4-Nitrophenol	2.67	3.05		mg/Kg		114	30 - 122
Fluorene	1.33	1.41		mg/Kg		106	62 - 120
4-Nitroaniline	1.33	1.26		mg/Kg		95	60 - 160
4-Bromophenyl phenyl ether	1.33	1.49		mg/Kg		112	68 - 118
Hexachlorobenzene	1.33	1.48		mg/Kg		111	63 - 124
Diethyl phthalate	1.33	1.40		mg/Kg		105	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.42		mg/Kg		107	62 - 119
Pentachlorophenol	2.67	2.49		mg/Kg		93	13 - 112
N-Nitrosodiphenylamine	1.33	1.45		mg/Kg		109	65 - 112
4,6-Dinitro-2-methylphenol	2.67	2.19		mg/Kg		82	10 - 110
Phenanthrene	1.33	1.49		mg/Kg		111	62 - 120
Anthracene	1.33	1.48		mg/Kg		111	70 - 114
Carbazole	1.33	1.58		mg/Kg		119	65 - 142
Di-n-butyl phthalate	1.33	1.52		mg/Kg		114	65 - 120
Fluoranthene	1.33	1.58		mg/Kg		118	62 - 120
Pyrene	1.33	1.58		mg/Kg		118	61 - 128
Butyl benzyl phthalate	1.33	1.54		mg/Kg		116	71 - 129
Benzo[a]anthracene	1.33	1.46		mg/Kg		110	67 - 122
Chrysene	1.33	1.44		mg/Kg		108	63 - 120
3,3'-Dichlorobenzidine	1.33	1.08		mg/Kg		81	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.58		mg/Kg		118	72 - 131
Di-n-octyl phthalate	1.33	1.62		mg/Kg		121	68 - 134
Benzo[b]fluoranthene	1.33	1.49		mg/Kg		112	69 - 129
Benzo[k]fluoranthene	1.33	1.50		mg/Kg		112	68 - 127
Benzo[a]pyrene	1.33	1.54		mg/Kg		115	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.76	*+	mg/Kg		132	68 - 130
Dibenz(a,h)anthracene	1.33	1.68		mg/Kg		126	64 - 131
Benzo[g,h,i]perylene	1.33	1.68		mg/Kg		126	72 - 131
3 & 4 Methylphenol	1.33	1.57		mg/Kg		118	57 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

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

Lab Sample ID: LCS 500-685501/2-A
Matrix: Solid
Analysis Batch: 686476

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685501

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	106		31 - 166
Phenol-d5	101		30 - 153
Nitrobenzene-d5 (Surr)	103		37 - 147
2-Fluorobiphenyl (Surr)	103		43 - 145
2,4,6-Tribromophenol	105		31 - 143
Terphenyl-d14 (Surr)	124		42 - 157

Lab Sample ID: 500-225162-1 MS
Matrix: Solid
Analysis Batch: 686476

Client Sample ID: 1401V3-07-B07 (0-5)
Prep Type: Total/NA
Prep Batch: 685501

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Phenol	<0.19		1.52	1.67		mg/Kg	☼	110	56 - 122
Bis(2-chloroethyl)ether	<0.19		1.52	1.63		mg/Kg	☼	108	55 - 111
1,3-Dichlorobenzene	<0.19		1.52	1.54		mg/Kg	☼	101	60 - 110
1,4-Dichlorobenzene	<0.19		1.52	1.56		mg/Kg	☼	102	61 - 110
1,2-Dichlorobenzene	<0.19		1.52	1.59		mg/Kg	☼	105	62 - 110
2-Methylphenol	<0.19	F1	1.52	2.05	F1	mg/Kg	☼	135	60 - 120
2,2'-oxybis[1-chloropropane]	<0.19		1.52	1.85		mg/Kg	☼	122	40 - 124
N-Nitrosodi-n-propylamine	<0.077		1.52	1.72		mg/Kg	☼	113	56 - 118
Hexachloroethane	<0.19		1.52	1.51		mg/Kg	☼	99	60 - 114
2-Chlorophenol	<0.19	F1	1.52	1.87	F1	mg/Kg	☼	123	64 - 110
Nitrobenzene	<0.038	F1	1.52	1.84	F1	mg/Kg	☼	121	60 - 116
Bis(2-chloroethoxy)methane	<0.19	F1	1.52	1.79	F1	mg/Kg	☼	118	60 - 112
1,2,4-Trichlorobenzene	<0.19		1.52	1.72		mg/Kg	☼	113	66 - 117
Isophorone	<0.19	F1	1.52	1.77	F1	mg/Kg	☼	116	55 - 110
2,4-Dimethylphenol	<0.38	F1	1.52	1.83	F1	mg/Kg	☼	120	60 - 110
Hexachlorobutadiene	<0.19		1.52	1.63		mg/Kg	☼	107	56 - 120
Naphthalene	<0.038	F1	1.52	1.72	F1	mg/Kg	☼	113	63 - 110
2,4-Dichlorophenol	<0.38		1.52	1.81		mg/Kg	☼	119	58 - 120
4-Chloroaniline	<0.77		1.52	1.47		mg/Kg	☼	97	30 - 150
2,4,6-Trichlorophenol	<0.38	F1	1.52	1.97	F1	mg/Kg	☼	130	57 - 120
2,4,5-Trichlorophenol	<0.38	F1	1.52	1.92	F1	mg/Kg	☼	126	50 - 120
Hexachlorocyclopentadiene	<0.77		1.52	1.48		mg/Kg	☼	98	10 - 133
2-Methylnaphthalene	<0.077	F1	1.52	1.74	F1	mg/Kg	☼	115	69 - 112
2-Nitroaniline	<0.19	F1	1.52	2.02	F1	mg/Kg	☼	133	57 - 124
2-Chloronaphthalene	<0.19		1.52	1.73		mg/Kg	☼	114	69 - 114
4-Chloro-3-methylphenol	<0.38	F1	1.52	2.02	F1	mg/Kg	☼	133	65 - 122
2,6-Dinitrotoluene	<0.19	F1	1.52	1.88	F1	mg/Kg	☼	124	70 - 123
2-Nitrophenol	<0.38	F1	1.52	1.93	F1	mg/Kg	☼	127	60 - 120
3-Nitroaniline	<0.38		1.52	1.29		mg/Kg	☼	85	40 - 122
Dimethyl phthalate	<0.19	F1	1.52	1.81	F1	mg/Kg	☼	119	69 - 116
2,4-Dinitrophenol	<0.77	F1	3.04	3.25	F1	mg/Kg	☼	107	10 - 100
Acenaphthylene	<0.038		1.52	1.81		mg/Kg	☼	119	68 - 120
2,4-Dinitrotoluene	<0.19	F1	1.52	1.96	F1	mg/Kg	☼	129	69 - 124
Acenaphthene	<0.038		1.52	1.84		mg/Kg	☼	121	65 - 124
Dibenzofuran	<0.19	F1	1.52	1.79	F1	mg/Kg	☼	118	66 - 115
4-Nitrophenol	<0.77	F1	3.04	4.19	F1	mg/Kg	☼	138	30 - 122

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

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

Lab Sample ID: 500-225162-1 MS
Matrix: Solid
Analysis Batch: 686476

Client Sample ID: 1401V3-07-B07 (0-5)
Prep Type: Total/NA
Prep Batch: 685501

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec	Limits
	Result	Qualifier		Result	Qualifier					
Fluorene	<0.038	F1	1.52	1.83	F1	mg/Kg	☼	121	62 - 120	
4-Nitroaniline	<0.38		1.52	1.68		mg/Kg	☼	110	60 - 160	
4-Bromophenyl phenyl ether	<0.19	F1	1.52	1.96	F1	mg/Kg	☼	129	68 - 118	
Hexachlorobenzene	<0.077	F1	1.52	1.92	F1	mg/Kg	☼	127	63 - 124	
Diethyl phthalate	<0.19		1.52	1.78		mg/Kg	☼	117	58 - 120	
4-Chlorophenyl phenyl ether	<0.19	F1	1.52	1.85	F1	mg/Kg	☼	122	62 - 119	
Pentachlorophenol	<0.77		3.04	2.32		mg/Kg	☼	76	13 - 112	
N-Nitrosodiphenylamine	<0.19	F1	1.52	1.82	F1	mg/Kg	☼	120	65 - 112	
4,6-Dinitro-2-methylphenol	<0.77	F1	3.04	4.12	F1	mg/Kg	☼	136	10 - 110	
Phenanthrene	<0.038	F1	1.52	1.94	F1	mg/Kg	☼	127	62 - 120	
Anthracene	<0.038	F1	1.52	1.92	F1	mg/Kg	☼	126	70 - 114	
Carbazole	<0.19		1.52	2.02		mg/Kg	☼	133	65 - 142	
Di-n-butyl phthalate	<0.19	F1	1.52	1.93	F1	mg/Kg	☼	127	65 - 120	
Fluoranthene	<0.038	F1	1.52	2.02	F1	mg/Kg	☼	133	62 - 120	
Pyrene	<0.038	F1	1.52	2.01	F1	mg/Kg	☼	132	61 - 128	
Butyl benzyl phthalate	<0.19		1.52	1.96		mg/Kg	☼	129	71 - 129	
Benzo[a]anthracene	<0.038	F1	1.52	1.86	F1	mg/Kg	☼	123	67 - 122	
Chrysene	<0.038		1.52	1.82		mg/Kg	☼	120	63 - 120	
3,3'-Dichlorobenzidine	<0.19		1.52	1.16		mg/Kg	☼	76	35 - 128	
Bis(2-ethylhexyl) phthalate	<0.19		1.52	1.99		mg/Kg	☼	131	72 - 131	
Di-n-octyl phthalate	<0.19		1.52	2.04		mg/Kg	☼	134	68 - 134	
Benzo[b]fluoranthene	<0.038	F1	1.52	1.98	F1	mg/Kg	☼	130	69 - 129	
Benzo[k]fluoranthene	<0.038		1.52	1.81		mg/Kg	☼	119	68 - 127	
Benzo[a]pyrene	<0.038		1.52	1.95		mg/Kg	☼	128	65 - 133	
Indeno[1,2,3-cd]pyrene	<0.038	F1 *+	1.52	2.14	F1	mg/Kg	☼	141	68 - 130	
Dibenz(a,h)anthracene	<0.038	F1	1.52	2.05	F1	mg/Kg	☼	135	64 - 131	
Benzo[g,h,i]perylene	<0.038		1.52	1.89		mg/Kg	☼	124	72 - 131	
3 & 4 Methylphenol	<0.19	F1	1.52	2.00	F1	mg/Kg	☼	132	57 - 120	

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	113		31 - 166
Phenol-d5	112		30 - 153
Nitrobenzene-d5 (Surr)	116		37 - 147
2-Fluorobiphenyl (Surr)	114		43 - 145
2,4,6-Tribromophenol	122		31 - 143
Terphenyl-d14 (Surr)	136		42 - 157

Lab Sample ID: 500-225162-1 MSD
Matrix: Solid
Analysis Batch: 686476

Client Sample ID: 1401V3-07-B07 (0-5)
Prep Type: Total/NA
Prep Batch: 685501

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Phenol	<0.19		1.51	1.57		mg/Kg	☼	104	56 - 122	6	30
Bis(2-chloroethyl)ether	<0.19		1.51	1.57		mg/Kg	☼	104	55 - 111	4	30
1,3-Dichlorobenzene	<0.19		1.51	1.51		mg/Kg	☼	100	60 - 110	2	30
1,4-Dichlorobenzene	<0.19		1.51	1.51		mg/Kg	☼	100	61 - 110	3	30
1,2-Dichlorobenzene	<0.19		1.51	1.56		mg/Kg	☼	103	62 - 110	2	30
2-Methylphenol	<0.19	F1	1.51	1.88	F1	mg/Kg	☼	124	60 - 120	9	30

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

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

Lab Sample ID: 500-225162-1 MSD

Matrix: Solid

Analysis Batch: 686476

Client Sample ID: 1401V3-07-B07 (0-5)

Prep Type: Total/NA

Prep Batch: 685501

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
2,2'-oxybis[1-chloropropane]	<0.19		1.51	1.78		mg/Kg	☼	117	40 - 124	4	30
N-Nitrosodi-n-propylamine	<0.077		1.51	1.60		mg/Kg	☼	106	56 - 118	7	30
Hexachloroethane	<0.19		1.51	1.42		mg/Kg	☼	94	60 - 114	6	30
2-Chlorophenol	<0.19	F1	1.51	1.77	F1	mg/Kg	☼	117	64 - 110	5	30
Nitrobenzene	<0.038	F1	1.51	1.72		mg/Kg	☼	114	60 - 116	6	30
Bis(2-chloroethoxy)methane	<0.19	F1	1.51	1.74	F1	mg/Kg	☼	115	60 - 112	3	30
1,2,4-Trichlorobenzene	<0.19		1.51	1.67		mg/Kg	☼	110	66 - 117	2	30
Isophorone	<0.19	F1	1.51	1.65		mg/Kg	☼	109	55 - 110	7	30
2,4-Dimethylphenol	<0.38	F1	1.51	1.75	F1	mg/Kg	☼	116	60 - 110	4	30
Hexachlorobutadiene	<0.19		1.51	1.58		mg/Kg	☼	104	56 - 120	3	30
Naphthalene	<0.038	F1	1.51	1.67		mg/Kg	☼	110	63 - 110	3	30
2,4-Dichlorophenol	<0.38		1.51	1.74		mg/Kg	☼	115	58 - 120	4	30
4-Chloroaniline	<0.77		1.51	1.35		mg/Kg	☼	89	30 - 150	9	30
2,4,6-Trichlorophenol	<0.38	F1	1.51	1.84	F1	mg/Kg	☼	122	57 - 120	7	30
2,4,5-Trichlorophenol	<0.38	F1	1.51	1.77		mg/Kg	☼	117	50 - 120	8	30
Hexachlorocyclopentadiene	<0.77		1.51	1.45		mg/Kg	☼	96	10 - 133	2	30
2-Methylnaphthalene	<0.077	F1	1.51	1.67		mg/Kg	☼	111	69 - 112	4	30
2-Nitroaniline	<0.19	F1	1.51	1.93	F1	mg/Kg	☼	128	57 - 124	5	30
2-Chloronaphthalene	<0.19		1.51	1.60		mg/Kg	☼	106	69 - 114	8	30
4-Chloro-3-methylphenol	<0.38	F1	1.51	1.90	F1	mg/Kg	☼	125	65 - 122	6	30
2,6-Dinitrotoluene	<0.19	F1	1.51	1.74		mg/Kg	☼	115	70 - 123	8	30
2-Nitrophenol	<0.38	F1	1.51	1.88	F1	mg/Kg	☼	124	60 - 120	3	30
3-Nitroaniline	<0.38		1.51	1.32		mg/Kg	☼	87	40 - 122	3	30
Dimethyl phthalate	<0.19	F1	1.51	1.68		mg/Kg	☼	111	69 - 116	7	30
2,4-Dinitrophenol	<0.77	F1	3.03	3.28	F1	mg/Kg	☼	108	10 - 100	1	30
Acenaphthylene	<0.038		1.51	1.68		mg/Kg	☼	111	68 - 120	8	30
2,4-Dinitrotoluene	<0.19	F1	1.51	1.81		mg/Kg	☼	119	69 - 124	8	30
Acenaphthene	<0.038		1.51	1.71		mg/Kg	☼	113	65 - 124	8	30
Dibenzofuran	<0.19	F1	1.51	1.69		mg/Kg	☼	112	66 - 115	6	30
4-Nitrophenol	<0.77	F1	3.03	3.95	F1	mg/Kg	☼	131	30 - 122	6	30
Fluorene	<0.038	F1	1.51	1.71		mg/Kg	☼	113	62 - 120	7	30
4-Nitroaniline	<0.38		1.51	1.61		mg/Kg	☼	106	60 - 160	4	30
4-Bromophenyl phenyl ether	<0.19	F1	1.51	1.82	F1	mg/Kg	☼	120	68 - 118	7	30
Hexachlorobenzene	<0.077	F1	1.51	1.80		mg/Kg	☼	119	63 - 124	6	30
Diethyl phthalate	<0.19		1.51	1.62		mg/Kg	☼	107	58 - 120	9	30
4-Chlorophenyl phenyl ether	<0.19	F1	1.51	1.75		mg/Kg	☼	116	62 - 119	6	30
Pentachlorophenol	<0.77		3.03	2.46		mg/Kg	☼	81	13 - 112	6	30
N-Nitrosodiphenylamine	<0.19	F1	1.51	1.70		mg/Kg	☼	112	65 - 112	7	30
4,6-Dinitro-2-methylphenol	<0.77	F1	3.03	3.89	F1	mg/Kg	☼	128	10 - 110	6	30
Phenanthrene	<0.038	F1	1.51	1.79		mg/Kg	☼	118	62 - 120	8	30
Anthracene	<0.038	F1	1.51	1.76	F1	mg/Kg	☼	116	70 - 114	9	30
Carbazole	<0.19		1.51	1.90		mg/Kg	☼	126	65 - 142	6	30
Di-n-butyl phthalate	<0.19	F1	1.51	1.81		mg/Kg	☼	120	65 - 120	6	30
Fluoranthene	<0.038	F1	1.51	1.92	F1	mg/Kg	☼	127	62 - 120	5	30
Pyrene	<0.038	F1	1.51	1.90		mg/Kg	☼	125	61 - 128	6	30
Butyl benzyl phthalate	<0.19		1.51	1.85		mg/Kg	☼	122	71 - 129	6	30
Benzo[a]anthracene	<0.038	F1	1.51	1.77		mg/Kg	☼	117	67 - 122	5	30
Chrysene	<0.038		1.51	1.74		mg/Kg	☼	115	63 - 120	4	30
3,3'-Dichlorobenzidine	<0.19		1.51	1.14		mg/Kg	☼	75	35 - 128	2	30

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

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

Lab Sample ID: 500-225162-1 MSD

Client Sample ID: 1401V3-07-B07 (0-5)

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 686476

Prep Batch: 685501

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
Bis(2-ethylhexyl) phthalate	<0.19		1.51	1.88		mg/Kg	☼	124	72 - 131	5	30
Di-n-octyl phthalate	<0.19		1.51	1.92		mg/Kg	☼	127	68 - 134	6	30
Benzo[b]fluoranthene	<0.038	F1	1.51	1.84		mg/Kg	☼	122	69 - 129	7	30
Benzo[k]fluoranthene	<0.038		1.51	1.80		mg/Kg	☼	119	68 - 127	1	30
Benzo[a]pyrene	<0.038		1.51	1.85		mg/Kg	☼	122	65 - 133	6	30
Indeno[1,2,3-cd]pyrene	<0.038	F1 *+	1.51	1.97		mg/Kg	☼	130	68 - 130	8	30
Dibenz(a,h)anthracene	<0.038	F1	1.51	1.87		mg/Kg	☼	123	64 - 131	9	30
Benzo[g,h,i]perylene	<0.038		1.51	1.73		mg/Kg	☼	114	72 - 131	9	30
3 & 4 Methylphenol	<0.19	F1	1.51	1.90	F1	mg/Kg	☼	125	57 - 120	5	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorophenol	110		31 - 166
Phenol-d5	106		30 - 153
Nitrobenzene-d5 (Surr)	112		37 - 147
2-Fluorobiphenyl (Surr)	106		43 - 145
2,4,6-Tribromophenol	113		31 - 143
Terphenyl-d14 (Surr)	127		42 - 157

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-684902/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 685803

Prep Batch: 684902

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Arsenic	<1.0		1.0	0.34	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Barium	<1.0		1.0	0.11	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Beryllium	<0.40		0.40	0.093	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Boron	<5.0		5.0	0.47	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Cadmium	<0.20		0.20	0.036	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Calcium	18.4	J	20	3.4	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Chromium	<1.0		1.0	0.50	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Cobalt	<0.50		0.50	0.13	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Copper	<1.0		1.0	0.28	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Iron	13.7	J	20	10	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Lead	<0.50		0.50	0.23	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Magnesium	11.6		10	5.0	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Manganese	0.271	J	1.0	0.15	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Nickel	<1.0		1.0	0.29	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Potassium	<50		50	18	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Selenium	<1.0		1.0	0.59	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Silver	<0.50		0.50	0.13	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Sodium	<100		100	15	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Thallium	<1.0		1.0	0.50	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Vanadium	<0.50		0.50	0.12	mg/Kg		11/14/22 17:22	11/17/22 21:22	1
Zinc	<2.0		2.0	0.88	mg/Kg		11/14/22 17:22	11/17/22 21:22	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-684902/2-A
Matrix: Solid
Analysis Batch: 685803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684902

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	46.2		mg/Kg		92	80 - 120
Arsenic	10.0	9.13		mg/Kg		91	80 - 120
Barium	200	201		mg/Kg		101	80 - 120
Beryllium	5.00	4.63		mg/Kg		93	80 - 120
Boron	100	85.6		mg/Kg		86	80 - 120
Cadmium	5.00	4.63		mg/Kg		93	80 - 120
Calcium	1000	941		mg/Kg		94	80 - 120
Chromium	20.0	18.9		mg/Kg		94	80 - 120
Cobalt	50.0	48.5		mg/Kg		97	80 - 120
Copper	25.0	24.8		mg/Kg		99	80 - 120
Iron	100	111		mg/Kg		111	80 - 120
Lead	10.0	8.95		mg/Kg		89	80 - 120
Magnesium	1000	931		mg/Kg		93	80 - 120
Manganese	50.0	47.1		mg/Kg		94	80 - 120
Nickel	50.0	47.1		mg/Kg		94	80 - 120
Potassium	1000	971		mg/Kg		97	80 - 120
Selenium	10.0	8.51		mg/Kg		85	80 - 120
Silver	5.00	4.14		mg/Kg		83	80 - 120
Sodium	1000	981		mg/Kg		98	80 - 120
Thallium	10.0	8.74		mg/Kg		87	80 - 120
Vanadium	50.0	48.0		mg/Kg		96	80 - 120
Zinc	50.0	46.4		mg/Kg		93	80 - 120

Lab Sample ID: MB 500-685008/1-A
Matrix: Solid
Analysis Batch: 685798

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685008

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg		11/15/22 09:08	11/17/22 14:33	1
Arsenic	<1.0		1.0	0.34	mg/Kg		11/15/22 09:08	11/17/22 14:33	1
Barium	<1.0		1.0	0.11	mg/Kg		11/15/22 09:08	11/17/22 14:33	1
Beryllium	<0.40		0.40	0.093	mg/Kg		11/15/22 09:08	11/17/22 14:33	1
Boron	<5.0		5.0	0.47	mg/Kg		11/15/22 09:08	11/17/22 14:33	1
Cadmium	0.0483	J	0.20	0.036	mg/Kg		11/15/22 09:08	11/17/22 14:33	1
Calcium	<20		20	3.4	mg/Kg		11/15/22 09:08	11/17/22 14:33	1
Chromium	<1.0		1.0	0.50	mg/Kg		11/15/22 09:08	11/17/22 14:33	1
Cobalt	<0.50		0.50	0.13	mg/Kg		11/15/22 09:08	11/17/22 14:33	1
Copper	<1.0		1.0	0.28	mg/Kg		11/15/22 09:08	11/17/22 14:33	1
Iron	<20		20	10	mg/Kg		11/15/22 09:08	11/17/22 14:33	1
Lead	<0.50		0.50	0.23	mg/Kg		11/15/22 09:08	11/17/22 14:33	1
Magnesium	<10		10	5.0	mg/Kg		11/15/22 09:08	11/17/22 14:33	1
Manganese	<1.0		1.0	0.15	mg/Kg		11/15/22 09:08	11/17/22 14:33	1
Nickel	<1.0		1.0	0.29	mg/Kg		11/15/22 09:08	11/17/22 14:33	1
Potassium	<50		50	18	mg/Kg		11/15/22 09:08	11/17/22 14:33	1
Selenium	<1.0		1.0	0.59	mg/Kg		11/15/22 09:08	11/17/22 14:33	1
Silver	<0.50		0.50	0.13	mg/Kg		11/15/22 09:08	11/17/22 14:33	1
Sodium	<100		100	15	mg/Kg		11/15/22 09:08	11/17/22 14:33	1
Thallium	<1.0		1.0	0.50	mg/Kg		11/15/22 09:08	11/17/22 14:33	1
Vanadium	<0.50		0.50	0.12	mg/Kg		11/15/22 09:08	11/17/22 14:33	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 500-685008/1-A
Matrix: Solid
Analysis Batch: 685798

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685008

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	<2.0		2.0	0.88	mg/Kg		11/15/22 09:08	11/17/22 14:33	1

Lab Sample ID: LCS 500-685008/2-A
Matrix: Solid
Analysis Batch: 685798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685008

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	44.4		mg/Kg		89	80 - 120
Arsenic	10.0	8.79		mg/Kg		88	80 - 120
Barium	200	190		mg/Kg		95	80 - 120
Beryllium	5.00	4.60		mg/Kg		92	80 - 120
Boron	100	80.6		mg/Kg		81	80 - 120
Cadmium	5.00	4.53		mg/Kg		91	80 - 120
Calcium	1000	1020		mg/Kg		102	80 - 120
Chromium	20.0	20.1		mg/Kg		100	80 - 120
Cobalt	50.0	49.7		mg/Kg		99	80 - 120
Copper	25.0	24.3		mg/Kg		97	80 - 120
Iron	100	97.0		mg/Kg		97	80 - 120
Lead	10.0	9.03		mg/Kg		90	80 - 120
Magnesium	1000	917		mg/Kg		92	80 - 120
Manganese	50.0	47.7		mg/Kg		95	80 - 120
Nickel	50.0	47.9		mg/Kg		96	80 - 120
Potassium	1000	894		mg/Kg		89	80 - 120
Selenium	10.0	8.73		mg/Kg		87	80 - 120
Silver	5.00	4.31		mg/Kg		86	80 - 120
Sodium	1000	915		mg/Kg		92	80 - 120
Thallium	10.0	8.84		mg/Kg		88	80 - 120
Vanadium	50.0	50.0		mg/Kg		100	80 - 120
Zinc	50.0	48.2		mg/Kg		96	80 - 120

Lab Sample ID: 500-225162-4 MS
Matrix: Solid
Analysis Batch: 685798

Client Sample ID: 1401V3-07-B09 (0-5)
Prep Type: Total/NA
Prep Batch: 685008

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<1.2	F1	30.5	4.71	F1	mg/Kg	☼	15	75 - 125
Arsenic	9.4	F1	6.10	11.9	F1	mg/Kg	☼	42	75 - 125
Barium	100	F1	122	189	F1	mg/Kg	☼	69	75 - 125
Beryllium	1.0	F1	3.05	3.22	F1	mg/Kg	☼	73	75 - 125
Boron	2.6	J F1	61.0	33.8	F1	mg/Kg	☼	51	75 - 125
Cadmium	0.10	J B F1	3.05	2.16	F1	mg/Kg	☼	68	75 - 125
Calcium	2000	F1	610	2670		mg/Kg	☼	110	75 - 125
Chromium	18		12.2	28.8		mg/Kg	☼	85	75 - 125
Cobalt	13		30.5	39.7		mg/Kg	☼	89	75 - 125
Copper	22	F1	15.2	31.4	F1	mg/Kg	☼	63	75 - 125
Iron	22000		61.0	20800	4	mg/Kg	☼	-2045	75 - 125
Lead	18	F1 F2	6.10	26.2	F1	mg/Kg	☼	130	75 - 125
Magnesium	3500		610	4140	4	mg/Kg	☼	113	75 - 125
Manganese	570	F2	30.5	459	4	mg/Kg	☼	-363	75 - 125

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-225162-4 MS
Matrix: Solid
Analysis Batch: 685798

Client Sample ID: 1401V3-07-B09 (0-5)
Prep Type: Total/NA
Prep Batch: 685008

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	RPD
Nickel	26		30.5	52.4		mg/Kg	⊛	87	75 - 125	
Potassium	1000	F1	610	2000	F1	mg/Kg	⊛	164	75 - 125	
Selenium	0.46	J F1	6.10	3.95	F1	mg/Kg	⊛	57	75 - 125	
Silver	0.41	F1	3.05	2.50	F1	mg/Kg	⊛	68	75 - 125	
Sodium	120	F1	610	571	F1	mg/Kg	⊛	74	75 - 125	
Thallium	<0.61		6.10	5.01		mg/Kg	⊛	82	75 - 125	
Vanadium	31		30.5	58.8		mg/Kg	⊛	90	75 - 125	
Zinc	62		30.5	94.7		mg/Kg	⊛	106	75 - 125	

Lab Sample ID: 500-225162-4 MSD
Matrix: Solid
Analysis Batch: 685798

Client Sample ID: 1401V3-07-B09 (0-5)
Prep Type: Total/NA
Prep Batch: 685008

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit	
Antimony	<1.2	F1	30.9	4.79	F1	mg/Kg	⊛	15	75 - 125	2	20	
Arsenic	9.4	F1	6.18	12.1	F1	mg/Kg	⊛	45	75 - 125	1	20	
Barium	100	F1	124	199		mg/Kg	⊛	76	75 - 125	5	20	
Beryllium	1.0	F1	3.09	3.29	F1	mg/Kg	⊛	74	75 - 125	2	20	
Boron	2.6	J F1	61.8	29.1	F1	mg/Kg	⊛	43	75 - 125	15	20	
Cadmium	0.10	J B F1	3.09	2.22	F1	mg/Kg	⊛	69	75 - 125	3	20	
Calcium	2000	F1	618	2460	F1	mg/Kg	⊛	74	75 - 125	8	20	
Chromium	18		12.4	30.6		mg/Kg	⊛	99	75 - 125	6	20	
Cobalt	13		30.9	36.9		mg/Kg	⊛	79	75 - 125	7	20	
Copper	22	F1	15.5	35.2		mg/Kg	⊛	86	75 - 125	11	20	
Iron	22000		61.8	22600	4	mg/Kg	⊛	889	75 - 125	8	20	
Lead	18	F1 F2	6.18	18.0	F1 F2	mg/Kg	⊛	-4	75 - 125	37	20	
Magnesium	3500		618	4340	4	mg/Kg	⊛	144	75 - 125	5	20	
Manganese	570	F2	30.9	308	4 F2	mg/Kg	⊛	-846	75 - 125	39	20	
Nickel	26		30.9	54.5		mg/Kg	⊛	92	75 - 125	4	20	
Potassium	1000	F1	618	1830	F1	mg/Kg	⊛	135	75 - 125	9	20	
Selenium	0.46	J F1	6.18	4.03	F1	mg/Kg	⊛	58	75 - 125	2	20	
Silver	0.41	F1	3.09	2.64	F1	mg/Kg	⊛	72	75 - 125	5	20	
Sodium	120	F1	618	577	F1	mg/Kg	⊛	74	75 - 125	1	20	
Thallium	<0.61		6.18	5.27		mg/Kg	⊛	85	75 - 125	5	20	
Vanadium	31		30.9	57.1		mg/Kg	⊛	84	75 - 125	3	20	
Zinc	62		30.9	96.2		mg/Kg	⊛	109	75 - 125	2	20	

Lab Sample ID: 500-225162-4 DU
Matrix: Solid
Analysis Batch: 685798

Client Sample ID: 1401V3-07-B09 (0-5)
Prep Type: Total/NA
Prep Batch: 685008

Analyte	Sample	Sample	DU		Unit	D	RPD	RPD	
	Result	Qualifier	Result	Qualifier				Limit	
Antimony	<1.2	F1	<1.2		mg/Kg	⊛		NC	20
Arsenic	9.4	F1	6.76	F3	mg/Kg	⊛		32	20
Barium	100	F1	103		mg/Kg	⊛		2	20
Beryllium	1.0	F1	0.960		mg/Kg	⊛		5	20
Boron	2.6	J F1	3.02	J	mg/Kg	⊛		14	20
Cadmium	0.10	J B F1	0.0855	J	mg/Kg	⊛		17	20
Calcium	2000	F1	2100		mg/Kg	⊛		5	20

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-225162-4 DU
Matrix: Solid
Analysis Batch: 685798

Client Sample ID: 1401V3-07-B09 (0-5)
Prep Type: Total/NA
Prep Batch: 685008

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium	18		18.8		mg/Kg	☼	3	20
Cobalt	13		8.63	F3	mg/Kg	☼	38	20
Copper	22	F1	19.6		mg/Kg	☼	11	20
Iron	22000		20400		mg/Kg	☼	8	20
Lead	18	F1 F2	14.5	F3	mg/Kg	☼	23	20
Magnesium	3500		3730		mg/Kg	☼	8	20
Manganese	570	F2	388	F3	mg/Kg	☼	38	20
Nickel	26		23.4		mg/Kg	☼	10	20
Potassium	1000	F1	1070		mg/Kg	☼	7	20
Selenium	0.46	J F1	0.492	J	mg/Kg	☼	7	20
Silver	0.41	F1	0.403		mg/Kg	☼	3	20
Sodium	120	F1	127		mg/Kg	☼	6	20
Thallium	<0.61		<0.62		mg/Kg	☼	NC	20
Vanadium	31		33.0		mg/Kg	☼	6	20
Zinc	62		58.2		mg/Kg	☼	7	20

Lab Sample ID: LCS 500-685167/2-A
Matrix: Solid
Analysis Batch: 685532

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685167

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.496	J	mg/L		99	80 - 120
Beryllium	0.0500	0.0463		mg/L		93	80 - 120
Boron	1.00	0.932		mg/L		93	80 - 120
Cadmium	0.0500	0.0505		mg/L		101	80 - 120
Chromium	0.200	0.182		mg/L		91	80 - 120
Cobalt	0.500	0.485		mg/L		97	80 - 120
Iron	1.00	0.884		mg/L		88	80 - 120
Lead	0.100	0.0905		mg/L		90	80 - 120
Manganese	0.500	0.454		mg/L		91	80 - 120
Nickel	0.500	0.470		mg/L		94	80 - 120
Selenium	0.100	0.102		mg/L		102	80 - 120
Silver	0.0500	0.0514		mg/L		103	80 - 120
Zinc	0.500	0.476	J	mg/L		95	80 - 120

Lab Sample ID: LCS 500-685169/2-A
Matrix: Solid
Analysis Batch: 685803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685169

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.100	0.0943		mg/L		94	80 - 120
Manganese	0.500	0.490		mg/L		98	80 - 120

Lab Sample ID: LB 500-684867/1-B
Matrix: Solid
Analysis Batch: 685532

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685167

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 21:28	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-684867/1-B
Matrix: Solid
Analysis Batch: 685532

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685167

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/22 19:01	11/16/22 21:28	1
Boron	<0.50		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 21:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/22 19:01	11/16/22 21:28	1
Chromium	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:28	1
Cobalt	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:28	1
Iron	<0.40		0.40	0.20	mg/L		11/15/22 19:01	11/16/22 21:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/15/22 19:01	11/16/22 21:28	1
Manganese	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:28	1
Nickel	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:28	1
Selenium	<0.050		0.050	0.020	mg/L		11/15/22 19:01	11/16/22 21:28	1
Silver	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:28	1
Zinc	<0.50		0.50	0.020	mg/L		11/15/22 19:01	11/16/22 21:28	1

Lab Sample ID: LB 500-684882/1-B
Matrix: Solid
Analysis Batch: 685803

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 685169

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		11/15/22 19:05	11/17/22 18:30	1
Manganese	<0.025		0.025	0.010	mg/L		11/15/22 19:05	11/17/22 18:30	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-685167/2-A
Matrix: Solid
Analysis Batch: 685882

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685167

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.509		mg/L		102	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: LB 500-684867/1-B
Matrix: Solid
Analysis Batch: 685882

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685167

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/15/22 19:01	11/17/22 19:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/15/22 19:01	11/17/22 19:57	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-685346/12-A
Matrix: Solid
Analysis Batch: 685588

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685346

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/16/22 11:50	11/17/22 10:26	1

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LCS 500-685346/14-A
Matrix: Solid
Analysis Batch: 685588

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685346

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00178		mg/L		90	80 - 120

Lab Sample ID: LB 500-684867/1-C
Matrix: Solid
Analysis Batch: 685588

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685346

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/16/22 11:50	11/17/22 10:28	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-685768/12-A
Matrix: Solid
Analysis Batch: 686326

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685768

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		11/18/22 13:10	11/21/22 07:49	1

Lab Sample ID: LCS 500-685768/13-A
Matrix: Solid
Analysis Batch: 686326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685768

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.144		mg/Kg		87	80 - 120

Lab Sample ID: 500-225162-1 MS
Matrix: Solid
Analysis Batch: 686326

Client Sample ID: 1401V3-07-B07 (0-5)
Prep Type: Total/NA
Prep Batch: 685768

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.038		0.0906	0.126		mg/Kg	☼	97	75 - 125

Lab Sample ID: 500-225162-1 MSD
Matrix: Solid
Analysis Batch: 686326

Client Sample ID: 1401V3-07-B07 (0-5)
Prep Type: Total/NA
Prep Batch: 685768

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.038		0.0905	0.134		mg/Kg	☼	106	75 - 125	6	20

Lab Sample ID: 500-225162-1 DU
Matrix: Solid
Analysis Batch: 686326

Client Sample ID: 1401V3-07-B07 (0-5)
Prep Type: Total/NA
Prep Batch: 685768

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.038		0.0905	0.0381		mg/Kg	☼			0.1	20

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Method: 9045D - pH

Lab Sample ID: 500-225162-1 DU
Matrix: Solid
Analysis Batch: 685174

Client Sample ID: 1401V3-07-B07 (0-5)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.8		7.0		SU		12	

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

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Client Sample ID: 1401V3-07-B07 (0-5)

Lab Sample ID: 500-225162-1

Date Collected: 11/09/22 12:45

Matrix: Solid

Date Received: 11/09/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6010B		1	685532	JJB	EET CHI	11/16/22 22:47
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6020A		1	685882	FXG	EET CHI	11/17/22 21:05
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	7470A			685346	MJG	EET CHI	11/16/22 11:50 - 11/16/22 13:50 ¹
TCLP	Analysis	7470A		1	685588	MJG	EET CHI	11/17/22 11:12
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 21:54
Total/NA	Analysis	Moisture		1	685030	LWN	EET CHI	11/15/22 12:17

Client Sample ID: 1401V3-07-B07 (0-5)

Lab Sample ID: 500-225162-1

Date Collected: 11/09/22 12:45

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684693	WRE	EET CHI	11/10/22 17:39
Total/NA	Analysis	8260B		1	684733	W1T	EET CHI	11/14/22 18:34
Total/NA	Prep	3541			685501	KN	EET CHI	11/17/22 08:34 - 11/17/22 15:30 ¹
Total/NA	Analysis	8270D		1	686476	SS	EET CHI	11/22/22 12:19
Total/NA	Prep	3050B			684902	LMB	EET CHI	11/14/22 17:22 - 11/14/22 17:52 ¹
Total/NA	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 22:37
Total/NA	Prep	7471B			685768	MJG	EET CHI	11/18/22 13:10
Total/NA	Analysis	7471B		1	686326	MJG	EET CHI	11/21/22 08:12

Client Sample ID: 1401V3-07-B07 (5-9)

Lab Sample ID: 500-225162-2

Date Collected: 11/09/22 12:48

Matrix: Solid

Date Received: 11/09/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			684882	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
SPLP East	Prep	3010A			685169	LMB	EET CHI	11/15/22 19:05 - 11/15/22 19:35 ¹
SPLP East	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 19:37
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6010B		1	685532	JJB	EET CHI	11/16/22 22:50
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6020A		1	685882	FXG	EET CHI	11/17/22 21:15
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	7470A			685346	MJG	EET CHI	11/16/22 11:50 - 11/16/22 13:50 ¹
TCLP	Analysis	7470A		1	685588	MJG	EET CHI	11/17/22 11:14
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 21:59
Total/NA	Analysis	Moisture		1	685030	LWN	EET CHI	11/15/22 12:17

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Client Sample ID: 1401V3-07-B07 (5-9)

Lab Sample ID: 500-225162-2

Date Collected: 11/09/22 12:48

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684693	WRE	EET CHI	11/10/22 17:39
Total/NA	Analysis	8260B		1	684733	W1T	EET CHI	11/14/22 18:59
Total/NA	Prep	3541			685501	KN	EET CHI	11/17/22 08:34 - 11/17/22 15:30 ¹
Total/NA	Analysis	8270D		1	686476	SS	EET CHI	11/22/22 13:23
Total/NA	Prep	3050B			684902	LMB	EET CHI	11/14/22 17:22 - 11/14/22 17:52 ¹
Total/NA	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 22:40
Total/NA	Prep	7471B			685768	MJG	EET CHI	11/18/22 13:10
Total/NA	Analysis	7471B		1	686326	MJG	EET CHI	11/21/22 08:24

Client Sample ID: 1401V3-07-B08 (0-2)

Lab Sample ID: 500-225162-3

Date Collected: 11/09/22 13:00

Matrix: Solid

Date Received: 11/09/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			684882	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
SPLP East	Prep	3010A			685169	LMB	EET CHI	11/15/22 19:05 - 11/15/22 19:35 ¹
SPLP East	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 19:46
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6010B		1	685532	JJB	EET CHI	11/16/22 22:54
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6020A		1	685882	FXG	EET CHI	11/17/22 21:19
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	7470A			685346	MJG	EET CHI	11/16/22 11:50 - 11/16/22 13:50 ¹
TCLP	Analysis	7470A		1	685588	MJG	EET CHI	11/17/22 11:17
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 22:01
Total/NA	Analysis	Moisture		1	685030	LWN	EET CHI	11/15/22 12:17

Client Sample ID: 1401V3-07-B08 (0-2)

Lab Sample ID: 500-225162-3

Date Collected: 11/09/22 13:00

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684693	WRE	EET CHI	11/10/22 17:39
Total/NA	Analysis	8260B		1	684733	W1T	EET CHI	11/14/22 19:24
Total/NA	Prep	3541			685501	KN	EET CHI	11/17/22 08:34 - 11/17/22 15:30 ¹
Total/NA	Analysis	8270D		1	686476	SS	EET CHI	11/22/22 13:44
Total/NA	Prep	3050B			684902	LMB	EET CHI	11/14/22 17:22 - 11/14/22 17:52 ¹
Total/NA	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 22:43
Total/NA	Prep	7471B			685768	MJG	EET CHI	11/18/22 13:10
Total/NA	Analysis	7471B		1	686326	MJG	EET CHI	11/21/22 08:26

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Client Sample ID: 1401V3-07-B09 (0-5)

Lab Sample ID: 500-225162-4

Date Collected: 11/09/22 13:10

Matrix: Solid

Date Received: 11/09/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6010B		1	685532	JJB	EET CHI	11/16/22 22:57
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6020A		1	685882	FXG	EET CHI	11/17/22 21:22
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	7470A			685346	MJG	EET CHI	11/16/22 11:50 - 11/16/22 13:50 ¹
TCLP	Analysis	7470A		1	685588	MJG	EET CHI	11/17/22 11:19
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 22:04
Total/NA	Analysis	Moisture		1	685030	LWN	EET CHI	11/15/22 12:17

Client Sample ID: 1401V3-07-B09 (0-5)

Lab Sample ID: 500-225162-4

Date Collected: 11/09/22 13:10

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684693	WRE	EET CHI	11/10/22 17:39
Total/NA	Analysis	8260B		1	684733	W1T	EET CHI	11/14/22 19:49
Total/NA	Prep	3541			685501	KN	EET CHI	11/17/22 08:34 - 11/17/22 15:30 ¹
Total/NA	Analysis	8270D		1	686476	SS	EET CHI	11/22/22 14:06
Total/NA	Prep	3050B			685008	BDE	EET CHI	11/15/22 09:08 - 11/15/22 09:38 ¹
Total/NA	Analysis	6010B		1	685798	JJB	EET CHI	11/17/22 14:40
Total/NA	Prep	7471B			685768	MJG	EET CHI	11/18/22 13:10
Total/NA	Analysis	7471B		1	686326	MJG	EET CHI	11/21/22 08:28

Client Sample ID: 1401V3-07-B09 (5-9)

Lab Sample ID: 500-225162-5

Date Collected: 11/09/22 13:12

Matrix: Solid

Date Received: 11/09/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			684882	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
SPLP East	Prep	3010A			685169	LMB	EET CHI	11/15/22 19:05 - 11/15/22 19:35 ¹
SPLP East	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 19:50
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6010B		1	685532	JJB	EET CHI	11/16/22 23:00
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6020A		1	685882	FXG	EET CHI	11/17/22 21:26
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	7470A			685346	MJG	EET CHI	11/16/22 11:50 - 11/16/22 13:50 ¹
TCLP	Analysis	7470A		1	685588	MJG	EET CHI	11/17/22 11:21
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 22:06
Total/NA	Analysis	Moisture		1	685030	LWN	EET CHI	11/15/22 12:17

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Client Sample ID: 1401V3-07-B09 (5-9)

Lab Sample ID: 500-225162-5

Date Collected: 11/09/22 13:12

Matrix: Solid

Date Received: 11/09/22 17:00

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684693	WRE	EET CHI	11/10/22 17:39
Total/NA	Analysis	8260B		1	684733	W1T	EET CHI	11/14/22 20:14
Total/NA	Prep	3541			685501	KN	EET CHI	11/17/22 08:34 - 11/17/22 15:30 ¹
Total/NA	Analysis	8270D		1	686476	SS	EET CHI	11/22/22 14:27
Total/NA	Prep	3050B			685008	BDE	EET CHI	11/15/22 09:08 - 11/15/22 09:38 ¹
Total/NA	Analysis	6010B		1	685798	JJB	EET CHI	11/17/22 15:02
Total/NA	Prep	3050B			685008	BDE	EET CHI	11/15/22 09:08 - 11/15/22 09:38 ¹
Total/NA	Analysis	6010B		5	686262	JJB	EET CHI	11/18/22 13:34
Total/NA	Prep	7471B			685768	MJG	EET CHI	11/18/22 13:10
Total/NA	Analysis	7471B		1	686326	MJG	EET CHI	11/21/22 08:30

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225162-1

Laboratory: Eurofins Chicago

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

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

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

Chain of Custody Record

522923



Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager: D. Tichout		Site Contact: A. HAPPEL		Date: 11/9/22		COC No 3	
Company Name: WSP		Tel/Email:		Lab Contact: R. WRIGHT		Carrier:		3 of 7 COCs	
Address: 20 N Cassile		Analysis Turnaround Time							
City/State/Zip: CHICAGO, IL		<input type="checkbox"/> CALENDAR DAYS		<input type="checkbox"/> WORKING DAYS		<p>500-225162 COC</p>		Sampler	
Phone:		TAT if different from Below						For Lab Use Only	
Fax:		<input checked="" type="checkbox"/> 2 weeks						Walk-in Client	
Project Name: DOT W013 Butterfield		<input type="checkbox"/> 1 week						Lab Sampling	
Site:		<input type="checkbox"/> 2 days						Job / SDG No	
PO# 31403035.013		<input type="checkbox"/> 1 day						500-225162	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sample Specific Notes
1	1401V3-07-B07(0-5)	11/9/22	1245	C	S	2	X	X	
2	1401V3-07-B07(5-9)	11/9/22	1248	C	S	2	X	X	
3	1401V3-07-B08(0-2)	11/9/22	1300	C	S	2	X	X	
4	1401V3-07-B09(0-5)	11/9/22	1310	C	S	2	X	X	
5	1401V3-07-B09(5-9)	11/9/22	1312	C	S	2	X	X	
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other									
Possible Hazard Identification:					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample					<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown									
Special Instructions/QC Requirements & Comments:									
*SPLP Dependent on TCLP results 5.3-755, 2.3-725, 5.4-756									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd		Corr'd		Therm ID No	
Requested by: Carlynn Cooper		Company: WSP		Date/Time: 11/9/22 1545		Received by: A. D. Ellison		Company: EETA	
Requested by: A. D. Ellison		Company: EETA		Date/Time: 11/9/22 1700		Received by:		Company:	
Requested by:		Company:		Date/Time:		Received in Laboratory by: Shirley Lee		Company: EETA	
								Date/Time: 11/10/22 0250	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225162-1

Login Number: 225162

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.5,2.5,5.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Dean Tiebot
WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602
Generated 11/29/2022 4:10:17 PM

JOB DESCRIPTION

IDOT - 196-002-WO 13 IL 56

JOB NUMBER

500-225350-1

Eurofins Chicago

Job Notes

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

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

Authorization



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11/29/2022 4:10:17 PM

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



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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Job ID: 500-225350-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225350-1

Receipt

The samples were received on 11/11/2022 4:02 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.5° C.

GC/MS VOA

Method 8260B: Methylene chloride was detected in the following items: 1401V3-07-B02 (0-5) (500-225350-3), 1401V3-07-B02 (5-9) (500-225350-4), 1401V3-07-B03 (0-6) (500-225350-5), 1401V3-07-B04 (5-9) (500-225350-7), 1401V3-07-B05 (0-6) (500-225350-8) and 1401V3-07-B06 (5-9) (500-225350-11). Methylene chloride is a known lab contaminant; therefore all low level detects for this compound could be suspected as lab contamination.

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 500-684703 and analytical batch 500-685181 recovered outside control limits for the following analytes: Trichloroethene, Methylene chloride, Carbon tetrachloride, and 1,1-Dichloroethene. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported. 1401V3-07-B01 (0-7) (500-225350-1) and 1401V3-07-B01 (7-13) (500-225350-2)

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

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-687051 was outside the method criteria for the following analyte(s): N-Nitrosodi-n-propylamine, Pyrene and Terphenyl-d14. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 500-686267 and analytical batch 500-687051 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with preparation batch 500-686267 and analytical batch 500-687051 had 1 analytes outside control limits: Pyrene. These results have been reported and qualified.

Method 8270D: The following samples contained one base surrogate outside acceptance limits: 1401V3-07-B01 (0-7) (500-225350-1), 1401V3-07-B01 (7-13) (500-225350-2) and (MB 500-686267/1-A). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

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

Metals

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

General Chemistry

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

Organic Prep

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

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B01 (0-7)

Lab Sample ID: 500-225350-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.46	J	1.2	0.24	mg/Kg	1	☒	6010B	Total/NA
Arsenic	11		0.61	0.21	mg/Kg	1	☒	6010B	Total/NA
Barium	98		0.61	0.070	mg/Kg	1	☒	6010B	Total/NA
Beryllium	1.0		0.24	0.057	mg/Kg	1	☒	6010B	Total/NA
Boron	9.4		3.1	0.29	mg/Kg	1	☒	6010B	Total/NA
Cadmium	0.16		0.12	0.022	mg/Kg	1	☒	6010B	Total/NA
Calcium	1800	B	12	2.1	mg/Kg	1	☒	6010B	Total/NA
Chromium	22		0.61	0.30	mg/Kg	1	☒	6010B	Total/NA
Cobalt	17		0.31	0.080	mg/Kg	1	☒	6010B	Total/NA
Copper	27		0.61	0.17	mg/Kg	1	☒	6010B	Total/NA
Iron	26000	B	12	6.4	mg/Kg	1	☒	6010B	Total/NA
Lead	20		0.31	0.14	mg/Kg	1	☒	6010B	Total/NA
Magnesium	5100	B	6.1	3.0	mg/Kg	1	☒	6010B	Total/NA
Manganese	440		0.61	0.089	mg/Kg	1	☒	6010B	Total/NA
Nickel	46		0.61	0.18	mg/Kg	1	☒	6010B	Total/NA
Potassium	2300		31	11	mg/Kg	1	☒	6010B	Total/NA
Silver	0.55	B	0.31	0.079	mg/Kg	1	☒	6010B	Total/NA
Sodium	83		61	9.1	mg/Kg	1	☒	6010B	Total/NA
Thallium	0.41	J	0.61	0.31	mg/Kg	1	☒	6010B	Total/NA
Vanadium	25		0.31	0.072	mg/Kg	1	☒	6010B	Total/NA
Zinc	85		1.2	0.54	mg/Kg	1	☒	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.12	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.21	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.036		0.019	0.0062	mg/Kg	1	☒	7471B	Total/NA
pH	7.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-07-B01 (7-13)

Lab Sample ID: 500-225350-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.010	J	0.024	0.010	mg/Kg	1	☒	8260B	Total/NA
Methylene Chloride	0.0047	J*	0.0059	0.0023	mg/Kg	1	☒	8260B	Total/NA
Antimony	0.43	J F1	1.1	0.21	mg/Kg	1	☒	6010B	Total/NA
Arsenic	11	F1	0.54	0.18	mg/Kg	1	☒	6010B	Total/NA
Barium	19		0.54	0.062	mg/Kg	1	☒	6010B	Total/NA
Beryllium	0.63		0.22	0.050	mg/Kg	1	☒	6010B	Total/NA
Boron	9.7		2.7	0.25	mg/Kg	1	☒	6010B	Total/NA
Cadmium	0.28		0.11	0.019	mg/Kg	1	☒	6010B	Total/NA
Calcium	43000	B	54	9.2	mg/Kg	5	☒	6010B	Total/NA
Chromium	11		0.54	0.27	mg/Kg	1	☒	6010B	Total/NA
Cobalt	11		0.27	0.071	mg/Kg	1	☒	6010B	Total/NA
Copper	30		0.54	0.15	mg/Kg	1	☒	6010B	Total/NA
Iron	18000	B	11	5.6	mg/Kg	1	☒	6010B	Total/NA
Lead	18		0.27	0.12	mg/Kg	1	☒	6010B	Total/NA
Magnesium	24000	B	5.4	2.7	mg/Kg	1	☒	6010B	Total/NA
Manganese	350		0.54	0.078	mg/Kg	1	☒	6010B	Total/NA
Nickel	26		0.54	0.16	mg/Kg	1	☒	6010B	Total/NA
Potassium	1900	F1	27	9.6	mg/Kg	1	☒	6010B	Total/NA
Silver	0.31	B	0.27	0.070	mg/Kg	1	☒	6010B	Total/NA
Sodium	140		54	8.0	mg/Kg	1	☒	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B01 (7-13) (Continued)

Lab Sample ID: 500-225350-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Thallium	0.33	J	0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	14		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	90		1.1	0.47	mg/Kg	1	☼	6010B	Total/NA
Barium	0.19	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.099	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.029	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.54		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.021		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago



Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

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Client Sample ID: 1401V3-07-B03 (0-6)

Lab Sample ID: 500-225350-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methylene Chloride	0.0024	J B	0.0054	0.0021	mg/Kg	1	✳		8260B	Total/NA
2-Methylnaphthalene	0.032	J	0.080	0.0073	mg/Kg	1	✳		8270D	Total/NA
Phenanthrene	0.019	J	0.040	0.0055	mg/Kg	1	✳		8270D	Total/NA
Anthracene	0.015	J	0.040	0.0066	mg/Kg	1	✳		8270D	Total/NA
Fluoranthene	0.025	J	0.040	0.0074	mg/Kg	1	✳		8270D	Total/NA
Pyrene	0.015	J*+	0.040	0.0079	mg/Kg	1	✳		8270D	Total/NA
Benzo[a]anthracene	0.0094	J	0.040	0.0054	mg/Kg	1	✳		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B03 (0-6) (Continued)

Lab Sample ID: 500-225350-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.017	J	0.040	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.023	J	0.040	0.0086	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.014	J	0.040	0.0077	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.011	J	0.040	0.010	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.014	J	0.040	0.013	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.37	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	9.3		0.57	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	56		2.8	0.32	mg/Kg	5	✳	6010B	Total/NA
Beryllium	0.75		0.23	0.053	mg/Kg	1	✳	6010B	Total/NA
Boron	12		2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.27		0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	81000	B	57	9.6	mg/Kg	5	✳	6010B	Total/NA
Chromium	13		0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	10		0.28	0.074	mg/Kg	1	✳	6010B	Total/NA
Copper	20		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	22000	B	57	30	mg/Kg	5	✳	6010B	Total/NA
Lead	68		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	49000	B	28	14	mg/Kg	5	✳	6010B	Total/NA
Manganese	560		0.57	0.082	mg/Kg	1	✳	6010B	Total/NA
Nickel	23		0.57	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	2100		28	10	mg/Kg	1	✳	6010B	Total/NA
Silver	0.30	B	0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Sodium	770		57	8.4	mg/Kg	1	✳	6010B	Total/NA
Vanadium	18		0.28	0.067	mg/Kg	1	✳	6010B	Total/NA
Zinc	58		1.1	0.50	mg/Kg	1	✳	6010B	Total/NA
Barium	0.53		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.070	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.29	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.034		0.018	0.0059	mg/Kg	1	✳	7471B	Total/NA
pH	7.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-07-B04 (0-5)

Lab Sample ID: 500-225350-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.044		0.025	0.011	mg/Kg	1	✳	8260B	Total/NA
2-Butanone (MEK)	0.011		0.0061	0.0027	mg/Kg	1	✳	8260B	Total/NA
Toluene	0.0010	J	0.0025	0.00062	mg/Kg	1	✳	8260B	Total/NA
Naphthalene	0.0062	J	0.039	0.0061	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.033	J	0.080	0.0073	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.013	J	0.039	0.0052	mg/Kg	1	✳	8270D	Total/NA
Acenaphthene	0.031	J	0.039	0.0071	mg/Kg	1	✳	8270D	Total/NA
Dibenzofuran	0.056	J	0.20	0.046	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.039		0.039	0.0056	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.044		0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.018	J	0.039	0.0066	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.085		0.039	0.0073	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.063	*+	0.039	0.0079	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.033	J	0.039	0.0053	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B04 (0-5) (Continued)

Lab Sample ID: 500-225350-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.051		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.073		0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.023	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.046		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.024	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.0091	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.028	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.32	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.9		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	65		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.86		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Boron	9.5		2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.23		0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Calcium	26000	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	21000	B	12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	31		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	16000	B	5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	590		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		29	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.38	B	0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000		58	8.6	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.43	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	69		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Barium	0.69		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.094	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0028	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.070		0.025	0.010	mg/L	1		6010B	TCLP
Iron	1.6		0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.064		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	14		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.046		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.14	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.56		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	1.3		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.031		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	6.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-07-B04 (5-9)

Lab Sample ID: 500-225350-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0035	J B	0.0050	0.0020	mg/Kg	1	☼	8260B	Total/NA
Antimony	0.44	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.5		0.62	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	81		0.62	0.070	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.86		0.25	0.058	mg/Kg	1	☼	6010B	Total/NA
Boron	4.3		3.1	0.29	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B04 (5-9) (Continued)

Lab Sample ID: 500-225350-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.10	J	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Calcium	1600	B	12	2.1	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.31	0.081	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	21000	B	12	6.4	mg/Kg	1	☼	6010B	Total/NA
Lead	18		0.31	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3200	B	6.2	3.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	550		0.62	0.089	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.62	0.18	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		31	11	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.38	J	0.62	0.36	mg/Kg	1	☼	6010B	Total/NA
Silver	0.52	B	0.31	0.080	mg/Kg	1	☼	6010B	Total/NA
Sodium	770		62	9.1	mg/Kg	1	☼	6010B	Total/NA
Vanadium	30		0.31	0.073	mg/Kg	1	☼	6010B	Total/NA
Zinc	63		1.2	0.54	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.054	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.043		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	6.8		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B06 (0-5)

Lab Sample ID: 500-225350-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Phenanthrene	0.015	J	0.039	0.0055	mg/Kg	1	✳		8270D	Total/NA
Fluoranthene	0.013	J	0.039	0.0073	mg/Kg	1	✳		8270D	Total/NA
Antimony	0.36	J	1.2	0.23	mg/Kg	1	✳		6010B	Total/NA
Arsenic	10		0.58	0.20	mg/Kg	1	✳		6010B	Total/NA
Barium	77		0.58	0.067	mg/Kg	1	✳		6010B	Total/NA
Beryllium	0.94		0.23	0.055	mg/Kg	1	✳		6010B	Total/NA
Boron	6.4		2.9	0.27	mg/Kg	1	✳		6010B	Total/NA
Cadmium	0.16		0.12	0.021	mg/Kg	1	✳		6010B	Total/NA
Calcium	2500	B	12	2.0	mg/Kg	1	✳		6010B	Total/NA
Chromium	20		0.58	0.29	mg/Kg	1	✳		6010B	Total/NA
Cobalt	17		0.29	0.076	mg/Kg	1	✳		6010B	Total/NA
Copper	23		0.58	0.16	mg/Kg	1	✳		6010B	Total/NA
Iron	23000	B	12	6.1	mg/Kg	1	✳		6010B	Total/NA
Lead	23		0.29	0.13	mg/Kg	1	✳		6010B	Total/NA
Magnesium	3700	B	5.8	2.9	mg/Kg	1	✳		6010B	Total/NA
Manganese	580		0.58	0.085	mg/Kg	1	✳		6010B	Total/NA
Nickel	30		0.58	0.17	mg/Kg	1	✳		6010B	Total/NA
Potassium	2100		29	10	mg/Kg	1	✳		6010B	Total/NA
Selenium	0.35	J	0.58	0.34	mg/Kg	1	✳		6010B	Total/NA
Silver	0.39	B	0.29	0.075	mg/Kg	1	✳		6010B	Total/NA
Sodium	710		58	8.6	mg/Kg	1	✳		6010B	Total/NA
Thallium	0.36	J	0.58	0.29	mg/Kg	1	✳		6010B	Total/NA
Vanadium	28		0.29	0.069	mg/Kg	1	✳		6010B	Total/NA
Zinc	67		1.2	0.51	mg/Kg	1	✳		6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1			6010B	TCLP
Boron	0.086	J	0.50	0.050	mg/L	1			6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1			6010B	TCLP
Manganese	0.79		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.040		0.018	0.0062	mg/Kg	1	✳		7471B	Total/NA
pH	7.7		0.2	0.2	SU	1			9045D	Total/NA

Client Sample ID: 1401V3-07-B06 (5-9)

Lab Sample ID: 500-225350-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methylene Chloride	0.0034	J	0.0052	0.0021	mg/Kg	1	✳		8260B	Total/NA
Antimony	0.37	J	1.3	0.25	mg/Kg	1	✳		6010B	Total/NA
Arsenic	7.1		0.63	0.22	mg/Kg	1	✳		6010B	Total/NA
Barium	95		0.63	0.072	mg/Kg	1	✳		6010B	Total/NA
Beryllium	0.93		0.25	0.059	mg/Kg	1	✳		6010B	Total/NA
Boron	4.0		3.2	0.29	mg/Kg	1	✳		6010B	Total/NA
Cadmium	0.25		0.13	0.023	mg/Kg	1	✳		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B06 (5-9) (Continued)

Lab Sample ID: 500-225350-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	2800	B	13	2.1	mg/Kg	1	✳	6010B	Total/NA
Chromium	20		0.63	0.31	mg/Kg	1	✳	6010B	Total/NA
Cobalt	14		0.32	0.083	mg/Kg	1	✳	6010B	Total/NA
Copper	20		0.63	0.18	mg/Kg	1	✳	6010B	Total/NA
Iron	23000	B	13	6.6	mg/Kg	1	✳	6010B	Total/NA
Lead	19		0.32	0.15	mg/Kg	1	✳	6010B	Total/NA
Magnesium	4000	B	6.3	3.1	mg/Kg	1	✳	6010B	Total/NA
Manganese	550		0.63	0.092	mg/Kg	1	✳	6010B	Total/NA
Nickel	28		0.63	0.18	mg/Kg	1	✳	6010B	Total/NA
Potassium	1600		32	11	mg/Kg	1	✳	6010B	Total/NA
Silver	0.37	B	0.32	0.082	mg/Kg	1	✳	6010B	Total/NA
Sodium	1000		63	9.4	mg/Kg	1	✳	6010B	Total/NA
Vanadium	25		0.32	0.075	mg/Kg	1	✳	6010B	Total/NA
Zinc	80		1.3	0.56	mg/Kg	1	✳	6010B	Total/NA
Barium	0.15	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.063	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.43		0.40	0.20	mg/L	1		6010B	TCLP
Manganese	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.046		0.019	0.0063	mg/Kg	1	✳	7471B	Total/NA
pH	7.5		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010B	Metals (ICP)	SW846	EET CHI
6010B	SPLP Metals	SW846	EET CHI
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225350-1	1401V3-07-B01 (0-7)	Solid	11/11/22 11:00	11/11/22 16:02
500-225350-2	1401V3-07-B01 (7-13)	Solid	11/11/22 11:05	11/11/22 16:02
500-225350-5	1401V3-07-B03 (0-6)	Solid	11/11/22 10:10	11/11/22 16:02
500-225350-6	1401V3-07-B04 (0-5)	Solid	11/11/22 09:55	11/11/22 16:02
500-225350-7	1401V3-07-B04 (5-9)	Solid	11/11/22 10:00	11/11/22 16:02
500-225350-10	1401V3-07-B06 (0-5)	Solid	11/11/22 09:10	11/11/22 16:02
500-225350-11	1401V3-07-B06 (5-9)	Solid	11/11/22 09:05	11/11/22 16:02

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B01 (0-7)

Lab Sample ID: 500-225350-1

Date Collected: 11/11/22 11:00

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.035		0.035	0.015	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
Benzene	<0.0035		0.0035	0.00088	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
Bromodichloromethane	<0.0035		0.0035	0.00070	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
Bromoform	<0.0035		0.0035	0.0010	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
Bromomethane	<0.0086		0.0086	0.0033	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
2-Butanone (MEK)	<0.0086		0.0086	0.0038	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
Carbon disulfide	<0.0086		0.0086	0.0018	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
Carbon tetrachloride	<0.0035	*+	0.0035	0.0010	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
Chlorobenzene	<0.0035		0.0035	0.0013	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
Chloroethane	<0.0086		0.0086	0.0026	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
Chloroform	<0.0035		0.0035	0.0012	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
Chloromethane	<0.0086		0.0086	0.0035	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
cis-1,2-Dichloroethene	<0.0035		0.0035	0.00096	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
cis-1,3-Dichloropropene	<0.0035		0.0035	0.0010	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
Dibromochloromethane	<0.0035		0.0035	0.0011	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
1,1-Dichloroethane	<0.0035		0.0035	0.0012	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
1,2-Dichloroethane	<0.0086		0.0086	0.0027	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
1,1-Dichloroethene	<0.0035	*+	0.0035	0.0012	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
1,2-Dichloropropane	<0.0035		0.0035	0.00089	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
1,3-Dichloropropene, Total	<0.0035		0.0035	0.0012	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
Ethylbenzene	<0.0035		0.0035	0.0017	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
2-Hexanone	<0.0086		0.0086	0.0027	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
Methylene Chloride	<0.0086	*+	0.0086	0.0034	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
4-Methyl-2-pentanone (MIBK)	<0.0086		0.0086	0.0026	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
Methyl tert-butyl ether	<0.0035		0.0035	0.0010	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
Styrene	<0.0035		0.0035	0.0010	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
1,1,2,2-Tetrachloroethane	<0.0035		0.0035	0.0011	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
Tetrachloroethene	<0.0035		0.0035	0.0012	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
Toluene	<0.0035		0.0035	0.00087	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
trans-1,2-Dichloroethene	<0.0035		0.0035	0.0015	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
trans-1,3-Dichloropropene	<0.0035		0.0035	0.0012	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
1,1,1-Trichloroethane	<0.0035		0.0035	0.0012	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
1,1,2-Trichloroethane	<0.0035		0.0035	0.0015	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
Trichloroethene	<0.0035	*+	0.0035	0.0012	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
Vinyl acetate	<0.0086		0.0086	0.0030	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
Vinyl chloride	<0.0035		0.0035	0.0015	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1
Xylenes, Total	<0.0069		0.0069	0.0011	mg/Kg	☼	11/11/22 18:10	11/16/22 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		75 - 131	11/11/22 18:10	11/16/22 18:01	1
Dibromofluoromethane	112		75 - 126	11/11/22 18:10	11/16/22 18:01	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134	11/11/22 18:10	11/16/22 18:01	1
Toluene-d8 (Surr)	103		75 - 124	11/11/22 18:10	11/16/22 18:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.091	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
Bis(2-chloroethyl)ether	<0.20	F1	0.20	0.061	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B01 (0-7)

Lab Sample ID: 500-225350-1

Date Collected: 11/11/22 11:00

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20	F1	0.20	0.049	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
N-Nitrosodi-n-propylamine	<0.082	F1	0.082	0.050	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
2-Chlorophenol	<0.20		0.20	0.070	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
Nitrobenzene	<0.040	F1	0.040	0.010	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
Bis(2-chloroethoxy)methane	<0.20	F1	0.20	0.042	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
Isophorone	<0.20	F1	0.20	0.046	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
2,4-Dimethylphenol	<0.40	F1	0.40	0.15	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
Hexachlorobutadiene	<0.20	F1 F2	0.20	0.064	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
Naphthalene	<0.040	F1	0.040	0.0063	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
2,4-Dichlorophenol	<0.40		0.40	0.097	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
Hexachlorocyclopentadiene	<0.82	F2	0.82	0.23	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
Dimethyl phthalate	<0.20	F1	0.20	0.053	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
2,4-Dinitrophenol	<0.82	F2	0.82	0.72	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
4-Nitrophenol	<0.82	F2	0.82	0.39	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.048	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
Pentachlorophenol	<0.82	F2	0.82	0.65	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
4,6-Dinitro-2-methylphenol	<0.82	F2	0.82	0.33	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
Phenanthrene	<0.040		0.040	0.0057	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
Fluoranthene	<0.040		0.040	0.0076	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
Pyrene	<0.040	*+ F1	0.040	0.0081	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
Butyl benzyl phthalate	<0.20	F1	0.20	0.078	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1
Benzo[a]anthracene	<0.040	F1	0.040	0.0055	mg/Kg	☼	11/21/22 08:59	11/28/22 12:48	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B01 (0-7)

Lab Sample ID: 500-225350-1

Date Collected: 11/11/22 11:00

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040	F1	0.040	0.011	mg/Kg	✳	11/21/22 08:59	11/28/22 12:48	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	✳	11/21/22 08:59	11/28/22 12:48	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	✳	11/21/22 08:59	11/28/22 12:48	1
Di-n-octyl phthalate	<0.20		0.20	0.067	mg/Kg	✳	11/21/22 08:59	11/28/22 12:48	1
Benzo[b]fluoranthene	<0.040		0.040	0.0088	mg/Kg	✳	11/21/22 08:59	11/28/22 12:48	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	✳	11/21/22 08:59	11/28/22 12:48	1
Benzo[a]pyrene	<0.040		0.040	0.0079	mg/Kg	✳	11/21/22 08:59	11/28/22 12:48	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	✳	11/21/22 08:59	11/28/22 12:48	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0079	mg/Kg	✳	11/21/22 08:59	11/28/22 12:48	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	✳	11/21/22 08:59	11/28/22 12:48	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	✳	11/21/22 08:59	11/28/22 12:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	124		31 - 166	11/21/22 08:59	11/28/22 12:48	1
Phenol-d5	107		30 - 153	11/21/22 08:59	11/28/22 12:48	1
Nitrobenzene-d5 (Surr)	105		37 - 147	11/21/22 08:59	11/28/22 12:48	1
2-Fluorobiphenyl (Surr)	103		43 - 145	11/21/22 08:59	11/28/22 12:48	1
2,4,6-Tribromophenol	105		31 - 143	11/21/22 08:59	11/28/22 12:48	1
Terphenyl-d14 (Surr)	187	S1+	42 - 157	11/21/22 08:59	11/28/22 12:48	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.46	J	1.2	0.24	mg/Kg	✳	11/22/22 17:12	11/28/22 17:24	1
Arsenic	11		0.61	0.21	mg/Kg	✳	11/22/22 17:12	11/28/22 17:24	1
Barium	98		0.61	0.070	mg/Kg	✳	11/22/22 17:12	11/28/22 17:24	1
Beryllium	1.0		0.24	0.057	mg/Kg	✳	11/22/22 17:12	11/28/22 17:24	1
Boron	9.4		3.1	0.29	mg/Kg	✳	11/22/22 17:12	11/28/22 17:24	1
Cadmium	0.16		0.12	0.022	mg/Kg	✳	11/22/22 17:12	11/28/22 17:24	1
Calcium	1800	B	12	2.1	mg/Kg	✳	11/22/22 17:12	11/28/22 17:24	1
Chromium	22		0.61	0.30	mg/Kg	✳	11/22/22 17:12	11/28/22 17:24	1
Cobalt	17		0.31	0.080	mg/Kg	✳	11/22/22 17:12	11/28/22 17:24	1
Copper	27		0.61	0.17	mg/Kg	✳	11/22/22 17:12	11/28/22 17:24	1
Iron	26000	B	12	6.4	mg/Kg	✳	11/22/22 17:12	11/28/22 17:24	1
Lead	20		0.31	0.14	mg/Kg	✳	11/22/22 17:12	11/28/22 17:24	1
Magnesium	5100	B	6.1	3.0	mg/Kg	✳	11/22/22 17:12	11/28/22 17:24	1
Manganese	440		0.61	0.089	mg/Kg	✳	11/22/22 17:12	11/28/22 17:24	1
Nickel	46		0.61	0.18	mg/Kg	✳	11/22/22 17:12	11/28/22 17:24	1
Potassium	2300		31	11	mg/Kg	✳	11/22/22 17:12	11/28/22 17:24	1
Selenium	<0.61		0.61	0.36	mg/Kg	✳	11/22/22 17:12	11/28/22 17:24	1
Silver	0.55	B	0.31	0.079	mg/Kg	✳	11/22/22 17:12	11/28/22 17:24	1
Sodium	83		61	9.1	mg/Kg	✳	11/22/22 17:12	11/28/22 17:24	1
Thallium	0.41	J	0.61	0.31	mg/Kg	✳	11/22/22 17:12	11/28/22 17:24	1
Vanadium	25		0.31	0.072	mg/Kg	✳	11/22/22 17:12	11/28/22 17:24	1
Zinc	85		1.2	0.54	mg/Kg	✳	11/22/22 17:12	11/28/22 17:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.35	J	0.50	0.050	mg/L		11/18/22 19:06	11/21/22 20:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/18/22 19:06	11/21/22 20:57	1
Boron	0.12	J	0.50	0.050	mg/L		11/18/22 19:06	11/21/22 20:57	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B01 (0-7)

Lab Sample ID: 500-225350-1

Date Collected: 11/11/22 11:00

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/18/22 19:06	11/21/22 20:57	1
Chromium	<0.025		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 20:57	1
Cobalt	<0.025		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 20:57	1
Iron	0.21	J	0.40	0.20	mg/L		11/18/22 19:06	11/21/22 20:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/18/22 19:06	11/21/22 20:57	1
Manganese	0.011	J	0.025	0.010	mg/L		11/18/22 19:06	11/21/22 20:57	1
Nickel	<0.025		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 20:57	1
Selenium	<0.050		0.050	0.020	mg/L		11/18/22 19:06	11/21/22 20:57	1
Silver	<0.025		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 20:57	1
Zinc	<0.50		0.50	0.020	mg/L		11/18/22 19:06	11/21/22 20:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/18/22 19:06	11/28/22 22:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/18/22 19:06	11/28/22 22:16	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/21/22 10:20	11/22/22 10:05	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.019	0.0062	mg/Kg	☼	11/23/22 15:45	11/28/22 07:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.5		0.2	0.2	SU			11/17/22 17:07	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B01 (7-13)

Lab Sample ID: 500-225350-2

Date Collected: 11/11/22 11:05

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.010	J	0.024	0.010	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
Benzene	<0.0024		0.0024	0.00060	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
Bromodichloromethane	<0.0024		0.0024	0.00048	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
Bromoform	<0.0024		0.0024	0.00069	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
Bromomethane	<0.0059		0.0059	0.0022	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
2-Butanone (MEK)	<0.0059		0.0059	0.0026	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
Carbon disulfide	<0.0059		0.0059	0.0012	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
Carbon tetrachloride	<0.0024	*+	0.0024	0.00068	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
Chlorobenzene	<0.0024		0.0024	0.00087	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
Chloroethane	<0.0059		0.0059	0.0017	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
Chloroform	<0.0024		0.0024	0.00082	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
Chloromethane	<0.0059		0.0059	0.0024	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
cis-1,2-Dichloroethene	<0.0024		0.0024	0.00066	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
cis-1,3-Dichloropropene	<0.0024		0.0024	0.00071	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
Dibromochloromethane	<0.0024		0.0024	0.00077	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
1,1-Dichloroethane	<0.0024		0.0024	0.00081	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
1,2-Dichloroethane	<0.0059		0.0059	0.0018	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
1,1-Dichloroethene	<0.0024	*+	0.0024	0.00081	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
1,2-Dichloropropane	<0.0024		0.0024	0.00061	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
1,3-Dichloropropane, Total	<0.0024		0.0024	0.00083	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
Ethylbenzene	<0.0024		0.0024	0.0011	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
2-Hexanone	<0.0059		0.0059	0.0018	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
Methylene Chloride	0.0047	J**	0.0059	0.0023	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
4-Methyl-2-pentanone (MIBK)	<0.0059		0.0059	0.0017	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
Methyl tert-butyl ether	<0.0024		0.0024	0.00069	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
Styrene	<0.0024		0.0024	0.00071	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
1,1,2,2-Tetrachloroethane	<0.0024		0.0024	0.00075	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
Tetrachloroethene	<0.0024		0.0024	0.00080	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
Toluene	<0.0024		0.0024	0.00059	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
trans-1,2-Dichloroethene	<0.0024		0.0024	0.0010	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
trans-1,3-Dichloropropene	<0.0024		0.0024	0.00083	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
1,1,1-Trichloroethane	<0.0024		0.0024	0.00079	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
1,1,2-Trichloroethane	<0.0024		0.0024	0.0010	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
Trichloroethene	<0.0024	*+	0.0024	0.00080	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
Vinyl acetate	<0.0059		0.0059	0.0020	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
Vinyl chloride	<0.0024		0.0024	0.0010	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1
Xylenes, Total	<0.0047		0.0047	0.00075	mg/Kg	☼	11/11/22 18:10	11/16/22 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		75 - 131	11/11/22 18:10	11/16/22 18:26	1
Dibromofluoromethane	111		75 - 126	11/11/22 18:10	11/16/22 18:26	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	11/11/22 18:10	11/16/22 18:26	1
Toluene-d8 (Surr)	103		75 - 124	11/11/22 18:10	11/16/22 18:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B01 (7-13)

Lab Sample ID: 500-225350-2

Date Collected: 11/11/22 11:05

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
2-Methylnaphthalene	<0.076		0.076	0.0070	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
Pyrene	<0.038	+	0.038	0.0075	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	11/21/22 08:59	11/28/22 13:59	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B01 (7-13)

Lab Sample ID: 500-225350-2

Date Collected: 11/11/22 11:05

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	✳	11/21/22 08:59	11/28/22 13:59	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	✳	11/21/22 08:59	11/28/22 13:59	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	✳	11/21/22 08:59	11/28/22 13:59	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	✳	11/21/22 08:59	11/28/22 13:59	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	✳	11/21/22 08:59	11/28/22 13:59	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	✳	11/21/22 08:59	11/28/22 13:59	1
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	✳	11/21/22 08:59	11/28/22 13:59	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	✳	11/21/22 08:59	11/28/22 13:59	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	✳	11/21/22 08:59	11/28/22 13:59	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	✳	11/21/22 08:59	11/28/22 13:59	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	✳	11/21/22 08:59	11/28/22 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	114		31 - 166	11/21/22 08:59	11/28/22 13:59	1
Phenol-d5	95		30 - 153	11/21/22 08:59	11/28/22 13:59	1
Nitrobenzene-d5 (Surr)	96		37 - 147	11/21/22 08:59	11/28/22 13:59	1
2-Fluorobiphenyl (Surr)	93		43 - 145	11/21/22 08:59	11/28/22 13:59	1
2,4,6-Tribromophenol	66		31 - 143	11/21/22 08:59	11/28/22 13:59	1
Terphenyl-d14 (Surr)	162	S1+	42 - 157	11/21/22 08:59	11/28/22 13:59	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J F1	1.1	0.21	mg/Kg	✳	11/22/22 17:12	11/28/22 17:27	1
Arsenic	11	F1	0.54	0.18	mg/Kg	✳	11/22/22 17:12	11/28/22 17:27	1
Barium	19		0.54	0.062	mg/Kg	✳	11/22/22 17:12	11/28/22 17:27	1
Beryllium	0.63		0.22	0.050	mg/Kg	✳	11/22/22 17:12	11/28/22 17:27	1
Boron	9.7		2.7	0.25	mg/Kg	✳	11/22/22 17:12	11/28/22 17:27	1
Cadmium	0.28		0.11	0.019	mg/Kg	✳	11/22/22 17:12	11/28/22 17:27	1
Calcium	43000	B	54	9.2	mg/Kg	✳	11/22/22 17:12	11/29/22 10:22	5
Chromium	11		0.54	0.27	mg/Kg	✳	11/22/22 17:12	11/28/22 17:27	1
Cobalt	11		0.27	0.071	mg/Kg	✳	11/22/22 17:12	11/28/22 17:27	1
Copper	30		0.54	0.15	mg/Kg	✳	11/22/22 17:12	11/28/22 17:27	1
Iron	18000	B	11	5.6	mg/Kg	✳	11/22/22 17:12	11/28/22 17:27	1
Lead	18		0.27	0.12	mg/Kg	✳	11/22/22 17:12	11/28/22 17:27	1
Magnesium	24000	B	5.4	2.7	mg/Kg	✳	11/22/22 17:12	11/28/22 17:27	1
Manganese	350		0.54	0.078	mg/Kg	✳	11/22/22 17:12	11/28/22 17:27	1
Nickel	26		0.54	0.16	mg/Kg	✳	11/22/22 17:12	11/28/22 17:27	1
Potassium	1900	F1	27	9.6	mg/Kg	✳	11/22/22 17:12	11/28/22 17:27	1
Selenium	<0.54	F1	0.54	0.32	mg/Kg	✳	11/22/22 17:12	11/28/22 17:27	1
Silver	0.31	B	0.27	0.070	mg/Kg	✳	11/22/22 17:12	11/28/22 17:27	1
Sodium	140		54	8.0	mg/Kg	✳	11/22/22 17:12	11/28/22 17:27	1
Thallium	0.33	J	0.54	0.27	mg/Kg	✳	11/22/22 17:12	11/28/22 17:27	1
Vanadium	14		0.27	0.064	mg/Kg	✳	11/22/22 17:12	11/28/22 17:27	1
Zinc	90		1.1	0.47	mg/Kg	✳	11/22/22 17:12	11/28/22 17:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.19	J	0.50	0.050	mg/L		11/18/22 19:06	11/21/22 21:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/18/22 19:06	11/21/22 21:00	1
Boron	0.099	J	0.50	0.050	mg/L		11/18/22 19:06	11/21/22 21:00	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B01 (7-13)

Lab Sample ID: 500-225350-2

Date Collected: 11/11/22 11:05

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/18/22 19:06	11/21/22 21:00	1
Chromium	<0.025		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 21:00	1
Cobalt	<0.025		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 21:00	1
Iron	<0.40		0.40	0.20	mg/L		11/18/22 19:06	11/21/22 21:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/18/22 19:06	11/21/22 21:00	1
Manganese	1.4		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 21:00	1
Nickel	<0.025		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 21:00	1
Selenium	<0.050		0.050	0.020	mg/L		11/18/22 19:06	11/21/22 21:00	1
Silver	<0.025		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 21:00	1
Zinc	0.029	J	0.50	0.020	mg/L		11/18/22 19:06	11/21/22 21:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.54		0.025	0.010	mg/L		11/18/22 19:12	11/22/22 18:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/18/22 19:06	11/28/22 22:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/18/22 19:06	11/28/22 22:20	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/21/22 10:20	11/22/22 10:07	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.018	0.0061	mg/Kg	☆	11/23/22 15:45	11/28/22 07:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.0		0.2	0.2	SU			11/17/22 17:10	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B03 (0-6)

Lab Sample ID: 500-225350-5

Date Collected: 11/11/22 10:10

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022		0.022	0.0094	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
Benzene	<0.0022		0.0022	0.00055	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
Bromodichloromethane	<0.0022		0.0022	0.00044	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
Bromoform	<0.0022		0.0022	0.00063	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
Bromomethane	<0.0054		0.0054	0.0020	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
2-Butanone (MEK)	<0.0054		0.0054	0.0024	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
Carbon disulfide	<0.0054		0.0054	0.0011	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
Carbon tetrachloride	<0.0022		0.0022	0.00063	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
Chlorobenzene	<0.0022		0.0022	0.00080	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
Chloroethane	<0.0054		0.0054	0.0016	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
Chloroform	<0.0022		0.0022	0.00075	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
Chloromethane	<0.0054		0.0054	0.0022	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00060	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00065	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
Dibromochloromethane	<0.0022		0.0022	0.00071	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
1,1-Dichloroethane	<0.0022		0.0022	0.00074	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
1,2-Dichloroethane	<0.0054		0.0054	0.0017	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
1,1-Dichloroethene	<0.0022		0.0022	0.00074	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
1,2-Dichloropropane	<0.0022		0.0022	0.00056	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
1,3-Dichloropropane, Total	<0.0022		0.0022	0.00076	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
Ethylbenzene	<0.0022		0.0022	0.0010	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
2-Hexanone	<0.0054		0.0054	0.0017	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
Methylene Chloride	0.0024	J B	0.0054	0.0021	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0016	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00063	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
Styrene	<0.0022		0.0022	0.00065	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.00069	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
Tetrachloroethene	<0.0022		0.0022	0.00074	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
Toluene	<0.0022		0.0022	0.00055	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00096	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.00076	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
1,1,1-Trichloroethane	<0.0022		0.0022	0.00073	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00093	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
Trichloroethene	<0.0022		0.0022	0.00073	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
Vinyl acetate	<0.0054		0.0054	0.0019	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
Vinyl chloride	<0.0022		0.0022	0.00096	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1
Xylenes, Total	<0.0043		0.0043	0.00069	mg/Kg	☼	11/11/22 18:10	11/16/22 17:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		75 - 131	11/11/22 18:10	11/16/22 17:53	1
Dibromofluoromethane	86		75 - 126	11/11/22 18:10	11/16/22 17:53	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	11/11/22 18:10	11/16/22 17:53	1
Toluene-d8 (Surr)	92		75 - 124	11/11/22 18:10	11/16/22 17:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B03 (0-6)

Lab Sample ID: 500-225350-5

Date Collected: 11/11/22 10:10

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
2-Methylnaphthalene	0.032	J	0.080	0.0073	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Acenaphthylene	<0.040		0.040	0.0052	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Phenanthrene	0.019	J	0.040	0.0055	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Anthracene	0.015	J	0.040	0.0066	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Fluoranthene	0.025	J	0.040	0.0074	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Pyrene	0.015	J**	0.040	0.0079	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Benzo[a]anthracene	0.0094	J	0.040	0.0054	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B03 (0-6)

Lab Sample ID: 500-225350-5

Date Collected: 11/11/22 10:10

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.017	J	0.040	0.011	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Benzo[b]fluoranthene	0.023	J	0.040	0.0086	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Benzo[a]pyrene	0.014	J	0.040	0.0077	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Indeno[1,2,3-cd]pyrene	0.011	J	0.040	0.010	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Benzo[g,h,i]perylene	0.014	J	0.040	0.013	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	11/21/22 08:59	11/28/22 15:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	103		31 - 166				11/21/22 08:59	11/28/22 15:10	1
Phenol-d5	83		30 - 153				11/21/22 08:59	11/28/22 15:10	1
Nitrobenzene-d5 (Surr)	77		37 - 147				11/21/22 08:59	11/28/22 15:10	1
2-Fluorobiphenyl (Surr)	76		43 - 145				11/21/22 08:59	11/28/22 15:10	1
2,4,6-Tribromophenol	75		31 - 143				11/21/22 08:59	11/28/22 15:10	1
Terphenyl-d14 (Surr)	142		42 - 157				11/21/22 08:59	11/28/22 15:10	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J	1.1	0.22	mg/Kg	☼	11/22/22 17:12	11/28/22 17:55	1
Arsenic	9.3		0.57	0.19	mg/Kg	☼	11/22/22 17:12	11/28/22 17:55	1
Barium	56		2.8	0.32	mg/Kg	☼	11/22/22 17:12	11/29/22 10:44	5
Beryllium	0.75		0.23	0.053	mg/Kg	☼	11/22/22 17:12	11/28/22 17:55	1
Boron	12		2.8	0.26	mg/Kg	☼	11/22/22 17:12	11/28/22 17:55	1
Cadmium	0.27		0.11	0.020	mg/Kg	☼	11/22/22 17:12	11/28/22 17:55	1
Calcium	81000	B	57	9.6	mg/Kg	☼	11/22/22 17:12	11/29/22 10:44	5
Chromium	13		0.57	0.28	mg/Kg	☼	11/22/22 17:12	11/28/22 17:55	1
Cobalt	10		0.28	0.074	mg/Kg	☼	11/22/22 17:12	11/28/22 17:55	1
Copper	20		0.57	0.16	mg/Kg	☼	11/22/22 17:12	11/28/22 17:55	1
Iron	22000	B	57	30	mg/Kg	☼	11/22/22 17:12	11/29/22 10:44	5
Lead	68		0.28	0.13	mg/Kg	☼	11/22/22 17:12	11/28/22 17:55	1
Magnesium	49000	B	28	14	mg/Kg	☼	11/22/22 17:12	11/29/22 10:44	5
Manganese	560		0.57	0.082	mg/Kg	☼	11/22/22 17:12	11/28/22 17:55	1
Nickel	23		0.57	0.17	mg/Kg	☼	11/22/22 17:12	11/28/22 17:55	1
Potassium	2100		28	10	mg/Kg	☼	11/22/22 17:12	11/28/22 17:55	1
Selenium	<0.57		0.57	0.33	mg/Kg	☼	11/22/22 17:12	11/28/22 17:55	1
Silver	0.30	B	0.28	0.073	mg/Kg	☼	11/22/22 17:12	11/28/22 17:55	1
Sodium	770		57	8.4	mg/Kg	☼	11/22/22 17:12	11/28/22 17:55	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	11/22/22 17:12	11/28/22 17:55	1
Vanadium	18		0.28	0.067	mg/Kg	☼	11/22/22 17:12	11/28/22 17:55	1
Zinc	58		1.1	0.50	mg/Kg	☼	11/22/22 17:12	11/28/22 17:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.53		0.50	0.050	mg/L		11/18/22 19:06	11/21/22 21:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/18/22 19:06	11/21/22 21:10	1
Boron	0.070	J	0.50	0.050	mg/L		11/18/22 19:06	11/21/22 21:10	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B03 (0-6)

Lab Sample ID: 500-225350-5

Date Collected: 11/11/22 10:10

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/18/22 19:06	11/21/22 21:10	1
Chromium	<0.025		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 21:10	1
Cobalt	<0.025		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 21:10	1
Iron	0.29	J	0.40	0.20	mg/L		11/18/22 19:06	11/21/22 21:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/18/22 19:06	11/21/22 21:10	1
Manganese	1.6		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 21:10	1
Nickel	0.011	J	0.025	0.010	mg/L		11/18/22 19:06	11/21/22 21:10	1
Selenium	<0.050		0.050	0.020	mg/L		11/18/22 19:06	11/21/22 21:10	1
Silver	<0.025		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 21:10	1
Zinc	<0.50		0.50	0.020	mg/L		11/18/22 19:06	11/21/22 21:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.2		0.025	0.010	mg/L		11/18/22 19:12	11/22/22 19:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/18/22 19:06	11/28/22 22:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/18/22 19:06	11/28/22 22:30	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/21/22 10:20	11/22/22 10:13	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.018	0.0059	mg/Kg	☆	11/23/22 15:45	11/28/22 07:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.1		0.2	0.2	SU			11/17/22 17:20	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B04 (0-5)

Lab Sample ID: 500-225350-6

Date Collected: 11/11/22 09:55

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.044		0.025	0.011	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
Benzene	<0.0025		0.0025	0.00063	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
Bromodichloromethane	<0.0025		0.0025	0.00050	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
Bromoform	<0.0025		0.0025	0.00072	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
Bromomethane	<0.0061		0.0061	0.0023	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
2-Butanone (MEK)	0.011		0.0061	0.0027	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
Carbon disulfide	<0.0061		0.0061	0.0013	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
Carbon tetrachloride	<0.0025		0.0025	0.00071	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
Chlorobenzene	<0.0025		0.0025	0.00091	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
Chloroethane	<0.0061		0.0061	0.0018	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
Chloroform	<0.0025		0.0025	0.00085	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
Chloromethane	<0.0061		0.0061	0.0025	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
cis-1,2-Dichloroethene	<0.0025		0.0025	0.00069	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
cis-1,3-Dichloropropene	<0.0025		0.0025	0.00074	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
Dibromochloromethane	<0.0025		0.0025	0.00080	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
1,1-Dichloroethane	<0.0025		0.0025	0.00084	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
1,2-Dichloroethane	<0.0061		0.0061	0.0019	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
1,1-Dichloroethene	<0.0025		0.0025	0.00085	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
1,2-Dichloropropane	<0.0025		0.0025	0.00064	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
1,3-Dichloropropane, Total	<0.0025		0.0025	0.00086	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
Ethylbenzene	<0.0025		0.0025	0.0012	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
2-Hexanone	<0.0061		0.0061	0.0019	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
Methylene Chloride	<0.0061		0.0061	0.0024	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
4-Methyl-2-pentanone (MIBK)	<0.0061		0.0061	0.0018	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
Methyl tert-butyl ether	<0.0025		0.0025	0.00072	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
Styrene	<0.0025		0.0025	0.00074	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
1,1,2,2-Tetrachloroethane	<0.0025		0.0025	0.00079	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
Tetrachloroethene	<0.0025		0.0025	0.00084	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
Toluene	0.0010 J		0.0025	0.00062	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
trans-1,2-Dichloroethene	<0.0025		0.0025	0.0011	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
trans-1,3-Dichloropropene	<0.0025		0.0025	0.00086	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
1,1,1-Trichloroethane	<0.0025		0.0025	0.00082	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
1,1,2-Trichloroethane	<0.0025		0.0025	0.0011	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
Trichloroethene	<0.0025		0.0025	0.00083	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
Vinyl acetate	<0.0061		0.0061	0.0021	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
Vinyl chloride	<0.0025		0.0025	0.0011	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1
Xylenes, Total	<0.0049		0.0049	0.00079	mg/Kg	☼	11/11/22 18:10	11/16/22 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		75 - 131	11/11/22 18:10	11/16/22 18:18	1
Dibromofluoromethane	88		75 - 126	11/11/22 18:10	11/16/22 18:18	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	11/11/22 18:10	11/16/22 18:18	1
Toluene-d8 (Surr)	91		75 - 124	11/11/22 18:10	11/16/22 18:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B04 (0-5)

Lab Sample ID: 500-225350-6

Date Collected: 11/11/22 09:55

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Naphthalene	0.0062	J	0.039	0.0061	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
2-Methylnaphthalene	0.033	J	0.080	0.0073	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Acenaphthylene	0.013	J	0.039	0.0052	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Acenaphthene	0.031	J	0.039	0.0071	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Dibenzofuran	0.056	J	0.20	0.046	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Fluorene	0.039		0.039	0.0056	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Phenanthrene	0.044		0.039	0.0055	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Anthracene	0.018	J	0.039	0.0066	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Fluoranthene	0.085		0.039	0.0073	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Pyrene	0.063	+	0.039	0.0079	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Benzo[a]anthracene	0.033	J	0.039	0.0053	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B04 (0-5)

Lab Sample ID: 500-225350-6

Date Collected: 11/11/22 09:55

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.051		0.039	0.011	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Benzo[b]fluoranthene	0.073		0.039	0.0085	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Benzo[k]fluoranthene	0.023 J		0.039	0.012	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Benzo[a]pyrene	0.046		0.039	0.0077	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Indeno[1,2,3-cd]pyrene	0.024 J		0.039	0.010	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Dibenz(a,h)anthracene	0.0091 J		0.039	0.0076	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Benzo[g,h,i]perylene	0.028 J		0.039	0.013	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	11/21/22 08:59	11/28/22 15:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	106		31 - 166				11/21/22 08:59	11/28/22 15:33	1
Phenol-d5	89		30 - 153				11/21/22 08:59	11/28/22 15:33	1
Nitrobenzene-d5 (Surr)	78		37 - 147				11/21/22 08:59	11/28/22 15:33	1
2-Fluorobiphenyl (Surr)	75		43 - 145				11/21/22 08:59	11/28/22 15:33	1
2,4,6-Tribromophenol	78		31 - 143				11/21/22 08:59	11/28/22 15:33	1
Terphenyl-d14 (Surr)	122		42 - 157				11/21/22 08:59	11/28/22 15:33	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.32 J		1.2	0.23	mg/Kg	☼	11/22/22 17:12	11/28/22 17:58	1
Arsenic	9.9		0.58	0.20	mg/Kg	☼	11/22/22 17:12	11/28/22 17:58	1
Barium	65		0.58	0.066	mg/Kg	☼	11/22/22 17:12	11/28/22 17:58	1
Beryllium	0.86		0.23	0.054	mg/Kg	☼	11/22/22 17:12	11/28/22 17:58	1
Boron	9.5		2.9	0.27	mg/Kg	☼	11/22/22 17:12	11/28/22 17:58	1
Cadmium	0.23		0.12	0.021	mg/Kg	☼	11/22/22 17:12	11/28/22 17:58	1
Calcium	26000 B		12	2.0	mg/Kg	☼	11/22/22 17:12	11/28/22 17:58	1
Chromium	16		0.58	0.29	mg/Kg	☼	11/22/22 17:12	11/28/22 17:58	1
Cobalt	13		0.29	0.076	mg/Kg	☼	11/22/22 17:12	11/28/22 17:58	1
Copper	24		0.58	0.16	mg/Kg	☼	11/22/22 17:12	11/28/22 17:58	1
Iron	21000 B		12	6.0	mg/Kg	☼	11/22/22 17:12	11/28/22 17:58	1
Lead	31		0.29	0.13	mg/Kg	☼	11/22/22 17:12	11/28/22 17:58	1
Magnesium	16000 B		5.8	2.9	mg/Kg	☼	11/22/22 17:12	11/28/22 17:58	1
Manganese	590		0.58	0.084	mg/Kg	☼	11/22/22 17:12	11/28/22 17:58	1
Nickel	29		0.58	0.17	mg/Kg	☼	11/22/22 17:12	11/28/22 17:58	1
Potassium	2300		29	10	mg/Kg	☼	11/22/22 17:12	11/28/22 17:58	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	11/22/22 17:12	11/28/22 17:58	1
Silver	0.38 B		0.29	0.075	mg/Kg	☼	11/22/22 17:12	11/28/22 17:58	1
Sodium	1000		58	8.6	mg/Kg	☼	11/22/22 17:12	11/28/22 17:58	1
Thallium	0.43 J		0.58	0.29	mg/Kg	☼	11/22/22 17:12	11/28/22 17:58	1
Vanadium	23		0.29	0.068	mg/Kg	☼	11/22/22 17:12	11/28/22 17:58	1
Zinc	69		1.2	0.51	mg/Kg	☼	11/22/22 17:12	11/28/22 17:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.69		0.50	0.050	mg/L		11/18/22 19:06	11/21/22 21:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/18/22 19:06	11/21/22 21:13	1
Boron	0.094 J		0.50	0.050	mg/L		11/18/22 19:06	11/21/22 21:13	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B04 (0-5)

Lab Sample ID: 500-225350-6

Date Collected: 11/11/22 09:55

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0028	J	0.0050	0.0020	mg/L		11/18/22 19:06	11/21/22 21:13	1
Chromium	<0.025		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 21:13	1
Cobalt	0.070		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 21:13	1
Iron	1.6		0.40	0.20	mg/L		11/18/22 19:06	11/21/22 21:13	1
Lead	0.064		0.0075	0.0075	mg/L		11/18/22 19:06	11/21/22 21:13	1
Manganese	14		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 21:13	1
Nickel	0.046		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 21:13	1
Selenium	<0.050		0.050	0.020	mg/L		11/18/22 19:06	11/21/22 21:13	1
Silver	<0.025		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 21:13	1
Zinc	0.14	J	0.50	0.020	mg/L		11/18/22 19:06	11/21/22 21:13	1

Method: SW846 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.56		0.0075	0.0075	mg/L		11/18/22 19:12	11/22/22 19:09	1
Manganese	1.3		0.025	0.010	mg/L		11/18/22 19:12	11/22/22 19:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/18/22 19:06	11/28/22 22:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/18/22 19:06	11/28/22 22:33	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/21/22 10:20	11/22/22 10:15	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.018	0.0060	mg/Kg	☼	11/23/22 15:45	11/28/22 08:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.9		0.2	0.2	SU			11/17/22 17:22	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B04 (5-9)

Lab Sample ID: 500-225350-7

Date Collected: 11/11/22 10:00

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
Chlorobenzene	<0.0020		0.0020	0.00073	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
Ethylbenzene	<0.0020		0.0020	0.00095	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
Methylene Chloride	0.0035	J B	0.0050	0.0020	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00088	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00085	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
Trichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
Vinyl chloride	<0.0020		0.0020	0.00088	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg	☼	11/11/22 18:10	11/16/22 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 131	11/11/22 18:10	11/16/22 18:44	1
Dibromofluoromethane	91		75 - 126	11/11/22 18:10	11/16/22 18:44	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	11/11/22 18:10	11/16/22 18:44	1
Toluene-d8 (Surr)	88		75 - 124	11/11/22 18:10	11/16/22 18:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.091	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B04 (5-9)

Lab Sample ID: 500-225350-7

Date Collected: 11/11/22 10:00

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
2-Methylnaphthalene	<0.083		0.083	0.0075	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Phenanthrene	<0.041		0.041	0.0057	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Pyrene	<0.041	+	0.041	0.0082	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B04 (5-9)

Lab Sample ID: 500-225350-7

Date Collected: 11/11/22 10:00

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Benzo[a]pyrene	<0.041		0.041	0.0079	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	11/21/22 08:59	11/28/22 15:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	94		31 - 166				11/21/22 08:59	11/28/22 15:57	1
Phenol-d5	75		30 - 153				11/21/22 08:59	11/28/22 15:57	1
Nitrobenzene-d5 (Surr)	66		37 - 147				11/21/22 08:59	11/28/22 15:57	1
2-Fluorobiphenyl (Surr)	56		43 - 145				11/21/22 08:59	11/28/22 15:57	1
2,4,6-Tribromophenol	61		31 - 143				11/21/22 08:59	11/28/22 15:57	1
Terphenyl-d14 (Surr)	115		42 - 157				11/21/22 08:59	11/28/22 15:57	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J	1.2	0.24	mg/Kg	☼	11/22/22 17:12	11/28/22 18:01	1
Arsenic	9.5		0.62	0.21	mg/Kg	☼	11/22/22 17:12	11/28/22 18:01	1
Barium	81		0.62	0.070	mg/Kg	☼	11/22/22 17:12	11/28/22 18:01	1
Beryllium	0.86		0.25	0.058	mg/Kg	☼	11/22/22 17:12	11/28/22 18:01	1
Boron	4.3		3.1	0.29	mg/Kg	☼	11/22/22 17:12	11/28/22 18:01	1
Cadmium	0.10	J	0.12	0.022	mg/Kg	☼	11/22/22 17:12	11/28/22 18:01	1
Calcium	1600	B	12	2.1	mg/Kg	☼	11/22/22 17:12	11/28/22 18:01	1
Chromium	17		0.62	0.31	mg/Kg	☼	11/22/22 17:12	11/28/22 18:01	1
Cobalt	13		0.31	0.081	mg/Kg	☼	11/22/22 17:12	11/28/22 18:01	1
Copper	22		0.62	0.17	mg/Kg	☼	11/22/22 17:12	11/28/22 18:01	1
Iron	21000	B	12	6.4	mg/Kg	☼	11/22/22 17:12	11/28/22 18:01	1
Lead	18		0.31	0.14	mg/Kg	☼	11/22/22 17:12	11/28/22 18:01	1
Magnesium	3200	B	6.2	3.1	mg/Kg	☼	11/22/22 17:12	11/28/22 18:01	1
Manganese	550		0.62	0.089	mg/Kg	☼	11/22/22 17:12	11/28/22 18:01	1
Nickel	28		0.62	0.18	mg/Kg	☼	11/22/22 17:12	11/28/22 18:01	1
Potassium	1300		31	11	mg/Kg	☼	11/22/22 17:12	11/28/22 18:01	1
Selenium	0.38	J	0.62	0.36	mg/Kg	☼	11/22/22 17:12	11/28/22 18:01	1
Silver	0.52	B	0.31	0.080	mg/Kg	☼	11/22/22 17:12	11/28/22 18:01	1
Sodium	770		62	9.1	mg/Kg	☼	11/22/22 17:12	11/28/22 18:01	1
Thallium	<0.62		0.62	0.31	mg/Kg	☼	11/22/22 17:12	11/28/22 18:01	1
Vanadium	30		0.31	0.073	mg/Kg	☼	11/22/22 17:12	11/28/22 18:01	1
Zinc	63		1.2	0.54	mg/Kg	☼	11/22/22 17:12	11/28/22 18:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.45	J	0.50	0.050	mg/L		11/18/22 19:06	11/21/22 21:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/18/22 19:06	11/21/22 21:17	1
Boron	0.054	J	0.50	0.050	mg/L		11/18/22 19:06	11/21/22 21:17	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B04 (5-9)

Lab Sample ID: 500-225350-7

Date Collected: 11/11/22 10:00

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/18/22 19:06	11/21/22 21:17	1
Chromium	<0.025		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 21:17	1
Cobalt	<0.025		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 21:17	1
Iron	<0.40		0.40	0.20	mg/L		11/18/22 19:06	11/21/22 21:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/18/22 19:06	11/21/22 21:17	1
Manganese	0.026		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 21:17	1
Nickel	<0.025		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 21:17	1
Selenium	<0.050		0.050	0.020	mg/L		11/18/22 19:06	11/21/22 21:17	1
Silver	<0.025		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 21:17	1
Zinc	<0.50		0.50	0.020	mg/L		11/18/22 19:06	11/21/22 21:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/18/22 19:06	11/28/22 22:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/18/22 19:06	11/28/22 22:37	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/21/22 10:20	11/22/22 10:17	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.019	0.0063	mg/Kg	☼	11/23/22 15:45	11/28/22 08:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.8		0.2	0.2	SU			11/17/22 17:25	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B06 (0-5)

Lab Sample ID: 500-225350-10

Date Collected: 11/11/22 09:10

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022		0.022	0.0095	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
Benzene	<0.0022		0.0022	0.00056	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
Bromodichloromethane	<0.0022		0.0022	0.00045	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
Bromoform	<0.0022		0.0022	0.00064	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
Bromomethane	<0.0055		0.0055	0.0021	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
2-Butanone (MEK)	<0.0055		0.0055	0.0024	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
Carbon disulfide	<0.0055		0.0055	0.0011	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
Carbon tetrachloride	<0.0022		0.0022	0.00063	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
Chlorobenzene	<0.0022		0.0022	0.00081	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
Chloroethane	<0.0055		0.0055	0.0016	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
Chloroform	<0.0022		0.0022	0.00076	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
Chloromethane	<0.0055		0.0055	0.0022	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00061	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00066	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
Dibromochloromethane	<0.0022		0.0022	0.00072	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
1,1-Dichloroethane	<0.0022		0.0022	0.00075	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
1,2-Dichloroethane	<0.0055		0.0055	0.0017	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
1,1-Dichloroethene	<0.0022		0.0022	0.00075	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
1,2-Dichloropropane	<0.0022		0.0022	0.00057	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
1,3-Dichloropropane, Total	<0.0022		0.0022	0.00077	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
Ethylbenzene	<0.0022		0.0022	0.0010	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
2-Hexanone	<0.0055		0.0055	0.0017	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
Methylene Chloride	<0.0055		0.0055	0.0022	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0016	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00064	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
Styrene	<0.0022		0.0022	0.00066	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.00070	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
Tetrachloroethene	<0.0022		0.0022	0.00074	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
Toluene	<0.0022		0.0022	0.00055	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00097	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.00077	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
1,1,1-Trichloroethane	<0.0022		0.0022	0.00073	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00094	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
Trichloroethene	<0.0022		0.0022	0.00074	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
Vinyl acetate	<0.0055		0.0055	0.0019	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
Vinyl chloride	<0.0022		0.0022	0.00097	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1
Xylenes, Total	<0.0044		0.0044	0.00070	mg/Kg	☼	11/11/22 18:10	11/17/22 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		75 - 131	11/11/22 18:10	11/17/22 18:43	1
Dibromofluoromethane	118		75 - 126	11/11/22 18:10	11/17/22 18:43	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	11/11/22 18:10	11/17/22 18:43	1
Toluene-d8 (Surr)	104		75 - 124	11/11/22 18:10	11/17/22 18:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B06 (0-5)

Lab Sample ID: 500-225350-10

Date Collected: 11/11/22 09:10

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Phenanthrene	0.015	J	0.039	0.0055	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Fluoranthene	0.013	J	0.039	0.0073	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Pyrene	<0.039	*+	0.039	0.0078	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B06 (0-5)

Lab Sample ID: 500-225350-10

Date Collected: 11/11/22 09:10

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	11/21/22 08:59	11/28/22 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	104		31 - 166	11/21/22 08:59	11/28/22 17:08	1
Phenol-d5	77		30 - 153	11/21/22 08:59	11/28/22 17:08	1
Nitrobenzene-d5 (Surr)	79		37 - 147	11/21/22 08:59	11/28/22 17:08	1
2-Fluorobiphenyl (Surr)	79		43 - 145	11/21/22 08:59	11/28/22 17:08	1
2,4,6-Tribromophenol	69		31 - 143	11/21/22 08:59	11/28/22 17:08	1
Terphenyl-d14 (Surr)	152		42 - 157	11/21/22 08:59	11/28/22 17:08	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.36	J	1.2	0.23	mg/Kg	☼	11/22/22 17:12	11/28/22 18:11	1
Arsenic	10		0.58	0.20	mg/Kg	☼	11/22/22 17:12	11/28/22 18:11	1
Barium	77		0.58	0.067	mg/Kg	☼	11/22/22 17:12	11/28/22 18:11	1
Beryllium	0.94		0.23	0.055	mg/Kg	☼	11/22/22 17:12	11/28/22 18:11	1
Boron	6.4		2.9	0.27	mg/Kg	☼	11/22/22 17:12	11/28/22 18:11	1
Cadmium	0.16		0.12	0.021	mg/Kg	☼	11/22/22 17:12	11/28/22 18:11	1
Calcium	2500	B	12	2.0	mg/Kg	☼	11/22/22 17:12	11/28/22 18:11	1
Chromium	20		0.58	0.29	mg/Kg	☼	11/22/22 17:12	11/28/22 18:11	1
Cobalt	17		0.29	0.076	mg/Kg	☼	11/22/22 17:12	11/28/22 18:11	1
Copper	23		0.58	0.16	mg/Kg	☼	11/22/22 17:12	11/28/22 18:11	1
Iron	23000	B	12	6.1	mg/Kg	☼	11/22/22 17:12	11/28/22 18:11	1
Lead	23		0.29	0.13	mg/Kg	☼	11/22/22 17:12	11/28/22 18:11	1
Magnesium	3700	B	5.8	2.9	mg/Kg	☼	11/22/22 17:12	11/28/22 18:11	1
Manganese	580		0.58	0.085	mg/Kg	☼	11/22/22 17:12	11/28/22 18:11	1
Nickel	30		0.58	0.17	mg/Kg	☼	11/22/22 17:12	11/28/22 18:11	1
Potassium	2100		29	10	mg/Kg	☼	11/22/22 17:12	11/28/22 18:11	1
Selenium	0.35	J	0.58	0.34	mg/Kg	☼	11/22/22 17:12	11/28/22 18:11	1
Silver	0.39	B	0.29	0.075	mg/Kg	☼	11/22/22 17:12	11/28/22 18:11	1
Sodium	710		58	8.6	mg/Kg	☼	11/22/22 17:12	11/28/22 18:11	1
Thallium	0.36	J	0.58	0.29	mg/Kg	☼	11/22/22 17:12	11/28/22 18:11	1
Vanadium	28		0.29	0.069	mg/Kg	☼	11/22/22 17:12	11/28/22 18:11	1
Zinc	67		1.2	0.51	mg/Kg	☼	11/22/22 17:12	11/28/22 18:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.44	J	0.50	0.050	mg/L		11/18/22 19:06	11/21/22 21:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/18/22 19:06	11/21/22 21:36	1
Boron	0.086	J	0.50	0.050	mg/L		11/18/22 19:06	11/21/22 21:36	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B06 (0-5)

Lab Sample ID: 500-225350-10

Date Collected: 11/11/22 09:10

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/18/22 19:06	11/21/22 21:36	1
Chromium	<0.025		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 21:36	1
Cobalt	<0.025		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 21:36	1
Iron	<0.40		0.40	0.20	mg/L		11/18/22 19:06	11/21/22 21:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/18/22 19:06	11/21/22 21:36	1
Manganese	1.1		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 21:36	1
Nickel	<0.025		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 21:36	1
Selenium	<0.050		0.050	0.020	mg/L		11/18/22 19:06	11/21/22 21:36	1
Silver	<0.025		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 21:36	1
Zinc	<0.50		0.50	0.020	mg/L		11/18/22 19:06	11/21/22 21:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.79		0.025	0.010	mg/L		11/18/22 19:12	11/22/22 19:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/18/22 19:06	11/28/22 22:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/18/22 19:06	11/28/22 22:54	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/21/22 10:20	11/22/22 10:24	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.018	0.0062	mg/Kg	☆	11/23/22 15:45	11/28/22 08:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.7		0.2	0.2	SU			11/17/22 17:32	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B06 (5-9)

Lab Sample ID: 500-225350-11

Date Collected: 11/11/22 09:05

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0091	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
Benzene	<0.0021		0.0021	0.00053	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
Bromodichloromethane	<0.0021		0.0021	0.00042	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
Bromoform	<0.0021		0.0021	0.00061	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
Bromomethane	<0.0052		0.0052	0.0020	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
2-Butanone (MEK)	<0.0052		0.0052	0.0023	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
Carbon disulfide	<0.0052		0.0052	0.0011	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
Carbon tetrachloride	<0.0021		0.0021	0.00060	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
Chlorobenzene	<0.0021		0.0021	0.00077	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
Chloroethane	<0.0052		0.0052	0.0015	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
Chloroform	<0.0021		0.0021	0.00072	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
Chloromethane	<0.0052		0.0052	0.0021	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00058	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00063	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
Dibromochloromethane	<0.0021		0.0021	0.00068	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
1,1-Dichloroethane	<0.0021		0.0021	0.00071	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
1,2-Dichloroethane	<0.0052		0.0052	0.0016	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
1,1-Dichloroethene	<0.0021		0.0021	0.00072	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
1,2-Dichloropropane	<0.0021		0.0021	0.00054	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
1,3-Dichloropropane, Total	<0.0021		0.0021	0.00073	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
Methylene Chloride	0.0034	J	0.0052	0.0021	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0015	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00061	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
Styrene	<0.0021		0.0021	0.00063	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00067	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
Tetrachloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
Toluene	<0.0021		0.0021	0.00053	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00092	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00073	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00070	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00089	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
Trichloroethene	<0.0021		0.0021	0.00070	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
Vinyl acetate	<0.0052		0.0052	0.0018	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
Vinyl chloride	<0.0021		0.0021	0.00092	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1
Xylenes, Total	<0.0042		0.0042	0.00067	mg/Kg	☼	11/11/22 18:10	11/17/22 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		75 - 131	11/11/22 18:10	11/17/22 19:07	1
Dibromofluoromethane	116		75 - 126	11/11/22 18:10	11/17/22 19:07	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134	11/11/22 18:10	11/17/22 19:07	1
Toluene-d8 (Surr)	106		75 - 124	11/11/22 18:10	11/17/22 19:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B06 (5-9)

Lab Sample ID: 500-225350-11

Date Collected: 11/11/22 09:05

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.049	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
2-Methylnaphthalene	<0.082		0.082	0.0074	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
4-Nitrophenol	<0.82		0.82	0.38	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Pyrene	<0.040	*	0.040	0.0080	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B06 (5-9)

Lab Sample ID: 500-225350-11

Date Collected: 11/11/22 09:05

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	11/21/22 08:59	11/28/22 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	82		31 - 166	11/21/22 08:59	11/28/22 17:31	1
Phenol-d5	58		30 - 153	11/21/22 08:59	11/28/22 17:31	1
Nitrobenzene-d5 (Surr)	50		37 - 147	11/21/22 08:59	11/28/22 17:31	1
2-Fluorobiphenyl (Surr)	45		43 - 145	11/21/22 08:59	11/28/22 17:31	1
2,4,6-Tribromophenol	60		31 - 143	11/21/22 08:59	11/28/22 17:31	1
Terphenyl-d14 (Surr)	121		42 - 157	11/21/22 08:59	11/28/22 17:31	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J	1.3	0.25	mg/Kg	☼	11/22/22 17:12	11/28/22 18:14	1
Arsenic	7.1		0.63	0.22	mg/Kg	☼	11/22/22 17:12	11/28/22 18:14	1
Barium	95		0.63	0.072	mg/Kg	☼	11/22/22 17:12	11/28/22 18:14	1
Beryllium	0.93		0.25	0.059	mg/Kg	☼	11/22/22 17:12	11/28/22 18:14	1
Boron	4.0		3.2	0.29	mg/Kg	☼	11/22/22 17:12	11/28/22 18:14	1
Cadmium	0.25		0.13	0.023	mg/Kg	☼	11/22/22 17:12	11/28/22 18:14	1
Calcium	2800	B	13	2.1	mg/Kg	☼	11/22/22 17:12	11/28/22 18:14	1
Chromium	20		0.63	0.31	mg/Kg	☼	11/22/22 17:12	11/28/22 18:14	1
Cobalt	14		0.32	0.083	mg/Kg	☼	11/22/22 17:12	11/28/22 18:14	1
Copper	20		0.63	0.18	mg/Kg	☼	11/22/22 17:12	11/28/22 18:14	1
Iron	23000	B	13	6.6	mg/Kg	☼	11/22/22 17:12	11/28/22 18:14	1
Lead	19		0.32	0.15	mg/Kg	☼	11/22/22 17:12	11/28/22 18:14	1
Magnesium	4000	B	6.3	3.1	mg/Kg	☼	11/22/22 17:12	11/28/22 18:14	1
Manganese	550		0.63	0.092	mg/Kg	☼	11/22/22 17:12	11/28/22 18:14	1
Nickel	28		0.63	0.18	mg/Kg	☼	11/22/22 17:12	11/28/22 18:14	1
Potassium	1600		32	11	mg/Kg	☼	11/22/22 17:12	11/28/22 18:14	1
Selenium	<0.63		0.63	0.37	mg/Kg	☼	11/22/22 17:12	11/28/22 18:14	1
Silver	0.37	B	0.32	0.082	mg/Kg	☼	11/22/22 17:12	11/28/22 18:14	1
Sodium	1000		63	9.4	mg/Kg	☼	11/22/22 17:12	11/28/22 18:14	1
Thallium	<0.63		0.63	0.32	mg/Kg	☼	11/22/22 17:12	11/28/22 18:14	1
Vanadium	25		0.32	0.075	mg/Kg	☼	11/22/22 17:12	11/28/22 18:14	1
Zinc	80		1.3	0.56	mg/Kg	☼	11/22/22 17:12	11/28/22 18:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.15	J	0.50	0.050	mg/L		11/18/22 19:06	11/21/22 21:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/18/22 19:06	11/21/22 21:39	1
Boron	0.063	J	0.50	0.050	mg/L		11/18/22 19:06	11/21/22 21:39	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B06 (5-9)

Lab Sample ID: 500-225350-11

Date Collected: 11/11/22 09:05

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/18/22 19:06	11/21/22 21:39	1
Chromium	<0.025		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 21:39	1
Cobalt	<0.025		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 21:39	1
Iron	0.43		0.40	0.20	mg/L		11/18/22 19:06	11/21/22 21:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/18/22 19:06	11/21/22 21:39	1
Manganese	0.011	J	0.025	0.010	mg/L		11/18/22 19:06	11/21/22 21:39	1
Nickel	<0.025		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 21:39	1
Selenium	<0.050		0.050	0.020	mg/L		11/18/22 19:06	11/21/22 21:39	1
Silver	<0.025		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 21:39	1
Zinc	<0.50		0.50	0.020	mg/L		11/18/22 19:06	11/21/22 21:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/18/22 19:06	11/28/22 22:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/18/22 19:06	11/28/22 22:58	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/21/22 10:20	11/22/22 10:30	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046		0.019	0.0063	mg/Kg	☼	11/23/22 15:45	11/28/22 08:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.5		0.2	0.2	SU			11/17/22 17:34	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

GC/MS VOA

Prep Batch: 684703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225350-1	1401V3-07-B01 (0-7)	Total/NA	Solid	5035	
500-225350-2	1401V3-07-B01 (7-13)	Total/NA	Solid	5035	
500-225350-3	1401V3-07-B02 (0-5)	Total/NA	Solid	5035	
500-225350-4	1401V3-07-B02 (5-9)	Total/NA	Solid	5035	
500-225350-5	1401V3-07-B03 (0-6)	Total/NA	Solid	5035	
500-225350-6	1401V3-07-B04 (0-5)	Total/NA	Solid	5035	
500-225350-7	1401V3-07-B04 (5-9)	Total/NA	Solid	5035	
500-225350-8	1401V3-07-B05 (0-6)	Total/NA	Solid	5035	
500-225350-9	1401V3-07-B05 (0-6)D	Total/NA	Solid	5035	
500-225350-10	1401V3-07-B06 (0-5)	Total/NA	Solid	5035	
500-225350-11	1401V3-07-B06 (5-9)	Total/NA	Solid	5035	

Analysis Batch: 685181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225350-1	1401V3-07-B01 (0-7)	Total/NA	Solid	8260B	684703
500-225350-2	1401V3-07-B01 (7-13)	Total/NA	Solid	8260B	684703
MB 500-685181/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-685181/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-685181/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 685183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225350-3	1401V3-07-B02 (0-5)	Total/NA	Solid	8260B	684703
500-225350-5	1401V3-07-B03 (0-6)	Total/NA	Solid	8260B	684703
500-225350-6	1401V3-07-B04 (0-5)	Total/NA	Solid	8260B	684703
500-225350-7	1401V3-07-B04 (5-9)	Total/NA	Solid	8260B	684703
500-225350-8	1401V3-07-B05 (0-6)	Total/NA	Solid	8260B	684703
MB 500-685183/8	Method Blank	Total/NA	Solid	8260B	
LCS 500-685183/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-685183/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 685444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225350-4	1401V3-07-B02 (5-9)	Total/NA	Solid	8260B	684703
500-225350-9	1401V3-07-B05 (0-6)D	Total/NA	Solid	8260B	684703
500-225350-10	1401V3-07-B06 (0-5)	Total/NA	Solid	8260B	684703
500-225350-11	1401V3-07-B06 (5-9)	Total/NA	Solid	8260B	684703
MB 500-685444/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-685444/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-685444/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 686267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225350-1	1401V3-07-B01 (0-7)	Total/NA	Solid	3541	
500-225350-2	1401V3-07-B01 (7-13)	Total/NA	Solid	3541	
500-225350-3	1401V3-07-B02 (0-5)	Total/NA	Solid	3541	
500-225350-4	1401V3-07-B02 (5-9)	Total/NA	Solid	3541	
500-225350-5	1401V3-07-B03 (0-6)	Total/NA	Solid	3541	
500-225350-6	1401V3-07-B04 (0-5)	Total/NA	Solid	3541	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

GC/MS Semi VOA (Continued)

Prep Batch: 686267 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225350-7	1401V3-07-B04 (5-9)	Total/NA	Solid	3541	
500-225350-8	1401V3-07-B05 (0-6)	Total/NA	Solid	3541	
500-225350-9	1401V3-07-B05 (0-6)D	Total/NA	Solid	3541	
500-225350-10	1401V3-07-B06 (0-5)	Total/NA	Solid	3541	
500-225350-11	1401V3-07-B06 (5-9)	Total/NA	Solid	3541	
MB 500-686267/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-686267/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-225350-1 MS	1401V3-07-B01 (0-7)	Total/NA	Solid	3541	
500-225350-1 MSD	1401V3-07-B01 (0-7)	Total/NA	Solid	3541	

Analysis Batch: 687051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225350-1	1401V3-07-B01 (0-7)	Total/NA	Solid	8270D	686267
500-225350-2	1401V3-07-B01 (7-13)	Total/NA	Solid	8270D	686267
500-225350-3	1401V3-07-B02 (0-5)	Total/NA	Solid	8270D	686267
500-225350-4	1401V3-07-B02 (5-9)	Total/NA	Solid	8270D	686267
500-225350-5	1401V3-07-B03 (0-6)	Total/NA	Solid	8270D	686267
500-225350-6	1401V3-07-B04 (0-5)	Total/NA	Solid	8270D	686267
500-225350-7	1401V3-07-B04 (5-9)	Total/NA	Solid	8270D	686267
500-225350-8	1401V3-07-B05 (0-6)	Total/NA	Solid	8270D	686267
500-225350-9	1401V3-07-B05 (0-6)D	Total/NA	Solid	8270D	686267
500-225350-10	1401V3-07-B06 (0-5)	Total/NA	Solid	8270D	686267
500-225350-11	1401V3-07-B06 (5-9)	Total/NA	Solid	8270D	686267
MB 500-686267/1-A	Method Blank	Total/NA	Solid	8270D	686267
LCS 500-686267/2-A	Lab Control Sample	Total/NA	Solid	8270D	686267
500-225350-1 MS	1401V3-07-B01 (0-7)	Total/NA	Solid	8270D	686267
500-225350-1 MSD	1401V3-07-B01 (0-7)	Total/NA	Solid	8270D	686267

Metals

Leach Batch: 685633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225350-2	1401V3-07-B01 (7-13)	SPLP East	Solid	1312	
500-225350-3	1401V3-07-B02 (0-5)	SPLP East	Solid	1312	
500-225350-5	1401V3-07-B03 (0-6)	SPLP East	Solid	1312	
500-225350-6	1401V3-07-B04 (0-5)	SPLP East	Solid	1312	
500-225350-8	1401V3-07-B05 (0-6)	SPLP East	Solid	1312	
500-225350-9	1401V3-07-B05 (0-6)D	SPLP East	Solid	1312	
500-225350-10	1401V3-07-B06 (0-5)	SPLP East	Solid	1312	
LB 500-685633/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 685685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225350-1	1401V3-07-B01 (0-7)	TCLP	Solid	1311	
500-225350-2	1401V3-07-B01 (7-13)	TCLP	Solid	1311	
500-225350-3	1401V3-07-B02 (0-5)	TCLP	Solid	1311	
500-225350-4	1401V3-07-B02 (5-9)	TCLP	Solid	1311	
500-225350-5	1401V3-07-B03 (0-6)	TCLP	Solid	1311	
500-225350-6	1401V3-07-B04 (0-5)	TCLP	Solid	1311	
500-225350-7	1401V3-07-B04 (5-9)	TCLP	Solid	1311	
500-225350-8	1401V3-07-B05 (0-6)	TCLP	Solid	1311	

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Metals (Continued)

Leach Batch: 685685 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225350-9	1401V3-07-B05 (0-6)D	TCLP	Solid	1311	
500-225350-10	1401V3-07-B06 (0-5)	TCLP	Solid	1311	
500-225350-11	1401V3-07-B06 (5-9)	TCLP	Solid	1311	
LB 500-685685/1-B	Method Blank	TCLP	Solid	1311	
LB 500-685685/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 685972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225350-1	1401V3-07-B01 (0-7)	TCLP	Solid	3010A	685685
500-225350-2	1401V3-07-B01 (7-13)	TCLP	Solid	3010A	685685
500-225350-3	1401V3-07-B02 (0-5)	TCLP	Solid	3010A	685685
500-225350-4	1401V3-07-B02 (5-9)	TCLP	Solid	3010A	685685
500-225350-5	1401V3-07-B03 (0-6)	TCLP	Solid	3010A	685685
500-225350-6	1401V3-07-B04 (0-5)	TCLP	Solid	3010A	685685
500-225350-7	1401V3-07-B04 (5-9)	TCLP	Solid	3010A	685685
500-225350-8	1401V3-07-B05 (0-6)	TCLP	Solid	3010A	685685
500-225350-9	1401V3-07-B05 (0-6)D	TCLP	Solid	3010A	685685
500-225350-10	1401V3-07-B06 (0-5)	TCLP	Solid	3010A	685685
500-225350-11	1401V3-07-B06 (5-9)	TCLP	Solid	3010A	685685
LB 500-685685/1-B	Method Blank	TCLP	Solid	3010A	685685
LCS 500-685972/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 685975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225350-2	1401V3-07-B01 (7-13)	SPLP East	Solid	3010A	685633
500-225350-3	1401V3-07-B02 (0-5)	SPLP East	Solid	3010A	685633
500-225350-5	1401V3-07-B03 (0-6)	SPLP East	Solid	3010A	685633
500-225350-6	1401V3-07-B04 (0-5)	SPLP East	Solid	3010A	685633
500-225350-8	1401V3-07-B05 (0-6)	SPLP East	Solid	3010A	685633
500-225350-9	1401V3-07-B05 (0-6)D	SPLP East	Solid	3010A	685633
500-225350-10	1401V3-07-B06 (0-5)	SPLP East	Solid	3010A	685633
LB 500-685633/1-B	Method Blank	SPLP East	Solid	3010A	685633
LCS 500-685975/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 686319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225350-1	1401V3-07-B01 (0-7)	TCLP	Solid	7470A	685685
500-225350-2	1401V3-07-B01 (7-13)	TCLP	Solid	7470A	685685
500-225350-3	1401V3-07-B02 (0-5)	TCLP	Solid	7470A	685685
500-225350-4	1401V3-07-B02 (5-9)	TCLP	Solid	7470A	685685
500-225350-5	1401V3-07-B03 (0-6)	TCLP	Solid	7470A	685685
500-225350-6	1401V3-07-B04 (0-5)	TCLP	Solid	7470A	685685
500-225350-7	1401V3-07-B04 (5-9)	TCLP	Solid	7470A	685685
500-225350-8	1401V3-07-B05 (0-6)	TCLP	Solid	7470A	685685
500-225350-9	1401V3-07-B05 (0-6)D	TCLP	Solid	7470A	685685
500-225350-10	1401V3-07-B06 (0-5)	TCLP	Solid	7470A	685685
500-225350-11	1401V3-07-B06 (5-9)	TCLP	Solid	7470A	685685
LB 500-685685/1-C	Method Blank	TCLP	Solid	7470A	685685
MB 500-686319/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-686319/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Metals

Analysis Batch: 686467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225350-1	1401V3-07-B01 (0-7)	TCLP	Solid	6010B	685972
500-225350-2	1401V3-07-B01 (7-13)	TCLP	Solid	6010B	685972
500-225350-3	1401V3-07-B02 (0-5)	TCLP	Solid	6010B	685972
500-225350-4	1401V3-07-B02 (5-9)	TCLP	Solid	6010B	685972
500-225350-5	1401V3-07-B03 (0-6)	TCLP	Solid	6010B	685972
500-225350-6	1401V3-07-B04 (0-5)	TCLP	Solid	6010B	685972
500-225350-7	1401V3-07-B04 (5-9)	TCLP	Solid	6010B	685972
500-225350-8	1401V3-07-B05 (0-6)	TCLP	Solid	6010B	685972
500-225350-9	1401V3-07-B05 (0-6)D	TCLP	Solid	6010B	685972
500-225350-10	1401V3-07-B06 (0-5)	TCLP	Solid	6010B	685972
500-225350-11	1401V3-07-B06 (5-9)	TCLP	Solid	6010B	685972
LB 500-685685/1-B	Method Blank	TCLP	Solid	6010B	685972
LCS 500-685972/2-A	Lab Control Sample	Total/NA	Solid	6010B	685972

Analysis Batch: 686552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225350-1	1401V3-07-B01 (0-7)	TCLP	Solid	7470A	686319
500-225350-2	1401V3-07-B01 (7-13)	TCLP	Solid	7470A	686319
500-225350-3	1401V3-07-B02 (0-5)	TCLP	Solid	7470A	686319
500-225350-4	1401V3-07-B02 (5-9)	TCLP	Solid	7470A	686319
500-225350-5	1401V3-07-B03 (0-6)	TCLP	Solid	7470A	686319
500-225350-6	1401V3-07-B04 (0-5)	TCLP	Solid	7470A	686319
500-225350-7	1401V3-07-B04 (5-9)	TCLP	Solid	7470A	686319
500-225350-8	1401V3-07-B05 (0-6)	TCLP	Solid	7470A	686319
500-225350-9	1401V3-07-B05 (0-6)D	TCLP	Solid	7470A	686319
500-225350-10	1401V3-07-B06 (0-5)	TCLP	Solid	7470A	686319
500-225350-11	1401V3-07-B06 (5-9)	TCLP	Solid	7470A	686319
LB 500-685685/1-C	Method Blank	TCLP	Solid	7470A	686319
MB 500-686319/12-A	Method Blank	Total/NA	Solid	7470A	686319
LCS 500-686319/14-A	Lab Control Sample	Total/NA	Solid	7470A	686319

Prep Batch: 686603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225350-1	1401V3-07-B01 (0-7)	Total/NA	Solid	3050B	
500-225350-2	1401V3-07-B01 (7-13)	Total/NA	Solid	3050B	
500-225350-3	1401V3-07-B02 (0-5)	Total/NA	Solid	3050B	
500-225350-4	1401V3-07-B02 (5-9)	Total/NA	Solid	3050B	
500-225350-5	1401V3-07-B03 (0-6)	Total/NA	Solid	3050B	
500-225350-6	1401V3-07-B04 (0-5)	Total/NA	Solid	3050B	
500-225350-7	1401V3-07-B04 (5-9)	Total/NA	Solid	3050B	
500-225350-8	1401V3-07-B05 (0-6)	Total/NA	Solid	3050B	
500-225350-9	1401V3-07-B05 (0-6)D	Total/NA	Solid	3050B	
500-225350-10	1401V3-07-B06 (0-5)	Total/NA	Solid	3050B	
500-225350-11	1401V3-07-B06 (5-9)	Total/NA	Solid	3050B	
MB 500-686603/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-686603/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-225350-2 MS	1401V3-07-B01 (7-13)	Total/NA	Solid	3050B	
500-225350-2 MSD	1401V3-07-B01 (7-13)	Total/NA	Solid	3050B	
500-225350-2 DU	1401V3-07-B01 (7-13)	Total/NA	Solid	3050B	

QC Association Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Metals

Analysis Batch: 686681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225350-2	1401V3-07-B01 (7-13)	SPLP East	Solid	6010B	685975
500-225350-3	1401V3-07-B02 (0-5)	SPLP East	Solid	6010B	685975
500-225350-5	1401V3-07-B03 (0-6)	SPLP East	Solid	6010B	685975
500-225350-6	1401V3-07-B04 (0-5)	SPLP East	Solid	6010B	685975
500-225350-8	1401V3-07-B05 (0-6)	SPLP East	Solid	6010B	685975
500-225350-9	1401V3-07-B05 (0-6)D	SPLP East	Solid	6010B	685975
500-225350-10	1401V3-07-B06 (0-5)	SPLP East	Solid	6010B	685975
LB 500-685633/1-B	Method Blank	SPLP East	Solid	6010B	685975
LCS 500-685975/2-A	Lab Control Sample	Total/NA	Solid	6010B	685975

Prep Batch: 686735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225350-1	1401V3-07-B01 (0-7)	Total/NA	Solid	7471B	
500-225350-2	1401V3-07-B01 (7-13)	Total/NA	Solid	7471B	
500-225350-3	1401V3-07-B02 (0-5)	Total/NA	Solid	7471B	
500-225350-4	1401V3-07-B02 (5-9)	Total/NA	Solid	7471B	
500-225350-5	1401V3-07-B03 (0-6)	Total/NA	Solid	7471B	
500-225350-6	1401V3-07-B04 (0-5)	Total/NA	Solid	7471B	
500-225350-7	1401V3-07-B04 (5-9)	Total/NA	Solid	7471B	
500-225350-8	1401V3-07-B05 (0-6)	Total/NA	Solid	7471B	
500-225350-9	1401V3-07-B05 (0-6)D	Total/NA	Solid	7471B	
500-225350-10	1401V3-07-B06 (0-5)	Total/NA	Solid	7471B	
500-225350-11	1401V3-07-B06 (5-9)	Total/NA	Solid	7471B	
MB 500-686735/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-686735/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-225350-3 MS	1401V3-07-B02 (0-5)	Total/NA	Solid	7471B	
500-225350-3 MSD	1401V3-07-B02 (0-5)	Total/NA	Solid	7471B	
500-225350-3 DU	1401V3-07-B02 (0-5)	Total/NA	Solid	7471B	

Analysis Batch: 687066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225350-1	1401V3-07-B01 (0-7)	Total/NA	Solid	7471B	686735
500-225350-2	1401V3-07-B01 (7-13)	Total/NA	Solid	7471B	686735
500-225350-3	1401V3-07-B02 (0-5)	Total/NA	Solid	7471B	686735
500-225350-4	1401V3-07-B02 (5-9)	Total/NA	Solid	7471B	686735
500-225350-5	1401V3-07-B03 (0-6)	Total/NA	Solid	7471B	686735
500-225350-6	1401V3-07-B04 (0-5)	Total/NA	Solid	7471B	686735
500-225350-7	1401V3-07-B04 (5-9)	Total/NA	Solid	7471B	686735
500-225350-8	1401V3-07-B05 (0-6)	Total/NA	Solid	7471B	686735
500-225350-9	1401V3-07-B05 (0-6)D	Total/NA	Solid	7471B	686735
500-225350-10	1401V3-07-B06 (0-5)	Total/NA	Solid	7471B	686735
500-225350-11	1401V3-07-B06 (5-9)	Total/NA	Solid	7471B	686735
MB 500-686735/12-A	Method Blank	Total/NA	Solid	7471B	686735
LCS 500-686735/13-A	Lab Control Sample	Total/NA	Solid	7471B	686735
500-225350-3 MS	1401V3-07-B02 (0-5)	Total/NA	Solid	7471B	686735
500-225350-3 MSD	1401V3-07-B02 (0-5)	Total/NA	Solid	7471B	686735
500-225350-3 DU	1401V3-07-B02 (0-5)	Total/NA	Solid	7471B	686735

Analysis Batch: 687213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225350-1	1401V3-07-B01 (0-7)	Total/NA	Solid	6010B	686603

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Metals (Continued)

Analysis Batch: 687213 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225350-2	1401V3-07-B01 (7-13)	Total/NA	Solid	6010B	686603
500-225350-3	1401V3-07-B02 (0-5)	Total/NA	Solid	6010B	686603
500-225350-4	1401V3-07-B02 (5-9)	Total/NA	Solid	6010B	686603
500-225350-5	1401V3-07-B03 (0-6)	Total/NA	Solid	6010B	686603
500-225350-6	1401V3-07-B04 (0-5)	Total/NA	Solid	6010B	686603
500-225350-7	1401V3-07-B04 (5-9)	Total/NA	Solid	6010B	686603
500-225350-8	1401V3-07-B05 (0-6)	Total/NA	Solid	6010B	686603
500-225350-9	1401V3-07-B05 (0-6)D	Total/NA	Solid	6010B	686603
500-225350-10	1401V3-07-B06 (0-5)	Total/NA	Solid	6010B	686603
500-225350-11	1401V3-07-B06 (5-9)	Total/NA	Solid	6010B	686603
MB 500-686603/1-A	Method Blank	Total/NA	Solid	6010B	686603
LCS 500-686603/2-A	Lab Control Sample	Total/NA	Solid	6010B	686603
500-225350-2 MS	1401V3-07-B01 (7-13)	Total/NA	Solid	6010B	686603
500-225350-2 MSD	1401V3-07-B01 (7-13)	Total/NA	Solid	6010B	686603
500-225350-2 DU	1401V3-07-B01 (7-13)	Total/NA	Solid	6010B	686603

Analysis Batch: 687307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225350-1	1401V3-07-B01 (0-7)	TCLP	Solid	6020A	685972
500-225350-2	1401V3-07-B01 (7-13)	TCLP	Solid	6020A	685972
500-225350-3	1401V3-07-B02 (0-5)	TCLP	Solid	6020A	685972
500-225350-4	1401V3-07-B02 (5-9)	TCLP	Solid	6020A	685972
500-225350-5	1401V3-07-B03 (0-6)	TCLP	Solid	6020A	685972
500-225350-6	1401V3-07-B04 (0-5)	TCLP	Solid	6020A	685972
500-225350-7	1401V3-07-B04 (5-9)	TCLP	Solid	6020A	685972
500-225350-8	1401V3-07-B05 (0-6)	TCLP	Solid	6020A	685972
500-225350-9	1401V3-07-B05 (0-6)D	TCLP	Solid	6020A	685972
500-225350-10	1401V3-07-B06 (0-5)	TCLP	Solid	6020A	685972
500-225350-11	1401V3-07-B06 (5-9)	TCLP	Solid	6020A	685972
LB 500-685685/1-B	Method Blank	TCLP	Solid	6020A	685972
LCS 500-685972/2-A	Lab Control Sample	Total/NA	Solid	6020A	685972

Analysis Batch: 687341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225350-2	1401V3-07-B01 (7-13)	Total/NA	Solid	6010B	686603
500-225350-5	1401V3-07-B03 (0-6)	Total/NA	Solid	6010B	686603
500-225350-2 MS	1401V3-07-B01 (7-13)	Total/NA	Solid	6010B	686603
500-225350-2 MSD	1401V3-07-B01 (7-13)	Total/NA	Solid	6010B	686603
500-225350-2 DU	1401V3-07-B01 (7-13)	Total/NA	Solid	6010B	686603

General Chemistry

Analysis Batch: 685788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225350-1	1401V3-07-B01 (0-7)	Total/NA	Solid	9045D	
500-225350-2	1401V3-07-B01 (7-13)	Total/NA	Solid	9045D	
500-225350-3	1401V3-07-B02 (0-5)	Total/NA	Solid	9045D	
500-225350-4	1401V3-07-B02 (5-9)	Total/NA	Solid	9045D	
500-225350-5	1401V3-07-B03 (0-6)	Total/NA	Solid	9045D	
500-225350-6	1401V3-07-B04 (0-5)	Total/NA	Solid	9045D	
500-225350-7	1401V3-07-B04 (5-9)	Total/NA	Solid	9045D	

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

General Chemistry (Continued)

Analysis Batch: 685788 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225350-8	1401V3-07-B05 (0-6)	Total/NA	Solid	9045D	
500-225350-9	1401V3-07-B05 (0-6)D	Total/NA	Solid	9045D	
500-225350-10	1401V3-07-B06 (0-5)	Total/NA	Solid	9045D	
500-225350-11	1401V3-07-B06 (5-9)	Total/NA	Solid	9045D	
LCS 500-685788/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-685788/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 686572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225350-1	1401V3-07-B01 (0-7)	Total/NA	Solid	Moisture	
500-225350-2	1401V3-07-B01 (7-13)	Total/NA	Solid	Moisture	
500-225350-3	1401V3-07-B02 (0-5)	Total/NA	Solid	Moisture	
500-225350-4	1401V3-07-B02 (5-9)	Total/NA	Solid	Moisture	
500-225350-5	1401V3-07-B03 (0-6)	Total/NA	Solid	Moisture	
500-225350-6	1401V3-07-B04 (0-5)	Total/NA	Solid	Moisture	
500-225350-7	1401V3-07-B04 (5-9)	Total/NA	Solid	Moisture	
500-225350-8	1401V3-07-B05 (0-6)	Total/NA	Solid	Moisture	
500-225350-9	1401V3-07-B05 (0-6)D	Total/NA	Solid	Moisture	
500-225350-2 DU	1401V3-07-B01 (7-13)	Total/NA	Solid	Moisture	

Analysis Batch: 686578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225350-10	1401V3-07-B06 (0-5)	Total/NA	Solid	Moisture	
500-225350-11	1401V3-07-B06 (5-9)	Total/NA	Solid	Moisture	
500-225350-10 DU	1401V3-07-B06 (0-5)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-225350-1	1401V3-07-B01 (0-7)	108	112	114	103
500-225350-2	1401V3-07-B01 (7-13)	103	111	109	103
500-225350-3	1401V3-07-B02 (0-5)	99	88	94	90
500-225350-4	1401V3-07-B02 (5-9)	104	110	109	102
500-225350-5	1401V3-07-B03 (0-6)	96	86	91	92
500-225350-6	1401V3-07-B04 (0-5)	96	88	88	91
500-225350-7	1401V3-07-B04 (5-9)	95	91	94	88
500-225350-8	1401V3-07-B05 (0-6)	97	91	94	88
500-225350-9	1401V3-07-B05 (0-6)D	103	113	111	106
500-225350-10	1401V3-07-B06 (0-5)	102	118	112	104
500-225350-11	1401V3-07-B06 (5-9)	105	116	114	106
LCS 500-685181/3	Lab Control Sample	111	103	100	100
LCS 500-685183/5	Lab Control Sample	92	84	85	89
LCS 500-685444/3	Lab Control Sample	107	99	102	100
LCSD 500-685181/4	Lab Control Sample Dup	110	104	103	100
LCSD 500-685183/6	Lab Control Sample Dup	94	83	86	91
LCSD 500-685444/4	Lab Control Sample Dup	109	101	102	97
MB 500-685181/6	Method Blank	102	105	104	97
MB 500-685183/8	Method Blank	96	86	82	90
MB 500-685444/6	Method Blank	111	106	107	98

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (31-166)	PHL (30-153)	NBZ (37-147)	FBP (43-145)	TBP (31-143)	TPHL (42-157)
500-225350-1	1401V3-07-B01 (0-7)	124	107	105	103	105	187 S1+
500-225350-1 MS	1401V3-07-B01 (0-7)	118	114	109	104	104	154
500-225350-1 MSD	1401V3-07-B01 (0-7)	109	100	93	89	86	131
500-225350-2	1401V3-07-B01 (7-13)	114	95	96	93	66	162 S1+
500-225350-3	1401V3-07-B02 (0-5)	108	91	84	82	74	141
500-225350-4	1401V3-07-B02 (5-9)	124	80	71	65	72	123
500-225350-5	1401V3-07-B03 (0-6)	103	83	77	76	75	142
500-225350-6	1401V3-07-B04 (0-5)	106	89	78	75	78	122
500-225350-7	1401V3-07-B04 (5-9)	94	75	66	56	61	115
500-225350-8	1401V3-07-B05 (0-6)	93	78	62	62	75	146
500-225350-9	1401V3-07-B05 (0-6)D	103	86	71	67	73	129
500-225350-10	1401V3-07-B06 (0-5)	104	77	79	79	69	152
500-225350-11	1401V3-07-B06 (5-9)	82	58	50	45	60	121
LCS 500-686267/2-A	Lab Control Sample	112	102	100	94	99	139
MB 500-686267/1-A	Method Blank	125	112	94	95	84	163 S1+

Surrogate Legend

2FP = 2-Fluorophenol

Surrogate Summary

Client: WSP USA Inc.

Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

PHL = Phenol-d5

NBZ = Nitrobenzene-d5 (Surr)

FBP = 2-Fluorobiphenyl (Surr)

TBP = 2,4,6-Tribromophenol

TPHL = Terphenyl-d14 (Surr)

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

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

Lab Sample ID: MB 500-685181/6
Matrix: Solid
Analysis Batch: 685181

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			11/16/22 10:40	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			11/16/22 10:40	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			11/16/22 10:40	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			11/16/22 10:40	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			11/16/22 10:40	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			11/16/22 10:40	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			11/16/22 10:40	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			11/16/22 10:40	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			11/16/22 10:40	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			11/16/22 10:40	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			11/16/22 10:40	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			11/16/22 10:40	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			11/16/22 10:40	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			11/16/22 10:40	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			11/16/22 10:40	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			11/16/22 10:40	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			11/16/22 10:40	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			11/16/22 10:40	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			11/16/22 10:40	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			11/16/22 10:40	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			11/16/22 10:40	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			11/16/22 10:40	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			11/16/22 10:40	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			11/16/22 10:40	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			11/16/22 10:40	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			11/16/22 10:40	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			11/16/22 10:40	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/16/22 10:40	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			11/16/22 10:40	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			11/16/22 10:40	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			11/16/22 10:40	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			11/16/22 10:40	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			11/16/22 10:40	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/16/22 10:40	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			11/16/22 10:40	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			11/16/22 10:40	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			11/16/22 10:40	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	102		75 - 131		11/16/22 10:40	1
Dibromofluoromethane	105		75 - 126		11/16/22 10:40	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134		11/16/22 10:40	1
Toluene-d8 (Surr)	97		75 - 124		11/16/22 10:40	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

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

Lab Sample ID: LCS 500-685181/3
Matrix: Solid
Analysis Batch: 685181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0400	0.0335		mg/Kg		84	40 - 150
Benzene	0.0400	0.0439		mg/Kg		110	70 - 125
Bromodichloromethane	0.0400	0.0465		mg/Kg		116	67 - 129
Bromoform	0.0400	0.0470		mg/Kg		118	68 - 136
Bromomethane	0.0400	0.0510		mg/Kg		128	70 - 130
2-Butanone (MEK)	0.0400	0.0349		mg/Kg		87	47 - 138
Carbon disulfide	0.0400	0.0459		mg/Kg		115	70 - 129
Carbon tetrachloride	0.0400	0.0478		mg/Kg		120	75 - 125
Chlorobenzene	0.0400	0.0462		mg/Kg		115	50 - 150
Chloroethane	0.0400	0.0493		mg/Kg		123	75 - 125
Chloroform	0.0400	0.0420		mg/Kg		105	57 - 135
Chloromethane	0.0400	0.0437		mg/Kg		109	70 - 125
cis-1,2-Dichloroethene	0.0400	0.0444		mg/Kg		111	70 - 125
cis-1,3-Dichloropropene	0.0400	0.0419		mg/Kg		105	70 - 125
Dibromochloromethane	0.0400	0.0445		mg/Kg		111	69 - 125
1,1-Dichloroethane	0.0400	0.0429		mg/Kg		107	70 - 125
1,2-Dichloroethane	0.0400	0.0464		mg/Kg		116	70 - 130
1,1-Dichloroethene	0.0400	0.0484	*+	mg/Kg		121	70 - 120
1,2-Dichloropropane	0.0400	0.0443		mg/Kg		111	70 - 125
Ethylbenzene	0.0400	0.0432		mg/Kg		108	61 - 136
2-Hexanone	0.0400	0.0393		mg/Kg		98	48 - 146
Methylene Chloride	0.0400	0.0503		mg/Kg		126	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0400	0.0332		mg/Kg		83	50 - 148
Methyl tert-butyl ether	0.0400	0.0425		mg/Kg		106	50 - 140
Styrene	0.0400	0.0454		mg/Kg		114	70 - 125
1,1,2,2-Tetrachloroethane	0.0400	0.0408		mg/Kg		102	70 - 122
Tetrachloroethene	0.0400	0.0447		mg/Kg		112	70 - 124
Toluene	0.0400	0.0411		mg/Kg		103	70 - 125
trans-1,2-Dichloroethene	0.0400	0.0462		mg/Kg		116	70 - 125
trans-1,3-Dichloropropene	0.0400	0.0452		mg/Kg		113	70 - 125
1,1,1-Trichloroethane	0.0400	0.0447		mg/Kg		112	70 - 128
1,1,2-Trichloroethane	0.0400	0.0433		mg/Kg		108	70 - 125
Trichloroethene	0.0400	0.0500		mg/Kg		125	70 - 125
Vinyl acetate	0.0400	0.0306		mg/Kg		76	40 - 153
Vinyl chloride	0.0400	0.0502		mg/Kg		125	70 - 125
Xylenes, Total	0.0800	0.0793		mg/Kg		99	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	111		75 - 131
Dibromofluoromethane	103		75 - 126
1,2-Dichloroethane-d4 (Surr)	100		70 - 134
Toluene-d8 (Surr)	100		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

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

Lab Sample ID: LCSD 500-685181/4
Matrix: Solid
Analysis Batch: 685181

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.0400	0.0319		mg/Kg		80	40 - 150	5	30
Benzene	0.0400	0.0457		mg/Kg		114	70 - 125	4	30
Bromodichloromethane	0.0400	0.0484		mg/Kg		121	67 - 129	4	30
Bromoform	0.0400	0.0511		mg/Kg		128	68 - 136	8	30
Bromomethane	0.0400	0.0498		mg/Kg		124	70 - 130	3	30
2-Butanone (MEK)	0.0400	0.0361		mg/Kg		90	47 - 138	3	30
Carbon disulfide	0.0400	0.0484		mg/Kg		121	70 - 129	5	30
Carbon tetrachloride	0.0400	0.0517	*+	mg/Kg		129	75 - 125	8	30
Chlorobenzene	0.0400	0.0478		mg/Kg		120	50 - 150	3	30
Chloroethane	0.0400	0.0486		mg/Kg		121	75 - 125	1	30
Chloroform	0.0400	0.0429		mg/Kg		107	57 - 135	2	30
Chloromethane	0.0400	0.0431		mg/Kg		108	70 - 125	1	30
cis-1,2-Dichloroethene	0.0400	0.0449		mg/Kg		112	70 - 125	1	30
cis-1,3-Dichloropropene	0.0400	0.0421		mg/Kg		105	70 - 125	0	30
Dibromochloromethane	0.0400	0.0470		mg/Kg		118	69 - 125	5	30
1,1-Dichloroethane	0.0400	0.0429		mg/Kg		107	70 - 125	0	30
1,2-Dichloroethane	0.0400	0.0492		mg/Kg		123	70 - 130	6	30
1,1-Dichloroethene	0.0400	0.0487	*+	mg/Kg		122	70 - 120	1	30
1,2-Dichloropropane	0.0400	0.0468		mg/Kg		117	70 - 125	6	30
Ethylbenzene	0.0400	0.0452		mg/Kg		113	61 - 136	4	30
2-Hexanone	0.0400	0.0434		mg/Kg		108	48 - 146	10	30
Methylene Chloride	0.0400	0.0513	*+	mg/Kg		128	70 - 126	2	30
4-Methyl-2-pentanone (MIBK)	0.0400	0.0359		mg/Kg		90	50 - 148	8	30
Methyl tert-butyl ether	0.0400	0.0481		mg/Kg		120	50 - 140	12	30
Styrene	0.0400	0.0470		mg/Kg		117	70 - 125	3	30
1,1,2,2-Tetrachloroethane	0.0400	0.0463		mg/Kg		116	70 - 122	13	30
Tetrachloroethene	0.0400	0.0467		mg/Kg		117	70 - 124	4	30
Toluene	0.0400	0.0417		mg/Kg		104	70 - 125	2	30
trans-1,2-Dichloroethene	0.0400	0.0470		mg/Kg		117	70 - 125	2	30
trans-1,3-Dichloropropene	0.0400	0.0469		mg/Kg		117	70 - 125	4	30
1,1,1-Trichloroethane	0.0400	0.0498		mg/Kg		124	70 - 128	11	30
1,1,2-Trichloroethane	0.0400	0.0466		mg/Kg		116	70 - 125	7	30
Trichloroethene	0.0400	0.0513	*+	mg/Kg		128	70 - 125	3	30
Vinyl acetate	0.0400	0.0326		mg/Kg		82	40 - 153	6	30
Vinyl chloride	0.0400	0.0481		mg/Kg		120	70 - 125	4	30
Xylenes, Total	0.0800	0.0826		mg/Kg		103	53 - 147	4	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	110		75 - 131
Dibromofluoromethane	104		75 - 126
1,2-Dichloroethane-d4 (Surr)	103		70 - 134
Toluene-d8 (Surr)	100		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

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

Lab Sample ID: MB 500-685183/8
Matrix: Solid
Analysis Batch: 685183

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			11/16/22 11:09	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			11/16/22 11:09	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			11/16/22 11:09	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			11/16/22 11:09	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			11/16/22 11:09	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			11/16/22 11:09	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			11/16/22 11:09	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			11/16/22 11:09	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			11/16/22 11:09	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			11/16/22 11:09	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			11/16/22 11:09	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			11/16/22 11:09	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			11/16/22 11:09	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			11/16/22 11:09	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			11/16/22 11:09	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			11/16/22 11:09	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			11/16/22 11:09	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			11/16/22 11:09	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			11/16/22 11:09	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			11/16/22 11:09	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			11/16/22 11:09	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			11/16/22 11:09	1
Methylene Chloride	0.00593		0.0050	0.0020	mg/Kg			11/16/22 11:09	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			11/16/22 11:09	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			11/16/22 11:09	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			11/16/22 11:09	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			11/16/22 11:09	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/16/22 11:09	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			11/16/22 11:09	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			11/16/22 11:09	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			11/16/22 11:09	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			11/16/22 11:09	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			11/16/22 11:09	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/16/22 11:09	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			11/16/22 11:09	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			11/16/22 11:09	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			11/16/22 11:09	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	96		75 - 131		11/16/22 11:09	1
Dibromofluoromethane	86		75 - 126		11/16/22 11:09	1
1,2-Dichloroethane-d4 (Surr)	82		70 - 134		11/16/22 11:09	1
Toluene-d8 (Surr)	90		75 - 124		11/16/22 11:09	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

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

Lab Sample ID: LCS 500-685183/5
Matrix: Solid
Analysis Batch: 685183

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0500	0.0423		mg/Kg		85	40 - 150
Benzene	0.0500	0.0458		mg/Kg		92	70 - 125
Bromodichloromethane	0.0500	0.0485		mg/Kg		97	67 - 129
Bromoform	0.0500	0.0480		mg/Kg		96	68 - 136
Bromomethane	0.0500	0.0524		mg/Kg		105	70 - 130
2-Butanone (MEK)	0.0500	0.0451		mg/Kg		90	47 - 138
Carbon disulfide	0.0500	0.0476		mg/Kg		95	70 - 129
Carbon tetrachloride	0.0500	0.0490		mg/Kg		98	75 - 125
Chlorobenzene	0.0500	0.0484		mg/Kg		97	50 - 150
Chloroethane	0.0500	0.0500		mg/Kg		100	75 - 125
Chloroform	0.0500	0.0498		mg/Kg		100	57 - 135
Chloromethane	0.0500	0.0511		mg/Kg		102	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0482		mg/Kg		96	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0450		mg/Kg		90	70 - 125
Dibromochloromethane	0.0500	0.0488		mg/Kg		98	69 - 125
1,1-Dichloroethane	0.0500	0.0467		mg/Kg		93	70 - 125
1,2-Dichloroethane	0.0500	0.0490		mg/Kg		98	70 - 130
1,1-Dichloroethene	0.0500	0.0487		mg/Kg		97	70 - 120
1,2-Dichloropropane	0.0500	0.0456		mg/Kg		91	70 - 125
Ethylbenzene	0.0500	0.0473		mg/Kg		95	61 - 136
2-Hexanone	0.0500	0.0517		mg/Kg		103	48 - 146
Methylene Chloride	0.0500	0.0562		mg/Kg		112	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0472		mg/Kg		94	50 - 148
Methyl tert-butyl ether	0.0500	0.0470		mg/Kg		94	50 - 140
Styrene	0.0500	0.0479		mg/Kg		96	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0538		mg/Kg		108	70 - 122
Tetrachloroethene	0.0500	0.0456		mg/Kg		91	70 - 124
Toluene	0.0500	0.0451		mg/Kg		90	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0498		mg/Kg		100	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0466		mg/Kg		93	70 - 125
1,1,1-Trichloroethane	0.0500	0.0488		mg/Kg		98	70 - 128
1,1,2-Trichloroethane	0.0500	0.0496		mg/Kg		99	70 - 125
Trichloroethene	0.0500	0.0467		mg/Kg		93	70 - 125
Vinyl acetate	0.0500	0.0320		mg/Kg		64	40 - 153
Vinyl chloride	0.0500	0.0507		mg/Kg		101	70 - 125
Xylenes, Total	0.100	0.0952		mg/Kg		95	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	92		75 - 131
Dibromofluoromethane	84		75 - 126
1,2-Dichloroethane-d4 (Surr)	85		70 - 134
Toluene-d8 (Surr)	89		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

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

Lab Sample ID: LCSD 500-685183/6
Matrix: Solid
Analysis Batch: 685183

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.0500	0.0415		mg/Kg		83	40 - 150	2	30
Benzene	0.0500	0.0521		mg/Kg		104	70 - 125	13	30
Bromodichloromethane	0.0500	0.0554		mg/Kg		111	67 - 129	13	30
Bromoform	0.0500	0.0544		mg/Kg		109	68 - 136	12	30
Bromomethane	0.0500	0.0547		mg/Kg		109	70 - 130	4	30
2-Butanone (MEK)	0.0500	0.0485		mg/Kg		97	47 - 138	7	30
Carbon disulfide	0.0500	0.0544		mg/Kg		109	70 - 129	13	30
Carbon tetrachloride	0.0500	0.0556		mg/Kg		111	75 - 125	12	30
Chlorobenzene	0.0500	0.0552		mg/Kg		110	50 - 150	13	30
Chloroethane	0.0500	0.0528		mg/Kg		106	75 - 125	5	30
Chloroform	0.0500	0.0553		mg/Kg		111	57 - 135	11	30
Chloromethane	0.0500	0.0538		mg/Kg		108	70 - 125	5	30
cis-1,2-Dichloroethene	0.0500	0.0546		mg/Kg		109	70 - 125	12	30
cis-1,3-Dichloropropene	0.0500	0.0522		mg/Kg		104	70 - 125	15	30
Dibromochloromethane	0.0500	0.0563		mg/Kg		113	69 - 125	14	30
1,1-Dichloroethane	0.0500	0.0541		mg/Kg		108	70 - 125	15	30
1,2-Dichloroethane	0.0500	0.0555		mg/Kg		111	70 - 130	13	30
1,1-Dichloroethene	0.0500	0.0562		mg/Kg		112	70 - 120	14	30
1,2-Dichloropropane	0.0500	0.0517		mg/Kg		103	70 - 125	13	30
Ethylbenzene	0.0500	0.0545		mg/Kg		109	61 - 136	14	30
2-Hexanone	0.0500	0.0558		mg/Kg		112	48 - 146	8	30
Methylene Chloride	0.0500	0.0615		mg/Kg		123	70 - 126	9	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0516		mg/Kg		103	50 - 148	9	30
Methyl tert-butyl ether	0.0500	0.0529		mg/Kg		106	50 - 140	12	30
Styrene	0.0500	0.0543		mg/Kg		109	70 - 125	13	30
1,1,2,2-Tetrachloroethane	0.0500	0.0607		mg/Kg		121	70 - 122	12	30
Tetrachloroethene	0.0500	0.0536		mg/Kg		107	70 - 124	16	30
Toluene	0.0500	0.0534		mg/Kg		107	70 - 125	17	30
trans-1,2-Dichloroethene	0.0500	0.0555		mg/Kg		111	70 - 125	11	30
trans-1,3-Dichloropropene	0.0500	0.0540		mg/Kg		108	70 - 125	15	30
1,1,1-Trichloroethane	0.0500	0.0549		mg/Kg		110	70 - 128	12	30
1,1,2-Trichloroethane	0.0500	0.0564		mg/Kg		113	70 - 125	13	30
Trichloroethene	0.0500	0.0524		mg/Kg		105	70 - 125	11	30
Vinyl acetate	0.0500	0.0344		mg/Kg		69	40 - 153	7	30
Vinyl chloride	0.0500	0.0541		mg/Kg		108	70 - 125	7	30
Xylenes, Total	0.100	0.108		mg/Kg		108	53 - 147	13	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	94		75 - 131
Dibromofluoromethane	83		75 - 126
1,2-Dichloroethane-d4 (Surr)	86		70 - 134
Toluene-d8 (Surr)	91		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

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

Lab Sample ID: MB 500-685444/6
Matrix: Solid
Analysis Batch: 685444

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			11/17/22 11:20	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			11/17/22 11:20	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			11/17/22 11:20	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			11/17/22 11:20	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			11/17/22 11:20	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			11/17/22 11:20	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			11/17/22 11:20	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			11/17/22 11:20	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			11/17/22 11:20	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			11/17/22 11:20	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			11/17/22 11:20	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			11/17/22 11:20	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			11/17/22 11:20	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			11/17/22 11:20	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			11/17/22 11:20	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			11/17/22 11:20	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			11/17/22 11:20	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			11/17/22 11:20	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			11/17/22 11:20	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			11/17/22 11:20	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			11/17/22 11:20	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			11/17/22 11:20	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			11/17/22 11:20	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			11/17/22 11:20	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			11/17/22 11:20	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			11/17/22 11:20	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			11/17/22 11:20	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/17/22 11:20	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			11/17/22 11:20	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			11/17/22 11:20	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			11/17/22 11:20	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			11/17/22 11:20	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			11/17/22 11:20	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/17/22 11:20	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			11/17/22 11:20	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			11/17/22 11:20	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			11/17/22 11:20	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	111		75 - 131		11/17/22 11:20	1
Dibromofluoromethane	106		75 - 126		11/17/22 11:20	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134		11/17/22 11:20	1
Toluene-d8 (Surr)	98		75 - 124		11/17/22 11:20	1

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

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

Lab Sample ID: LCS 500-685444/3
Matrix: Solid
Analysis Batch: 685444

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0400	0.0382		mg/Kg		96	40 - 150
Benzene	0.0400	0.0435		mg/Kg		109	70 - 125
Bromodichloromethane	0.0400	0.0471		mg/Kg		118	67 - 129
Bromoform	0.0400	0.0499		mg/Kg		125	68 - 136
Bromomethane	0.0400	0.0412		mg/Kg		103	70 - 130
2-Butanone (MEK)	0.0400	0.0372		mg/Kg		93	47 - 138
Carbon disulfide	0.0400	0.0436		mg/Kg		109	70 - 129
Carbon tetrachloride	0.0400	0.0450		mg/Kg		113	75 - 125
Chlorobenzene	0.0400	0.0475		mg/Kg		119	50 - 150
Chloroethane	0.0400	0.0408		mg/Kg		102	75 - 125
Chloroform	0.0400	0.0411		mg/Kg		103	57 - 135
Chloromethane	0.0400	0.0334		mg/Kg		84	70 - 125
cis-1,2-Dichloroethene	0.0400	0.0426		mg/Kg		106	70 - 125
cis-1,3-Dichloropropene	0.0400	0.0442		mg/Kg		110	70 - 125
Dibromochloromethane	0.0400	0.0476		mg/Kg		119	69 - 125
1,1-Dichloroethane	0.0400	0.0421		mg/Kg		105	70 - 125
1,2-Dichloroethane	0.0400	0.0479		mg/Kg		120	70 - 130
1,1-Dichloroethene	0.0400	0.0474		mg/Kg		119	70 - 120
1,2-Dichloropropane	0.0400	0.0441		mg/Kg		110	70 - 125
Ethylbenzene	0.0400	0.0429		mg/Kg		107	61 - 136
2-Hexanone	0.0400	0.0411		mg/Kg		103	48 - 146
Methylene Chloride	0.0400	0.0459		mg/Kg		115	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0400	0.0321		mg/Kg		80	50 - 148
Methyl tert-butyl ether	0.0400	0.0418		mg/Kg		104	50 - 140
Styrene	0.0400	0.0455		mg/Kg		114	70 - 125
1,1,2,2-Tetrachloroethane	0.0400	0.0416		mg/Kg		104	70 - 122
Tetrachloroethene	0.0400	0.0432		mg/Kg		108	70 - 124
Toluene	0.0400	0.0406		mg/Kg		101	70 - 125
trans-1,2-Dichloroethene	0.0400	0.0450		mg/Kg		113	70 - 125
trans-1,3-Dichloropropene	0.0400	0.0482		mg/Kg		120	70 - 125
1,1,1-Trichloroethane	0.0400	0.0424		mg/Kg		106	70 - 128
1,1,2-Trichloroethane	0.0400	0.0458		mg/Kg		114	70 - 125
Trichloroethene	0.0400	0.0500		mg/Kg		125	70 - 125
Vinyl acetate	0.0400	0.0397		mg/Kg		99	40 - 153
Vinyl chloride	0.0400	0.0388		mg/Kg		97	70 - 125
Xylenes, Total	0.0800	0.0777		mg/Kg		97	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	107		75 - 131
Dibromofluoromethane	99		75 - 126
1,2-Dichloroethane-d4 (Surr)	102		70 - 134
Toluene-d8 (Surr)	100		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

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

Lab Sample ID: LCSD 500-685444/4
Matrix: Solid
Analysis Batch: 685444

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.0400	0.0297		mg/Kg		74	40 - 150	25	30
Benzene	0.0400	0.0398		mg/Kg		99	70 - 125	9	30
Bromodichloromethane	0.0400	0.0413		mg/Kg		103	67 - 129	13	30
Bromoform	0.0400	0.0430		mg/Kg		107	68 - 136	15	30
Bromomethane	0.0400	0.0369		mg/Kg		92	70 - 130	11	30
2-Butanone (MEK)	0.0400	0.0319		mg/Kg		80	47 - 138	15	30
Carbon disulfide	0.0400	0.0402		mg/Kg		101	70 - 129	8	30
Carbon tetrachloride	0.0400	0.0426		mg/Kg		106	75 - 125	6	30
Chlorobenzene	0.0400	0.0423		mg/Kg		106	50 - 150	12	30
Chloroethane	0.0400	0.0371		mg/Kg		93	75 - 125	9	30
Chloroform	0.0400	0.0381		mg/Kg		95	57 - 135	8	30
Chloromethane	0.0400	0.0308		mg/Kg		77	70 - 125	8	30
cis-1,2-Dichloroethene	0.0400	0.0396		mg/Kg		99	70 - 125	7	30
cis-1,3-Dichloropropene	0.0400	0.0374		mg/Kg		93	70 - 125	17	30
Dibromochloromethane	0.0400	0.0403		mg/Kg		101	69 - 125	17	30
1,1-Dichloroethane	0.0400	0.0384		mg/Kg		96	70 - 125	9	30
1,2-Dichloroethane	0.0400	0.0422		mg/Kg		105	70 - 130	13	30
1,1-Dichloroethene	0.0400	0.0425		mg/Kg		106	70 - 120	11	30
1,2-Dichloropropane	0.0400	0.0400		mg/Kg		100	70 - 125	10	30
Ethylbenzene	0.0400	0.0391		mg/Kg		98	61 - 136	9	30
2-Hexanone	0.0400	0.0391		mg/Kg		98	48 - 146	5	30
Methylene Chloride	0.0400	0.0402		mg/Kg		101	70 - 126	13	30
4-Methyl-2-pentanone (MIBK)	0.0400	0.0290		mg/Kg		73	50 - 148	10	30
Methyl tert-butyl ether	0.0400	0.0370		mg/Kg		93	50 - 140	12	30
Styrene	0.0400	0.0422		mg/Kg		105	70 - 125	7	30
1,1,2,2-Tetrachloroethane	0.0400	0.0356		mg/Kg		89	70 - 122	16	30
Tetrachloroethene	0.0400	0.0405		mg/Kg		101	70 - 124	7	30
Toluene	0.0400	0.0354		mg/Kg		89	70 - 125	14	30
trans-1,2-Dichloroethene	0.0400	0.0417		mg/Kg		104	70 - 125	8	30
trans-1,3-Dichloropropene	0.0400	0.0416		mg/Kg		104	70 - 125	15	30
1,1,1-Trichloroethane	0.0400	0.0406		mg/Kg		101	70 - 128	4	30
1,1,2-Trichloroethane	0.0400	0.0391		mg/Kg		98	70 - 125	16	30
Trichloroethene	0.0400	0.0465		mg/Kg		116	70 - 125	7	30
Vinyl acetate	0.0400	0.0364		mg/Kg		91	40 - 153	9	30
Vinyl chloride	0.0400	0.0351		mg/Kg		88	70 - 125	10	30
Xylenes, Total	0.0800	0.0707		mg/Kg		88	53 - 147	9	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	109		75 - 131
Dibromofluoromethane	101		75 - 126
1,2-Dichloroethane-d4 (Surr)	102		70 - 134
Toluene-d8 (Surr)	97		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

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

Lab Sample ID: MB 500-686267/1-A
Matrix: Solid
Analysis Batch: 687051

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686267

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Isophorone	<0.17		0.17	0.037	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Carbazole	<0.17		0.17	0.083	mg/Kg		11/21/22 08:59	11/28/22 12:01	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

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

Lab Sample ID: MB 500-686267/1-A
Matrix: Solid
Analysis Batch: 687051

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686267

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		11/21/22 08:59	11/28/22 12:01	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		11/21/22 08:59	11/28/22 12:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	125		31 - 166	11/21/22 08:59	11/28/22 12:01	1
Phenol-d5	112		30 - 153	11/21/22 08:59	11/28/22 12:01	1
Nitrobenzene-d5 (Surr)	94		37 - 147	11/21/22 08:59	11/28/22 12:01	1
2-Fluorobiphenyl (Surr)	95		43 - 145	11/21/22 08:59	11/28/22 12:01	1
2,4,6-Tribromophenol	84		31 - 143	11/21/22 08:59	11/28/22 12:01	1
Terphenyl-d14 (Surr)	163	S1+	42 - 157	11/21/22 08:59	11/28/22 12:01	1

Lab Sample ID: LCS 500-686267/2-A
Matrix: Solid
Analysis Batch: 687051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686267

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.28		mg/Kg		96	56 - 122
Bis(2-chloroethyl)ether	1.33	1.35		mg/Kg		101	55 - 111
1,3-Dichlorobenzene	1.33	1.26		mg/Kg		95	65 - 124
1,4-Dichlorobenzene	1.33	1.31		mg/Kg		98	61 - 110
1,2-Dichlorobenzene	1.33	1.34		mg/Kg		100	62 - 110
2-Methylphenol	1.33	1.33		mg/Kg		100	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.32		mg/Kg		99	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.47		mg/Kg		110	56 - 118
Hexachloroethane	1.33	1.26		mg/Kg		94	60 - 114
2-Chlorophenol	1.33	1.23		mg/Kg		92	64 - 110
Nitrobenzene	1.33	1.41		mg/Kg		105	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.33		mg/Kg		100	60 - 112
1,2,4-Trichlorobenzene	1.33	1.20		mg/Kg		90	66 - 117
Isophorone	1.33	1.43		mg/Kg		107	55 - 110
2,4-Dimethylphenol	1.33	1.32		mg/Kg		99	60 - 110
Hexachlorobutadiene	1.33	1.14		mg/Kg		86	56 - 120
Naphthalene	1.33	1.41		mg/Kg		106	63 - 110
2,4-Dichlorophenol	1.33	1.14		mg/Kg		86	58 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

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

Lab Sample ID: LCS 500-686267/2-A
Matrix: Solid
Analysis Batch: 687051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686267

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloroaniline	1.33	0.685		mg/Kg		51	30 - 150
2,4,6-Trichlorophenol	1.33	1.22		mg/Kg		92	57 - 120
2,4,5-Trichlorophenol	1.33	1.17		mg/Kg		87	50 - 120
Hexachlorocyclopentadiene	1.33	1.08		mg/Kg		81	10 - 133
2-Methylnaphthalene	1.33	1.22		mg/Kg		91	69 - 112
2-Nitroaniline	1.33	1.39		mg/Kg		105	57 - 124
2-Chloronaphthalene	1.33	1.33		mg/Kg		100	69 - 114
4-Chloro-3-methylphenol	1.33	1.31		mg/Kg		98	65 - 122
2,6-Dinitrotoluene	1.33	1.36		mg/Kg		102	70 - 123
2-Nitrophenol	1.33	1.27		mg/Kg		95	60 - 120
3-Nitroaniline	1.33	0.677		mg/Kg		51	40 - 122
Dimethyl phthalate	1.33	1.43		mg/Kg		107	69 - 116
2,4-Dinitrophenol	2.67	0.954		mg/Kg		36	10 - 100
Acenaphthylene	1.33	1.35		mg/Kg		102	68 - 120
2,4-Dinitrotoluene	1.33	1.41		mg/Kg		105	69 - 124
Acenaphthene	1.33	1.25		mg/Kg		94	65 - 124
Dibenzofuran	1.33	1.27		mg/Kg		96	66 - 115
4-Nitrophenol	2.67	2.29		mg/Kg		86	30 - 122
Fluorene	1.33	1.26		mg/Kg		94	62 - 120
4-Nitroaniline	1.33	1.12		mg/Kg		84	60 - 160
4-Bromophenyl phenyl ether	1.33	1.31		mg/Kg		98	68 - 118
Hexachlorobenzene	1.33	1.36		mg/Kg		102	63 - 124
Diethyl phthalate	1.33	1.32		mg/Kg		99	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.22		mg/Kg		92	62 - 119
Pentachlorophenol	2.67	1.45		mg/Kg		54	13 - 112
N-Nitrosodiphenylamine	1.33	1.24		mg/Kg		93	65 - 112
4,6-Dinitro-2-methylphenol	2.67	1.20		mg/Kg		45	10 - 110
Phenanthrene	1.33	1.28		mg/Kg		96	62 - 120
Anthracene	1.33	1.31		mg/Kg		98	70 - 114
Carbazole	1.33	1.31		mg/Kg		98	65 - 142
Di-n-butyl phthalate	1.33	1.34		mg/Kg		100	65 - 120
Fluoranthene	1.33	1.31		mg/Kg		98	62 - 120
Pyrene	1.33	1.79	*+	mg/Kg		134	61 - 128
Butyl benzyl phthalate	1.33	1.53		mg/Kg		114	71 - 129
Benzo[a]anthracene	1.33	1.57		mg/Kg		118	67 - 122
Chrysene	1.33	1.58		mg/Kg		118	63 - 120
3,3'-Dichlorobenzidine	1.33	1.03		mg/Kg		77	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.47		mg/Kg		110	72 - 131
Di-n-octyl phthalate	1.33	1.02		mg/Kg		76	68 - 134
Benzo[b]fluoranthene	1.33	1.28		mg/Kg		96	69 - 129
Benzo[k]fluoranthene	1.33	1.31		mg/Kg		99	68 - 127
Benzo[a]pyrene	1.33	1.30		mg/Kg		97	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.38		mg/Kg		104	68 - 130
Dibenz(a,h)anthracene	1.33	1.31		mg/Kg		98	64 - 131
Benzo[g,h,i]perylene	1.33	1.37		mg/Kg		103	72 - 131
3 & 4 Methylphenol	1.33	1.31		mg/Kg		98	57 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

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

Lab Sample ID: LCS 500-686267/2-A
Matrix: Solid
Analysis Batch: 687051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686267

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	112		31 - 166
Phenol-d5	102		30 - 153
Nitrobenzene-d5 (Surr)	100		37 - 147
2-Fluorobiphenyl (Surr)	94		43 - 145
2,4,6-Tribromophenol	99		31 - 143
Terphenyl-d14 (Surr)	139		42 - 157

Lab Sample ID: 500-225350-1 MS
Matrix: Solid
Analysis Batch: 687051

Client Sample ID: 1401V3-07-B01 (0-7)
Prep Type: Total/NA
Prep Batch: 686267

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Phenol	<0.20		1.61	1.76		mg/Kg	☼	110	56 - 122
Bis(2-chloroethyl)ether	<0.20	F1	1.61	2.72	F1	mg/Kg	☼	169	55 - 111
1,3-Dichlorobenzene	<0.20		1.61	1.74		mg/Kg	☼	108	60 - 110
1,4-Dichlorobenzene	<0.20		1.61	1.74		mg/Kg	☼	108	61 - 110
1,2-Dichlorobenzene	<0.20	F1	1.61	1.83	F1	mg/Kg	☼	114	62 - 110
2-Methylphenol	<0.20		1.61	1.94		mg/Kg	☼	120	60 - 120
2,2'-oxybis[1-chloropropane]	<0.20		1.61	1.81		mg/Kg	☼	112	40 - 124
N-Nitrosodi-n-propylamine	<0.082	F1	1.61	2.03	F1	mg/Kg	☼	126	56 - 118
Hexachloroethane	<0.20		1.61	1.57		mg/Kg	☼	97	60 - 114
2-Chlorophenol	<0.20		1.61	1.66		mg/Kg	☼	103	64 - 110
Nitrobenzene	<0.040	F1	1.61	1.91	F1	mg/Kg	☼	119	60 - 116
Bis(2-chloroethoxy)methane	<0.20	F1	1.61	1.82	F1	mg/Kg	☼	113	60 - 112
1,2,4-Trichlorobenzene	<0.20		1.61	1.61		mg/Kg	☼	100	66 - 117
Isophorone	<0.20	F1	1.61	1.98	F1	mg/Kg	☼	123	55 - 110
2,4-Dimethylphenol	<0.40	F1	1.61	1.87	F1	mg/Kg	☼	116	60 - 110
Hexachlorobutadiene	<0.20	F1 F2	1.61	1.22		mg/Kg	☼	76	56 - 120
Naphthalene	<0.040	F1	1.61	1.90	F1	mg/Kg	☼	118	63 - 110
2,4-Dichlorophenol	<0.40		1.61	1.64		mg/Kg	☼	102	58 - 120
4-Chloroaniline	<0.82		1.61	1.34		mg/Kg	☼	83	30 - 150
2,4,6-Trichlorophenol	<0.40		1.61	1.67		mg/Kg	☼	104	57 - 120
2,4,5-Trichlorophenol	<0.40		1.61	1.75		mg/Kg	☼	109	50 - 120
Hexachlorocyclopentadiene	<0.82	F2	1.61	1.33		mg/Kg	☼	83	10 - 133
2-Methylnaphthalene	<0.082		1.61	1.65		mg/Kg	☼	103	69 - 112
2-Nitroaniline	<0.20		1.61	1.94		mg/Kg	☼	121	57 - 124
2-Chloronaphthalene	<0.20		1.61	1.75		mg/Kg	☼	109	69 - 114
4-Chloro-3-methylphenol	<0.40		1.61	1.69		mg/Kg	☼	105	65 - 122
2,6-Dinitrotoluene	<0.20		1.61	1.80		mg/Kg	☼	112	70 - 123
2-Nitrophenol	<0.40		1.61	1.74		mg/Kg	☼	108	60 - 120
3-Nitroaniline	<0.40		1.61	1.64		mg/Kg	☼	102	40 - 122
Dimethyl phthalate	<0.20	F1	1.61	1.96	F1	mg/Kg	☼	122	69 - 116
2,4-Dinitrophenol	<0.82	F2	3.22	1.52		mg/Kg	☼	47	10 - 100
Acenaphthylene	<0.040		1.61	1.79		mg/Kg	☼	111	68 - 120
2,4-Dinitrotoluene	<0.20		1.61	1.91		mg/Kg	☼	119	69 - 124
Acenaphthene	<0.040		1.61	1.71		mg/Kg	☼	106	65 - 124
Dibenzofuran	<0.20		1.61	1.74		mg/Kg	☼	108	66 - 115
4-Nitrophenol	<0.82	F2	3.22	3.20		mg/Kg	☼	99	30 - 122

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

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

Lab Sample ID: 500-225350-1 MS
Matrix: Solid
Analysis Batch: 687051

Client Sample ID: 1401V3-07-B01 (0-7)
Prep Type: Total/NA
Prep Batch: 686267

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Fluorene	<0.040		1.61	1.71		mg/Kg	☼	106	62 - 120	
4-Nitroaniline	<0.40		1.61	1.65		mg/Kg	☼	103	60 - 160	
4-Bromophenyl phenyl ether	<0.20		1.61	1.70		mg/Kg	☼	106	68 - 118	
Hexachlorobenzene	<0.082		1.61	1.78		mg/Kg	☼	111	63 - 124	
Diethyl phthalate	<0.20		1.61	1.83		mg/Kg	☼	114	58 - 120	
4-Chlorophenyl phenyl ether	<0.20		1.61	1.70		mg/Kg	☼	105	62 - 119	
Pentachlorophenol	<0.82	F2	3.22	2.05		mg/Kg	☼	64	13 - 112	
N-Nitrosodiphenylamine	<0.20		1.61	1.65		mg/Kg	☼	103	65 - 112	
4,6-Dinitro-2-methylphenol	<0.82	F2	3.22	1.98		mg/Kg	☼	62	10 - 110	
Phenanthrene	<0.040		1.61	1.69		mg/Kg	☼	105	62 - 120	
Anthracene	<0.040		1.61	1.73		mg/Kg	☼	108	70 - 114	
Carbazole	<0.20		1.61	1.77		mg/Kg	☼	110	65 - 142	
Di-n-butyl phthalate	<0.20		1.61	1.80		mg/Kg	☼	112	65 - 120	
Fluoranthene	<0.040		1.61	1.74		mg/Kg	☼	108	62 - 120	
Pyrene	<0.040	*+ F1	1.61	2.41	F1	mg/Kg	☼	150	61 - 128	
Butyl benzyl phthalate	<0.20	F1	1.61	2.11	F1	mg/Kg	☼	131	71 - 129	
Benzo[a]anthracene	<0.040	F1	1.61	2.14	F1	mg/Kg	☼	133	67 - 122	
Chrysene	<0.040	F1	1.61	2.14	F1	mg/Kg	☼	133	63 - 120	
3,3'-Dichlorobenzidine	<0.20		1.61	1.56		mg/Kg	☼	97	35 - 128	
Bis(2-ethylhexyl) phthalate	<0.20		1.61	2.03		mg/Kg	☼	126	72 - 131	
Di-n-octyl phthalate	<0.20		1.61	1.37		mg/Kg	☼	85	68 - 134	
Benzo[b]fluoranthene	<0.040		1.61	1.68		mg/Kg	☼	104	69 - 129	
Benzo[k]fluoranthene	<0.040		1.61	1.68		mg/Kg	☼	105	68 - 127	
Benzo[a]pyrene	<0.040		1.61	1.71		mg/Kg	☼	106	65 - 133	
Indeno[1,2,3-cd]pyrene	<0.040		1.61	1.79		mg/Kg	☼	111	68 - 130	
Dibenz(a,h)anthracene	<0.040		1.61	1.69		mg/Kg	☼	105	64 - 131	
Benzo[g,h,i]perylene	<0.040		1.61	1.75		mg/Kg	☼	109	72 - 131	
3 & 4 Methylphenol	<0.20		1.61	1.84		mg/Kg	☼	114	57 - 120	

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	118		31 - 166
Phenol-d5	114		30 - 153
Nitrobenzene-d5 (Surr)	109		37 - 147
2-Fluorobiphenyl (Surr)	104		43 - 145
2,4,6-Tribromophenol	104		31 - 143
Terphenyl-d14 (Surr)	154		42 - 157

Lab Sample ID: 500-225350-1 MSD
Matrix: Solid
Analysis Batch: 687051

Client Sample ID: 1401V3-07-B01 (0-7)
Prep Type: Total/NA
Prep Batch: 686267

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Phenol	<0.20		1.62	1.48		mg/Kg	☼	91	56 - 122	18	30	
Bis(2-chloroethyl)ether	<0.20	F1	1.62	2.04	F1	mg/Kg	☼	126	55 - 111	29	30	
1,3-Dichlorobenzene	<0.20		1.62	1.37		mg/Kg	☼	84	60 - 110	24	30	
1,4-Dichlorobenzene	<0.20		1.62	1.40		mg/Kg	☼	86	61 - 110	22	30	
1,2-Dichlorobenzene	<0.20	F1	1.62	1.46		mg/Kg	☼	90	62 - 110	23	30	
2-Methylphenol	<0.20		1.62	1.73		mg/Kg	☼	107	60 - 120	11	30	

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

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

Lab Sample ID: 500-225350-1 MSD

Matrix: Solid

Analysis Batch: 687051

Client Sample ID: 1401V3-07-B01 (0-7)

Prep Type: Total/NA

Prep Batch: 686267

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
2,2'-oxybis[1-chloropropane]	<0.20		1.62	1.56		mg/Kg	☼	96	40 - 124	15	30
N-Nitrosodi-n-propylamine	<0.082	F1	1.62	1.78		mg/Kg	☼	110	56 - 118	13	30
Hexachloroethane	<0.20		1.62	1.24		mg/Kg	☼	76	60 - 114	24	30
2-Chlorophenol	<0.20		1.62	1.44		mg/Kg	☼	89	64 - 110	14	30
Nitrobenzene	<0.040	F1	1.62	1.60		mg/Kg	☼	99	60 - 116	18	30
Bis(2-chloroethoxy)methane	<0.20	F1	1.62	1.52		mg/Kg	☼	94	60 - 112	18	30
1,2,4-Trichlorobenzene	<0.20		1.62	1.27		mg/Kg	☼	78	66 - 117	24	30
Isophorone	<0.20	F1	1.62	1.65		mg/Kg	☼	102	55 - 110	19	30
2,4-Dimethylphenol	<0.40	F1	1.62	1.50		mg/Kg	☼	92	60 - 110	22	30
Hexachlorobutadiene	<0.20	F1 F2	1.62	0.889	F1 F2	mg/Kg	☼	55	56 - 120	31	30
Naphthalene	<0.040	F1	1.62	1.57		mg/Kg	☼	97	63 - 110	19	30
2,4-Dichlorophenol	<0.40		1.62	1.37		mg/Kg	☼	85	58 - 120	18	30
4-Chloroaniline	<0.82		1.62	1.23		mg/Kg	☼	76	30 - 150	8	30
2,4,6-Trichlorophenol	<0.40		1.62	1.42		mg/Kg	☼	87	57 - 120	17	30
2,4,5-Trichlorophenol	<0.40		1.62	1.42		mg/Kg	☼	88	50 - 120	21	30
Hexachlorocyclopentadiene	<0.82	F2	1.62	0.910	F2	mg/Kg	☼	56	10 - 133	38	30
2-Methylnaphthalene	<0.082		1.62	1.37		mg/Kg	☼	84	69 - 112	19	30
2-Nitroaniline	<0.20		1.62	1.59		mg/Kg	☼	98	57 - 124	20	30
2-Chloronaphthalene	<0.20		1.62	1.49		mg/Kg	☼	92	69 - 114	16	30
4-Chloro-3-methylphenol	<0.40		1.62	1.46		mg/Kg	☼	90	65 - 122	14	30
2,6-Dinitrotoluene	<0.20		1.62	1.54		mg/Kg	☼	95	70 - 123	16	30
2-Nitrophenol	<0.40		1.62	1.44		mg/Kg	☼	89	60 - 120	19	30
3-Nitroaniline	<0.40		1.62	1.42		mg/Kg	☼	87	40 - 122	15	30
Dimethyl phthalate	<0.20	F1	1.62	1.64		mg/Kg	☼	101	69 - 116	18	30
2,4-Dinitrophenol	<0.82	F2	3.24	0.901	F2	mg/Kg	☼	28	10 - 100	51	30
Acenaphthylene	<0.040		1.62	1.54		mg/Kg	☼	95	68 - 120	15	30
2,4-Dinitrotoluene	<0.20		1.62	1.65		mg/Kg	☼	101	69 - 124	15	30
Acenaphthene	<0.040		1.62	1.43		mg/Kg	☼	88	65 - 124	18	30
Dibenzofuran	<0.20		1.62	1.48		mg/Kg	☼	91	66 - 115	16	30
4-Nitrophenol	<0.82	F2	3.24	2.00	F2	mg/Kg	☼	62	30 - 122	46	30
Fluorene	<0.040		1.62	1.44		mg/Kg	☼	89	62 - 120	17	30
4-Nitroaniline	<0.40		1.62	1.42		mg/Kg	☼	87	60 - 160	15	30
4-Bromophenyl phenyl ether	<0.20		1.62	1.52		mg/Kg	☼	93	68 - 118	12	30
Hexachlorobenzene	<0.082		1.62	1.61		mg/Kg	☼	99	63 - 124	10	30
Diethyl phthalate	<0.20		1.62	1.50		mg/Kg	☼	92	58 - 120	20	30
4-Chlorophenyl phenyl ether	<0.20		1.62	1.42		mg/Kg	☼	87	62 - 119	18	30
Pentachlorophenol	<0.82	F2	3.24	1.24	F2	mg/Kg	☼	38	13 - 112	50	30
N-Nitrosodiphenylamine	<0.20		1.62	1.37		mg/Kg	☼	84	65 - 112	19	30
4,6-Dinitro-2-methylphenol	<0.82	F2	3.24	1.12	F2	mg/Kg	☼	34	10 - 110	56	30
Phenanthrene	<0.040		1.62	1.50		mg/Kg	☼	92	62 - 120	12	30
Anthracene	<0.040		1.62	1.51		mg/Kg	☼	93	70 - 114	14	30
Carbazole	<0.20		1.62	1.48		mg/Kg	☼	91	65 - 142	18	30
Di-n-butyl phthalate	<0.20		1.62	1.53		mg/Kg	☼	94	65 - 120	17	30
Fluoranthene	<0.040		1.62	1.54		mg/Kg	☼	95	62 - 120	13	30
Pyrene	<0.040	*+ F1	1.62	2.04		mg/Kg	☼	126	61 - 128	16	30
Butyl benzyl phthalate	<0.20	F1	1.62	1.82		mg/Kg	☼	112	71 - 129	15	30
Benzo[a]anthracene	<0.040	F1	1.62	1.82		mg/Kg	☼	112	67 - 122	16	30
Chrysene	<0.040	F1	1.62	1.81		mg/Kg	☼	112	63 - 120	16	30
3,3'-Dichlorobenzidine	<0.20		1.62	1.37		mg/Kg	☼	84	35 - 128	13	30

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

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

Lab Sample ID: 500-225350-1 MSD

Matrix: Solid

Analysis Batch: 687051

Client Sample ID: 1401V3-07-B01 (0-7)

Prep Type: Total/NA

Prep Batch: 686267

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Bis(2-ethylhexyl) phthalate	<0.20		1.62	1.73		mg/Kg	☼	107	72 - 131	16	30
Di-n-octyl phthalate	<0.20		1.62	1.21		mg/Kg	☼	74	68 - 134	13	30
Benzo[b]fluoranthene	<0.040		1.62	1.45		mg/Kg	☼	90	69 - 129	14	30
Benzo[k]fluoranthene	<0.040		1.62	1.51		mg/Kg	☼	93	68 - 127	11	30
Benzo[a]pyrene	<0.040		1.62	1.52		mg/Kg	☼	94	65 - 133	11	30
Indeno[1,2,3-cd]pyrene	<0.040		1.62	1.57		mg/Kg	☼	97	68 - 130	13	30
Dibenz(a,h)anthracene	<0.040		1.62	1.49		mg/Kg	☼	92	64 - 131	13	30
Benzo[g,h,i]perylene	<0.040		1.62	1.50		mg/Kg	☼	93	72 - 131	15	30
3 & 4 Methylphenol	<0.20		1.62	1.65		mg/Kg	☼	102	57 - 120	11	30
Surrogate	MSD	MSD	Limits								
	%Recovery	Qualifier									
2-Fluorophenol	109		31 - 166								
Phenol-d5	100		30 - 153								
Nitrobenzene-d5 (Surr)	93		37 - 147								
2-Fluorobiphenyl (Surr)	89		43 - 145								
2,4,6-Tribromophenol	86		31 - 143								
Terphenyl-d14 (Surr)	131		42 - 157								

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-685972/2-A

Matrix: Solid

Analysis Batch: 686467

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 685972

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	Limits
		Result	Qualifier					
Barium	0.500	0.497	J	mg/L		99	80 - 120	
Beryllium	0.0500	0.0485		mg/L		97	80 - 120	
Boron	1.00	0.913		mg/L		91	80 - 120	
Cadmium	0.0500	0.0513		mg/L		103	80 - 120	
Chromium	0.200	0.193		mg/L		97	80 - 120	
Cobalt	0.500	0.509		mg/L		102	80 - 120	
Iron	1.00	0.979		mg/L		98	80 - 120	
Lead	0.100	0.0934		mg/L		93	80 - 120	
Manganese	0.500	0.478		mg/L		96	80 - 120	
Nickel	0.500	0.492		mg/L		98	80 - 120	
Selenium	0.100	0.108		mg/L		108	80 - 120	
Silver	0.0500	0.0532		mg/L		106	80 - 120	
Zinc	0.500	0.524		mg/L		105	80 - 120	

Lab Sample ID: LCS 500-685975/2-A

Matrix: Solid

Analysis Batch: 686681

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 685975

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	Limits
		Result	Qualifier					
Iron	1.00	1.02		mg/L		102	80 - 120	
Lead	0.100	0.0911		mg/L		91	80 - 120	
Manganese	0.500	0.480		mg/L		96	80 - 120	

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 500-686603/1-A
Matrix: Solid
Analysis Batch: 687213

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686603

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		11/22/22 17:12	11/28/22 17:17	1
Arsenic	<1.0		1.0	0.34	mg/Kg		11/22/22 17:12	11/28/22 17:17	1
Barium	<1.0		1.0	0.11	mg/Kg		11/22/22 17:12	11/28/22 17:17	1
Beryllium	<0.40		0.40	0.093	mg/Kg		11/22/22 17:12	11/28/22 17:17	1
Boron	<5.0		5.0	0.47	mg/Kg		11/22/22 17:12	11/28/22 17:17	1
Cadmium	<0.20		0.20	0.036	mg/Kg		11/22/22 17:12	11/28/22 17:17	1
Calcium	13.3	J	20	3.4	mg/Kg		11/22/22 17:12	11/28/22 17:17	1
Chromium	<1.0		1.0	0.50	mg/Kg		11/22/22 17:12	11/28/22 17:17	1
Cobalt	<0.50		0.50	0.13	mg/Kg		11/22/22 17:12	11/28/22 17:17	1
Copper	<1.0		1.0	0.28	mg/Kg		11/22/22 17:12	11/28/22 17:17	1
Iron	10.6	J	20	10	mg/Kg		11/22/22 17:12	11/28/22 17:17	1
Lead	<0.50		0.50	0.23	mg/Kg		11/22/22 17:12	11/28/22 17:17	1
Magnesium	9.46	J	10	5.0	mg/Kg		11/22/22 17:12	11/28/22 17:17	1
Manganese	<1.0		1.0	0.15	mg/Kg		11/22/22 17:12	11/28/22 17:17	1
Nickel	<1.0		1.0	0.29	mg/Kg		11/22/22 17:12	11/28/22 17:17	1
Potassium	<50		50	18	mg/Kg		11/22/22 17:12	11/28/22 17:17	1
Selenium	<1.0		1.0	0.59	mg/Kg		11/22/22 17:12	11/28/22 17:17	1
Silver	0.134	J	0.50	0.13	mg/Kg		11/22/22 17:12	11/28/22 17:17	1
Sodium	<100		100	15	mg/Kg		11/22/22 17:12	11/28/22 17:17	1
Thallium	<1.0		1.0	0.50	mg/Kg		11/22/22 17:12	11/28/22 17:17	1
Vanadium	<0.50		0.50	0.12	mg/Kg		11/22/22 17:12	11/28/22 17:17	1
Zinc	<2.0		2.0	0.88	mg/Kg		11/22/22 17:12	11/28/22 17:17	1

Lab Sample ID: LCS 500-686603/2-A
Matrix: Solid
Analysis Batch: 687213

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686603

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Antimony	50.0	44.9		mg/Kg		90	80 - 120
Arsenic	10.0	9.35		mg/Kg		93	80 - 120
Barium	200	198		mg/Kg		99	80 - 120
Beryllium	5.00	4.43		mg/Kg		89	80 - 120
Boron	100	85.8		mg/Kg		86	80 - 120
Cadmium	5.00	4.56		mg/Kg		91	80 - 120
Calcium	1000	942		mg/Kg		94	80 - 120
Chromium	20.0	18.9		mg/Kg		95	80 - 120
Cobalt	50.0	48.2		mg/Kg		96	80 - 120
Copper	25.0	24.8		mg/Kg		99	80 - 120
Iron	100	93.1		mg/Kg		93	80 - 120
Lead	10.0	9.32		mg/Kg		93	80 - 120
Magnesium	1000	908		mg/Kg		91	80 - 120
Manganese	50.0	45.8		mg/Kg		92	80 - 120
Nickel	50.0	47.2		mg/Kg		94	80 - 120
Potassium	1000	982		mg/Kg		98	80 - 120
Selenium	10.0	8.48		mg/Kg		85	80 - 120
Silver	5.00	4.37		mg/Kg		87	80 - 120
Sodium	1000	992		mg/Kg		99	80 - 120
Thallium	10.0	9.34		mg/Kg		93	80 - 120
Vanadium	50.0	47.1		mg/Kg		94	80 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-686603/2-A
Matrix: Solid
Analysis Batch: 687213

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686603

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	50.0	46.1		mg/Kg		92	80 - 120

Lab Sample ID: 500-225350-2 MS
Matrix: Solid
Analysis Batch: 687213

Client Sample ID: 1401V3-07-B01 (7-13)
Prep Type: Total/NA
Prep Batch: 686603

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.43	J F1	28.2	6.10	F1	mg/Kg	⊛	20	75 - 125
Arsenic	11	F1	5.65	16.1		mg/Kg	⊛	88	75 - 125
Barium	19		113	117		mg/Kg	⊛	87	75 - 125
Beryllium	0.63		2.82	2.94		mg/Kg	⊛	82	75 - 125
Boron	9.7		56.5	52.6		mg/Kg	⊛	76	75 - 125
Cadmium	0.28		2.82	2.62		mg/Kg	⊛	83	75 - 125
Chromium	11		11.3	20.9		mg/Kg	⊛	90	75 - 125
Cobalt	11		28.2	38.4		mg/Kg	⊛	98	75 - 125
Copper	30		14.1	42.4		mg/Kg	⊛	87	75 - 125
Iron	18000	B	56.5	18800	4	mg/Kg	⊛	1159	75 - 125
Lead	18		5.65	23.9		mg/Kg	⊛	105	75 - 125
Magnesium	24000	B	565	24700	4	mg/Kg	⊛	165	75 - 125
Manganese	350		28.2	386	4	mg/Kg	⊛	130	75 - 125
Nickel	26		28.2	53.6		mg/Kg	⊛	99	75 - 125
Potassium	1900	F1	565	3390	F1	mg/Kg	⊛	270	75 - 125
Selenium	<0.54	F1	5.65	4.01	F1	mg/Kg	⊛	71	75 - 125
Silver	0.31	B	2.82	2.49		mg/Kg	⊛	77	75 - 125
Sodium	140		565	655		mg/Kg	⊛	92	75 - 125
Thallium	0.33	J	5.65	4.85		mg/Kg	⊛	80	75 - 125
Vanadium	14		28.2	39.0		mg/Kg	⊛	89	75 - 125
Zinc	90		28.2	118		mg/Kg	⊛	100	75 - 125

Lab Sample ID: 500-225350-2 MS
Matrix: Solid
Analysis Batch: 687341

Client Sample ID: 1401V3-07-B01 (7-13)
Prep Type: Total/NA
Prep Batch: 686603

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	43000	B	565	44200	4	mg/Kg	⊛	185	75 - 125

Lab Sample ID: 500-225350-2 MSD
Matrix: Solid
Analysis Batch: 687213

Client Sample ID: 1401V3-07-B01 (7-13)
Prep Type: Total/NA
Prep Batch: 686603

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Antimony	0.43	J F1	27.8	6.64	F1	mg/Kg	⊛	22	75 - 125	9	20
Arsenic	11	F1	5.56	15.2	F1	mg/Kg	⊛	74	75 - 125	6	20
Barium	19		111	118		mg/Kg	⊛	89	75 - 125	1	20
Beryllium	0.63		2.78	2.99		mg/Kg	⊛	85	75 - 125	2	20
Boron	9.7		55.6	54.6		mg/Kg	⊛	81	75 - 125	4	20
Cadmium	0.28		2.78	2.63		mg/Kg	⊛	84	75 - 125	0	20
Chromium	11		11.1	21.2		mg/Kg	⊛	94	75 - 125	1	20
Cobalt	11		27.8	38.1		mg/Kg	⊛	98	75 - 125	1	20

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-225350-2 MSD
Matrix: Solid
Analysis Batch: 687213

Client Sample ID: 1401V3-07-B01 (7-13)
Prep Type: Total/NA
Prep Batch: 686603

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result			Result	Qualifier				Limits		Limit
Copper	30		13.9	41.8		mg/Kg	⊛	84	75 - 125	2	20
Iron	18000	B	55.6	19300	4	mg/Kg	⊛	1979	75 - 125	2	20
Lead	18		5.56	22.2		mg/Kg	⊛	76	75 - 125	7	20
Magnesium	24000	B	556	27900	4	mg/Kg	⊛	745	75 - 125	12	20
Manganese	350		27.8	391	4	mg/Kg	⊛	149	75 - 125	1	20
Nickel	26		27.8	51.7		mg/Kg	⊛	94	75 - 125	4	20
Potassium	1900	F1	556	3570	F1	mg/Kg	⊛	308	75 - 125	5	20
Selenium	<0.54	F1	5.56	4.22		mg/Kg	⊛	76	75 - 125	5	20
Silver	0.31	B	2.78	2.52		mg/Kg	⊛	79	75 - 125	1	20
Sodium	140		556	664		mg/Kg	⊛	95	75 - 125	1	20
Thallium	0.33	J	5.56	4.82		mg/Kg	⊛	81	75 - 125	1	20
Vanadium	14		27.8	40.6		mg/Kg	⊛	96	75 - 125	4	20
Zinc	90		27.8	114		mg/Kg	⊛	86	75 - 125	4	20

Lab Sample ID: 500-225350-2 MSD
Matrix: Solid
Analysis Batch: 687341

Client Sample ID: 1401V3-07-B01 (7-13)
Prep Type: Total/NA
Prep Batch: 686603

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result			Result	Qualifier				Limits		Limit
Calcium	43000	B	556	49400	4	mg/Kg	⊛	1124	75 - 125	11	20

Lab Sample ID: 500-225350-2 DU
Matrix: Solid
Analysis Batch: 687213

Client Sample ID: 1401V3-07-B01 (7-13)
Prep Type: Total/NA
Prep Batch: 686603

Analyte	Sample	Sample Qualifier	DU Result	DU	Unit	D	RPD	RPD
	Result			Qualifier				Limit
Antimony	0.43	J F1	0.519	J	mg/Kg	⊛	18	20
Arsenic	11	F1	11.0		mg/Kg	⊛	0.1	20
Barium	19		20.3		mg/Kg	⊛	5	20
Beryllium	0.63		0.652		mg/Kg	⊛	3	20
Boron	9.7		10.3		mg/Kg	⊛	6	20
Cadmium	0.28		0.267		mg/Kg	⊛	5	20
Chromium	11		11.4		mg/Kg	⊛	6	20
Cobalt	11		11.6		mg/Kg	⊛	8	20
Copper	30		29.3		mg/Kg	⊛	3	20
Iron	18000	B	18000		mg/Kg	⊛	1	20
Lead	18		17.5		mg/Kg	⊛	3	20
Magnesium	24000	B	24000		mg/Kg	⊛	0.8	20
Manganese	350		355		mg/Kg	⊛	1	20
Nickel	26		27.1		mg/Kg	⊛	5	20
Potassium	1900	F1	2080		mg/Kg	⊛	11	20
Selenium	<0.54	F1	<0.57		mg/Kg	⊛	NC	20
Silver	0.31	B	0.250	J F5	mg/Kg	⊛	22	20
Sodium	140		139		mg/Kg	⊛	2	20
Thallium	0.33	J	0.419	J F5	mg/Kg	⊛	23	20
Vanadium	14		14.5		mg/Kg	⊛	4	20
Zinc	90		92.2		mg/Kg	⊛	3	20

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-225350-2 DU
Matrix: Solid
Analysis Batch: 687341

Client Sample ID: 1401V3-07-B01 (7-13)
Prep Type: Total/NA
Prep Batch: 686603

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Calcium	43000	B	44000		mg/Kg	*	2	20

Lab Sample ID: LB 500-685685/1-B
Matrix: Solid
Analysis Batch: 686467

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685972

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		11/18/22 19:06	11/21/22 19:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/18/22 19:06	11/21/22 19:57	1
Boron	<0.50		0.50	0.050	mg/L		11/18/22 19:06	11/21/22 19:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/18/22 19:06	11/21/22 19:57	1
Chromium	<0.025		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 19:57	1
Cobalt	<0.025		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 19:57	1
Iron	<0.40		0.40	0.20	mg/L		11/18/22 19:06	11/21/22 19:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/18/22 19:06	11/21/22 19:57	1
Manganese	<0.025		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 19:57	1
Nickel	<0.025		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 19:57	1
Selenium	<0.050		0.050	0.020	mg/L		11/18/22 19:06	11/21/22 19:57	1
Silver	<0.025		0.025	0.010	mg/L		11/18/22 19:06	11/21/22 19:57	1
Zinc	<0.50		0.50	0.020	mg/L		11/18/22 19:06	11/21/22 19:57	1

Lab Sample ID: LB 500-685633/1-B
Matrix: Solid
Analysis Batch: 686681

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 685975

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Iron	<0.20		0.20	0.20	mg/L		11/18/22 19:12	11/22/22 18:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/18/22 19:12	11/22/22 18:08	1
Manganese	<0.025		0.025	0.010	mg/L		11/18/22 19:12	11/22/22 18:08	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-685972/2-A
Matrix: Solid
Analysis Batch: 687307

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685972

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.112		mg/L		112	80 - 120

Lab Sample ID: LB 500-685685/1-B
Matrix: Solid
Analysis Batch: 687307

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685972

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		11/18/22 19:06	11/28/22 22:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/18/22 19:06	11/28/22 22:09	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-686319/12-A
Matrix: Solid
Analysis Batch: 686552

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686319

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/21/22 10:20	11/22/22 09:12	1

Lab Sample ID: LCS 500-686319/14-A
Matrix: Solid
Analysis Batch: 686552

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686319

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00184		mg/L		93	80 - 120

Lab Sample ID: LB 500-685685/1-C
Matrix: Solid
Analysis Batch: 686552

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 686319

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/21/22 10:20	11/22/22 09:15	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-686735/12-A
Matrix: Solid
Analysis Batch: 687066

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686735

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		11/23/22 15:45	11/28/22 07:23	1

Lab Sample ID: LCS 500-686735/13-A
Matrix: Solid
Analysis Batch: 687066

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686735

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.149		mg/Kg		90	80 - 120

Lab Sample ID: 500-225350-3 MS
Matrix: Solid
Analysis Batch: 687066

Client Sample ID: 1401V3-07-B02 (0-5)
Prep Type: Total/NA
Prep Batch: 686735

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.037		0.0940	0.122		mg/Kg	☼	90	75 - 125

Lab Sample ID: 500-225350-3 MSD
Matrix: Solid
Analysis Batch: 687066

Client Sample ID: 1401V3-07-B02 (0-5)
Prep Type: Total/NA
Prep Batch: 686735

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.037		0.0942	0.134		mg/Kg	☼	103	75 - 125	10	20

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

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

Lab Sample ID: 500-225350-3 DU
Matrix: Solid
Analysis Batch: 687066

Client Sample ID: 1401V3-07-B02 (0-5)
Prep Type: Total/NA
Prep Batch: 686735

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.037		0.0379		mg/Kg	✱	1	20

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

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B01 (0-7)

Lab Sample ID: 500-225350-1

Date Collected: 11/11/22 11:00

Matrix: Solid

Date Received: 11/11/22 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	3010A			685972	LMB	EET CHI	11/18/22 19:06 - 11/18/22 19:36 ¹
TCLP	Analysis	6010B		1	686467	JJB	EET CHI	11/21/22 20:57
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	3010A			685972	LMB	EET CHI	11/18/22 19:06 - 11/18/22 19:36 ¹
TCLP	Analysis	6020A		1	687307	FXG	EET CHI	11/28/22 22:16
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	7470A			686319	MJG	EET CHI	11/21/22 10:20 - 11/21/22 12:20 ¹
TCLP	Analysis	7470A		1	686552	MJG	EET CHI	11/22/22 10:05
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 17:07
Total/NA	Analysis	Moisture		1	686572	LWN	EET CHI	11/22/22 15:02

Client Sample ID: 1401V3-07-B01 (0-7)

Lab Sample ID: 500-225350-1

Date Collected: 11/11/22 11:00

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684703	WRE	EET CHI	11/11/22 18:10
Total/NA	Analysis	8260B		1	685181	W1T	EET CHI	11/16/22 18:01
Total/NA	Prep	3541			686267	KN	EET CHI	11/21/22 08:59 - 11/21/22 15:30 ¹
Total/NA	Analysis	8270D		1	687051	SS	EET CHI	11/28/22 12:48
Total/NA	Prep	3050B			686603	LMB	EET CHI	11/22/22 17:12 - 11/22/22 17:42 ¹
Total/NA	Analysis	6010B		1	687213	JJB	EET CHI	11/28/22 17:24
Total/NA	Prep	7471B			686735	MJG	EET CHI	11/23/22 15:45
Total/NA	Analysis	7471B		1	687066	MJG	EET CHI	11/28/22 07:44

Client Sample ID: 1401V3-07-B01 (7-13)

Lab Sample ID: 500-225350-2

Date Collected: 11/11/22 11:05

Matrix: Solid

Date Received: 11/11/22 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685633	AW	EET CHI	11/17/22 12:02 - 11/18/22 06:02 ¹
SPLP East	Prep	3010A			685975	LMB	EET CHI	11/18/22 19:12 - 11/18/22 19:42 ¹
SPLP East	Analysis	6010B		1	686681	JJB	EET CHI	11/22/22 18:59
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	3010A			685972	LMB	EET CHI	11/18/22 19:06 - 11/18/22 19:36 ¹
TCLP	Analysis	6010B		1	686467	JJB	EET CHI	11/21/22 21:00
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	3010A			685972	LMB	EET CHI	11/18/22 19:06 - 11/18/22 19:36 ¹
TCLP	Analysis	6020A		1	687307	FXG	EET CHI	11/28/22 22:20
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	7470A			686319	MJG	EET CHI	11/21/22 10:20 - 11/21/22 12:20 ¹
TCLP	Analysis	7470A		1	686552	MJG	EET CHI	11/22/22 10:07
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 17:10
Total/NA	Analysis	Moisture		1	686572	LWN	EET CHI	11/22/22 15:02

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B01 (7-13)

Lab Sample ID: 500-225350-2

Date Collected: 11/11/22 11:05

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684703	WRE	EET CHI	11/11/22 18:10
Total/NA	Analysis	8260B		1	685181	W1T	EET CHI	11/16/22 18:26
Total/NA	Prep	3541			686267	KN	EET CHI	11/21/22 08:59 - 11/21/22 15:30 ¹
Total/NA	Analysis	8270D		1	687051	SS	EET CHI	11/28/22 13:59
Total/NA	Prep	3050B			686603	LMB	EET CHI	11/22/22 17:12 - 11/22/22 17:42 ¹
Total/NA	Analysis	6010B		1	687213	JJB	EET CHI	11/28/22 17:27
Total/NA	Prep	3050B			686603	LMB	EET CHI	11/22/22 17:12 - 11/22/22 17:42 ¹
Total/NA	Analysis	6010B		5	687341	JJB	EET CHI	11/29/22 10:22
Total/NA	Prep	7471B			686735	MJG	EET CHI	11/23/22 15:45
Total/NA	Analysis	7471B		1	687066	MJG	EET CHI	11/28/22 07:46

Client Sample ID: 1401V3-07-B02 (0-5)

Lab Sample ID: 500-225350-3

Date Collected: 11/11/22 10:40

Matrix: Solid

Date Received: 11/11/22 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685633	AW	EET CHI	11/17/22 12:02 - 11/18/22 06:02 ¹
SPLP East	Prep	3010A			685975	LMB	EET CHI	11/18/22 19:12 - 11/18/22 19:42 ¹
SPLP East	Analysis	6010B		1	686681	JJB	EET CHI	11/22/22 19:03
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	3010A			685972	LMB	EET CHI	11/18/22 19:06 - 11/18/22 19:36 ¹
TCLP	Analysis	6010B		1	686467	JJB	EET CHI	11/21/22 21:03
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	3010A			685972	LMB	EET CHI	11/18/22 19:06 - 11/18/22 19:36 ¹
TCLP	Analysis	6020A		1	687307	FXG	EET CHI	11/28/22 22:23
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	7470A			686319	MJG	EET CHI	11/21/22 10:20 - 11/21/22 12:20 ¹
TCLP	Analysis	7470A		1	686552	MJG	EET CHI	11/22/22 10:09
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 17:12
Total/NA	Analysis	Moisture		1	686572	LWN	EET CHI	11/22/22 15:02

Client Sample ID: 1401V3-07-B02 (0-5)

Lab Sample ID: 500-225350-3

Date Collected: 11/11/22 10:40

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684703	WRE	EET CHI	11/11/22 18:10
Total/NA	Analysis	8260B		1	685183	W1T	EET CHI	11/16/22 17:03
Total/NA	Prep	3541			686267	KN	EET CHI	11/21/22 08:59 - 11/21/22 15:30 ¹
Total/NA	Analysis	8270D		1	687051	SS	EET CHI	11/28/22 14:22
Total/NA	Prep	3050B			686603	LMB	EET CHI	11/22/22 17:12 - 11/22/22 17:42 ¹
Total/NA	Analysis	6010B		1	687213	JJB	EET CHI	11/28/22 17:43
Total/NA	Prep	7471B			686735	MJG	EET CHI	11/23/22 15:45
Total/NA	Analysis	7471B		1	687066	MJG	EET CHI	11/28/22 07:48

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B02 (5-9)

Lab Sample ID: 500-225350-4

Date Collected: 11/11/22 10:45

Matrix: Solid

Date Received: 11/11/22 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	3010A			685972	LMB	EET CHI	11/18/22 19:06 - 11/18/22 19:36 ¹
TCLP	Analysis	6010B		1	686467	JJJ	EET CHI	11/21/22 21:07
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	3010A			685972	LMB	EET CHI	11/18/22 19:06 - 11/18/22 19:36 ¹
TCLP	Analysis	6020A		1	687307	FXG	EET CHI	11/28/22 22:27
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	7470A			686319	MJG	EET CHI	11/21/22 10:20 - 11/21/22 12:20 ¹
TCLP	Analysis	7470A		1	686552	MJG	EET CHI	11/22/22 10:11
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 17:15
Total/NA	Analysis	Moisture		1	686572	LWN	EET CHI	11/22/22 15:02

Client Sample ID: 1401V3-07-B02 (5-9)

Lab Sample ID: 500-225350-4

Date Collected: 11/11/22 10:45

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684703	WRE	EET CHI	11/11/22 18:10
Total/NA	Analysis	8260B		1	685444	W1T	EET CHI	11/17/22 17:54
Total/NA	Prep	3541			686267	KN	EET CHI	11/21/22 08:59 - 11/21/22 15:30 ¹
Total/NA	Analysis	8270D		1	687051	SS	EET CHI	11/28/22 14:46
Total/NA	Prep	3050B			686603	LMB	EET CHI	11/22/22 17:12 - 11/22/22 17:42 ¹
Total/NA	Analysis	6010B		1	687213	JJJ	EET CHI	11/28/22 17:52
Total/NA	Prep	7471B			686735	MJG	EET CHI	11/23/22 15:45
Total/NA	Analysis	7471B		1	687066	MJG	EET CHI	11/28/22 07:56

Client Sample ID: 1401V3-07-B03 (0-6)

Lab Sample ID: 500-225350-5

Date Collected: 11/11/22 10:10

Matrix: Solid

Date Received: 11/11/22 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685633	AW	EET CHI	11/17/22 12:02 - 11/18/22 06:02 ¹
SPLP East	Prep	3010A			685975	LMB	EET CHI	11/18/22 19:12 - 11/18/22 19:42 ¹
SPLP East	Analysis	6010B		1	686681	JJJ	EET CHI	11/22/22 19:06
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	3010A			685972	LMB	EET CHI	11/18/22 19:06 - 11/18/22 19:36 ¹
TCLP	Analysis	6010B		1	686467	JJJ	EET CHI	11/21/22 21:10
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	3010A			685972	LMB	EET CHI	11/18/22 19:06 - 11/18/22 19:36 ¹
TCLP	Analysis	6020A		1	687307	FXG	EET CHI	11/28/22 22:30
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	7470A			686319	MJG	EET CHI	11/21/22 10:20 - 11/21/22 12:20 ¹
TCLP	Analysis	7470A		1	686552	MJG	EET CHI	11/22/22 10:13
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 17:20
Total/NA	Analysis	Moisture		1	686572	LWN	EET CHI	11/22/22 15:02

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B03 (0-6)

Lab Sample ID: 500-225350-5

Date Collected: 11/11/22 10:10

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684703	WRE	EET CHI	11/11/22 18:10
Total/NA	Analysis	8260B		1	685183	W1T	EET CHI	11/16/22 17:53
Total/NA	Prep	3541			686267	KN	EET CHI	11/21/22 08:59 - 11/21/22 15:30 ¹
Total/NA	Analysis	8270D		1	687051	SS	EET CHI	11/28/22 15:10
Total/NA	Prep	3050B			686603	LMB	EET CHI	11/22/22 17:12 - 11/22/22 17:42 ¹
Total/NA	Analysis	6010B		1	687213	JJB	EET CHI	11/28/22 17:55
Total/NA	Prep	3050B			686603	LMB	EET CHI	11/22/22 17:12 - 11/22/22 17:42 ¹
Total/NA	Analysis	6010B		5	687341	JJB	EET CHI	11/29/22 10:44
Total/NA	Prep	7471B			686735	MJG	EET CHI	11/23/22 15:45
Total/NA	Analysis	7471B		1	687066	MJG	EET CHI	11/28/22 07:58

Client Sample ID: 1401V3-07-B04 (0-5)

Lab Sample ID: 500-225350-6

Date Collected: 11/11/22 09:55

Matrix: Solid

Date Received: 11/11/22 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685633	AW	EET CHI	11/17/22 12:02 - 11/18/22 06:02 ¹
SPLP East	Prep	3010A			685975	LMB	EET CHI	11/18/22 19:12 - 11/18/22 19:42 ¹
SPLP East	Analysis	6010B		1	686681	JJB	EET CHI	11/22/22 19:09
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	3010A			685972	LMB	EET CHI	11/18/22 19:06 - 11/18/22 19:36 ¹
TCLP	Analysis	6010B		1	686467	JJB	EET CHI	11/21/22 21:13
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	3010A			685972	LMB	EET CHI	11/18/22 19:06 - 11/18/22 19:36 ¹
TCLP	Analysis	6020A		1	687307	FXG	EET CHI	11/28/22 22:33
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	7470A			686319	MJG	EET CHI	11/21/22 10:20 - 11/21/22 12:20 ¹
TCLP	Analysis	7470A		1	686552	MJG	EET CHI	11/22/22 10:15
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 17:22
Total/NA	Analysis	Moisture		1	686572	LWN	EET CHI	11/22/22 15:02

Client Sample ID: 1401V3-07-B04 (0-5)

Lab Sample ID: 500-225350-6

Date Collected: 11/11/22 09:55

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684703	WRE	EET CHI	11/11/22 18:10
Total/NA	Analysis	8260B		1	685183	W1T	EET CHI	11/16/22 18:18
Total/NA	Prep	3541			686267	KN	EET CHI	11/21/22 08:59 - 11/21/22 15:30 ¹
Total/NA	Analysis	8270D		1	687051	SS	EET CHI	11/28/22 15:33
Total/NA	Prep	3050B			686603	LMB	EET CHI	11/22/22 17:12 - 11/22/22 17:42 ¹
Total/NA	Analysis	6010B		1	687213	JJB	EET CHI	11/28/22 17:58
Total/NA	Prep	7471B			686735	MJG	EET CHI	11/23/22 15:45
Total/NA	Analysis	7471B		1	687066	MJG	EET CHI	11/28/22 08:04

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B04 (5-9)

Lab Sample ID: 500-225350-7

Date Collected: 11/11/22 10:00

Matrix: Solid

Date Received: 11/11/22 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	3010A			685972	LMB	EET CHI	11/18/22 19:06 - 11/18/22 19:36 ¹
TCLP	Analysis	6010B		1	686467	JJJ	EET CHI	11/21/22 21:17
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	3010A			685972	LMB	EET CHI	11/18/22 19:06 - 11/18/22 19:36 ¹
TCLP	Analysis	6020A		1	687307	FXG	EET CHI	11/28/22 22:37
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	7470A			686319	MJG	EET CHI	11/21/22 10:20 - 11/21/22 12:20 ¹
TCLP	Analysis	7470A		1	686552	MJG	EET CHI	11/22/22 10:17
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 17:25
Total/NA	Analysis	Moisture		1	686572	LWN	EET CHI	11/22/22 15:02

Client Sample ID: 1401V3-07-B04 (5-9)

Lab Sample ID: 500-225350-7

Date Collected: 11/11/22 10:00

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684703	WRE	EET CHI	11/11/22 18:10
Total/NA	Analysis	8260B		1	685183	W1T	EET CHI	11/16/22 18:44
Total/NA	Prep	3541			686267	KN	EET CHI	11/21/22 08:59 - 11/21/22 15:30 ¹
Total/NA	Analysis	8270D		1	687051	SS	EET CHI	11/28/22 15:57
Total/NA	Prep	3050B			686603	LMB	EET CHI	11/22/22 17:12 - 11/22/22 17:42 ¹
Total/NA	Analysis	6010B		1	687213	JJJ	EET CHI	11/28/22 18:01
Total/NA	Prep	7471B			686735	MJG	EET CHI	11/23/22 15:45
Total/NA	Analysis	7471B		1	687066	MJG	EET CHI	11/28/22 08:06

Client Sample ID: 1401V3-07-B05 (0-6)

Lab Sample ID: 500-225350-8

Date Collected: 11/11/22 09:25

Matrix: Solid

Date Received: 11/11/22 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685633	AW	EET CHI	11/17/22 12:02 - 11/18/22 06:02 ¹
SPLP East	Prep	3010A			685975	LMB	EET CHI	11/18/22 19:12 - 11/18/22 19:42 ¹
SPLP East	Analysis	6010B		1	686681	JJJ	EET CHI	11/22/22 19:12
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	3010A			685972	LMB	EET CHI	11/18/22 19:06 - 11/18/22 19:36 ¹
TCLP	Analysis	6010B		1	686467	JJJ	EET CHI	11/21/22 21:30
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	3010A			685972	LMB	EET CHI	11/18/22 19:06 - 11/18/22 19:36 ¹
TCLP	Analysis	6020A		1	687307	FXG	EET CHI	11/28/22 22:40
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	7470A			686319	MJG	EET CHI	11/21/22 10:20 - 11/21/22 12:20 ¹
TCLP	Analysis	7470A		1	686552	MJG	EET CHI	11/22/22 10:19
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 17:27
Total/NA	Analysis	Moisture		1	686572	LWN	EET CHI	11/22/22 15:02

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B05 (0-6)

Lab Sample ID: 500-225350-8

Date Collected: 11/11/22 09:25

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684703	WRE	EET CHI	11/11/22 18:10
Total/NA	Analysis	8260B		1	685183	W1T	EET CHI	11/16/22 19:09
Total/NA	Prep	3541			686267	KN	EET CHI	11/21/22 08:59 - 11/21/22 15:30 ¹
Total/NA	Analysis	8270D		1	687051	SS	EET CHI	11/28/22 16:21
Total/NA	Prep	3050B			686603	LMB	EET CHI	11/22/22 17:12 - 11/22/22 17:42 ¹
Total/NA	Analysis	6010B		1	687213	JJB	EET CHI	11/28/22 18:05
Total/NA	Prep	7471B			686735	MJG	EET CHI	11/23/22 15:45
Total/NA	Analysis	7471B		1	687066	MJG	EET CHI	11/28/22 08:08

Client Sample ID: 1401V3-07-B05 (0-6)D

Lab Sample ID: 500-225350-9

Date Collected: 11/11/22 09:30

Matrix: Solid

Date Received: 11/11/22 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685633	AW	EET CHI	11/17/22 12:02 - 11/18/22 06:02 ¹
SPLP East	Prep	3010A			685975	LMB	EET CHI	11/18/22 19:12 - 11/18/22 19:42 ¹
SPLP East	Analysis	6010B		1	686681	JJB	EET CHI	11/22/22 19:15
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	3010A			685972	LMB	EET CHI	11/18/22 19:06 - 11/18/22 19:36 ¹
TCLP	Analysis	6010B		1	686467	JJB	EET CHI	11/21/22 21:33
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	3010A			685972	LMB	EET CHI	11/18/22 19:06 - 11/18/22 19:36 ¹
TCLP	Analysis	6020A		1	687307	FXG	EET CHI	11/28/22 22:51
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	7470A			686319	MJG	EET CHI	11/21/22 10:20 - 11/21/22 12:20 ¹
TCLP	Analysis	7470A		1	686552	MJG	EET CHI	11/22/22 10:22
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 17:30
Total/NA	Analysis	Moisture		1	686572	LWN	EET CHI	11/22/22 15:02

Client Sample ID: 1401V3-07-B05 (0-6)D

Lab Sample ID: 500-225350-9

Date Collected: 11/11/22 09:30

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684703	WRE	EET CHI	11/11/22 18:10
Total/NA	Analysis	8260B		1	685444	W1T	EET CHI	11/17/22 18:19
Total/NA	Prep	3541			686267	KN	EET CHI	11/21/22 08:59 - 11/21/22 15:30 ¹
Total/NA	Analysis	8270D		1	687051	SS	EET CHI	11/28/22 16:44
Total/NA	Prep	3050B			686603	LMB	EET CHI	11/22/22 17:12 - 11/22/22 17:42 ¹
Total/NA	Analysis	6010B		1	687213	JJB	EET CHI	11/28/22 18:08
Total/NA	Prep	7471B			686735	MJG	EET CHI	11/23/22 15:45
Total/NA	Analysis	7471B		1	687066	MJG	EET CHI	11/28/22 08:09

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B06 (0-5)

Lab Sample ID: 500-225350-10

Date Collected: 11/11/22 09:10

Matrix: Solid

Date Received: 11/11/22 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685633	AW	EET CHI	11/17/22 12:02 - 11/18/22 06:02 ¹
SPLP East	Prep	3010A			685975	LMB	EET CHI	11/18/22 19:12 - 11/18/22 19:42 ¹
SPLP East	Analysis	6010B		1	686681	JJB	EET CHI	11/22/22 19:25
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	3010A			685972	LMB	EET CHI	11/18/22 19:06 - 11/18/22 19:36 ¹
TCLP	Analysis	6010B		1	686467	JJB	EET CHI	11/21/22 21:36
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	3010A			685972	LMB	EET CHI	11/18/22 19:06 - 11/18/22 19:36 ¹
TCLP	Analysis	6020A		1	687307	FXG	EET CHI	11/28/22 22:54
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	7470A			686319	MJG	EET CHI	11/21/22 10:20 - 11/21/22 12:20 ¹
TCLP	Analysis	7470A		1	686552	MJG	EET CHI	11/22/22 10:24
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 17:32
Total/NA	Analysis	Moisture		1	686578	LWN	EET CHI	11/22/22 15:34

Client Sample ID: 1401V3-07-B06 (0-5)

Lab Sample ID: 500-225350-10

Date Collected: 11/11/22 09:10

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684703	WRE	EET CHI	11/11/22 18:10
Total/NA	Analysis	8260B		1	685444	W1T	EET CHI	11/17/22 18:43
Total/NA	Prep	3541			686267	KN	EET CHI	11/21/22 08:59 - 11/21/22 15:30 ¹
Total/NA	Analysis	8270D		1	687051	SS	EET CHI	11/28/22 17:08
Total/NA	Prep	3050B			686603	LMB	EET CHI	11/22/22 17:12 - 11/22/22 17:42 ¹
Total/NA	Analysis	6010B		1	687213	JJB	EET CHI	11/28/22 18:11
Total/NA	Prep	7471B			686735	MJG	EET CHI	11/23/22 15:45
Total/NA	Analysis	7471B		1	687066	MJG	EET CHI	11/28/22 08:11

Client Sample ID: 1401V3-07-B06 (5-9)

Lab Sample ID: 500-225350-11

Date Collected: 11/11/22 09:05

Matrix: Solid

Date Received: 11/11/22 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	3010A			685972	LMB	EET CHI	11/18/22 19:06 - 11/18/22 19:36 ¹
TCLP	Analysis	6010B		1	686467	JJB	EET CHI	11/21/22 21:39
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	3010A			685972	LMB	EET CHI	11/18/22 19:06 - 11/18/22 19:36 ¹
TCLP	Analysis	6020A		1	687307	FXG	EET CHI	11/28/22 22:58
TCLP	Leach	1311			685685	AW	EET CHI	11/17/22 16:40 - 11/18/22 10:40 ¹
TCLP	Prep	7470A			686319	MJG	EET CHI	11/21/22 10:20 - 11/21/22 12:20 ¹
TCLP	Analysis	7470A		1	686552	MJG	EET CHI	11/22/22 10:30
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 17:34
Total/NA	Analysis	Moisture		1	686578	LWN	EET CHI	11/22/22 15:34

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Client Sample ID: 1401V3-07-B06 (5-9)

Lab Sample ID: 500-225350-11

Date Collected: 11/11/22 09:05

Matrix: Solid

Date Received: 11/11/22 16:02

Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684703	WRE	EET CHI	11/11/22 18:10
Total/NA	Analysis	8260B		1	685444	W1T	EET CHI	11/17/22 19:07
Total/NA	Prep	3541			686267	KN	EET CHI	11/21/22 08:59 - 11/21/22 15:30 ¹
Total/NA	Analysis	8270D		1	687051	SS	EET CHI	11/28/22 17:31
Total/NA	Prep	3050B			686603	LMB	EET CHI	11/22/22 17:12 - 11/22/22 17:42 ¹
Total/NA	Analysis	6010B		1	687213	JJB	EET CHI	11/28/22 18:14
Total/NA	Prep	7471B			686735	MJG	EET CHI	11/23/22 15:45
Total/NA	Analysis	7471B		1	687066	MJG	EET CHI	11/28/22 08:13

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225350-1

Laboratory: Eurofins Chicago

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

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

1

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12

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Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager <u>D. Teboul</u>		Site Contact <u>A. Hoppel</u>		Date <u>11/11/22</u>		COC No <u>1</u>	
Company Name <u>WSP</u>		Tel/Email		Lab Contact <u>R. Wright</u>		Carrier		<u>1</u> of <u>1</u> COCs	
Address <u>30 N. LaSalle</u>		Analysis Turnaround Time							
City/State/Zip <u>Chicago, IL</u>		<input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS							
Phone		TAT if different from Below _____							
Fax		<input checked="" type="checkbox"/> 2 weeks							
Project Name <u>W013-Bethfield Rd</u>		<input type="checkbox"/> 1 week							
Site <u>IODT - 31403035.013</u>		<input type="checkbox"/> 2 days							
P O #		<input type="checkbox"/> 1 day							
						 500-225350 COC		Sampler For Lab Use Only Walk-in Client Lab Sampling	
								Job / SDG No <u>500-225350</u>	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sample Specific Notes
1 1401V3-07-B01 (0-7)		11/11/22	1100	C	S	2			
2 1401V3-07-B01 (7-13)		11/11/22	1105	C	S	2			
3 1401V3-07-B02 (0-5)		11/11/22	1040	C	S	2			
4 1401V3-07-B02 (5-9)		11/11/22	1045	C	S	2			
5 1401V3-07-B03 (0-6)		11/11/22	1010	C	S	2			
6 1401V3-07-B04 (0-5)		11/11/22	0955	C	S	2			
7 1401V3-07-B04 (5-9)		11/11/22	1000	C	S	2			
8 1401V3-07-B05 (0-6)		11/11/22	0925	C	S	2			
9 1401V3-07-B05 (0-6)-Dup		11/14/22	0930	C	S	2			
10 1401V3-07-B06 (0-5)		11/11/22	0910	C	S	2			
11 1401V3-07-B06 (5-9)		11/14/22	0905	C	S	2			
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown						<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months			
Special Instructions/QC Requirements & Comments: <u>*SPLP analysis based on TCLP results</u>									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <u>5.3</u> Corr'd <u>5.5</u>		Therm ID No			
Relinquished by <u>[Signature]</u>		Company <u>WSP</u>		Date/Time <u>11/11/22 12:30</u>		Received by <u>[Signature]</u>		Company <u>PERTEC</u>	
Relinquished by <u>[Signature]</u>		Company <u>PERTEC</u>		Date/Time <u>11/12/22 13:22</u>		Received by <u>[Signature]</u>		Company <u>ETA</u>	
Relinquished by <u>[Signature]</u>		Company <u>ETA</u>		Date/Time <u>11/14/22 16:02</u>		Received by <u>[Signature]</u>		Company <u>PERTEC</u>	



Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225350-1

Login Number: 225350

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 365 & FAP 870 (Butterfield Road) Office Phone Number, if available: _____

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

22 W 164-320 Butterfield Road and 2 S 680-727 Arboretum Road (ISGS #1401V3-8)

City: Glen Ellyn State: IL Zip Code: 60137

County: DuPage Township: Milton

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

Latitude: 41.83127 Longitude: -88.05927
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 1,604

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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



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

Analytical Data Summary
PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

Key to Data Tables

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

Criteria Qualifiers and Shading

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

PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

CONTAMINANTS OF CONCERN

SITE	ISGS #1401V3-08 (Residences)				Comparison Criteria					
	1401V3-08-B01	1401V3-08-B02	1401V3-08-B03	1401V3-08-B04	MACs			TACO		
SAMPLE	1401V3-08-B01 (0-4)	1401V3-08-B02 (0-2)	1401V3-08-B03 (0-4)	1401V3-08-B04 (0-1)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-4	0-2	0-4	0-1						
pH	7.6	7.5	7.3	7.6						
PID (meter units)	--	--	--	--						
VOCs (mg/kg)										
Acetone	ND U	ND U	0.022	ND U	25	--	--	70,000	100,000	--
SVOCs (mg/kg)										
Acenaphthene	ND U	ND U	ND U	ND U	570	--	0.94	4,700	120,000	--
Acenaphthylene	ND U	ND U	ND U	ND U	--	--	0.25	--	--	--
Anthracene	0.0070 J	0.026 J	ND U	ND U	12,000	--	2.6	23,000	610,000	--
Benzo(a)anthracene	0.044	0.20	ND U	0.038 J	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	0.046	0.24 J †	ND U	0.052	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	0.065	0.39 J	ND U	0.076	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	0.035 J	0.12 J	ND UJ	0.039 J	--	--	4.4	--	--	--
Benzo(k)fluoranthene	0.020 J	0.12 J	ND U	0.028 J	9	--	8.1	9	1,700	--
Chrysene	0.060	0.25	ND U	0.058	88	--	11	88	17,000	--
Dibenzo(a,h)anthracene	0.0087 J	0.032 J	ND UJ	ND UJ	0.09	0.42	1	0.42	17	--
Fluoranthene	0.085	0.43	ND U	0.090	3,100	--	28	3,100	82,000	--
Fluorene	ND U	0.0063 J	ND U	ND U	560	--	1.1	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.034 J	0.12 J	ND UJ	0.035 J	0.9	1.6	5.8	1.6	170	--
Phenanthrene	0.048 J	0.13	ND U	0.026 J	--	--	15	--	--	--
Pyrene	0.060	0.44	ND U	0.078	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)										
Antimony	0.39 J	0.32 J	0.33 J	0.25 J	5	--	--	31	82	--
Arsenic	12 †	7.8	9.6	7.2	11.3	13	--	13	61	--
Barium	50	60	87	97	1,500	--	--	5,500	14,000	--
Beryllium	0.79	0.66	0.91	0.84	22	--	--	160	410	--
Boron	8.4	7.5	3.8	3.5	40	--	--	16,000	41,000	--
Cadmium	0.30	0.31	0.12 J	0.22	5.2	--	--	78	200	--
Calcium	75,000	82,000	2,900	4,100	--	--	--	--	--	--
Chromium	12	12	18	16	21	--	--	230	690	--
Cobalt	13	8.3	12	11	20	--	--	4,700	12,000	--
Copper	26	19	16	18	2,900	--	--	2,900	8,200	--
Iron	26,000 †m	19,000 †m	23,000 †m	18,000 †m	15,000	15,900	--	--	--	--
Lead	26	27	19	23	107	--	--	400	700	--
Magnesium	48,000	48,000	3,600	3,100	325,000	--	--	--	730,000	--
Manganese	610	450	390	660 †m	630	636	--	1,600	4,100	--
Mercury	0.036	0.036	0.037	0.036	0.89	--	--	10	0.1	--
Nickel	28	19	19	20	100	--	--	1,600	4,100	--
Potassium	1,700	1,600	1,600	1,300	--	--	--	--	--	--
Silver	0.22 J	0.26 J	0.30 J	0.31 J	4.4	--	--	390	1,000	--
Sodium	140	120	1,300	1,100	--	--	--	--	--	--
Thallium	0.36 J	0.39 J	0.38 J	0.34 J	2.6	--	--	6.3	160	--
Vanadium	18	17	29	25	550	--	--	550	1,400	--
Zinc	56	81	63	71	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	0.30 J	0.45 J	0.39 J	0.25 J	--	--	--	--	--	2
Boron	0.071 J	0.059 J	0.059 J	0.074 J	--	--	--	--	--	2
Cobalt	ND U	ND U	0.048	ND U	--	--	--	--	--	1
Iron	ND U	ND U	1.3	5.5 L	--	--	--	--	--	5
Manganese	0.10	0.048	7.5 L	0.087	--	--	--	--	--	0.15
Nickel	ND U	ND U	0.017 J	ND U	--	--	--	--	--	0.1
Zinc	0.026 J	0.022 J	0.045 J	0.049 J	--	--	--	--	--	5
SPLP Metals (mg/L)										
Iron	NA	NA	NA	180 L	--	--	--	--	--	5
Manganese	NA	NA	0.45 L	NA	--	--	--	--	--	0.15



ANALYTICAL REPORT

PREPARED FOR

Attn: Dean Tiebot
WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602
Generated 12/15/2022 11:04:41 AM

JOB DESCRIPTION

IDOT - 196-002-WO 13 IL 56

JOB NUMBER

500-225243-1

Eurofins Chicago

Job Notes

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

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

Authorization



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12/15/2022 11:04:41 AM

Authorized for release by
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(708)746-0045

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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

Job ID: 500-225243-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225243-1

Receipt

The samples were received on 11/10/2022 5:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.8° C, 4.5° C and 5.7° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) for preparation batch 500-684698 and analytical batch 500-684930 recovered outside control limits for the following analytes: 1,1-Dichloroethene and Trichloroethene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. 1401V3-08-B05 (0-3) (500-225243-1), 1401V3-08-B04 (0-1) (500-225243-2), 1401V3-08-B03 (0-4) (500-225243-3), 1401V3-08-B02 (0-2) (500-225243-4) and 1401V3-08-B01 (0-4) (500-225243-5)

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

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-686590 was outside the method criteria for the following analyte(s): Benzo[g,h,i]perylene, Dibenz(a,h)anthracene, Di-n-octyl phthalate and Phenol-d5. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-686590 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-686697 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane], 2-Nitroaniline, Bis(2-chloroethyl)ether, Hexachlorocyclopentadiene, Phenol and Phenol-d5. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The following sample was diluted due to the nature of the sample matrix: 1401V3-08-B02 (0-2) (500-225243-4). Elevated reporting limits (RLs) are provided.

Method 8270D: The laboratory control sample (LCS) for preparation batch 500-685797 and analytical batch 500-686590 recovered outside control limits for the following analytes: 4-Chloroaniline, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, Hexachloroethane, 1,2,4-Trichlorobenzene, Hexachlorobutadiene, Naphthalene, 2-Methylnaphthalene and 3-Nitroaniline. The associated samples were re-extracted past hold time and re-analyzed with acceptable recoveries. The re-extracted results confirmed the original analyses; therefore, the data original data have been reported.

Method 8270D: Perylene-d12 Internal standard (ISTD) response for the following sample was outside of acceptance limits. The sample was run a second time with concurring results. Results with the highest ISTD recovery have been reported 1401V3-08-B02 (0-2) (500-225243-4).

Method 8270D: Due to sample matrix effect on the internal standard (ISTD) Phenanthrene-d10, a dilution was required for the following sample: 1401V3-08-B01 (0-4) (500-225243-5).

Method 8270D: Internal standard responses were outside of acceptance limits for the following sample for Phenanthrene-d10: 1401V3-08-B01 (0-4) (500-225243-5). The sample(s) shows evidence of matrix interference. The detections associated with this ISTD was reported from the 2x dilution.

Method 8270D: The following sample contained one acid surrogate outside acceptance limits: 1401V3-08-B01 (0-4) (500-225243-5). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

Job ID: 500-225243-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

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

Metals

Method 6010B:

The continuing calibration blank (CCB) at line 41 was outside the control limits for Zinc and Nickel bracketing the method blank (MB) and laboratory control sample (LCS). The MB and LCS was within the method control limits. The associated sample 1401V3-08-B05 (0-3) (500-225243-1), 1401V3-08-B04 (0-1) (500-225243-2), 1401V3-08-B03 (0-4) (500-225243-3), 1401V3-08-B02 (0-2) (500-225243-4) and 1401V3-08-B01 (0-4) (500-225243-5) was bracketed with continuing calibration verifications that were within control limits, therefore the data has been reported.

1401V3-08-B05 (0-3) (500-225243-1), 1401V3-08-B04 (0-1) (500-225243-2), 1401V3-08-B03 (0-4) (500-225243-3), 1401V3-08-B02 (0-2) (500-225243-4) and 1401V3-08-B01 (0-4) (500-225243-5)

Method Moisture: I had to homogenize the sample due to a color variation throughout the sample. 1401V3-08-B01 (0-4) (500-225243-5)

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

General Chemistry

Method 9045D: Due to an instrument malfunction while utilizing the pH auto instrument, the samples had to be reanalyzed. 1401V3-08-B05 (0-3) (500-225243-1)

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

Organic Prep

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



Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

- 1
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- 3
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- 14
- 15

Client Sample ID: 1401V3-08-B03 (0-4)

Lab Sample ID: 500-225243-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.022		0.019	0.0085	mg/Kg	1	✳		8260B	Total/NA
Antimony	0.33	J	1.3	0.26	mg/Kg	1	✳		6010B	Total/NA
Arsenic	9.6		0.67	0.23	mg/Kg	1	✳		6010B	Total/NA
Barium	87		0.67	0.076	mg/Kg	1	✳		6010B	Total/NA
Beryllium	0.91		0.27	0.062	mg/Kg	1	✳		6010B	Total/NA
Boron	3.8		3.3	0.31	mg/Kg	1	✳		6010B	Total/NA
Cadmium	0.12	J	0.13	0.024	mg/Kg	1	✳		6010B	Total/NA
Calcium	2900		13	2.3	mg/Kg	1	✳		6010B	Total/NA
Chromium	18		0.67	0.33	mg/Kg	1	✳		6010B	Total/NA
Cobalt	12		0.33	0.087	mg/Kg	1	✳		6010B	Total/NA
Copper	16		0.67	0.19	mg/Kg	1	✳		6010B	Total/NA
Iron	23000		13	6.9	mg/Kg	1	✳		6010B	Total/NA
Lead	19		0.33	0.15	mg/Kg	1	✳		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

Client Sample ID: 1401V3-08-B03 (0-4) (Continued)

Lab Sample ID: 500-225243-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	3600		6.7	3.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	390		0.67	0.097	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.67	0.19	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		33	12	mg/Kg	1	☼	6010B	Total/NA
Silver	0.30	J	0.33	0.086	mg/Kg	1	☼	6010B	Total/NA
Sodium	1300		67	9.9	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.38	J	0.67	0.33	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29		0.33	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	63		1.3	0.59	mg/Kg	1	☼	6010B	Total/NA
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.059	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.048		0.025	0.010	mg/L	1		6010B	TCLP
Iron	1.3		0.40	0.20	mg/L	1		6010B	TCLP
Manganese	7.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.045	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.45		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.037		0.021	0.0072	mg/Kg	1	☼	7471B	Total/NA
pH	7.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-08-B02 (0-2)

Lab Sample ID: 500-225243-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	0.0063	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.13		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.026	J	0.036	0.0061	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.43		0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.44		0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.20		0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.25		0.036	0.0099	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.39	*3	0.036	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.12	*3	0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.24	*3	0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.12	*3	0.036	0.0094	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.032	J *3	0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.12	*3	0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.32	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.8		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	60		2.8	0.32	mg/Kg	5	☼	6010B	Total/NA
Beryllium	0.66		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	7.5		2.8	0.26	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.31		0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Calcium	82000		55	9.4	mg/Kg	5	☼	6010B	Total/NA
Chromium	12		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.3		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		55	29	mg/Kg	5	☼	6010B	Total/NA
Lead	27		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	48000		28	14	mg/Kg	5	☼	6010B	Total/NA
Manganese	450		0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

Client Sample ID: 1401V3-08-B02 (0-2) (Continued)

Lab Sample ID: 500-225243-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1600		28	9.8	mg/Kg	1	✳	6010B	Total/NA
Silver	0.26	J	0.28	0.072	mg/Kg	1	✳	6010B	Total/NA
Sodium	120		55	8.2	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.39	J	0.55	0.28	mg/Kg	1	✳	6010B	Total/NA
Vanadium	17		0.28	0.065	mg/Kg	1	✳	6010B	Total/NA
Zinc	81		1.1	0.49	mg/Kg	1	✳	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.059	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.048		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.022	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.036		0.018	0.0060	mg/Kg	1	✳	7471B	Total/NA
pH	7.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-08-B01 (0-4)

Lab Sample ID: 500-225243-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.0070	J *3	0.038	0.0063	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.060		0.038	0.0075	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.044		0.038	0.0051	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.060		0.038	0.010	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.065		0.038	0.0082	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.020	J	0.038	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.046		0.038	0.0073	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.034	J	0.038	0.0098	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.0087	J	0.038	0.0073	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.035	J	0.038	0.012	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene - DL	0.048	J	0.075	0.011	mg/Kg	2	✳	8270D	Total/NA
Fluoranthene - DL	0.085		0.075	0.014	mg/Kg	2	✳	8270D	Total/NA
Antimony	0.39	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	12		0.57	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	50		2.9	0.33	mg/Kg	5	✳	6010B	Total/NA
Beryllium	0.79		0.23	0.053	mg/Kg	1	✳	6010B	Total/NA
Boron	8.4		2.9	0.27	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.30		0.11	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	75000		57	9.7	mg/Kg	5	✳	6010B	Total/NA
Chromium	12		0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	13		0.29	0.075	mg/Kg	1	✳	6010B	Total/NA
Copper	26		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	26000		57	30	mg/Kg	5	✳	6010B	Total/NA
Lead	26		0.29	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	48000		29	14	mg/Kg	5	✳	6010B	Total/NA
Manganese	610		0.57	0.083	mg/Kg	1	✳	6010B	Total/NA
Nickel	28		0.57	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	1700		29	10	mg/Kg	1	✳	6010B	Total/NA
Silver	0.22	J	0.29	0.074	mg/Kg	1	✳	6010B	Total/NA
Sodium	140		57	8.5	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.36	J	0.57	0.29	mg/Kg	1	✳	6010B	Total/NA
Vanadium	18		0.29	0.067	mg/Kg	1	✳	6010B	Total/NA
Zinc	56		1.1	0.50	mg/Kg	1	✳	6010B	Total/NA
Barium	0.30	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.071	J	0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

Client Sample ID: 1401V3-08-B01 (0-4) (Continued)

Lab Sample ID: 500-225243-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.10		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.026	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.036		0.019	0.0063	mg/Kg	1	*	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010B	Metals (ICP)	SW846	EET CHI
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225243-3	1401V3-08-B03 (0-4)	Solid	11/09/22 11:20	11/10/22 17:50
500-225243-4	1401V3-08-B02 (0-2)	Solid	11/09/22 11:30	11/10/22 17:50
500-225243-5	1401V3-08-B01 (0-4)	Solid	11/09/22 11:40	11/10/22 17:50

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

Client Sample ID: 1401V3-08-B03 (0-4)

Lab Sample ID: 500-225243-3

Date Collected: 11/09/22 11:20

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 73.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.022		0.019	0.0085	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
Benzene	<0.0019		0.0019	0.00050	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
Bromodichloromethane	<0.0019		0.0019	0.00040	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
Bromoform	<0.0019		0.0019	0.00057	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
Chlorobenzene	<0.0019		0.0019	0.00072	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
Chloroethane	<0.0049		0.0049	0.0014	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00059	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
Dibromochloromethane	<0.0019		0.0019	0.00064	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
1,1-Dichloroethane	<0.0019		0.0019	0.00067	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
1,1-Dichloroethene	<0.0019	*+	0.0019	0.00067	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00068	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
Ethylbenzene	<0.0019		0.0019	0.00093	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0014	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00057	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
Styrene	<0.0019		0.0019	0.00059	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
Tetrachloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
Toluene	<0.0019		0.0019	0.00049	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00086	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00068	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00083	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
Trichloroethene	<0.0019	*+	0.0019	0.00066	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
Vinyl acetate	<0.0049		0.0049	0.0017	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
Vinyl chloride	<0.0019		0.0019	0.00086	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1
Xylenes, Total	<0.0039		0.0039	0.00062	mg/Kg	☼	11/11/22 10:37	11/15/22 20:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		75 - 131	11/11/22 10:37	11/15/22 20:01	1
Dibromofluoromethane	110		75 - 126	11/11/22 10:37	11/15/22 20:01	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	11/11/22 10:37	11/15/22 20:01	1
Toluene-d8 (Surr)	98		75 - 124	11/11/22 10:37	11/15/22 20:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.22		0.22	0.098	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.066	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
1,3-Dichlorobenzene	<0.22	*-	0.22	0.050	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
1,4-Dichlorobenzene	<0.22	*-	0.22	0.057	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

Client Sample ID: 1401V3-08-B03 (0-4)

Lab Sample ID: 500-225243-3

Date Collected: 11/09/22 11:20

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 73.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.22	*-	0.22	0.053	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
2-Methylphenol	<0.22		0.22	0.071	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.051	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
N-Nitrosodi-n-propylamine	<0.089		0.089	0.054	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Hexachloroethane	<0.22	*-	0.22	0.067	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
2-Chlorophenol	<0.22		0.22	0.075	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Nitrobenzene	<0.044		0.044	0.011	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.045	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
1,2,4-Trichlorobenzene	<0.22	*-	0.22	0.048	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Isophorone	<0.22		0.22	0.050	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
2,4-Dimethylphenol	<0.44		0.44	0.17	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Hexachlorobutadiene	<0.22	*-	0.22	0.069	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Naphthalene	<0.044	*-	0.044	0.0068	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
2,4-Dichlorophenol	<0.44		0.44	0.10	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
4-Chloroaniline	<0.89	*-	0.89	0.21	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
2,4,6-Trichlorophenol	<0.44		0.44	0.15	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
2,4,5-Trichlorophenol	<0.44		0.44	0.10	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Hexachlorocyclopentadiene	<0.89		0.89	0.25	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
2-Methylnaphthalene	<0.089	*-	0.089	0.0081	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
2-Nitroaniline	<0.22		0.22	0.059	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
2-Chloronaphthalene	<0.22		0.22	0.049	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
4-Chloro-3-methylphenol	<0.44		0.44	0.15	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
2,6-Dinitrotoluene	<0.22		0.22	0.087	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
2-Nitrophenol	<0.44		0.44	0.10	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
3-Nitroaniline	<0.44	*-	0.44	0.14	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Dimethyl phthalate	<0.22		0.22	0.058	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
2,4-Dinitrophenol	<0.89		0.89	0.78	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Acenaphthylene	<0.044		0.044	0.0058	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
2,4-Dinitrotoluene	<0.22		0.22	0.070	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Acenaphthene	<0.044		0.044	0.0079	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Dibenzofuran	<0.22		0.22	0.052	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
4-Nitrophenol	<0.89		0.89	0.42	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Fluorene	<0.044		0.044	0.0062	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
4-Nitroaniline	<0.44		0.44	0.18	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.058	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Hexachlorobenzene	<0.089		0.089	0.010	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Diethyl phthalate	<0.22		0.22	0.075	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.052	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Pentachlorophenol	<0.89		0.89	0.71	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
N-Nitrosodiphenylamine	<0.22		0.22	0.052	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
4,6-Dinitro-2-methylphenol	<0.89		0.89	0.36	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Phenanthrene	<0.044		0.044	0.0062	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Anthracene	<0.044		0.044	0.0074	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Carbazole	<0.22		0.22	0.11	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Di-n-butyl phthalate	<0.22		0.22	0.067	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Fluoranthene	<0.044		0.044	0.0082	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Pyrene	<0.044		0.044	0.0088	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Butyl benzyl phthalate	<0.22		0.22	0.084	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Benzo[a]anthracene	<0.044		0.044	0.0059	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

Client Sample ID: 1401V3-08-B03 (0-4)

Lab Sample ID: 500-225243-3

Date Collected: 11/09/22 11:20

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 73.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.044		0.044	0.012	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.062	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.081	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Di-n-octyl phthalate	<0.22		0.22	0.072	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Benzo[b]fluoranthene	<0.044		0.044	0.0095	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Benzo[k]fluoranthene	<0.044		0.044	0.013	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Benzo[a]pyrene	<0.044		0.044	0.0085	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Indeno[1,2,3-cd]pyrene	<0.044		0.044	0.011	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Dibenz(a,h)anthracene	<0.044		0.044	0.0085	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
Benzo[g,h,i]perylene	<0.044		0.044	0.014	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1
3 & 4 Methylphenol	<0.22		0.22	0.074	mg/Kg	☼	11/18/22 08:27	11/22/22 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	115		31 - 166	11/18/22 08:27	11/22/22 18:44	1
Phenol-d5	80		30 - 153	11/18/22 08:27	11/22/22 18:44	1
Nitrobenzene-d5 (Surr)	68		37 - 147	11/18/22 08:27	11/22/22 18:44	1
2-Fluorobiphenyl (Surr)	67		43 - 145	11/18/22 08:27	11/22/22 18:44	1
2,4,6-Tribromophenol	97		31 - 143	11/18/22 08:27	11/22/22 18:44	1
Terphenyl-d14 (Surr)	98		42 - 157	11/18/22 08:27	11/22/22 18:44	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.3	0.26	mg/Kg	☼	11/16/22 16:18	11/18/22 20:18	1
Arsenic	9.6		0.67	0.23	mg/Kg	☼	11/16/22 16:18	11/18/22 20:18	1
Barium	87		0.67	0.076	mg/Kg	☼	11/16/22 16:18	11/18/22 20:18	1
Beryllium	0.91		0.27	0.062	mg/Kg	☼	11/16/22 16:18	11/18/22 20:18	1
Boron	3.8		3.3	0.31	mg/Kg	☼	11/16/22 16:18	11/18/22 20:18	1
Cadmium	0.12	J	0.13	0.024	mg/Kg	☼	11/16/22 16:18	11/18/22 20:18	1
Calcium	2900		13	2.3	mg/Kg	☼	11/16/22 16:18	11/18/22 20:18	1
Chromium	18		0.67	0.33	mg/Kg	☼	11/16/22 16:18	11/18/22 20:18	1
Cobalt	12		0.33	0.087	mg/Kg	☼	11/16/22 16:18	11/18/22 20:18	1
Copper	16		0.67	0.19	mg/Kg	☼	11/16/22 16:18	11/18/22 20:18	1
Iron	23000		13	6.9	mg/Kg	☼	11/16/22 16:18	11/18/22 20:18	1
Lead	19		0.33	0.15	mg/Kg	☼	11/16/22 16:18	11/18/22 20:18	1
Magnesium	3600		6.7	3.3	mg/Kg	☼	11/16/22 16:18	11/18/22 20:18	1
Manganese	390		0.67	0.097	mg/Kg	☼	11/16/22 16:18	11/18/22 20:18	1
Nickel	19		0.67	0.19	mg/Kg	☼	11/16/22 16:18	11/18/22 20:18	1
Potassium	1600		33	12	mg/Kg	☼	11/16/22 16:18	11/18/22 20:18	1
Selenium	<0.67		0.67	0.39	mg/Kg	☼	11/16/22 16:18	11/18/22 20:18	1
Silver	0.30	J	0.33	0.086	mg/Kg	☼	11/16/22 16:18	11/18/22 20:18	1
Sodium	1300		67	9.9	mg/Kg	☼	11/16/22 16:18	11/18/22 20:18	1
Thallium	0.38	J	0.67	0.33	mg/Kg	☼	11/16/22 16:18	11/18/22 20:18	1
Vanadium	29		0.33	0.079	mg/Kg	☼	11/16/22 16:18	11/18/22 20:18	1
Zinc	63		1.3	0.59	mg/Kg	☼	11/16/22 16:18	11/18/22 20:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.39	J	0.50	0.050	mg/L		11/17/22 19:46	11/18/22 19:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/17/22 19:46	11/18/22 19:26	1
Boron	0.059	J	0.50	0.050	mg/L		11/17/22 19:46	11/18/22 19:26	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

Client Sample ID: 1401V3-08-B03 (0-4)

Lab Sample ID: 500-225243-3

Date Collected: 11/09/22 11:20

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 73.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/17/22 19:46	11/18/22 19:26	1
Chromium	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:26	1
Cobalt	0.048		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:26	1
Iron	1.3		0.40	0.20	mg/L		11/17/22 19:46	11/18/22 19:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 19:46	11/18/22 19:26	1
Manganese	7.5		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:26	1
Nickel	0.017 J		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:26	1
Selenium	<0.050		0.050	0.020	mg/L		11/17/22 19:46	11/18/22 19:26	1
Silver	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:26	1
Zinc	0.045 J		0.50	0.020	mg/L		11/17/22 19:46	11/18/22 19:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.45		0.025	0.010	mg/L		11/17/22 20:00	11/22/22 13:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/17/22 19:46	11/18/22 21:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/17/22 19:46	11/18/22 21:18	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/18/22 14:55	11/21/22 10:34	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.021	0.0072	mg/Kg	☆	11/17/22 15:25	11/18/22 07:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.3		0.2	0.2	SU			11/17/22 11:35	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

Client Sample ID: 1401V3-08-B02 (0-2)

Lab Sample ID: 500-225243-4

Date Collected: 11/09/22 11:30

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.031		0.031	0.013	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
Benzene	<0.0031		0.0031	0.00079	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
Bromodichloromethane	<0.0031		0.0031	0.00063	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
Bromoform	<0.0031		0.0031	0.00090	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
Bromomethane	<0.0077		0.0077	0.0029	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
2-Butanone (MEK)	<0.0077		0.0077	0.0034	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
Carbon disulfide	<0.0077		0.0077	0.0016	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
Carbon tetrachloride	<0.0031		0.0031	0.00090	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
Chlorobenzene	<0.0031		0.0031	0.0011	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
Chloroethane	<0.0077		0.0077	0.0023	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
Chloroform	<0.0031		0.0031	0.0011	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
Chloromethane	<0.0077		0.0077	0.0031	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
cis-1,2-Dichloroethene	<0.0031		0.0031	0.00086	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
cis-1,3-Dichloropropene	<0.0031		0.0031	0.00093	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
Dibromochloromethane	<0.0031		0.0031	0.0010	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
1,1-Dichloroethane	<0.0031		0.0031	0.0011	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
1,2-Dichloroethane	<0.0077		0.0077	0.0024	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
1,1-Dichloroethene	<0.0031	*+	0.0031	0.0011	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
1,2-Dichloropropane	<0.0031		0.0031	0.00080	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
1,3-Dichloropropene, Total	<0.0031		0.0031	0.0011	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
Ethylbenzene	<0.0031		0.0031	0.0015	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
2-Hexanone	<0.0077		0.0077	0.0024	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
Methylene Chloride	<0.0077		0.0077	0.0030	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
4-Methyl-2-pentanone (MIBK)	<0.0077		0.0077	0.0023	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
Methyl tert-butyl ether	<0.0031		0.0031	0.00091	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
Styrene	<0.0031		0.0031	0.00093	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
1,1,2,2-Tetrachloroethane	<0.0031		0.0031	0.00099	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
Tetrachloroethene	<0.0031		0.0031	0.0011	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
Toluene	<0.0031		0.0031	0.00078	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
trans-1,2-Dichloroethene	<0.0031		0.0031	0.0014	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
trans-1,3-Dichloropropene	<0.0031		0.0031	0.0011	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
1,1,1-Trichloroethane	<0.0031		0.0031	0.0010	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
1,1,2-Trichloroethane	<0.0031		0.0031	0.0013	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
Trichloroethene	<0.0031	*+	0.0031	0.0010	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
Vinyl acetate	<0.0077		0.0077	0.0027	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
Vinyl chloride	<0.0031		0.0031	0.0014	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1
Xylenes, Total	<0.0062		0.0062	0.00099	mg/Kg	☼	11/11/22 10:37	11/15/22 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		75 - 131	11/11/22 10:37	11/15/22 20:25	1
Dibromofluoromethane	109		75 - 126	11/11/22 10:37	11/15/22 20:25	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	11/11/22 10:37	11/15/22 20:25	1
Toluene-d8 (Surr)	99		75 - 124	11/11/22 10:37	11/15/22 20:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.081	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
1,3-Dichlorobenzene	<0.18	*-	0.18	0.041	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
1,4-Dichlorobenzene	<0.18	*-	0.18	0.046	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

Client Sample ID: 1401V3-08-B02 (0-2)

Lab Sample ID: 500-225243-4

Date Collected: 11/09/22 11:30

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18	*-	0.18	0.043	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Hexachloroethane	<0.18	*-	0.18	0.055	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
1,2,4-Trichlorobenzene	<0.18	*-	0.18	0.039	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Hexachlorobutadiene	<0.18	*-	0.18	0.057	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Naphthalene	<0.036	*-	0.036	0.0056	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
4-Chloroaniline	<0.73	*-	0.73	0.17	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
2-Methylnaphthalene	<0.073	*-	0.073	0.0067	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
3-Nitroaniline	<0.36	*-	0.36	0.11	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Fluorene	0.0063	J	0.036	0.0051	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Phenanthrene	0.13		0.036	0.0051	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Anthracene	0.026	J	0.036	0.0061	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Fluoranthene	0.43		0.036	0.0067	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Pyrene	0.44		0.036	0.0072	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Benzo[a]anthracene	0.20		0.036	0.0049	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

Client Sample ID: 1401V3-08-B02 (0-2)

Lab Sample ID: 500-225243-4

Date Collected: 11/09/22 11:30

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.25		0.036	0.0099	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Benzo[b]fluoranthene	0.39	*3	0.036	0.0078	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Benzo[k]fluoranthene	0.12	*3	0.036	0.011	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Benzo[a]pyrene	0.24	*3	0.036	0.0070	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Indeno[1,2,3-cd]pyrene	0.12	*3	0.036	0.0094	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Dibenz(a,h)anthracene	0.032	J *3	0.036	0.0070	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Benzo[g,h,i]perylene	0.12	*3	0.036	0.012	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	11/18/22 08:27	11/22/22 21:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	107		31 - 166				11/18/22 08:27	11/22/22 21:03	1
Phenol-d5	93		30 - 153				11/18/22 08:27	11/22/22 21:03	1
Nitrobenzene-d5 (Surr)	68		37 - 147				11/18/22 08:27	11/22/22 21:03	1
2-Fluorobiphenyl (Surr)	76		43 - 145				11/18/22 08:27	11/22/22 21:03	1
2,4,6-Tribromophenol	79		31 - 143				11/18/22 08:27	11/22/22 21:03	1
Terphenyl-d14 (Surr)	105		42 - 157				11/18/22 08:27	11/22/22 21:03	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.32	J	1.1	0.22	mg/Kg	☼	11/16/22 16:18	11/18/22 20:22	1
Arsenic	7.8		0.55	0.19	mg/Kg	☼	11/16/22 16:18	11/18/22 20:22	1
Barium	60		2.8	0.32	mg/Kg	☼	11/16/22 16:18	11/21/22 13:53	5
Beryllium	0.66		0.22	0.052	mg/Kg	☼	11/16/22 16:18	11/18/22 20:22	1
Boron	7.5		2.8	0.26	mg/Kg	☼	11/16/22 16:18	11/18/22 20:22	1
Cadmium	0.31		0.11	0.020	mg/Kg	☼	11/16/22 16:18	11/18/22 20:22	1
Calcium	82000		55	9.4	mg/Kg	☼	11/16/22 16:18	11/21/22 13:53	5
Chromium	12		0.55	0.27	mg/Kg	☼	11/16/22 16:18	11/18/22 20:22	1
Cobalt	8.3		0.28	0.073	mg/Kg	☼	11/16/22 16:18	11/18/22 20:22	1
Copper	19		0.55	0.16	mg/Kg	☼	11/16/22 16:18	11/18/22 20:22	1
Iron	19000		55	29	mg/Kg	☼	11/16/22 16:18	11/21/22 13:53	5
Lead	27		0.28	0.13	mg/Kg	☼	11/16/22 16:18	11/18/22 20:22	1
Magnesium	48000		28	14	mg/Kg	☼	11/16/22 16:18	11/21/22 13:53	5
Manganese	450		0.55	0.080	mg/Kg	☼	11/16/22 16:18	11/18/22 20:22	1
Nickel	19		0.55	0.16	mg/Kg	☼	11/16/22 16:18	11/18/22 20:22	1
Potassium	1600		28	9.8	mg/Kg	☼	11/16/22 16:18	11/18/22 20:22	1
Selenium	<0.55		0.55	0.33	mg/Kg	☼	11/16/22 16:18	11/18/22 20:22	1
Silver	0.26	J	0.28	0.072	mg/Kg	☼	11/16/22 16:18	11/18/22 20:22	1
Sodium	120		55	8.2	mg/Kg	☼	11/16/22 16:18	11/18/22 20:22	1
Thallium	0.39	J	0.55	0.28	mg/Kg	☼	11/16/22 16:18	11/18/22 20:22	1
Vanadium	17		0.28	0.065	mg/Kg	☼	11/16/22 16:18	11/18/22 20:22	1
Zinc	81		1.1	0.49	mg/Kg	☼	11/16/22 16:18	11/18/22 20:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.45	J	0.50	0.050	mg/L		11/17/22 19:46	11/18/22 19:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/17/22 19:46	11/18/22 19:30	1
Boron	0.059	J	0.50	0.050	mg/L		11/17/22 19:46	11/18/22 19:30	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

Client Sample ID: 1401V3-08-B02 (0-2)

Lab Sample ID: 500-225243-4

Date Collected: 11/09/22 11:30

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/17/22 19:46	11/18/22 19:30	1
Chromium	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:30	1
Cobalt	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:30	1
Iron	<0.40		0.40	0.20	mg/L		11/17/22 19:46	11/18/22 19:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 19:46	11/18/22 19:30	1
Manganese	0.048		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:30	1
Nickel	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:30	1
Selenium	<0.050		0.050	0.020	mg/L		11/17/22 19:46	11/18/22 19:30	1
Silver	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:30	1
Zinc	0.022	J	0.50	0.020	mg/L		11/17/22 19:46	11/18/22 19:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/17/22 19:46	11/18/22 21:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/17/22 19:46	11/18/22 21:21	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/18/22 14:55	11/21/22 10:36	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.018	0.0060	mg/Kg	☼	11/17/22 15:25	11/18/22 07:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.5		0.2	0.2	SU			11/17/22 11:40	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

Client Sample ID: 1401V3-08-B01 (0-4)

Lab Sample ID: 500-225243-5

Date Collected: 11/09/22 11:40

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0073	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
1,1-Dichloroethene	<0.0017	*+	0.0017	0.00057	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
Methylene Chloride	<0.0042		0.0042	0.0016	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
Trichloroethene	<0.0017	*+	0.0017	0.00056	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
Vinyl acetate	<0.0042		0.0042	0.0015	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	11/11/22 10:37	11/15/22 20:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		75 - 131	11/11/22 10:37	11/15/22 20:49	1
Dibromofluoromethane	112		75 - 126	11/11/22 10:37	11/15/22 20:49	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	11/11/22 10:37	11/15/22 20:49	1
Toluene-d8 (Surr)	102		75 - 124	11/11/22 10:37	11/15/22 20:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
1,3-Dichlorobenzene	<0.19	*-	0.19	0.043	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
1,4-Dichlorobenzene	<0.19	*-	0.19	0.049	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

Client Sample ID: 1401V3-08-B01 (0-4)

Lab Sample ID: 500-225243-5

Date Collected: 11/09/22 11:40

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19	*-	0.19	0.045	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
Hexachloroethane	<0.19	*-	0.19	0.058	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
1,2,4-Trichlorobenzene	<0.19	*-	0.19	0.041	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
Hexachlorobutadiene	<0.19	*-	0.19	0.060	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
Naphthalene	<0.038	*-	0.038	0.0058	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
4-Chloroaniline	<0.76	*-	0.76	0.18	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
2-Methylnaphthalene	<0.076	*-	0.076	0.0070	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
3-Nitroaniline	<0.38	*-	0.38	0.12	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
4-Bromophenyl phenyl ether	<0.19	*3	0.19	0.050	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
Hexachlorobenzene	<0.076	*3	0.076	0.0088	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
Pentachlorophenol	<0.76	*3	0.76	0.61	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
N-Nitrosodiphenylamine	<0.19	*3	0.19	0.045	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
4,6-Dinitro-2-methylphenol	<0.76	*3	0.76	0.30	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
Anthracene	0.0070	J *3	0.038	0.0063	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
Carbazole	<0.19	*3	0.19	0.095	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
Di-n-butyl phthalate	<0.19	*3	0.19	0.058	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
Pyrene	0.060		0.038	0.0075	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
Benzo[a]anthracene	0.044		0.038	0.0051	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
Chrysene	0.060		0.038	0.010	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

Client Sample ID: 1401V3-08-B01 (0-4)

Lab Sample ID: 500-225243-5

Date Collected: 11/09/22 11:40

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
Di-n-octyl phthalate	<0.19	*3	0.19	0.062	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
Benzo[b]fluoranthene	0.065		0.038	0.0082	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
Benzo[k]fluoranthene	0.020	J	0.038	0.011	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
Benzo[a]pyrene	0.046		0.038	0.0073	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
Indeno[1,2,3-cd]pyrene	0.034	J	0.038	0.0098	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
Dibenz(a,h)anthracene	0.0087	J	0.038	0.0073	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
Benzo[g,h,i]perylene	0.035	J	0.038	0.012	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	11/18/22 08:27	11/22/22 19:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	110		31 - 166				11/18/22 08:27	11/22/22 19:07	1
Phenol-d5	67		30 - 153				11/18/22 08:27	11/22/22 19:07	1
Nitrobenzene-d5 (Surr)	76		37 - 147				11/18/22 08:27	11/22/22 19:07	1
2-Fluorobiphenyl (Surr)	83		43 - 145				11/18/22 08:27	11/22/22 19:07	1
2,4,6-Tribromophenol	20	S1-	31 - 143				11/18/22 08:27	11/22/22 19:07	1
Terphenyl-d14 (Surr)	74		42 - 157				11/18/22 08:27	11/22/22 19:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	0.048	J	0.075	0.011	mg/Kg	☼	11/18/22 08:27	11/23/22 18:01	2
Fluoranthene	0.085		0.075	0.014	mg/Kg	☼	11/18/22 08:27	11/23/22 18:01	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	91		31 - 166				11/18/22 08:27	11/23/22 18:01	2
Phenol-d5	66		30 - 153				11/18/22 08:27	11/23/22 18:01	2
Nitrobenzene-d5 (Surr)	71		37 - 147				11/18/22 08:27	11/23/22 18:01	2
2-Fluorobiphenyl (Surr)	79		43 - 145				11/18/22 08:27	11/23/22 18:01	2
2,4,6-Tribromophenol	76		31 - 143				11/18/22 08:27	11/23/22 18:01	2
Terphenyl-d14 (Surr)	125		42 - 157				11/18/22 08:27	11/23/22 18:01	2

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.39	J	1.1	0.22	mg/Kg	☼	11/16/22 16:18	11/18/22 20:25	1
Arsenic	12		0.57	0.20	mg/Kg	☼	11/16/22 16:18	11/18/22 20:25	1
Barium	50		2.9	0.33	mg/Kg	☼	11/16/22 16:18	11/21/22 13:57	5
Beryllium	0.79		0.23	0.053	mg/Kg	☼	11/16/22 16:18	11/18/22 20:25	1
Boron	8.4		2.9	0.27	mg/Kg	☼	11/16/22 16:18	11/18/22 20:25	1
Cadmium	0.30		0.11	0.021	mg/Kg	☼	11/16/22 16:18	11/18/22 20:25	1
Calcium	75000		57	9.7	mg/Kg	☼	11/16/22 16:18	11/21/22 13:57	5
Chromium	12		0.57	0.28	mg/Kg	☼	11/16/22 16:18	11/18/22 20:25	1
Cobalt	13		0.29	0.075	mg/Kg	☼	11/16/22 16:18	11/18/22 20:25	1
Copper	26		0.57	0.16	mg/Kg	☼	11/16/22 16:18	11/18/22 20:25	1
Iron	26000		57	30	mg/Kg	☼	11/16/22 16:18	11/21/22 13:57	5
Lead	26		0.29	0.13	mg/Kg	☼	11/16/22 16:18	11/18/22 20:25	1
Magnesium	48000		29	14	mg/Kg	☼	11/16/22 16:18	11/21/22 13:57	5
Manganese	610		0.57	0.083	mg/Kg	☼	11/16/22 16:18	11/18/22 20:25	1
Nickel	28		0.57	0.17	mg/Kg	☼	11/16/22 16:18	11/18/22 20:25	1
Potassium	1700		29	10	mg/Kg	☼	11/16/22 16:18	11/18/22 20:25	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	11/16/22 16:18	11/18/22 20:25	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

Client Sample ID: 1401V3-08-B01 (0-4)

Lab Sample ID: 500-225243-5

Date Collected: 11/09/22 11:40

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.22	J	0.29	0.074	mg/Kg	☼	11/16/22 16:18	11/18/22 20:25	1
Sodium	140		57	8.5	mg/Kg	☼	11/16/22 16:18	11/18/22 20:25	1
Thallium	0.36	J	0.57	0.29	mg/Kg	☼	11/16/22 16:18	11/18/22 20:25	1
Vanadium	18		0.29	0.067	mg/Kg	☼	11/16/22 16:18	11/18/22 20:25	1
Zinc	56		1.1	0.50	mg/Kg	☼	11/16/22 16:18	11/18/22 20:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.30	J	0.50	0.050	mg/L		11/17/22 19:46	11/18/22 19:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/17/22 19:46	11/18/22 19:33	1
Boron	0.071	J	0.50	0.050	mg/L		11/17/22 19:46	11/18/22 19:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/17/22 19:46	11/18/22 19:33	1
Chromium	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:33	1
Cobalt	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:33	1
Iron	<0.40		0.40	0.20	mg/L		11/17/22 19:46	11/18/22 19:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 19:46	11/18/22 19:33	1
Manganese	0.10		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:33	1
Nickel	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:33	1
Selenium	<0.050		0.050	0.020	mg/L		11/17/22 19:46	11/18/22 19:33	1
Silver	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:33	1
Zinc	0.026	J	0.50	0.020	mg/L		11/17/22 19:46	11/18/22 19:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/17/22 19:46	11/18/22 21:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/17/22 19:46	11/18/22 21:25	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/18/22 14:55	11/21/22 10:38	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.019	0.0063	mg/Kg	☼	11/17/22 15:25	11/18/22 07:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.6		0.2	0.2	SU			11/17/22 11:45	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

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

Glossary

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

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

GC/MS VOA

Prep Batch: 684698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225243-1	1401V3-08-B05 (0-3)	Total/NA	Solid	5035	
500-225243-2	1401V3-08-B04 (0-1)	Total/NA	Solid	5035	
500-225243-3	1401V3-08-B03 (0-4)	Total/NA	Solid	5035	
500-225243-4	1401V3-08-B02 (0-2)	Total/NA	Solid	5035	
500-225243-5	1401V3-08-B01 (0-4)	Total/NA	Solid	5035	

Analysis Batch: 684930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225243-1	1401V3-08-B05 (0-3)	Total/NA	Solid	8260B	684698
500-225243-2	1401V3-08-B04 (0-1)	Total/NA	Solid	8260B	684698
500-225243-3	1401V3-08-B03 (0-4)	Total/NA	Solid	8260B	684698
500-225243-4	1401V3-08-B02 (0-2)	Total/NA	Solid	8260B	684698
500-225243-5	1401V3-08-B01 (0-4)	Total/NA	Solid	8260B	684698
MB 500-684930/11	Method Blank	Total/NA	Solid	8260B	
LCS 500-684930/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-684930/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 685797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225243-1	1401V3-08-B05 (0-3)	Total/NA	Solid	3541	
500-225243-2	1401V3-08-B04 (0-1)	Total/NA	Solid	3541	
500-225243-3	1401V3-08-B03 (0-4)	Total/NA	Solid	3541	
500-225243-4	1401V3-08-B02 (0-2)	Total/NA	Solid	3541	
500-225243-5 - DL	1401V3-08-B01 (0-4)	Total/NA	Solid	3541	
500-225243-5	1401V3-08-B01 (0-4)	Total/NA	Solid	3541	
MB 500-685797/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-685797/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 686590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225243-1	1401V3-08-B05 (0-3)	Total/NA	Solid	8270D	685797
500-225243-2	1401V3-08-B04 (0-1)	Total/NA	Solid	8270D	685797
500-225243-3	1401V3-08-B03 (0-4)	Total/NA	Solid	8270D	685797
500-225243-4	1401V3-08-B02 (0-2)	Total/NA	Solid	8270D	685797
500-225243-5	1401V3-08-B01 (0-4)	Total/NA	Solid	8270D	685797
MB 500-685797/1-A	Method Blank	Total/NA	Solid	8270D	685797
LCS 500-685797/2-A	Lab Control Sample	Total/NA	Solid	8270D	685797

Analysis Batch: 686697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225243-5 - DL	1401V3-08-B01 (0-4)	Total/NA	Solid	8270D	685797

Metals

Leach Batch: 685341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225243-1	1401V3-08-B05 (0-3)	SPLP East	Solid	1312	
500-225243-2	1401V3-08-B04 (0-1)	SPLP East	Solid	1312	
500-225243-3	1401V3-08-B03 (0-4)	SPLP East	Solid	1312	
LB 500-685341/1-B	Method Blank	SPLP East	Solid	1312	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

Metals

Leach Batch: 685351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225243-1	1401V3-08-B05 (0-3)	TCLP	Solid	1311	
500-225243-2	1401V3-08-B04 (0-1)	TCLP	Solid	1311	
500-225243-3	1401V3-08-B03 (0-4)	TCLP	Solid	1311	
500-225243-4	1401V3-08-B02 (0-2)	TCLP	Solid	1311	
500-225243-5	1401V3-08-B01 (0-4)	TCLP	Solid	1311	
LB 500-685351/1-B	Method Blank	TCLP	Solid	1311	
LB 500-685351/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 685390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225243-1	1401V3-08-B05 (0-3)	Total/NA	Solid	3050B	
500-225243-2	1401V3-08-B04 (0-1)	Total/NA	Solid	3050B	
500-225243-3	1401V3-08-B03 (0-4)	Total/NA	Solid	3050B	
500-225243-4	1401V3-08-B02 (0-2)	Total/NA	Solid	3050B	
500-225243-5	1401V3-08-B01 (0-4)	Total/NA	Solid	3050B	
MB 500-685390/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-685390/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 685449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225243-1	1401V3-08-B05 (0-3)	Total/NA	Solid	7471B	
500-225243-2	1401V3-08-B04 (0-1)	Total/NA	Solid	7471B	
500-225243-3	1401V3-08-B03 (0-4)	Total/NA	Solid	7471B	
500-225243-4	1401V3-08-B02 (0-2)	Total/NA	Solid	7471B	
500-225243-5	1401V3-08-B01 (0-4)	Total/NA	Solid	7471B	
MB 500-685449/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-685449/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 685493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-685493/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-685493/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 685723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225243-1	1401V3-08-B05 (0-3)	TCLP	Solid	3010A	685351
500-225243-2	1401V3-08-B04 (0-1)	TCLP	Solid	3010A	685351
500-225243-3	1401V3-08-B03 (0-4)	TCLP	Solid	3010A	685351
500-225243-4	1401V3-08-B02 (0-2)	TCLP	Solid	3010A	685351
500-225243-5	1401V3-08-B01 (0-4)	TCLP	Solid	3010A	685351
LB 500-685351/1-B	Method Blank	TCLP	Solid	3010A	685351
LCS 500-685723/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 685726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225243-1	1401V3-08-B05 (0-3)	SPLP East	Solid	3010A	685341
500-225243-2	1401V3-08-B04 (0-1)	SPLP East	Solid	3010A	685341
500-225243-3	1401V3-08-B03 (0-4)	SPLP East	Solid	3010A	685341
LB 500-685341/1-B	Method Blank	SPLP East	Solid	3010A	685341
LCS 500-685726/2-A	Lab Control Sample	Total/NA	Solid	3010A	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

Metals

Analysis Batch: 685886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225243-1	1401V3-08-B05 (0-3)	Total/NA	Solid	7471B	685449
500-225243-2	1401V3-08-B04 (0-1)	Total/NA	Solid	7471B	685449
500-225243-3	1401V3-08-B03 (0-4)	Total/NA	Solid	7471B	685449
500-225243-4	1401V3-08-B02 (0-2)	Total/NA	Solid	7471B	685449
500-225243-5	1401V3-08-B01 (0-4)	Total/NA	Solid	7471B	685449
MB 500-685449/12-A	Method Blank	Total/NA	Solid	7471B	685449
MB 500-685493/12-A	Method Blank	Total/NA	Solid	7471B	685493
LCS 500-685449/13-A	Lab Control Sample	Total/NA	Solid	7471B	685449
LCS 500-685493/13-A	Lab Control Sample	Total/NA	Solid	7471B	685493

Prep Batch: 685917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225243-1	1401V3-08-B05 (0-3)	TCLP	Solid	7470A	685351
500-225243-2	1401V3-08-B04 (0-1)	TCLP	Solid	7470A	685351
500-225243-3	1401V3-08-B03 (0-4)	TCLP	Solid	7470A	685351
500-225243-4	1401V3-08-B02 (0-2)	TCLP	Solid	7470A	685351
500-225243-5	1401V3-08-B01 (0-4)	TCLP	Solid	7470A	685351
LB 500-685351/1-C	Method Blank	TCLP	Solid	7470A	685351
MB 500-685917/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-685917/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 686064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225243-1	1401V3-08-B05 (0-3)	TCLP	Solid	6020A	685723
500-225243-2	1401V3-08-B04 (0-1)	TCLP	Solid	6020A	685723
500-225243-3	1401V3-08-B03 (0-4)	TCLP	Solid	6020A	685723
500-225243-4	1401V3-08-B02 (0-2)	TCLP	Solid	6020A	685723
500-225243-5	1401V3-08-B01 (0-4)	TCLP	Solid	6020A	685723
LB 500-685351/1-B	Method Blank	TCLP	Solid	6020A	685723
LCS 500-685723/2-A	Lab Control Sample	Total/NA	Solid	6020A	685723

Analysis Batch: 686264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225243-1	1401V3-08-B05 (0-3)	Total/NA	Solid	6010B	685390
500-225243-2	1401V3-08-B04 (0-1)	Total/NA	Solid	6010B	685390
500-225243-3	1401V3-08-B03 (0-4)	Total/NA	Solid	6010B	685390
500-225243-4	1401V3-08-B02 (0-2)	Total/NA	Solid	6010B	685390
500-225243-5	1401V3-08-B01 (0-4)	Total/NA	Solid	6010B	685390
MB 500-685390/1-A	Method Blank	Total/NA	Solid	6010B	685390
LCS 500-685390/2-A	Lab Control Sample	Total/NA	Solid	6010B	685390

Analysis Batch: 686272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225243-1	1401V3-08-B05 (0-3)	TCLP	Solid	6010B	685723
500-225243-2	1401V3-08-B04 (0-1)	TCLP	Solid	6010B	685723
500-225243-3	1401V3-08-B03 (0-4)	TCLP	Solid	6010B	685723
500-225243-4	1401V3-08-B02 (0-2)	TCLP	Solid	6010B	685723
500-225243-5	1401V3-08-B01 (0-4)	TCLP	Solid	6010B	685723
LB 500-685351/1-B	Method Blank	TCLP	Solid	6010B	685723
LCS 500-685723/2-A	Lab Control Sample	Total/NA	Solid	6010B	685723

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

Metals

Analysis Batch: 686339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225243-1	1401V3-08-B05 (0-3)	TCLP	Solid	7470A	685917
500-225243-2	1401V3-08-B04 (0-1)	TCLP	Solid	7470A	685917
500-225243-3	1401V3-08-B03 (0-4)	TCLP	Solid	7470A	685917
500-225243-4	1401V3-08-B02 (0-2)	TCLP	Solid	7470A	685917
500-225243-5	1401V3-08-B01 (0-4)	TCLP	Solid	7470A	685917
LB 500-685351/1-C	Method Blank	TCLP	Solid	7470A	685917
MB 500-685917/12-A	Method Blank	Total/NA	Solid	7470A	685917
LCS 500-685917/14-A	Lab Control Sample	Total/NA	Solid	7470A	685917

Analysis Batch: 686466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225243-4	1401V3-08-B02 (0-2)	Total/NA	Solid	6010B	685390
500-225243-5	1401V3-08-B01 (0-4)	Total/NA	Solid	6010B	685390

Analysis Batch: 686571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225243-1	1401V3-08-B05 (0-3)	SPLP East	Solid	6010B	685726
500-225243-2	1401V3-08-B04 (0-1)	SPLP East	Solid	6010B	685726
500-225243-3	1401V3-08-B03 (0-4)	SPLP East	Solid	6010B	685726
LB 500-685341/1-B	Method Blank	SPLP East	Solid	6010B	685726
LCS 500-685726/2-A	Lab Control Sample	Total/NA	Solid	6010B	685726

General Chemistry

Analysis Batch: 685265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225243-1	1401V3-08-B05 (0-3)	Total/NA	Solid	Moisture	
500-225243-2	1401V3-08-B04 (0-1)	Total/NA	Solid	Moisture	
500-225243-3	1401V3-08-B03 (0-4)	Total/NA	Solid	Moisture	
500-225243-4	1401V3-08-B02 (0-2)	Total/NA	Solid	Moisture	
500-225243-5	1401V3-08-B01 (0-4)	Total/NA	Solid	Moisture	

Analysis Batch: 685546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225243-1	1401V3-08-B05 (0-3)	Total/NA	Solid	9045D	
500-225243-2	1401V3-08-B04 (0-1)	Total/NA	Solid	9045D	
500-225243-3	1401V3-08-B03 (0-4)	Total/NA	Solid	9045D	
500-225243-4	1401V3-08-B02 (0-2)	Total/NA	Solid	9045D	
500-225243-5	1401V3-08-B01 (0-4)	Total/NA	Solid	9045D	
LCS 500-685546/5	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-685546/6	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-225243-5 DU	1401V3-08-B01 (0-4)	Total/NA	Solid	9045D	

Surrogate Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(75-131)	(75-126)	(70-134)	(75-124)
500-225243-1	1401V3-08-B05 (0-3)	107	109	107	98
500-225243-2	1401V3-08-B04 (0-1)	102	109	105	101
500-225243-3	1401V3-08-B03 (0-4)	106	110	110	98
500-225243-4	1401V3-08-B02 (0-2)	111	109	113	99
500-225243-5	1401V3-08-B01 (0-4)	111	112	113	102
LCS 500-684930/4	Lab Control Sample	113	101	97	105
LCSD 500-684930/5	Lab Control Sample Dup	111	103	101	103
MB 500-684930/11	Method Blank	106	107	102	99

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP	PHL	NBZ	FBP	TBP	TPHL
		(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-225243-1	1401V3-08-B05 (0-3)	104	93	67	76	86	102
500-225243-2	1401V3-08-B04 (0-1)	132	117	80	90	111	108
500-225243-3	1401V3-08-B03 (0-4)	115	80	68	67	97	98
500-225243-4	1401V3-08-B02 (0-2)	107	93	68	76	79	105
500-225243-5	1401V3-08-B01 (0-4)	110	67	76	83	20 S1-	74
500-225243-5 - DL	1401V3-08-B01 (0-4)	91	66	71	79	76	125
LCS 500-685797/2-A	Lab Control Sample	89	86	59	76	105	107
MB 500-685797/1-A	Method Blank	125	103	74	86	100	107

Surrogate Legend

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

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

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

Lab Sample ID: MB 500-684930/11
Matrix: Solid
Analysis Batch: 684930

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			11/15/22 15:07	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			11/15/22 15:07	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			11/15/22 15:07	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			11/15/22 15:07	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			11/15/22 15:07	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			11/15/22 15:07	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			11/15/22 15:07	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			11/15/22 15:07	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			11/15/22 15:07	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			11/15/22 15:07	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			11/15/22 15:07	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			11/15/22 15:07	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			11/15/22 15:07	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			11/15/22 15:07	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			11/15/22 15:07	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			11/15/22 15:07	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			11/15/22 15:07	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			11/15/22 15:07	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			11/15/22 15:07	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			11/15/22 15:07	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			11/15/22 15:07	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			11/15/22 15:07	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			11/15/22 15:07	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			11/15/22 15:07	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			11/15/22 15:07	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			11/15/22 15:07	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			11/15/22 15:07	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/15/22 15:07	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			11/15/22 15:07	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			11/15/22 15:07	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			11/15/22 15:07	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			11/15/22 15:07	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			11/15/22 15:07	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/15/22 15:07	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			11/15/22 15:07	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			11/15/22 15:07	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			11/15/22 15:07	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	106		75 - 131		11/15/22 15:07	1
Dibromofluoromethane	107		75 - 126		11/15/22 15:07	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		11/15/22 15:07	1
Toluene-d8 (Surr)	99		75 - 124		11/15/22 15:07	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

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

Lab Sample ID: LCS 500-684930/4
Matrix: Solid
Analysis Batch: 684930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0400	0.0280		mg/Kg		70	40 - 150
Benzene	0.0400	0.0430		mg/Kg		107	70 - 125
Bromodichloromethane	0.0400	0.0434		mg/Kg		108	67 - 129
Bromoform	0.0400	0.0420		mg/Kg		105	68 - 136
Bromomethane	0.0400	0.0458		mg/Kg		114	70 - 130
2-Butanone (MEK)	0.0400	0.0265		mg/Kg		66	47 - 138
Carbon disulfide	0.0400	0.0435		mg/Kg		109	70 - 129
Carbon tetrachloride	0.0400	0.0453		mg/Kg		113	75 - 125
Chlorobenzene	0.0400	0.0463		mg/Kg		116	50 - 150
Chloroethane	0.0400	0.0473		mg/Kg		118	75 - 125
Chloroform	0.0400	0.0416		mg/Kg		104	57 - 135
Chloromethane	0.0400	0.0411		mg/Kg		103	70 - 125
cis-1,2-Dichloroethene	0.0400	0.0432		mg/Kg		108	70 - 125
cis-1,3-Dichloropropene	0.0400	0.0433		mg/Kg		108	70 - 125
Dibromochloromethane	0.0400	0.0436		mg/Kg		109	69 - 125
1,1-Dichloroethane	0.0400	0.0423		mg/Kg		106	70 - 125
1,2-Dichloroethane	0.0400	0.0433		mg/Kg		108	70 - 130
1,1-Dichloroethene	0.0400	0.0482	*+	mg/Kg		121	70 - 120
1,2-Dichloropropane	0.0400	0.0407		mg/Kg		102	70 - 125
Ethylbenzene	0.0400	0.0425		mg/Kg		106	61 - 136
2-Hexanone	0.0400	0.0318		mg/Kg		79	48 - 146
Methylene Chloride	0.0400	0.0421		mg/Kg		105	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0400	0.0280		mg/Kg		70	50 - 148
Methyl tert-butyl ether	0.0400	0.0380		mg/Kg		95	50 - 140
Styrene	0.0400	0.0430		mg/Kg		108	70 - 125
1,1,2,2-Tetrachloroethane	0.0400	0.0406		mg/Kg		102	70 - 122
Tetrachloroethene	0.0400	0.0471		mg/Kg		118	70 - 124
Toluene	0.0400	0.0417		mg/Kg		104	70 - 125
trans-1,2-Dichloroethene	0.0400	0.0474		mg/Kg		118	70 - 125
trans-1,3-Dichloropropene	0.0400	0.0451		mg/Kg		113	70 - 125
1,1,1-Trichloroethane	0.0400	0.0424		mg/Kg		106	70 - 128
1,1,2-Trichloroethane	0.0400	0.0432		mg/Kg		108	70 - 125
Trichloroethene	0.0400	0.0507	*+	mg/Kg		127	70 - 125
Vinyl acetate	0.0400	0.0295		mg/Kg		74	40 - 153
Vinyl chloride	0.0400	0.0458		mg/Kg		115	70 - 125
Xylenes, Total	0.0800	0.0783		mg/Kg		98	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	113		75 - 131
Dibromofluoromethane	101		75 - 126
1,2-Dichloroethane-d4 (Surr)	97		70 - 134
Toluene-d8 (Surr)	105		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

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

Lab Sample ID: LCSD 500-684930/5
Matrix: Solid
Analysis Batch: 684930

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.0400	0.0363		mg/Kg		91	40 - 150	26	30
Benzene	0.0400	0.0417		mg/Kg		104	70 - 125	3	30
Bromodichloromethane	0.0400	0.0426		mg/Kg		106	67 - 129	2	30
Bromoform	0.0400	0.0426		mg/Kg		107	68 - 136	1	30
Bromomethane	0.0400	0.0387		mg/Kg		97	70 - 130	17	30
2-Butanone (MEK)	0.0400	0.0313		mg/Kg		78	47 - 138	17	30
Carbon disulfide	0.0400	0.0419		mg/Kg		105	70 - 129	4	30
Carbon tetrachloride	0.0400	0.0427		mg/Kg		107	75 - 125	6	30
Chlorobenzene	0.0400	0.0441		mg/Kg		110	50 - 150	5	30
Chloroethane	0.0400	0.0402		mg/Kg		100	75 - 125	16	30
Chloroform	0.0400	0.0403		mg/Kg		101	57 - 135	3	30
Chloromethane	0.0400	0.0338		mg/Kg		85	70 - 125	19	30
cis-1,2-Dichloroethene	0.0400	0.0421		mg/Kg		105	70 - 125	2	30
cis-1,3-Dichloropropene	0.0400	0.0428		mg/Kg		107	70 - 125	1	30
Dibromochloromethane	0.0400	0.0426		mg/Kg		106	69 - 125	2	30
1,1-Dichloroethane	0.0400	0.0409		mg/Kg		102	70 - 125	3	30
1,2-Dichloroethane	0.0400	0.0430		mg/Kg		107	70 - 130	1	30
1,1-Dichloroethene	0.0400	0.0451		mg/Kg		113	70 - 120	7	30
1,2-Dichloropropane	0.0400	0.0390		mg/Kg		98	70 - 125	4	30
Ethylbenzene	0.0400	0.0403		mg/Kg		101	61 - 136	5	30
2-Hexanone	0.0400	0.0328		mg/Kg		82	48 - 146	3	30
Methylene Chloride	0.0400	0.0409		mg/Kg		102	70 - 126	3	30
4-Methyl-2-pentanone (MIBK)	0.0400	0.0289		mg/Kg		72	50 - 148	3	30
Methyl tert-butyl ether	0.0400	0.0371		mg/Kg		93	50 - 140	2	30
Styrene	0.0400	0.0421		mg/Kg		105	70 - 125	2	30
1,1,2,2-Tetrachloroethane	0.0400	0.0391		mg/Kg		98	70 - 122	4	30
Tetrachloroethene	0.0400	0.0446		mg/Kg		112	70 - 124	5	30
Toluene	0.0400	0.0394		mg/Kg		99	70 - 125	6	30
trans-1,2-Dichloroethene	0.0400	0.0454		mg/Kg		114	70 - 125	4	30
trans-1,3-Dichloropropene	0.0400	0.0447		mg/Kg		112	70 - 125	1	30
1,1,1-Trichloroethane	0.0400	0.0402		mg/Kg		100	70 - 128	5	30
1,1,2-Trichloroethane	0.0400	0.0419		mg/Kg		105	70 - 125	3	30
Trichloroethene	0.0400	0.0487		mg/Kg		122	70 - 125	4	30
Vinyl acetate	0.0400	0.0303		mg/Kg		76	40 - 153	3	30
Vinyl chloride	0.0400	0.0384		mg/Kg		96	70 - 125	18	30
Xylenes, Total	0.0800	0.0750		mg/Kg		94	53 - 147	4	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	111		75 - 131
Dibromofluoromethane	103		75 - 126
1,2-Dichloroethane-d4 (Surr)	101		70 - 134
Toluene-d8 (Surr)	103		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

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

Lab Sample ID: MB 500-685797/1-A
Matrix: Solid
Analysis Batch: 686590

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685797

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Isophorone	<0.17		0.17	0.037	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Carbazole	<0.17		0.17	0.083	mg/Kg		11/18/22 08:27	11/22/22 17:35	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

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

Lab Sample ID: MB 500-685797/1-A
Matrix: Solid
Analysis Batch: 686590

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685797

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		11/18/22 08:27	11/22/22 17:35	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		11/18/22 08:27	11/22/22 17:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	125		31 - 166	11/18/22 08:27	11/22/22 17:35	1
Phenol-d5	103		30 - 153	11/18/22 08:27	11/22/22 17:35	1
Nitrobenzene-d5 (Surr)	74		37 - 147	11/18/22 08:27	11/22/22 17:35	1
2-Fluorobiphenyl (Surr)	86		43 - 145	11/18/22 08:27	11/22/22 17:35	1
2,4,6-Tribromophenol	100		31 - 143	11/18/22 08:27	11/22/22 17:35	1
Terphenyl-d14 (Surr)	107		42 - 157	11/18/22 08:27	11/22/22 17:35	1

Lab Sample ID: LCS 500-685797/2-A
Matrix: Solid
Analysis Batch: 686590

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685797

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.08		mg/Kg		81	56 - 122
Bis(2-chloroethyl)ether	1.33	0.934		mg/Kg		70	55 - 111
1,3-Dichlorobenzene	1.33	0.620	*-	mg/Kg		47	65 - 124
1,4-Dichlorobenzene	1.33	0.645	*-	mg/Kg		48	61 - 110
1,2-Dichlorobenzene	1.33	0.663	*-	mg/Kg		50	62 - 110
2-Methylphenol	1.33	1.02		mg/Kg		76	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	0.717		mg/Kg		54	40 - 124
N-Nitrosodi-n-propylamine	1.33	0.855		mg/Kg		64	56 - 118
Hexachloroethane	1.33	0.584	*-	mg/Kg		44	60 - 114
2-Chlorophenol	1.33	0.975		mg/Kg		73	64 - 110
Nitrobenzene	1.33	0.826		mg/Kg		62	60 - 116
Bis(2-chloroethoxy)methane	1.33	0.907		mg/Kg		68	60 - 112
1,2,4-Trichlorobenzene	1.33	0.792	*-	mg/Kg		59	66 - 117
Isophorone	1.33	0.852		mg/Kg		64	55 - 110
2,4-Dimethylphenol	1.33	1.03		mg/Kg		77	60 - 110
Hexachlorobutadiene	1.33	0.733	*-	mg/Kg		55	56 - 120
Naphthalene	1.33	0.813	*-	mg/Kg		61	63 - 110
2,4-Dichlorophenol	1.33	1.05		mg/Kg		79	58 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

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

Lab Sample ID: LCS 500-685797/2-A
Matrix: Solid
Analysis Batch: 686590

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685797

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloroaniline	1.33	0.236	J *	mg/Kg		18	30 - 150
2,4,6-Trichlorophenol	1.33	1.16		mg/Kg		87	57 - 120
2,4,5-Trichlorophenol	1.33	1.24		mg/Kg		93	50 - 120
Hexachlorocyclopentadiene	1.33	0.466	J	mg/Kg		35	10 - 133
2-Methylnaphthalene	1.33	0.903	*	mg/Kg		68	69 - 112
2-Nitroaniline	1.33	1.17		mg/Kg		88	57 - 124
2-Chloronaphthalene	1.33	1.05		mg/Kg		79	69 - 114
4-Chloro-3-methylphenol	1.33	1.20		mg/Kg		90	65 - 122
2,6-Dinitrotoluene	1.33	1.34		mg/Kg		101	70 - 123
2-Nitrophenol	1.33	0.943		mg/Kg		71	60 - 120
3-Nitroaniline	1.33	0.315	J *	mg/Kg		24	40 - 122
Dimethyl phthalate	1.33	1.21		mg/Kg		91	69 - 116
2,4-Dinitrophenol	2.67	1.24		mg/Kg		46	10 - 100
Acenaphthylene	1.33	1.14		mg/Kg		85	68 - 120
2,4-Dinitrotoluene	1.33	1.28		mg/Kg		96	69 - 124
Acenaphthene	1.33	1.10		mg/Kg		83	65 - 124
Dibenzofuran	1.33	1.16		mg/Kg		87	66 - 115
4-Nitrophenol	2.67	2.67		mg/Kg		100	30 - 122
Fluorene	1.33	1.18		mg/Kg		88	62 - 120
4-Nitroaniline	1.33	0.872		mg/Kg		65	60 - 160
4-Bromophenyl phenyl ether	1.33	1.15		mg/Kg		86	68 - 118
Hexachlorobenzene	1.33	1.16		mg/Kg		87	63 - 124
Diethyl phthalate	1.33	1.20		mg/Kg		90	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.18		mg/Kg		88	62 - 119
Pentachlorophenol	2.67	1.96		mg/Kg		73	13 - 112
N-Nitrosodiphenylamine	1.33	1.18		mg/Kg		88	65 - 112
4,6-Dinitro-2-methylphenol	2.67	1.74		mg/Kg		65	10 - 110
Phenanthrene	1.33	1.16		mg/Kg		87	62 - 120
Anthracene	1.33	1.22		mg/Kg		91	70 - 114
Carbazole	1.33	1.39		mg/Kg		104	65 - 142
Di-n-butyl phthalate	1.33	1.26		mg/Kg		95	65 - 120
Fluoranthene	1.33	1.31		mg/Kg		98	62 - 120
Pyrene	1.33	1.40		mg/Kg		105	61 - 128
Butyl benzyl phthalate	1.33	1.43		mg/Kg		107	71 - 129
Benzo[a]anthracene	1.33	1.43		mg/Kg		107	67 - 122
Chrysene	1.33	1.38		mg/Kg		103	63 - 120
3,3'-Dichlorobenzidine	1.33	0.592		mg/Kg		44	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.52		mg/Kg		114	72 - 131
Di-n-octyl phthalate	1.33	1.54		mg/Kg		115	68 - 134
Benzo[b]fluoranthene	1.33	1.33		mg/Kg		100	69 - 129
Benzo[k]fluoranthene	1.33	1.19		mg/Kg		89	68 - 127
Benzo[a]pyrene	1.33	1.40		mg/Kg		105	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.57		mg/Kg		118	68 - 130
Dibenz(a,h)anthracene	1.33	1.50		mg/Kg		112	64 - 131
Benzo[g,h,i]perylene	1.33	1.50		mg/Kg		113	72 - 131
3 & 4 Methylphenol	1.33	1.07		mg/Kg		80	57 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

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

Lab Sample ID: LCS 500-685797/2-A
Matrix: Solid
Analysis Batch: 686590

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685797

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	89		31 - 166
Phenol-d5	86		30 - 153
Nitrobenzene-d5 (Surr)	59		37 - 147
2-Fluorobiphenyl (Surr)	76		43 - 145
2,4,6-Tribromophenol	105		31 - 143
Terphenyl-d14 (Surr)	107		42 - 157

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-685390/1-A
Matrix: Solid
Analysis Batch: 686264

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685390

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Arsenic	<1.0		1.0	0.34	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Barium	<1.0		1.0	0.11	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Beryllium	<0.40		0.40	0.093	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Boron	<5.0		5.0	0.47	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Cadmium	<0.20		0.20	0.036	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Calcium	<20		20	3.4	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Chromium	<1.0		1.0	0.50	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Cobalt	<0.50		0.50	0.13	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Copper	<1.0		1.0	0.28	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Iron	<20		20	10	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Lead	<0.50		0.50	0.23	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Magnesium	<10		10	5.0	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Manganese	<1.0		1.0	0.15	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Nickel	<1.0		1.0	0.29	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Potassium	<50		50	18	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Selenium	<1.0		1.0	0.59	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Silver	<0.50		0.50	0.13	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Sodium	<100		100	15	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Thallium	<1.0		1.0	0.50	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Vanadium	<0.50		0.50	0.12	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Zinc	<2.0		2.0	0.88	mg/Kg		11/16/22 16:18	11/18/22 19:20	1

Lab Sample ID: LCS 500-685390/2-A
Matrix: Solid
Analysis Batch: 686264

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685390

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Antimony	50.0	45.0		mg/Kg		90	80 - 120
Arsenic	10.0	9.19		mg/Kg		92	80 - 120
Barium	200	201		mg/Kg		100	80 - 120
Beryllium	5.00	4.63		mg/Kg		93	80 - 120
Boron	100	84.1		mg/Kg		84	80 - 120
Cadmium	5.00	4.55		mg/Kg		91	80 - 120
Calcium	1000	941		mg/Kg		94	80 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-685390/2-A
Matrix: Solid
Analysis Batch: 686264

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685390

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	20.0	18.8		mg/Kg		94	80 - 120
Cobalt	50.0	48.3		mg/Kg		97	80 - 120
Copper	25.0	24.1		mg/Kg		97	80 - 120
Iron	100	100		mg/Kg		100	80 - 120
Lead	10.0	8.80		mg/Kg		88	80 - 120
Magnesium	1000	918		mg/Kg		92	80 - 120
Manganese	50.0	47.4		mg/Kg		95	80 - 120
Nickel	50.0	46.9		mg/Kg		94	80 - 120
Potassium	1000	933		mg/Kg		93	80 - 120
Selenium	10.0	8.39		mg/Kg		84	80 - 120
Silver	5.00	4.24		mg/Kg		85	80 - 120
Sodium	1000	965		mg/Kg		97	80 - 120
Thallium	10.0	8.94		mg/Kg		89	80 - 120
Vanadium	50.0	48.1		mg/Kg		96	80 - 120
Zinc	50.0	46.5		mg/Kg		93	80 - 120

Lab Sample ID: LCS 500-685723/2-A
Matrix: Solid
Analysis Batch: 686272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685723

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.500		mg/L		100	80 - 120
Beryllium	0.0500	0.0478		mg/L		96	80 - 120
Boron	1.00	0.907		mg/L		91	80 - 120
Cadmium	0.0500	0.0510		mg/L		102	80 - 120
Chromium	0.200	0.189		mg/L		95	80 - 120
Cobalt	0.500	0.495		mg/L		99	80 - 120
Iron	1.00	1.03		mg/L		103	80 - 120
Lead	0.100	0.0956		mg/L		96	80 - 120
Manganese	0.500	0.479		mg/L		96	80 - 120
Nickel	0.500	0.484		mg/L		97	80 - 120
Selenium	0.100	0.110		mg/L		110	80 - 120
Silver	0.0500	0.0519		mg/L		104	80 - 120
Zinc	0.500	0.506		mg/L		101	80 - 120

Lab Sample ID: LCS 500-685726/2-A
Matrix: Solid
Analysis Batch: 686571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685726

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	0.946		mg/L		95	80 - 120
Manganese	0.500	0.465		mg/L		93	80 - 120

Lab Sample ID: LB 500-685351/1-B
Matrix: Solid
Analysis Batch: 686272

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685723

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		11/17/22 19:46	11/18/22 18:28	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-685351/1-B
Matrix: Solid
Analysis Batch: 686272

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685723

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/17/22 19:46	11/18/22 18:28	1
Boron	<0.50		0.50	0.050	mg/L		11/17/22 19:46	11/18/22 18:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/17/22 19:46	11/18/22 18:28	1
Chromium	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 18:28	1
Cobalt	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 18:28	1
Iron	<0.40		0.40	0.20	mg/L		11/17/22 19:46	11/18/22 18:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 19:46	11/18/22 18:28	1
Manganese	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 18:28	1
Nickel	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 18:28	1
Selenium	<0.050		0.050	0.020	mg/L		11/17/22 19:46	11/18/22 18:28	1
Silver	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 18:28	1
Zinc	<0.50		0.50	0.020	mg/L		11/17/22 19:46	11/18/22 18:28	1

Lab Sample ID: LB 500-685341/1-B
Matrix: Solid
Analysis Batch: 686571

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 685726

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		11/17/22 20:00	11/22/22 12:33	1
Manganese	<0.025		0.025	0.010	mg/L		11/17/22 20:00	11/22/22 12:33	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-685723/2-A
Matrix: Solid
Analysis Batch: 686064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685723

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.476		mg/L		95	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: LB 500-685351/1-B
Matrix: Solid
Analysis Batch: 686064

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685723

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/17/22 19:46	11/18/22 20:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/17/22 19:46	11/18/22 20:23	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-685917/12-A
Matrix: Solid
Analysis Batch: 686339

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685917

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/18/22 14:55	11/21/22 09:56	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LCS 500-685917/14-A
Matrix: Solid
Analysis Batch: 686339

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685917

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00199		mg/L		100	80 - 120

Lab Sample ID: LB 500-685351/1-C
Matrix: Solid
Analysis Batch: 686339

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685917

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/18/22 14:55	11/21/22 09:58	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-685449/12-A
Matrix: Solid
Analysis Batch: 685886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685449

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		11/17/22 15:25	11/18/22 06:41	1

Lab Sample ID: LCS 500-685449/13-A
Matrix: Solid
Analysis Batch: 685886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685449

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.165		mg/Kg		100	80 - 120

Lab Sample ID: MB 500-685493/12-A
Matrix: Solid
Analysis Batch: 685886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685493

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00668	J	0.017	0.0056	mg/Kg		11/17/22 15:25	11/18/22 08:47	1

Lab Sample ID: LCS 500-685493/13-A
Matrix: Solid
Analysis Batch: 685886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685493

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.181		mg/Kg		109	80 - 120

Method: 9045D - pH

Lab Sample ID: 500-225243-5 DU
Matrix: Solid
Analysis Batch: 685546

Client Sample ID: 1401V3-08-B01 (0-4)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.6		7.5		SU		1	

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

Client Sample ID: 1401V3-08-B05 (0-3)

Lab Sample ID: 500-225243-1

Date Collected: 11/09/22 10:45

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685341	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
SPLP East	Prep	3010A			685726	LMB	EET CHI	11/17/22 20:00 - 11/17/22 20:30 ¹
SPLP East	Analysis	6010B		1	686571	JJJ	EET CHI	11/22/22 12:48
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6010B		1	686272	JJJ	EET CHI	11/18/22 19:20
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6020A		1	686064	FXG	EET CHI	11/18/22 21:11
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	7470A			685917	MJG	EET CHI	11/18/22 14:55 - 11/18/22 16:55 ¹
TCLP	Analysis	7470A		1	686339	MJG	EET CHI	11/21/22 10:30
Total/NA	Analysis	9045D		1	685546	EH	EET CHI	11/17/22 11:20 - 11/17/22 11:25 ¹
Total/NA	Analysis	Moisture		1	685265	LWN	EET CHI	11/16/22 10:48

Client Sample ID: 1401V3-08-B05 (0-3)

Lab Sample ID: 500-225243-1

Date Collected: 11/09/22 10:45

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 77.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684698	WRE	EET CHI	11/11/22 10:37
Total/NA	Analysis	8260B		1	684930	W1T	EET CHI	11/15/22 19:12
Total/NA	Prep	3541			685797	FRG	EET CHI	11/18/22 08:27 - 11/18/22 15:00 ¹
Total/NA	Analysis	8270D		1	686590	SS	EET CHI	11/22/22 20:40
Total/NA	Prep	3050B			685390	LMB	EET CHI	11/16/22 16:18 - 11/16/22 16:48 ¹
Total/NA	Analysis	6010B		1	686264	JJJ	EET CHI	11/18/22 20:12
Total/NA	Prep	7471B			685449	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 07:14

Client Sample ID: 1401V3-08-B04 (0-1)

Lab Sample ID: 500-225243-2

Date Collected: 11/09/22 10:55

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685341	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
SPLP East	Prep	3010A			685726	LMB	EET CHI	11/17/22 20:00 - 11/17/22 20:30 ¹
SPLP East	Analysis	6010B		1	686571	JJJ	EET CHI	11/22/22 13:05
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6010B		1	686272	JJJ	EET CHI	11/18/22 19:23
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6020A		1	686064	FXG	EET CHI	11/18/22 21:15
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	7470A			685917	MJG	EET CHI	11/18/22 14:55 - 11/18/22 16:55 ¹
TCLP	Analysis	7470A		1	686339	MJG	EET CHI	11/21/22 10:32

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

Client Sample ID: 1401V3-08-B04 (0-1)

Lab Sample ID: 500-225243-2

Date Collected: 11/09/22 10:55

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	685546	EH	EET CHI	11/17/22 11:30 - 11/17/22 11:35 ¹
Total/NA	Analysis	Moisture		1	685265	LWN	EET CHI	11/16/22 10:48

Client Sample ID: 1401V3-08-B04 (0-1)

Lab Sample ID: 500-225243-2

Date Collected: 11/09/22 10:55

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684698	WRE	EET CHI	11/11/22 10:37
Total/NA	Analysis	8260B		1	684930	W1T	EET CHI	11/15/22 19:36
Total/NA	Prep	3541			685797	FRG	EET CHI	11/18/22 08:27 - 11/18/22 15:00 ¹
Total/NA	Analysis	8270D		1	686590	SS	EET CHI	11/22/22 18:21
Total/NA	Prep	3050B			685390	LMB	EET CHI	11/16/22 16:18 - 11/16/22 16:48 ¹
Total/NA	Analysis	6010B		1	686264	JJJ	EET CHI	11/18/22 20:15
Total/NA	Prep	7471B			685449	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 07:16

Client Sample ID: 1401V3-08-B03 (0-4)

Lab Sample ID: 500-225243-3

Date Collected: 11/09/22 11:20

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685341	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
SPLP East	Prep	3010A			685726	LMB	EET CHI	11/17/22 20:00 - 11/17/22 20:30 ¹
SPLP East	Analysis	6010B		1	686571	JJJ	EET CHI	11/22/22 13:08
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6010B		1	686272	JJJ	EET CHI	11/18/22 19:26
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6020A		1	686064	FXG	EET CHI	11/18/22 21:18
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	7470A			685917	MJG	EET CHI	11/18/22 14:55 - 11/18/22 16:55 ¹
TCLP	Analysis	7470A		1	686339	MJG	EET CHI	11/21/22 10:34
Total/NA	Analysis	9045D		1	685546	EH	EET CHI	11/17/22 11:35 - 11/17/22 11:40 ¹
Total/NA	Analysis	Moisture		1	685265	LWN	EET CHI	11/16/22 10:48

Client Sample ID: 1401V3-08-B03 (0-4)

Lab Sample ID: 500-225243-3

Date Collected: 11/09/22 11:20

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 73.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684698	WRE	EET CHI	11/11/22 10:37
Total/NA	Analysis	8260B		1	684930	W1T	EET CHI	11/15/22 20:01

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

Client Sample ID: 1401V3-08-B03 (0-4)

Lab Sample ID: 500-225243-3

Date Collected: 11/09/22 11:20

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 73.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			685797	FRG	EET CHI	11/18/22 08:27 - 11/18/22 15:00 ¹
Total/NA	Analysis	8270D		1	686590	SS	EET CHI	11/22/22 18:44
Total/NA	Prep	3050B			685390	LMB	EET CHI	11/16/22 16:18 - 11/16/22 16:48 ¹
Total/NA	Analysis	6010B		1	686264	JJB	EET CHI	11/18/22 20:18
Total/NA	Prep	7471B			685449	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 07:22

Client Sample ID: 1401V3-08-B02 (0-2)

Lab Sample ID: 500-225243-4

Date Collected: 11/09/22 11:30

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6010B		1	686272	JJB	EET CHI	11/18/22 19:30
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6020A		1	686064	FXG	EET CHI	11/18/22 21:21
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	7470A			685917	MJG	EET CHI	11/18/22 14:55 - 11/18/22 16:55 ¹
TCLP	Analysis	7470A		1	686339	MJG	EET CHI	11/21/22 10:36
Total/NA	Analysis	9045D		1	685546	EH	EET CHI	11/17/22 11:40 - 11/17/22 11:45 ¹
Total/NA	Analysis	Moisture		1	685265	LWN	EET CHI	11/16/22 10:48

Client Sample ID: 1401V3-08-B02 (0-2)

Lab Sample ID: 500-225243-4

Date Collected: 11/09/22 11:30

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684698	WRE	EET CHI	11/11/22 10:37
Total/NA	Analysis	8260B		1	684930	W1T	EET CHI	11/15/22 20:25
Total/NA	Prep	3541			685797	FRG	EET CHI	11/18/22 08:27 - 11/18/22 15:00 ¹
Total/NA	Analysis	8270D		1	686590	SS	EET CHI	11/22/22 21:03
Total/NA	Prep	3050B			685390	LMB	EET CHI	11/16/22 16:18 - 11/16/22 16:48 ¹
Total/NA	Analysis	6010B		1	686264	JJB	EET CHI	11/18/22 20:22
Total/NA	Prep	3050B			685390	LMB	EET CHI	11/16/22 16:18 - 11/16/22 16:48 ¹
Total/NA	Analysis	6010B		5	686466	JJB	EET CHI	11/21/22 13:53
Total/NA	Prep	7471B			685449	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 07:24

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

Client Sample ID: 1401V3-08-B01 (0-4)

Lab Sample ID: 500-225243-5

Date Collected: 11/09/22 11:40

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6010B		1	686272	JJB	EET CHI	11/18/22 19:33
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6020A		1	686064	FXG	EET CHI	11/18/22 21:25
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	7470A			685917	MJG	EET CHI	11/18/22 14:55 - 11/18/22 16:55 ¹
TCLP	Analysis	7470A		1	686339	MJG	EET CHI	11/21/22 10:38
Total/NA	Analysis	9045D		1	685546	EH	EET CHI	11/17/22 11:45 - 11/17/22 11:50 ¹
Total/NA	Analysis	Moisture		1	685265	LWN	EET CHI	11/16/22 10:48

Client Sample ID: 1401V3-08-B01 (0-4)

Lab Sample ID: 500-225243-5

Date Collected: 11/09/22 11:40

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684698	WRE	EET CHI	11/11/22 10:37
Total/NA	Analysis	8260B		1	684930	W1T	EET CHI	11/15/22 20:49
Total/NA	Prep	3541	DL		685797	FRG	EET CHI	11/18/22 08:27 - 11/18/22 15:00 ¹
Total/NA	Analysis	8270D	DL	2	686697	JSB	EET CHI	11/23/22 18:01
Total/NA	Prep	3541			685797	FRG	EET CHI	11/18/22 08:27 - 11/18/22 15:00 ¹
Total/NA	Analysis	8270D		1	686590	SS	EET CHI	11/22/22 19:07
Total/NA	Prep	3050B			685390	LMB	EET CHI	11/16/22 16:18 - 11/16/22 16:48 ¹
Total/NA	Analysis	6010B		1	686264	JJB	EET CHI	11/18/22 20:25
Total/NA	Prep	3050B			685390	LMB	EET CHI	11/16/22 16:18 - 11/16/22 16:48 ¹
Total/NA	Analysis	6010B		5	686466	JJB	EET CHI	11/21/22 13:57
Total/NA	Prep	7471B			685449	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 07:26

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225243-1

Laboratory: Eurofins Chicago

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

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

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225243-1

Login Number: 225243

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.7,4.5,3.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 365 & FAP 870 (Butterfield Road) Office Phone Number, if available: _____

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

22 W 451 Butterfield Road, 22 W 204-318 Hackberry Drive, and 2 S 775 Arboretum Road (ISGS #1401V3-9)

City: Glen Ellyn State: IL Zip Code: 60137

County: DuPage Township: Milton

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

Latitude: 41.83025 Longitude: -88.05969
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 3,176

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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



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

Analytical Data Summary
PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

Key to Data Tables

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

Criteria Qualifiers and Shading

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

CONTAMINANTS OF CONCERN

SITE	ISGS #1401V3-09 (Residences)			Comparison Criteria						
	1401V3-09-B01	1401V3-09-B02	1401V3-09-B03	MACs			TACO			
BORING										
SAMPLE	1401V3-09-B01 (0-6)	1401V3-09-B02 (0-6)	1401V3-09-B03 (0-6)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	
MATRIX	Soil	Soil	Soil							
DEPTH (feet)	0-6	0-6	0-6							
pH	8.4	7.3	8.3							
PID (meter units)	--	--	--							
VOCs (mg/kg)										
2-Butanone (MEK)	ND U	ND U	ND U	--	--	--	--	--	--	
Acetone	0.016 J	ND U	ND U	25	--	--	70,000	100,000	--	
Methylene Chloride	0.0028 J	ND U	ND U	0.02	--	--	13	34	--	
SVOCs (mg/kg)										
Acenaphthene	0.0085 J	0.049	ND U	570	--	0.94	4,700	120,000	--	
Acenaphthylene	ND U	0.032 J	ND U	--	--	0.25	--	--	--	
Anthracene	0.033 J	0.39	ND U	12,000	--	2.6	23,000	610,000	--	
Benzo(a)anthracene	0.15	1.2 †	ND U	0.9	1.8	11	1.8	170	--	
Benzo(a)pyrene	0.14 †	1.2 †	ND UJ	0.09	2.1	11	2.1	17	--	
Benzo(b)fluoranthene	0.19	1.5 †	ND UJ	0.9	2.1	13	2.1	170	--	
Benzo(g,h,i)perylene	0.058	0.43	ND UJ	--	--	4.4	--	--	--	
Benzo(k)fluoranthene	0.066	0.62	ND UJ	9	--	8.1	9	1,700	--	
Carbazole	ND U	0.11 J	ND U	0.6	--	--	32	6,200	--	
Chrysene	0.16	1.3	ND U	88	--	11	88	17,000	--	
Dibenzo(a,h)anthracene	0.019 J	0.14 J †	ND UJ	0.09	0.42	1	0.42	17	--	
Fluoranthene	0.32	2.1	ND U	3,100	--	28	3,100	82,000	--	
Fluorene	ND U	0.084	ND U	560	--	1.1	3,100	82,000	--	
Indeno(1,2,3-cd)pyrene	0.059	0.45	ND UJ	0.9	1.6	5.8	1.6	170	--	
Naphthalene	ND U	0.0077 J	ND U	1.8	--	0.26	170	1.8	--	
Phenanthrene	0.12	1.1	ND U	--	--	15	--	--	--	
Pyrene	0.27	1.9	ND U	2,300	--	18	2,300	61,000	--	
Inorganics (mg/kg)										
Antimony	0.46 J	ND U	0.36 J	5	--	--	31	82	--	
Arsenic	9.6	5.8	10	11.3	13	--	13	61	--	
Barium	49	31	61	1,500	--	--	5,500	14,000	--	
Beryllium	0.81	0.48	0.84	22	--	--	160	410	--	
Boron	10	11	8.5	40	--	--	16,000	41,000	--	
Cadmium	0.26	0.21	0.26	5.2	--	--	78	200	--	
Calcium	57,000	110,000	47,000	--	--	--	--	--	--	
Chromium	14	8.3	16	21	--	--	230	690	--	
Cobalt	11	6.7	11	20	--	--	4,700	12,000	--	
Copper	24	14	25	2,900	--	--	2,900	8,200	--	
Iron	20,000 †m	13,000	21,000 †m	15,000	15,900	--	--	--	--	
Lead	18	26	19	107	--	--	400	700	--	
Magnesium	26,000	69,000	21,000	325,000	--	--	--	730,000	--	
Manganese	360	340	410	630	636	--	1,600	4,100	--	
Mercury	0.040	ND U	0.041	0.89	--	--	10	0.1	--	
Nickel	28	13	27	100	--	--	1,600	4,100	--	
Potassium	2,200	1,300	2,000	--	--	--	--	--	--	
Silver	0.29	0.16 J	0.34	4.4	--	--	390	1,000	--	
Sodium	1,800	150	2,000	--	--	--	--	--	--	
Thallium	0.44 J	ND U	ND U	2.6	--	--	6.3	160	--	
Vanadium	19	13	22	550	--	--	550	1,400	--	
Zinc	68	39	74	5,100	--	--	23,000	61,000	--	
TCLP Metals (mg/L)										
Barium	0.37 J	0.15 J	0.48 J	--	--	--	--	--	2	
Boron	ND U	0.055 J	0.061 J	--	--	--	--	--	2	
Cadmium	ND U	ND U	ND U	--	--	--	--	--	0.005	
Cobalt	ND U	ND U	ND U	--	--	--	--	--	1	
Iron	ND U	ND U	ND U	--	--	--	--	--	5	
Manganese	0.18 L	0.62 L	1.2 L	--	--	--	--	--	0.15	
Nickel	ND U	ND U	ND U	--	--	--	--	--	0.1	
Zinc	ND U	0.026 J	ND U	--	--	--	--	--	5	
SPLP Metals (mg/L)										
Manganese	2.8 L	0.29 L	1.3 L	--	--	--	--	--	0.15	

**PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11
CONTAMINANTS OF CONCERN**

SITE	ISGS #1401V3-09 (Residences)			Comparison Criteria					
	1401V3-09-B04	1401V3-09-B05		MACs			TACO		
BORING	1401V3-09-B04	1401V3-09-B05		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1401V3-09-B04 (0-6)	1401V3-09-B05 (0-6)	1401V3-09-B05 (0-6)D						
MATRIX	Soil	Soil	Soil						
DEPTH (feet)	0-6	0-6	0-6						
pH	8.5	7.4	7.3						
PID (meter units)	--	--							
VOCs (mg/kg)									
2-Butanone (MEK)	ND U	ND U	0.015	--	--	--	--	--	--
Acetone	ND U	0.034	0.089	25	--	--	70,000	100,000	--
Methylene Chloride	ND U	ND U	ND U	0.02	--	--	13	34	--
SVOCs (mg/kg)									
Acenaphthene	ND U	ND U	ND U	570	--	0.94	4,700	120,000	--
Acenaphthylene	ND U	ND U	ND U	--	--	0.25	--	--	--
Anthracene	ND U	ND U	ND U	12,000	--	2.6	23,000	610,000	--
Benzo(a)anthracene	ND U	0.0080 J	0.011 J	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	ND U	ND U	0.017 J	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	ND U	ND U	0.024 J	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	ND U	ND U	0.013 J	--	--	4.4	--	--	--
Benzo(k)fluoranthene	ND U	ND U	0.011 J	9	--	8.1	9	1,700	--
Carbazole	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	ND U	ND U	0.018 J	88	--	11	88	17,000	--
Dibenzo(a,h)anthracene	ND U	ND U	ND U	0.09	0.42	1	0.42	17	--
Fluoranthene	ND U	0.015 J	0.025 J	3,100	--	28	3,100	82,000	--
Fluorene	ND U	ND U	ND U	560	--	1.1	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND U	ND U	0.013 J	0.9	1.6	5.8	1.6	170	--
Naphthalene	ND U	ND U	ND U	1.8	--	0.26	170	1.8	--
Phenanthrene	ND U	0.0074 J	0.0073 J	--	--	15	--	--	--
Pyrene	ND U	0.017 J	0.028 J	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)									
Antimony	0.26 J	0.29 J	0.37 J	5	--	--	31	82	--
Arsenic	8.7	8.9	9.4	11.3	13	--	13	61	--
Barium	41	60	42	1,500	--	--	5,500	14,000	--
Beryllium	0.87	0.86	0.80	22	--	--	160	410	--
Boron	12	11	11	40	--	--	16,000	41,000	--
Cadmium	0.22	0.21	0.25	5.2	--	--	78	200	--
Calcium	51,000	42,000	52,000	--	--	--	--	--	--
Chromium	16	17	16	21	--	--	230	690	--
Cobalt	13	14	12	20	--	--	4,700	12,000	--
Copper	21	23	25	2,900	--	--	2,900	8,200	--
Iron	20,000 †m	20,000 †m	19,000 †m	15,000	15,900	--	--	--	--
Lead	13	19	14 J	107	--	--	400	700	--
Magnesium	21,000	21,000	21,000	325,000	--	--	--	730,000	--
Manganese	370	420	360	630	636	--	1,600	4,100	--
Mercury	0.035	0.088 J	ND U	0.89	--	--	10	0.1	--
Nickel	31	32	29	100	--	--	1,600	4,100	--
Potassium	2,800	2,500	2,500	--	--	--	--	--	--
Silver	0.29	0.28 J	0.30	4.4	--	--	390	1,000	--
Sodium	1,300	740	520	--	--	--	--	--	--
Thallium	0.53 J	ND U	0.47 J	2.6	--	--	6.3	160	--
Vanadium	19	20	18	550	--	--	550	1,400	--
Zinc	64	66	70	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)									
Barium	0.65	0.73	0.64	--	--	--	--	--	2
Boron	0.11 J	0.060 J	0.057 J	--	--	--	--	--	2
Cadmium	0.0029 J	ND U	ND U	--	--	--	--	--	0.005
Cobalt	0.022 J	0.036	0.031	--	--	--	--	--	1
Iron	ND U	0.36 J	ND U	--	--	--	--	--	5
Manganese	3.1 L	9.7 L	6.1 L	--	--	--	--	--	0.15
Nickel	0.025	0.026	0.030	--	--	--	--	--	0.1
Zinc	ND U	0.073 J	0.040 J	--	--	--	--	--	5
SPLP Metals (mg/L)									
Manganese	0.71 L	0.85 L	0.53 L	--	--	--	--	--	0.15

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ANALYTICAL REPORT

PREPARED FOR

Attn: Dean Tiebot
WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602
Generated 11/30/2022 5:27:18 PM

JOB DESCRIPTION

IDOT - 196-002-WO 13 IL 56

JOB NUMBER

500-225244-1

Eurofins Chicago

Job Notes

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

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

Authorization



Generated
11/30/2022 5:27:18 PM

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

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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Job ID: 500-225244-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225244-1

Receipt

The samples were received on 11/10/2022 5:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.8° C, 4.5° C and 5.7° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 500-684698 and analytical batch 500-685181 recovered outside control limits for the following analytes: Trichloroethene, Methylene chloride, Carbon tetrachloride, and 1,1-Dichloroethene. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported. 1401V3-09-B01 (0-6) (500-225244-1), 1401V3-09-B04 (0-6) (500-225244-4), 1401V3-09-B05 (0-6) (500-225244-5) and 1401V3-09-B05 (0-6)D (500-225244-6)

Method 8260B: The laboratory control sample (LCS) for preparation batch 500-684698 and analytical batch 500-684930 recovered outside control limits for the following analytes: 1,1-Dichloroethene and Trichloroethene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. 1401V3-09-B02 (0-6) (500-225244-2) and 1401V3-09-B03 (0-6) (500-225244-3)

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

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-686896 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-686896 was outside the method criteria for the following analyte(s): Di-n-octyl phthalate and Phenol-d5. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The laboratory control sample (LCS) for preparation batch 500-686132 and analytical batch 500-686896 recovered outside control limits for the following analytes: 2,6-Dinitrotoluene, 2-Chlorophenol and Bis(2-chloroethyl)ether. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270D: Perylene-d12 Internal standard (ISTD) response for the following samples was outside of acceptance limits: 1401V3-09-B03 (0-6) (500-225244-3) and 1401V3-09-B05 (0-6)D (500-225244-6). Analytes associated to this internal standard were non-detect and/or below the reporting limit; therefore, re-analysis was not performed.

Method 8270D: The following samples contained one acid surrogate outside acceptance limits: (MB 500-686132/1-A). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method 8270D: The following sample contained one base surrogate outside acceptance limits: 1401V3-09-B02 (0-6) (500-225244-2). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

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

Metals

Method 6010B: The method blank for preparation batch 500-685392 and analytical batch 500-686463 contained Iron above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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

Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Job ID: 500-225244-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

General Chemistry

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

Organic Prep

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

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Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B01 (0-6)

Lab Sample ID: 500-225244-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.016	J	0.019	0.0083	mg/Kg	1	✳	8260B	Total/NA
Methylene Chloride	0.0028	J**	0.0048	0.0019	mg/Kg	1	✳	8260B	Total/NA
Acenaphthene	0.0085	J	0.039	0.0070	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.12		0.039	0.0054	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.033	J	0.039	0.0065	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.32		0.039	0.0072	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.27		0.039	0.0077	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.15		0.039	0.0052	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.16		0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.19		0.039	0.0084	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.066		0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.14		0.039	0.0075	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.059		0.039	0.010	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.019	J	0.039	0.0075	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.058		0.039	0.013	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.46	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	9.6		0.58	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	49	B	0.58	0.066	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.81		0.23	0.054	mg/Kg	1	✳	6010B	Total/NA
Boron	10		2.9	0.27	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.26	B	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	57000	B	58	9.9	mg/Kg	5	✳	6010B	Total/NA
Chromium	14		0.58	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	11		0.29	0.076	mg/Kg	1	✳	6010B	Total/NA
Copper	24	B	0.58	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	20000	B	12	6.1	mg/Kg	1	✳	6010B	Total/NA
Lead	18		0.29	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	26000		5.8	2.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	360	B	0.58	0.085	mg/Kg	1	✳	6010B	Total/NA
Nickel	28		0.58	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	2200		29	10	mg/Kg	1	✳	6010B	Total/NA
Silver	0.29		0.29	0.075	mg/Kg	1	✳	6010B	Total/NA
Sodium	1800		58	8.6	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.44	J	0.58	0.29	mg/Kg	1	✳	6010B	Total/NA
Vanadium	19		0.29	0.069	mg/Kg	1	✳	6010B	Total/NA
Zinc	68		1.2	0.51	mg/Kg	1	✳	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.18		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.8		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.040	B	0.018	0.0061	mg/Kg	1	✳	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-09-B02 (0-6)

Lab Sample ID: 500-225244-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0077	J	0.037	0.0058	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.032	J	0.037	0.0049	mg/Kg	1	✳	8270D	Total/NA
Acenaphthene	0.049		0.037	0.0067	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.084		0.037	0.0053	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	1.1		0.037	0.0052	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.39		0.037	0.0062	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B02 (0-6) (Continued)

Lab Sample ID: 500-225244-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbazole	0.11	J	0.19	0.093	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	2.1		0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1.2		0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Chrysene	1.3		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Pyrene - DL	1.9		0.19	0.037	mg/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	1.5		0.19	0.040	mg/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	0.62		0.19	0.055	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene - DL	1.2		0.19	0.036	mg/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	0.45		0.19	0.048	mg/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene - DL	0.14	J	0.19	0.036	mg/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	0.43		0.19	0.060	mg/Kg	5	☼	8270D	Total/NA
Arsenic	5.8		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	31	B	2.8	0.32	mg/Kg	5	☼	6010B	Total/NA
Beryllium	0.48		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	11		2.8	0.26	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.21	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Calcium	110000	B	56	9.5	mg/Kg	5	☼	6010B	Total/NA
Chromium	8.3		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.7		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	14	B	0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	13000	B	56	29	mg/Kg	5	☼	6010B	Total/NA
Lead	26		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	69000		28	14	mg/Kg	5	☼	6010B	Total/NA
Manganese	340	B	0.56	0.081	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		28	9.9	mg/Kg	1	☼	6010B	Total/NA
Silver	0.16	J	0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Sodium	150		56	8.3	mg/Kg	1	☼	6010B	Total/NA
Vanadium	13		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	39		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Barium	0.15	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.055	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.62		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.026	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.29		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019	B	0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	7.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-09-B03 (0-6)

Lab Sample ID: 500-225244-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.36	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	10		0.57	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	61	B	0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.84		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Boron	8.5		2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.26	B	0.11	0.021	mg/Kg	1	☼	6010B	Total/NA
Calcium	47000	B	57	9.7	mg/Kg	5	☼	6010B	Total/NA
Chromium	16		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	25	B	0.57	0.16	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B03 (0-6) (Continued)

Lab Sample ID: 500-225244-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	21000	B	11	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	410	B	0.57	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		29	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.34		0.29	0.074	mg/Kg	1	☼	6010B	Total/NA
Sodium	2000		57	8.5	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	74		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Barium	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.061	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.041	B	0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-09-B04 (0-6)

Lab Sample ID: 500-225244-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.26	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.7		0.57	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	41	B	0.57	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.87		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Boron	12		2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.22	B	0.11	0.021	mg/Kg	1	☼	6010B	Total/NA
Calcium	51000	B	57	9.7	mg/Kg	5	☼	6010B	Total/NA
Chromium	16		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	21	B	0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	11	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000		5.7	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	370	B	0.57	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		29	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.29		0.29	0.074	mg/Kg	1	☼	6010B	Total/NA
Sodium	1300		57	8.5	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.53	J	0.57	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	64		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Barium	0.65		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.11	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0029	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	3.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.025		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.71		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.035	B	0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B05 (0-6)

Lab Sample ID: 500-225244-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.034		0.023	0.0099	mg/Kg	1	✳	8260B	Total/NA
Phenanthrene	0.0074	J	0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.015	J	0.039	0.0073	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.017	J	0.039	0.0078	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.0080	J	0.039	0.0053	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.29	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	8.9		0.58	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	60	B	0.58	0.066	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.86		0.23	0.054	mg/Kg	1	✳	6010B	Total/NA
Boron	11		2.9	0.27	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.21	B	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	42000	B	23	3.9	mg/Kg	2	✳	6010B	Total/NA
Chromium	17		0.58	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	14		0.29	0.076	mg/Kg	1	✳	6010B	Total/NA
Copper	23	B	0.58	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	20000	B	12	6.0	mg/Kg	1	✳	6010B	Total/NA
Lead	19		0.29	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	21000		5.8	2.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	420	B	0.58	0.084	mg/Kg	1	✳	6010B	Total/NA
Nickel	32		0.58	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	2500		29	10	mg/Kg	1	✳	6010B	Total/NA
Silver	0.28	J	0.29	0.075	mg/Kg	1	✳	6010B	Total/NA
Sodium	740		58	8.6	mg/Kg	1	✳	6010B	Total/NA
Vanadium	20		0.29	0.068	mg/Kg	1	✳	6010B	Total/NA
Zinc	66		1.2	0.51	mg/Kg	1	✳	6010B	Total/NA
Barium	0.73		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.060	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.036		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.36	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	9.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.073	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.85		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.088	B F1 F2	0.018	0.0059	mg/Kg	1	✳	7471B	Total/NA
pH	7.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-09-B05 (0-6)D

Lab Sample ID: 500-225244-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.089		0.020	0.0088	mg/Kg	1	✳	8260B	Total/NA
2-Butanone (MEK)	0.015		0.0051	0.0023	mg/Kg	1	✳	8260B	Total/NA
Phenanthrene	0.0073	J	0.038	0.0053	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.025	J	0.038	0.0071	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.028	J	0.038	0.0076	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.011	J	0.038	0.0051	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.018	J	0.038	0.010	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.024	J*3	0.038	0.0082	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.011	J*3	0.038	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.017	J*3	0.038	0.0074	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.013	J*3	0.038	0.0099	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.013	J*3	0.038	0.012	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B05 (0-6)D (Continued)

Lab Sample ID: 500-225244-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Antimony	0.37	J F1	1.1	0.22	mg/Kg	1		✳	6010B	Total/NA
Arsenic	9.4		0.57	0.19	mg/Kg	1		✳	6010B	Total/NA
Barium	42	B	0.57	0.065	mg/Kg	1		✳	6010B	Total/NA
Beryllium	0.80		0.23	0.053	mg/Kg	1		✳	6010B	Total/NA
Boron	11		2.8	0.27	mg/Kg	1		✳	6010B	Total/NA
Cadmium	0.25	B	0.11	0.021	mg/Kg	1		✳	6010B	Total/NA
Calcium	52000	B	57	9.7	mg/Kg	5		✳	6010B	Total/NA
Chromium	16		0.57	0.28	mg/Kg	1		✳	6010B	Total/NA
Cobalt	12		0.28	0.075	mg/Kg	1		✳	6010B	Total/NA
Copper	25	B	0.57	0.16	mg/Kg	1		✳	6010B	Total/NA
Iron	19000	B	11	5.9	mg/Kg	1		✳	6010B	Total/NA
Lead	14	F1	0.28	0.13	mg/Kg	1		✳	6010B	Total/NA
Magnesium	21000		5.7	2.8	mg/Kg	1		✳	6010B	Total/NA
Manganese	360	B	0.57	0.083	mg/Kg	1		✳	6010B	Total/NA
Nickel	29		0.57	0.17	mg/Kg	1		✳	6010B	Total/NA
Potassium	2500		28	10	mg/Kg	1		✳	6010B	Total/NA
Silver	0.30		0.28	0.073	mg/Kg	1		✳	6010B	Total/NA
Sodium	520		57	8.4	mg/Kg	1		✳	6010B	Total/NA
Thallium	0.47	J	0.57	0.28	mg/Kg	1		✳	6010B	Total/NA
Vanadium	18		0.28	0.067	mg/Kg	1		✳	6010B	Total/NA
Zinc	70		1.1	0.50	mg/Kg	1		✳	6010B	Total/NA
Barium	0.64		0.50	0.050	mg/L	1			6010B	TCLP
Boron	0.057	J	0.50	0.050	mg/L	1			6010B	TCLP
Cobalt	0.031		0.025	0.010	mg/L	1			6010B	TCLP
Manganese	6.1		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.030		0.025	0.010	mg/L	1			6010B	TCLP
Zinc	0.040	J	0.50	0.020	mg/L	1			6010B	TCLP
Manganese	0.53		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.030	B	0.018	0.0061	mg/Kg	1		✳	7471B	Total/NA
pH	7.3		0.2	0.2	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010B	Metals (ICP)	SW846	EET CHI
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225244-1	1401V3-09-B01 (0-6)	Solid	11/10/22 12:20	11/10/22 17:50
500-225244-2	1401V3-09-B02 (0-6)	Solid	11/10/22 12:35	11/10/22 17:50
500-225244-3	1401V3-09-B03 (0-6)	Solid	11/10/22 12:50	11/10/22 17:50
500-225244-4	1401V3-09-B04 (0-6)	Solid	11/10/22 13:00	11/10/22 17:50
500-225244-5	1401V3-09-B05 (0-6)	Solid	11/10/22 13:10	11/10/22 17:50
500-225244-6	1401V3-09-B05 (0-6)D	Solid	11/10/22 13:12	11/10/22 17:50

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B01 (0-6)

Lab Sample ID: 500-225244-1

Date Collected: 11/10/22 12:20

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.016	J	0.019	0.0083	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
Carbon disulfide	<0.0048		0.0048	0.00099	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
Carbon tetrachloride	<0.0019	*+	0.0019	0.00055	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
1,1-Dichloroethene	<0.0019	*+	0.0019	0.00066	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
Methylene Chloride	0.0028	J**	0.0048	0.0019	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
Trichloroethene	<0.0019	*+	0.0019	0.00064	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
Vinyl acetate	<0.0048		0.0048	0.0017	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	11/11/22 10:37	11/16/22 12:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		75 - 131	11/11/22 10:37	11/16/22 12:18	1
Dibromofluoromethane	113		75 - 126	11/11/22 10:37	11/16/22 12:18	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	11/11/22 10:37	11/16/22 12:18	1
Toluene-d8 (Surr)	100		75 - 124	11/11/22 10:37	11/16/22 12:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Bis(2-chloroethyl)ether	<0.20	*+	0.20	0.058	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B01 (0-6)

Lab Sample ID: 500-225244-1

Date Collected: 11/10/22 12:20

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.048	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
2-Chlorophenol	<0.20	+	0.20	0.066	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
2-Methylnaphthalene	<0.078		0.078	0.0072	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
2,6-Dinitrotoluene	<0.20	+	0.20	0.076	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Acenaphthene	0.0085	J	0.039	0.0070	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Phenanthrene	0.12		0.039	0.0054	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Anthracene	0.033	J	0.039	0.0065	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Fluoranthene	0.32		0.039	0.0072	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Pyrene	0.27		0.039	0.0077	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Benzo[a]anthracene	0.15		0.039	0.0052	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B01 (0-6)

Lab Sample ID: 500-225244-1

Date Collected: 11/10/22 12:20

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.16		0.039	0.011	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Benzo[b]fluoranthene	0.19		0.039	0.0084	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Benzo[k]fluoranthene	0.066		0.039	0.011	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Benzo[a]pyrene	0.14		0.039	0.0075	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Indeno[1,2,3-cd]pyrene	0.059		0.039	0.010	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Dibenz(a,h)anthracene	0.019 J		0.039	0.0075	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Benzo[g,h,i]perylene	0.058		0.039	0.013	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	11/20/22 10:56	11/26/22 10:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	141		31 - 166				11/20/22 10:56	11/26/22 10:55	1
Phenol-d5	102		30 - 153				11/20/22 10:56	11/26/22 10:55	1
Nitrobenzene-d5 (Surr)	77		37 - 147				11/20/22 10:56	11/26/22 10:55	1
2-Fluorobiphenyl (Surr)	89		43 - 145				11/20/22 10:56	11/26/22 10:55	1
2,4,6-Tribromophenol	108		31 - 143				11/20/22 10:56	11/26/22 10:55	1
Terphenyl-d14 (Surr)	110		42 - 157				11/20/22 10:56	11/26/22 10:55	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.46 J		1.2	0.23	mg/Kg	☼	11/16/22 16:20	11/21/22 20:42	1
Arsenic	9.6		0.58	0.20	mg/Kg	☼	11/16/22 16:20	11/21/22 20:42	1
Barium	49 B		0.58	0.066	mg/Kg	☼	11/16/22 16:20	11/21/22 20:42	1
Beryllium	0.81		0.23	0.054	mg/Kg	☼	11/16/22 16:20	11/21/22 20:42	1
Boron	10		2.9	0.27	mg/Kg	☼	11/16/22 16:20	11/21/22 20:42	1
Cadmium	0.26 B		0.12	0.021	mg/Kg	☼	11/16/22 16:20	11/21/22 20:42	1
Calcium	57000 B		58	9.9	mg/Kg	☼	11/16/22 16:20	11/22/22 13:18	5
Chromium	14		0.58	0.29	mg/Kg	☼	11/16/22 16:20	11/21/22 20:42	1
Cobalt	11		0.29	0.076	mg/Kg	☼	11/16/22 16:20	11/21/22 20:42	1
Copper	24 B		0.58	0.16	mg/Kg	☼	11/16/22 16:20	11/21/22 20:42	1
Iron	20000 B		12	6.1	mg/Kg	☼	11/16/22 16:20	11/21/22 20:42	1
Lead	18		0.29	0.13	mg/Kg	☼	11/16/22 16:20	11/21/22 20:42	1
Magnesium	26000		5.8	2.9	mg/Kg	☼	11/16/22 16:20	11/21/22 20:42	1
Manganese	360 B		0.58	0.085	mg/Kg	☼	11/16/22 16:20	11/21/22 20:42	1
Nickel	28		0.58	0.17	mg/Kg	☼	11/16/22 16:20	11/21/22 20:42	1
Potassium	2200		29	10	mg/Kg	☼	11/16/22 16:20	11/21/22 20:42	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	11/16/22 16:20	11/21/22 20:42	1
Silver	0.29		0.29	0.075	mg/Kg	☼	11/16/22 16:20	11/21/22 20:42	1
Sodium	1800		58	8.6	mg/Kg	☼	11/16/22 16:20	11/21/22 20:42	1
Thallium	0.44 J		0.58	0.29	mg/Kg	☼	11/16/22 16:20	11/21/22 20:42	1
Vanadium	19		0.29	0.069	mg/Kg	☼	11/16/22 16:20	11/21/22 20:42	1
Zinc	68		1.2	0.51	mg/Kg	☼	11/16/22 16:20	11/21/22 20:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.37 J		0.50	0.050	mg/L		11/17/22 19:46	11/18/22 19:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/17/22 19:46	11/18/22 19:36	1
Boron	<0.50		0.50	0.050	mg/L		11/17/22 19:46	11/18/22 19:36	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B01 (0-6)

Lab Sample ID: 500-225244-1

Date Collected: 11/10/22 12:20

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/17/22 19:46	11/18/22 19:36	1
Chromium	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:36	1
Cobalt	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:36	1
Iron	<0.40		0.40	0.20	mg/L		11/17/22 19:46	11/18/22 19:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 19:46	11/18/22 19:36	1
Manganese	0.18		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:36	1
Nickel	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:36	1
Selenium	<0.050		0.050	0.020	mg/L		11/17/22 19:46	11/18/22 19:36	1
Silver	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:36	1
Zinc	<0.50		0.50	0.020	mg/L		11/17/22 19:46	11/18/22 19:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.8		0.025	0.010	mg/L		11/17/22 20:00	11/22/22 13:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/17/22 19:46	11/18/22 21:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/17/22 19:46	11/18/22 21:28	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/18/22 14:55	11/21/22 10:40	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040	B	0.018	0.0061	mg/Kg	☆	11/17/22 15:25	11/18/22 09:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.4		0.2	0.2	SU			11/17/22 15:49	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B02 (0-6)

Lab Sample ID: 500-225244-2

Date Collected: 11/10/22 12:35

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.052		0.052	0.023	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
Benzene	<0.0052		0.0052	0.0013	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
Bromodichloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
Bromoform	<0.0052		0.0052	0.0015	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
Bromomethane	<0.013		0.013	0.0049	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
2-Butanone (MEK)	<0.013		0.013	0.0058	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
Carbon disulfide	<0.013		0.013	0.0027	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
Carbon tetrachloride	<0.0052		0.0052	0.0015	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
Chlorobenzene	<0.0052		0.0052	0.0019	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
Chloroethane	<0.013		0.013	0.0038	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
Chloroform	<0.0052		0.0052	0.0018	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
Chloromethane	<0.013		0.013	0.0052	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.0015	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.0016	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
Dibromochloromethane	<0.0052		0.0052	0.0017	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
1,1-Dichloroethane	<0.0052		0.0052	0.0018	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
1,2-Dichloroethane	<0.013		0.013	0.0041	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
1,1-Dichloroethene	<0.0052	*+	0.0052	0.0018	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
1,2-Dichloropropane	<0.0052		0.0052	0.0013	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.0018	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
Ethylbenzene	<0.0052		0.0052	0.0025	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
2-Hexanone	<0.013		0.013	0.0041	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
Methylene Chloride	<0.013		0.013	0.0051	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
4-Methyl-2-pentanone (MIBK)	<0.013		0.013	0.0038	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
Methyl tert-butyl ether	<0.0052		0.0052	0.0015	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
Styrene	<0.0052		0.0052	0.0016	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.0017	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
Tetrachloroethene	<0.0052		0.0052	0.0018	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
Toluene	<0.0052		0.0052	0.0013	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.0023	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.0018	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.0017	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.0022	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
Trichloroethene	<0.0052	*+	0.0052	0.0018	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
Vinyl acetate	<0.013		0.013	0.0045	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
Vinyl chloride	<0.0052		0.0052	0.0023	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1
Xylenes, Total	<0.010		0.010	0.0017	mg/Kg	☼	11/11/22 10:37	11/15/22 21:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		75 - 131	11/11/22 10:37	11/15/22 21:37	1
Dibromofluoromethane	110		75 - 126	11/11/22 10:37	11/15/22 21:37	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	11/11/22 10:37	11/15/22 21:37	1
Toluene-d8 (Surr)	102		75 - 124	11/11/22 10:37	11/15/22 21:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
Bis(2-chloroethyl)ether	<0.19	*+	0.19	0.056	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B02 (0-6)

Lab Sample ID: 500-225244-2

Date Collected: 11/10/22 12:35

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
2-Chlorophenol	<0.19	+	0.19	0.064	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
Naphthalene	0.0077	J	0.037	0.0058	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
Hexachlorocyclopentadiene	<0.75		0.75	0.22	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
2-Methylnaphthalene	<0.075		0.075	0.0069	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
2,6-Dinitrotoluene	<0.19	+	0.19	0.074	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
Acenaphthylene	0.032	J	0.037	0.0049	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
Acenaphthene	0.049		0.037	0.0067	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
Fluorene	0.084		0.037	0.0053	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
Phenanthrene	1.1		0.037	0.0052	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
Anthracene	0.39		0.037	0.0062	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
Carbazole	0.11	J	0.19	0.093	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
Fluoranthene	2.1		0.037	0.0069	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
Benzo[a]anthracene	1.2		0.037	0.0050	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
Chrysene	1.3		0.037	0.010	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B02 (0-6)

Lab Sample ID: 500-225244-2

Date Collected: 11/10/22 12:35

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	11/20/22 10:56	11/26/22 11:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	145		31 - 166	11/20/22 10:56	11/26/22 11:18	1
Phenol-d5	127		30 - 153	11/20/22 10:56	11/26/22 11:18	1
Nitrobenzene-d5 (Surr)	87		37 - 147	11/20/22 10:56	11/26/22 11:18	1
2-Fluorobiphenyl (Surr)	99		43 - 145	11/20/22 10:56	11/26/22 11:18	1
2,4,6-Tribromophenol	111		31 - 143	11/20/22 10:56	11/26/22 11:18	1
Terphenyl-d14 (Surr)	170	S1+	42 - 157	11/20/22 10:56	11/26/22 11:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	1.9		0.19	0.037	mg/Kg	☼	11/20/22 10:56	11/28/22 14:53	5
Benzo[b]fluoranthene	1.5		0.19	0.040	mg/Kg	☼	11/20/22 10:56	11/28/22 14:53	5
Benzo[k]fluoranthene	0.62		0.19	0.055	mg/Kg	☼	11/20/22 10:56	11/28/22 14:53	5
Benzo[a]pyrene	1.2		0.19	0.036	mg/Kg	☼	11/20/22 10:56	11/28/22 14:53	5
Indeno[1,2,3-cd]pyrene	0.45		0.19	0.048	mg/Kg	☼	11/20/22 10:56	11/28/22 14:53	5
Dibenz(a,h)anthracene	0.14	J	0.19	0.036	mg/Kg	☼	11/20/22 10:56	11/28/22 14:53	5
Benzo[g,h,i]perylene	0.43		0.19	0.060	mg/Kg	☼	11/20/22 10:56	11/28/22 14:53	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	95		31 - 166	11/20/22 10:56	11/28/22 14:53	5
Phenol-d5	91		30 - 153	11/20/22 10:56	11/28/22 14:53	5
Nitrobenzene-d5 (Surr)	72		37 - 147	11/20/22 10:56	11/28/22 14:53	5
2-Fluorobiphenyl (Surr)	95		43 - 145	11/20/22 10:56	11/28/22 14:53	5
2,4,6-Tribromophenol	130		31 - 143	11/20/22 10:56	11/28/22 14:53	5
Terphenyl-d14 (Surr)	108		42 - 157	11/20/22 10:56	11/28/22 14:53	5

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	11/16/22 16:20	11/21/22 20:46	1
Arsenic	5.8		0.56	0.19	mg/Kg	☼	11/16/22 16:20	11/21/22 20:46	1
Barium	31	B	2.8	0.32	mg/Kg	☼	11/16/22 16:20	11/22/22 13:25	5
Beryllium	0.48		0.22	0.052	mg/Kg	☼	11/16/22 16:20	11/21/22 20:46	1
Boron	11		2.8	0.26	mg/Kg	☼	11/16/22 16:20	11/21/22 20:46	1
Cadmium	0.21	B	0.11	0.020	mg/Kg	☼	11/16/22 16:20	11/21/22 20:46	1
Calcium	110000	B	56	9.5	mg/Kg	☼	11/16/22 16:20	11/22/22 13:25	5
Chromium	8.3		0.56	0.28	mg/Kg	☼	11/16/22 16:20	11/21/22 20:46	1
Cobalt	6.7		0.28	0.073	mg/Kg	☼	11/16/22 16:20	11/21/22 20:46	1
Copper	14	B	0.56	0.16	mg/Kg	☼	11/16/22 16:20	11/21/22 20:46	1
Iron	13000	B	56	29	mg/Kg	☼	11/16/22 16:20	11/22/22 13:25	5
Lead	26		0.28	0.13	mg/Kg	☼	11/16/22 16:20	11/21/22 20:46	1
Magnesium	69000		28	14	mg/Kg	☼	11/16/22 16:20	11/22/22 13:25	5
Manganese	340	B	0.56	0.081	mg/Kg	☼	11/16/22 16:20	11/21/22 20:46	1
Nickel	13		0.56	0.16	mg/Kg	☼	11/16/22 16:20	11/21/22 20:46	1
Potassium	1300		28	9.9	mg/Kg	☼	11/16/22 16:20	11/21/22 20:46	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	11/16/22 16:20	11/21/22 20:46	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B02 (0-6)

Lab Sample ID: 500-225244-2

Date Collected: 11/10/22 12:35

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.16	J	0.28	0.072	mg/Kg	☼	11/16/22 16:20	11/21/22 20:46	1
Sodium	150		56	8.3	mg/Kg	☼	11/16/22 16:20	11/21/22 20:46	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	11/16/22 16:20	11/21/22 20:46	1
Vanadium	13		0.28	0.066	mg/Kg	☼	11/16/22 16:20	11/21/22 20:46	1
Zinc	39		1.1	0.49	mg/Kg	☼	11/16/22 16:20	11/21/22 20:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.15	J	0.50	0.050	mg/L		11/17/22 19:46	11/18/22 19:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/17/22 19:46	11/18/22 19:40	1
Boron	0.055	J	0.50	0.050	mg/L		11/17/22 19:46	11/18/22 19:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/17/22 19:46	11/18/22 19:40	1
Chromium	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:40	1
Cobalt	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:40	1
Iron	<0.40		0.40	0.20	mg/L		11/17/22 19:46	11/18/22 19:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 19:46	11/18/22 19:40	1
Manganese	0.62		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:40	1
Nickel	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:40	1
Selenium	<0.050		0.050	0.020	mg/L		11/17/22 19:46	11/18/22 19:40	1
Silver	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:40	1
Zinc	0.026	J	0.50	0.020	mg/L		11/17/22 19:46	11/18/22 19:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.29		0.025	0.010	mg/L		11/17/22 20:00	11/22/22 13:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/17/22 19:46	11/18/22 21:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/17/22 19:46	11/18/22 21:32	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/18/22 14:55	11/21/22 10:43	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	B	0.018	0.0061	mg/Kg	☼	11/17/22 15:25	11/18/22 09:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.3		0.2	0.2	SU			11/17/22 15:52	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B03 (0-6)

Lab Sample ID: 500-225244-3

Date Collected: 11/10/22 12:50

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0088	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
Bromoform	<0.0020		0.0020	0.00059	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
Chloroform	<0.0020		0.0020	0.00070	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00061	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
Dibromochloromethane	<0.0020		0.0020	0.00066	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
1,1-Dichloroethene	<0.0020	*+	0.0020	0.00069	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00071	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
Styrene	<0.0020		0.0020	0.00061	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00071	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
Trichloroethene	<0.0020	*+	0.0020	0.00068	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg	☼	11/11/22 10:37	11/15/22 22:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		75 - 131	11/11/22 10:37	11/15/22 22:02	1
Dibromofluoromethane	112		75 - 126	11/11/22 10:37	11/15/22 22:02	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	11/11/22 10:37	11/15/22 22:02	1
Toluene-d8 (Surr)	103		75 - 124	11/11/22 10:37	11/15/22 22:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Bis(2-chloroethyl)ether	<0.19	*+	0.19	0.057	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B03 (0-6)

Lab Sample ID: 500-225244-3

Date Collected: 11/10/22 12:50

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
2-Chlorophenol	<0.19	+	0.19	0.064	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
2,6-Dinitrotoluene	<0.19	+	0.19	0.074	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B03 (0-6)

Lab Sample ID: 500-225244-3

Date Collected: 11/10/22 12:50

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Benzo[b]fluoranthene	<0.038	*3	0.038	0.0081	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Benzo[k]fluoranthene	<0.038	*3	0.038	0.011	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Benzo[a]pyrene	<0.038	*3	0.038	0.0073	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Indeno[1,2,3-cd]pyrene	<0.038	*3	0.038	0.0098	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Dibenz(a,h)anthracene	<0.038	*3	0.038	0.0073	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
Benzo[g,h,i]perylene	<0.038	*3	0.038	0.012	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	11/20/22 10:56	11/26/22 11:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	135		31 - 166	11/20/22 10:56	11/26/22 11:41	1
Phenol-d5	123		30 - 153	11/20/22 10:56	11/26/22 11:41	1
Nitrobenzene-d5 (Surr)	81		37 - 147	11/20/22 10:56	11/26/22 11:41	1
2-Fluorobiphenyl (Surr)	92		43 - 145	11/20/22 10:56	11/26/22 11:41	1
2,4,6-Tribromophenol	109		31 - 143	11/20/22 10:56	11/26/22 11:41	1
Terphenyl-d14 (Surr)	132		42 - 157	11/20/22 10:56	11/26/22 11:41	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.36	J	1.1	0.22	mg/Kg	☼	11/16/22 16:20	11/21/22 20:49	1
Arsenic	10		0.57	0.20	mg/Kg	☼	11/16/22 16:20	11/21/22 20:49	1
Barium	61	B	0.57	0.065	mg/Kg	☼	11/16/22 16:20	11/21/22 20:49	1
Beryllium	0.84		0.23	0.053	mg/Kg	☼	11/16/22 16:20	11/21/22 20:49	1
Boron	8.5		2.9	0.27	mg/Kg	☼	11/16/22 16:20	11/21/22 20:49	1
Cadmium	0.26	B	0.11	0.021	mg/Kg	☼	11/16/22 16:20	11/21/22 20:49	1
Calcium	47000	B	57	9.7	mg/Kg	☼	11/16/22 16:20	11/22/22 13:34	5
Chromium	16		0.57	0.28	mg/Kg	☼	11/16/22 16:20	11/21/22 20:49	1
Cobalt	11		0.29	0.075	mg/Kg	☼	11/16/22 16:20	11/21/22 20:49	1
Copper	25	B	0.57	0.16	mg/Kg	☼	11/16/22 16:20	11/21/22 20:49	1
Iron	21000	B	11	6.0	mg/Kg	☼	11/16/22 16:20	11/21/22 20:49	1
Lead	19		0.29	0.13	mg/Kg	☼	11/16/22 16:20	11/21/22 20:49	1
Magnesium	21000		5.7	2.8	mg/Kg	☼	11/16/22 16:20	11/21/22 20:49	1
Manganese	410	B	0.57	0.083	mg/Kg	☼	11/16/22 16:20	11/21/22 20:49	1
Nickel	27		0.57	0.17	mg/Kg	☼	11/16/22 16:20	11/21/22 20:49	1
Potassium	2000		29	10	mg/Kg	☼	11/16/22 16:20	11/21/22 20:49	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	11/16/22 16:20	11/21/22 20:49	1
Silver	0.34		0.29	0.074	mg/Kg	☼	11/16/22 16:20	11/21/22 20:49	1
Sodium	2000		57	8.5	mg/Kg	☼	11/16/22 16:20	11/21/22 20:49	1
Thallium	<0.57		0.57	0.29	mg/Kg	☼	11/16/22 16:20	11/21/22 20:49	1
Vanadium	22		0.29	0.068	mg/Kg	☼	11/16/22 16:20	11/21/22 20:49	1
Zinc	74		1.1	0.50	mg/Kg	☼	11/16/22 16:20	11/21/22 20:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.48	J	0.50	0.050	mg/L		11/17/22 19:46	11/18/22 19:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/17/22 19:46	11/18/22 19:43	1
Boron	0.061	J	0.50	0.050	mg/L		11/17/22 19:46	11/18/22 19:43	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B03 (0-6)

Lab Sample ID: 500-225244-3

Date Collected: 11/10/22 12:50

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/17/22 19:46	11/18/22 19:43	1
Chromium	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:43	1
Cobalt	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:43	1
Iron	<0.40		0.40	0.20	mg/L		11/17/22 19:46	11/18/22 19:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 19:46	11/18/22 19:43	1
Manganese	1.2		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:43	1
Nickel	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:43	1
Selenium	<0.050		0.050	0.020	mg/L		11/17/22 19:46	11/18/22 19:43	1
Silver	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:43	1
Zinc	<0.50		0.50	0.020	mg/L		11/17/22 19:46	11/18/22 19:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.3		0.025	0.010	mg/L		11/17/22 20:00	11/22/22 13:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/17/22 19:46	11/18/22 21:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/17/22 19:46	11/18/22 21:35	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/18/22 14:55	11/21/22 10:45	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041	B	0.018	0.0061	mg/Kg	☆	11/17/22 15:25	11/18/22 09:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.3		0.2	0.2	SU			11/17/22 15:54	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B04 (0-6)

Lab Sample ID: 500-225244-4

Date Collected: 11/10/22 13:00

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022		0.022	0.0095	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
Benzene	<0.0022		0.0022	0.00055	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
Bromodichloromethane	<0.0022		0.0022	0.00044	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
Bromoform	<0.0022		0.0022	0.00063	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
Bromomethane	<0.0054		0.0054	0.0021	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
2-Butanone (MEK)	<0.0054		0.0054	0.0024	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
Carbon disulfide	<0.0054		0.0054	0.0011	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
Carbon tetrachloride	<0.0022	*+	0.0022	0.00063	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
Chlorobenzene	<0.0022		0.0022	0.00080	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
Chloroethane	<0.0054		0.0054	0.0016	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
Chloroform	<0.0022		0.0022	0.00075	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
Chloromethane	<0.0054		0.0054	0.0022	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00061	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00066	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
Dibromochloromethane	<0.0022		0.0022	0.00071	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
1,1-Dichloroethane	<0.0022		0.0022	0.00074	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
1,2-Dichloroethane	<0.0054		0.0054	0.0017	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
1,1-Dichloroethene	<0.0022	*+	0.0022	0.00075	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
1,2-Dichloropropane	<0.0022		0.0022	0.00056	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
1,3-Dichloropropane, Total	<0.0022		0.0022	0.00076	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
Ethylbenzene	<0.0022		0.0022	0.0010	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
2-Hexanone	<0.0054		0.0054	0.0017	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
Methylene Chloride	<0.0054	*+	0.0054	0.0021	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0016	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00064	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
Styrene	<0.0022		0.0022	0.00066	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.00069	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
Tetrachloroethene	<0.0022		0.0022	0.00074	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
Toluene	<0.0022		0.0022	0.00055	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00096	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.00076	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
1,1,1-Trichloroethane	<0.0022		0.0022	0.00073	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00093	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
Trichloroethene	<0.0022	*+	0.0022	0.00073	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
Vinyl acetate	<0.0054		0.0054	0.0019	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
Vinyl chloride	<0.0022		0.0022	0.00096	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1
Xylenes, Total	<0.0043		0.0043	0.00070	mg/Kg	☼	11/11/22 10:37	11/16/22 11:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		75 - 131	11/11/22 10:37	11/16/22 11:05	1
Dibromofluoromethane	110		75 - 126	11/11/22 10:37	11/16/22 11:05	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	11/11/22 10:37	11/16/22 11:05	1
Toluene-d8 (Surr)	100		75 - 124	11/11/22 10:37	11/16/22 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Bis(2-chloroethyl)ether	<0.19	*+	0.19	0.056	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B04 (0-6)

Lab Sample ID: 500-225244-4

Date Collected: 11/10/22 13:00

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
2-Chlorophenol	<0.19	+	0.19	0.064	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
2,6-Dinitrotoluene	<0.19	+	0.19	0.074	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B04 (0-6)

Lab Sample ID: 500-225244-4

Date Collected: 11/10/22 13:00

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	11/20/22 10:56	11/26/22 12:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	163		31 - 166				11/20/22 10:56	11/26/22 12:04	1
Phenol-d5	110		30 - 153				11/20/22 10:56	11/26/22 12:04	1
Nitrobenzene-d5 (Surr)	86		37 - 147				11/20/22 10:56	11/26/22 12:04	1
2-Fluorobiphenyl (Surr)	101		43 - 145				11/20/22 10:56	11/26/22 12:04	1
2,4,6-Tribromophenol	107		31 - 143				11/20/22 10:56	11/26/22 12:04	1
Terphenyl-d14 (Surr)	139		42 - 157				11/20/22 10:56	11/26/22 12:04	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.26	J	1.1	0.22	mg/Kg	☼	11/16/22 16:20	11/21/22 20:52	1
Arsenic	8.7		0.57	0.20	mg/Kg	☼	11/16/22 16:20	11/21/22 20:52	1
Barium	41	B	0.57	0.066	mg/Kg	☼	11/16/22 16:20	11/21/22 20:52	1
Beryllium	0.87		0.23	0.054	mg/Kg	☼	11/16/22 16:20	11/21/22 20:52	1
Boron	12		2.9	0.27	mg/Kg	☼	11/16/22 16:20	11/21/22 20:52	1
Cadmium	0.22	B	0.11	0.021	mg/Kg	☼	11/16/22 16:20	11/21/22 20:52	1
Calcium	51000	B	57	9.7	mg/Kg	☼	11/16/22 16:20	11/22/22 13:37	5
Chromium	16		0.57	0.28	mg/Kg	☼	11/16/22 16:20	11/21/22 20:52	1
Cobalt	13		0.29	0.075	mg/Kg	☼	11/16/22 16:20	11/21/22 20:52	1
Copper	21	B	0.57	0.16	mg/Kg	☼	11/16/22 16:20	11/21/22 20:52	1
Iron	20000	B	11	6.0	mg/Kg	☼	11/16/22 16:20	11/21/22 20:52	1
Lead	13		0.29	0.13	mg/Kg	☼	11/16/22 16:20	11/21/22 20:52	1
Magnesium	21000		5.7	2.9	mg/Kg	☼	11/16/22 16:20	11/21/22 20:52	1
Manganese	370	B	0.57	0.083	mg/Kg	☼	11/16/22 16:20	11/21/22 20:52	1
Nickel	31		0.57	0.17	mg/Kg	☼	11/16/22 16:20	11/21/22 20:52	1
Potassium	2800		29	10	mg/Kg	☼	11/16/22 16:20	11/21/22 20:52	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	11/16/22 16:20	11/21/22 20:52	1
Silver	0.29		0.29	0.074	mg/Kg	☼	11/16/22 16:20	11/21/22 20:52	1
Sodium	1300		57	8.5	mg/Kg	☼	11/16/22 16:20	11/21/22 20:52	1
Thallium	0.53	J	0.57	0.29	mg/Kg	☼	11/16/22 16:20	11/21/22 20:52	1
Vanadium	19		0.29	0.068	mg/Kg	☼	11/16/22 16:20	11/21/22 20:52	1
Zinc	64		1.1	0.50	mg/Kg	☼	11/16/22 16:20	11/21/22 20:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.65		0.50	0.050	mg/L		11/17/22 19:46	11/18/22 20:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/17/22 19:46	11/18/22 20:12	1
Boron	0.11	J	0.50	0.050	mg/L		11/17/22 19:46	11/18/22 20:12	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B04 (0-6)

Lab Sample ID: 500-225244-4

Date Collected: 11/10/22 13:00

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0029	J	0.0050	0.0020	mg/L		11/17/22 19:46	11/18/22 20:12	1
Chromium	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 20:12	1
Cobalt	0.022	J	0.025	0.010	mg/L		11/17/22 19:46	11/18/22 20:12	1
Iron	<0.40		0.40	0.20	mg/L		11/17/22 19:46	11/18/22 20:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 19:46	11/21/22 14:35	1
Manganese	3.1		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 20:12	1
Nickel	0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 20:12	1
Selenium	<0.050		0.050	0.020	mg/L		11/17/22 19:46	11/18/22 20:12	1
Silver	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 20:12	1
Zinc	<0.50		0.50	0.020	mg/L		11/17/22 19:46	11/18/22 20:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.71		0.025	0.010	mg/L		11/17/22 20:00	11/22/22 13:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/17/22 19:46	11/18/22 22:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/17/22 19:46	11/18/22 22:06	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/18/22 14:55	11/21/22 11:04	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035	B	0.019	0.0062	mg/Kg	☼	11/17/22 15:25	11/18/22 09:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.5		0.2	0.2	SU			11/17/22 15:59	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B05 (0-6)

Lab Sample ID: 500-225244-5

Date Collected: 11/10/22 13:10

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.034		0.023	0.0099	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
Benzene	<0.0023		0.0023	0.00058	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
Bromodichloromethane	<0.0023		0.0023	0.00046	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
Bromoform	<0.0023		0.0023	0.00066	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
Bromomethane	<0.0057		0.0057	0.0021	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
2-Butanone (MEK)	<0.0057		0.0057	0.0025	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
Carbon disulfide	<0.0057		0.0057	0.0012	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
Carbon tetrachloride	<0.0023	+	0.0023	0.00066	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
Chlorobenzene	<0.0023		0.0023	0.00084	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
Chloroethane	<0.0057		0.0057	0.0017	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
Chloroform	<0.0023		0.0023	0.00079	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
Chloromethane	<0.0057		0.0057	0.0023	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
cis-1,2-Dichloroethene	<0.0023		0.0023	0.00063	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
cis-1,3-Dichloropropene	<0.0023		0.0023	0.00068	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
Dibromochloromethane	<0.0023		0.0023	0.00074	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
1,1-Dichloroethane	<0.0023		0.0023	0.00078	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
1,2-Dichloroethane	<0.0057		0.0057	0.0018	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
1,1-Dichloroethene	<0.0023	+	0.0023	0.00078	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
1,2-Dichloropropane	<0.0023		0.0023	0.00059	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
1,3-Dichloropropane, Total	<0.0023		0.0023	0.00080	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
Ethylbenzene	<0.0023		0.0023	0.0011	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
2-Hexanone	<0.0057		0.0057	0.0018	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
Methylene Chloride	<0.0057	+	0.0057	0.0022	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
4-Methyl-2-pentanone (MIBK)	<0.0057		0.0057	0.0017	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
Methyl tert-butyl ether	<0.0023		0.0023	0.00067	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
Styrene	<0.0023		0.0023	0.00068	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
1,1,2,2-Tetrachloroethane	<0.0023		0.0023	0.00072	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
Tetrachloroethene	<0.0023		0.0023	0.00077	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
Toluene	<0.0023		0.0023	0.00057	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
trans-1,2-Dichloroethene	<0.0023		0.0023	0.0010	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
trans-1,3-Dichloropropene	<0.0023		0.0023	0.00080	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
1,1,1-Trichloroethane	<0.0023		0.0023	0.00076	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
1,1,2-Trichloroethane	<0.0023		0.0023	0.00097	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
Trichloroethene	<0.0023	+	0.0023	0.00077	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
Vinyl acetate	<0.0057		0.0057	0.0020	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
Vinyl chloride	<0.0023		0.0023	0.0010	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1
Xylenes, Total	<0.0045		0.0045	0.00073	mg/Kg	☼	11/11/22 10:37	11/16/22 11:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		75 - 131	11/11/22 10:37	11/16/22 11:29	1
Dibromofluoromethane	110		75 - 126	11/11/22 10:37	11/16/22 11:29	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	11/11/22 10:37	11/16/22 11:29	1
Toluene-d8 (Surr)	98		75 - 124	11/11/22 10:37	11/16/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Bis(2-chloroethyl)ether	<0.20	+	0.20	0.059	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B05 (0-6)

Lab Sample ID: 500-225244-5

Date Collected: 11/10/22 13:10

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
2-Chlorophenol	<0.20	+	0.20	0.067	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
2,6-Dinitrotoluene	<0.20	+	0.20	0.077	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Phenanthrene	0.0074	J	0.039	0.0055	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Fluoranthene	0.015	J	0.039	0.0073	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Pyrene	0.017	J	0.039	0.0078	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Benzo[a]anthracene	0.0080	J	0.039	0.0053	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B05 (0-6)

Lab Sample ID: 500-225244-5

Date Collected: 11/10/22 13:10

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	11/20/22 10:56	11/26/22 12:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	152		31 - 166	11/20/22 10:56	11/26/22 12:27	1
Phenol-d5	122		30 - 153	11/20/22 10:56	11/26/22 12:27	1
Nitrobenzene-d5 (Surr)	85		37 - 147	11/20/22 10:56	11/26/22 12:27	1
2-Fluorobiphenyl (Surr)	96		43 - 145	11/20/22 10:56	11/26/22 12:27	1
2,4,6-Tribromophenol	107		31 - 143	11/20/22 10:56	11/26/22 12:27	1
Terphenyl-d14 (Surr)	138		42 - 157	11/20/22 10:56	11/26/22 12:27	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.29	J	1.2	0.23	mg/Kg	☼	11/16/22 16:20	11/21/22 20:56	1
Arsenic	8.9		0.58	0.20	mg/Kg	☼	11/16/22 16:20	11/21/22 20:56	1
Barium	60	B	0.58	0.066	mg/Kg	☼	11/16/22 16:20	11/21/22 20:56	1
Beryllium	0.86		0.23	0.054	mg/Kg	☼	11/16/22 16:20	11/21/22 20:56	1
Boron	11		2.9	0.27	mg/Kg	☼	11/16/22 16:20	11/21/22 20:56	1
Cadmium	0.21	B	0.12	0.021	mg/Kg	☼	11/16/22 16:20	11/21/22 20:56	1
Calcium	42000	B	23	3.9	mg/Kg	☼	11/16/22 16:20	11/22/22 13:40	2
Chromium	17		0.58	0.29	mg/Kg	☼	11/16/22 16:20	11/21/22 20:56	1
Cobalt	14		0.29	0.076	mg/Kg	☼	11/16/22 16:20	11/21/22 20:56	1
Copper	23	B	0.58	0.16	mg/Kg	☼	11/16/22 16:20	11/21/22 20:56	1
Iron	20000	B	12	6.0	mg/Kg	☼	11/16/22 16:20	11/21/22 20:56	1
Lead	19		0.29	0.13	mg/Kg	☼	11/16/22 16:20	11/21/22 20:56	1
Magnesium	21000		5.8	2.9	mg/Kg	☼	11/16/22 16:20	11/21/22 20:56	1
Manganese	420	B	0.58	0.084	mg/Kg	☼	11/16/22 16:20	11/21/22 20:56	1
Nickel	32		0.58	0.17	mg/Kg	☼	11/16/22 16:20	11/21/22 20:56	1
Potassium	2500		29	10	mg/Kg	☼	11/16/22 16:20	11/21/22 20:56	1
Selenium	<1.2		1.2	0.68	mg/Kg	☼	11/16/22 16:20	11/22/22 13:40	2
Silver	0.28	J	0.29	0.075	mg/Kg	☼	11/16/22 16:20	11/21/22 20:56	1
Sodium	740		58	8.6	mg/Kg	☼	11/16/22 16:20	11/21/22 20:56	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	11/16/22 16:20	11/21/22 20:56	1
Vanadium	20		0.29	0.068	mg/Kg	☼	11/16/22 16:20	11/21/22 20:56	1
Zinc	66		1.2	0.51	mg/Kg	☼	11/16/22 16:20	11/21/22 20:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.73		0.50	0.050	mg/L		11/17/22 19:46	11/18/22 19:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/17/22 19:46	11/18/22 19:46	1
Boron	0.060	J	0.50	0.050	mg/L		11/17/22 19:46	11/18/22 19:46	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B05 (0-6)

Lab Sample ID: 500-225244-5

Date Collected: 11/10/22 13:10

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/17/22 19:46	11/18/22 19:46	1
Chromium	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:46	1
Cobalt	0.036		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:46	1
Iron	0.36	J	0.40	0.20	mg/L		11/17/22 19:46	11/18/22 19:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 19:46	11/18/22 19:46	1
Manganese	9.7		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:46	1
Nickel	0.026		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:46	1
Selenium	<0.050		0.050	0.020	mg/L		11/17/22 19:46	11/18/22 19:46	1
Silver	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:46	1
Zinc	0.073	J	0.50	0.020	mg/L		11/17/22 19:46	11/18/22 19:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.85		0.025	0.010	mg/L		11/17/22 20:00	11/22/22 13:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/17/22 19:46	11/18/22 21:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/17/22 19:46	11/18/22 21:45	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/18/22 14:55	11/21/22 10:47	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.088	B F1 F2	0.018	0.0059	mg/Kg	☼	11/17/22 15:25	11/18/22 09:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.4		0.2	0.2	SU			11/17/22 16:04	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B05 (0-6)D

Lab Sample ID: 500-225244-6

Date Collected: 11/10/22 13:12

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.089		0.020	0.0088	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
Benzene	<0.0020		0.0020	0.00052	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
Bromoform	<0.0020		0.0020	0.00059	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
2-Butanone (MEK)	0.015		0.0051	0.0023	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
Carbon disulfide	<0.0051		0.0051	0.0011	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
Carbon tetrachloride	<0.0020	*+	0.0020	0.00059	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
Chlorobenzene	<0.0020		0.0020	0.00075	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
Chloroethane	<0.0051		0.0051	0.0015	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
Chloroform	<0.0020		0.0020	0.00070	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
Chloromethane	<0.0051		0.0051	0.0020	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00057	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00061	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
Dibromochloromethane	<0.0020		0.0020	0.00066	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
1,1-Dichloroethene	<0.0020	*+	0.0020	0.00070	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00071	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
Ethylbenzene	<0.0020		0.0020	0.00097	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
Methylene Chloride	<0.0051	*+	0.0051	0.0020	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0015	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
Styrene	<0.0020		0.0020	0.00061	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00065	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
Tetrachloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00090	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00071	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00087	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
Trichloroethene	<0.0020	*+	0.0020	0.00069	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
Vinyl acetate	<0.0051		0.0051	0.0018	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
Vinyl chloride	<0.0020		0.0020	0.00090	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1
Xylenes, Total	<0.0041		0.0041	0.00065	mg/Kg	☼	11/11/22 10:37	11/16/22 11:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		75 - 131	11/11/22 10:37	11/16/22 11:53	1
Dibromofluoromethane	108		75 - 126	11/11/22 10:37	11/16/22 11:53	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	11/11/22 10:37	11/16/22 11:53	1
Toluene-d8 (Surr)	94		75 - 124	11/11/22 10:37	11/16/22 11:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Bis(2-chloroethyl)ether	<0.19	*+	0.19	0.057	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B05 (0-6)D

Lab Sample ID: 500-225244-6

Date Collected: 11/10/22 13:12

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
2-Chlorophenol	<0.19	+	0.19	0.065	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
2,6-Dinitrotoluene	<0.19	+	0.19	0.075	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Phenanthrene	0.0073	J	0.038	0.0053	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Fluoranthene	0.025	J	0.038	0.0071	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Pyrene	0.028	J	0.038	0.0076	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Benzo[a]anthracene	0.011	J	0.038	0.0051	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B05 (0-6)D

Lab Sample ID: 500-225244-6

Date Collected: 11/10/22 13:12

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.018	J	0.038	0.010	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Benzo[b]fluoranthene	0.024	J *3	0.038	0.0082	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Benzo[k]fluoranthene	0.011	J *3	0.038	0.011	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Benzo[a]pyrene	0.017	J *3	0.038	0.0074	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Indeno[1,2,3-cd]pyrene	0.013	J *3	0.038	0.0099	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Dibenz(a,h)anthracene	<0.038	*3	0.038	0.0074	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
Benzo[g,h,i]perylene	0.013	J *3	0.038	0.012	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	11/20/22 10:56	11/26/22 12:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	137		31 - 166	11/20/22 10:56	11/26/22 12:50	1
Phenol-d5	98		30 - 153	11/20/22 10:56	11/26/22 12:50	1
Nitrobenzene-d5 (Surr)	92		37 - 147	11/20/22 10:56	11/26/22 12:50	1
2-Fluorobiphenyl (Surr)	96		43 - 145	11/20/22 10:56	11/26/22 12:50	1
2,4,6-Tribromophenol	97		31 - 143	11/20/22 10:56	11/26/22 12:50	1
Terphenyl-d14 (Surr)	145		42 - 157	11/20/22 10:56	11/26/22 12:50	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J F1	1.1	0.22	mg/Kg	☼	11/16/22 16:20	11/21/22 20:59	1
Arsenic	9.4		0.57	0.19	mg/Kg	☼	11/16/22 16:20	11/21/22 20:59	1
Barium	42	B	0.57	0.065	mg/Kg	☼	11/16/22 16:20	11/21/22 20:59	1
Beryllium	0.80		0.23	0.053	mg/Kg	☼	11/16/22 16:20	11/21/22 20:59	1
Boron	11		2.8	0.27	mg/Kg	☼	11/16/22 16:20	11/21/22 20:59	1
Cadmium	0.25	B	0.11	0.021	mg/Kg	☼	11/16/22 16:20	11/21/22 20:59	1
Calcium	52000	B	57	9.7	mg/Kg	☼	11/16/22 16:20	11/22/22 13:43	5
Chromium	16		0.57	0.28	mg/Kg	☼	11/16/22 16:20	11/21/22 20:59	1
Cobalt	12		0.28	0.075	mg/Kg	☼	11/16/22 16:20	11/21/22 20:59	1
Copper	25	B	0.57	0.16	mg/Kg	☼	11/16/22 16:20	11/21/22 20:59	1
Iron	19000	B	11	5.9	mg/Kg	☼	11/16/22 16:20	11/21/22 20:59	1
Lead	14	F1	0.28	0.13	mg/Kg	☼	11/16/22 16:20	11/21/22 20:59	1
Magnesium	21000		5.7	2.8	mg/Kg	☼	11/16/22 16:20	11/21/22 20:59	1
Manganese	360	B	0.57	0.083	mg/Kg	☼	11/16/22 16:20	11/21/22 20:59	1
Nickel	29		0.57	0.17	mg/Kg	☼	11/16/22 16:20	11/21/22 20:59	1
Potassium	2500		28	10	mg/Kg	☼	11/16/22 16:20	11/21/22 20:59	1
Selenium	<0.57	F1	0.57	0.33	mg/Kg	☼	11/16/22 16:20	11/21/22 20:59	1
Silver	0.30		0.28	0.073	mg/Kg	☼	11/16/22 16:20	11/21/22 20:59	1
Sodium	520		57	8.4	mg/Kg	☼	11/16/22 16:20	11/21/22 20:59	1
Thallium	0.47	J	0.57	0.28	mg/Kg	☼	11/16/22 16:20	11/21/22 20:59	1
Vanadium	18		0.28	0.067	mg/Kg	☼	11/16/22 16:20	11/21/22 20:59	1
Zinc	70		1.1	0.50	mg/Kg	☼	11/16/22 16:20	11/21/22 20:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.64		0.50	0.050	mg/L		11/17/22 19:46	11/18/22 19:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/17/22 19:46	11/18/22 19:50	1
Boron	0.057	J	0.50	0.050	mg/L		11/17/22 19:46	11/18/22 19:50	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B05 (0-6)D

Lab Sample ID: 500-225244-6

Date Collected: 11/10/22 13:12

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/17/22 19:46	11/18/22 19:50	1
Chromium	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:50	1
Cobalt	0.031		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:50	1
Iron	<0.40		0.40	0.20	mg/L		11/17/22 19:46	11/18/22 19:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 19:46	11/18/22 19:50	1
Manganese	6.1		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:50	1
Nickel	0.030		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:50	1
Selenium	<0.050		0.050	0.020	mg/L		11/17/22 19:46	11/18/22 19:50	1
Silver	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:50	1
Zinc	0.040	J	0.50	0.020	mg/L		11/17/22 19:46	11/18/22 19:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.53		0.025	0.010	mg/L		11/17/22 20:00	11/22/22 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/17/22 19:46	11/18/22 21:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/17/22 19:46	11/18/22 21:49	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/18/22 14:55	11/21/22 10:49	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030	B	0.018	0.0061	mg/Kg	☆	11/17/22 15:25	11/18/22 09:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.3		0.2	0.2	SU			11/17/22 16:06	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

GC/MS VOA

Prep Batch: 684698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225244-1	1401V3-09-B01 (0-6)	Total/NA	Solid	5035	
500-225244-2	1401V3-09-B02 (0-6)	Total/NA	Solid	5035	
500-225244-3	1401V3-09-B03 (0-6)	Total/NA	Solid	5035	
500-225244-4	1401V3-09-B04 (0-6)	Total/NA	Solid	5035	
500-225244-5	1401V3-09-B05 (0-6)	Total/NA	Solid	5035	
500-225244-6	1401V3-09-B05 (0-6)D	Total/NA	Solid	5035	

Analysis Batch: 684930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225244-2	1401V3-09-B02 (0-6)	Total/NA	Solid	8260B	684698
500-225244-3	1401V3-09-B03 (0-6)	Total/NA	Solid	8260B	684698
MB 500-684930/11	Method Blank	Total/NA	Solid	8260B	
LCS 500-684930/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-684930/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 685181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225244-1	1401V3-09-B01 (0-6)	Total/NA	Solid	8260B	684698
500-225244-4	1401V3-09-B04 (0-6)	Total/NA	Solid	8260B	684698
500-225244-5	1401V3-09-B05 (0-6)	Total/NA	Solid	8260B	684698
500-225244-6	1401V3-09-B05 (0-6)D	Total/NA	Solid	8260B	684698
MB 500-685181/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-685181/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-685181/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 686132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225244-1	1401V3-09-B01 (0-6)	Total/NA	Solid	3541	
500-225244-2 - DL	1401V3-09-B02 (0-6)	Total/NA	Solid	3541	
500-225244-2	1401V3-09-B02 (0-6)	Total/NA	Solid	3541	
500-225244-3	1401V3-09-B03 (0-6)	Total/NA	Solid	3541	
500-225244-4	1401V3-09-B04 (0-6)	Total/NA	Solid	3541	
500-225244-5	1401V3-09-B05 (0-6)	Total/NA	Solid	3541	
500-225244-6	1401V3-09-B05 (0-6)D	Total/NA	Solid	3541	
MB 500-686132/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-686132/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 686896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225244-1	1401V3-09-B01 (0-6)	Total/NA	Solid	8270D	686132
500-225244-2	1401V3-09-B02 (0-6)	Total/NA	Solid	8270D	686132
500-225244-3	1401V3-09-B03 (0-6)	Total/NA	Solid	8270D	686132
500-225244-4	1401V3-09-B04 (0-6)	Total/NA	Solid	8270D	686132
500-225244-5	1401V3-09-B05 (0-6)	Total/NA	Solid	8270D	686132
500-225244-6	1401V3-09-B05 (0-6)D	Total/NA	Solid	8270D	686132
MB 500-686132/1-A	Method Blank	Total/NA	Solid	8270D	686132
LCS 500-686132/2-A	Lab Control Sample	Total/NA	Solid	8270D	686132

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

GC/MS Semi VOA

Analysis Batch: 686979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225244-2 - DL	1401V3-09-B02 (0-6)	Total/NA	Solid	8270D	686132

Metals

Leach Batch: 685341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225244-1	1401V3-09-B01 (0-6)	SPLP East	Solid	1312	
500-225244-2	1401V3-09-B02 (0-6)	SPLP East	Solid	1312	
500-225244-3	1401V3-09-B03 (0-6)	SPLP East	Solid	1312	
500-225244-4	1401V3-09-B04 (0-6)	SPLP East	Solid	1312	
500-225244-5	1401V3-09-B05 (0-6)	SPLP East	Solid	1312	
500-225244-6	1401V3-09-B05 (0-6)D	SPLP East	Solid	1312	
LB 500-685341/1-B	Method Blank	SPLP East	Solid	1312	
500-225244-2 MS	1401V3-09-B02 (0-6)	SPLP East	Solid	1312	
500-225244-2 DU	1401V3-09-B02 (0-6)	SPLP East	Solid	1312	

Leach Batch: 685351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225244-1	1401V3-09-B01 (0-6)	TCLP	Solid	1311	
500-225244-2	1401V3-09-B02 (0-6)	TCLP	Solid	1311	
500-225244-3	1401V3-09-B03 (0-6)	TCLP	Solid	1311	
500-225244-5	1401V3-09-B05 (0-6)	TCLP	Solid	1311	
500-225244-6	1401V3-09-B05 (0-6)D	TCLP	Solid	1311	
LB 500-685351/1-B	Method Blank	TCLP	Solid	1311	
LB 500-685351/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 685353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225244-4	1401V3-09-B04 (0-6)	TCLP	Solid	1311	
LB2 500-685353/1-B	Method Blank	TCLP	Solid	1311	
LB2 500-685353/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 685392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225244-1	1401V3-09-B01 (0-6)	Total/NA	Solid	3050B	
500-225244-2	1401V3-09-B02 (0-6)	Total/NA	Solid	3050B	
500-225244-3	1401V3-09-B03 (0-6)	Total/NA	Solid	3050B	
500-225244-4	1401V3-09-B04 (0-6)	Total/NA	Solid	3050B	
500-225244-5	1401V3-09-B05 (0-6)	Total/NA	Solid	3050B	
500-225244-6	1401V3-09-B05 (0-6)D	Total/NA	Solid	3050B	
MB 500-685392/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-685392/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-225244-6 MS	1401V3-09-B05 (0-6)D	Total/NA	Solid	3050B	
500-225244-6 MSD	1401V3-09-B05 (0-6)D	Total/NA	Solid	3050B	
500-225244-6 DU	1401V3-09-B05 (0-6)D	Total/NA	Solid	3050B	

Prep Batch: 685493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225244-1	1401V3-09-B01 (0-6)	Total/NA	Solid	7471B	
500-225244-2	1401V3-09-B02 (0-6)	Total/NA	Solid	7471B	
500-225244-3	1401V3-09-B03 (0-6)	Total/NA	Solid	7471B	

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Metals (Continued)

Prep Batch: 685493 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225244-4	1401V3-09-B04 (0-6)	Total/NA	Solid	7471B	
500-225244-5	1401V3-09-B05 (0-6)	Total/NA	Solid	7471B	
500-225244-6	1401V3-09-B05 (0-6)D	Total/NA	Solid	7471B	
MB 500-685493/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-685493/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-225244-5 MS	1401V3-09-B05 (0-6)	Total/NA	Solid	7471B	
500-225244-5 MSD	1401V3-09-B05 (0-6)	Total/NA	Solid	7471B	
500-225244-5 DU	1401V3-09-B05 (0-6)	Total/NA	Solid	7471B	

Prep Batch: 685723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225244-1	1401V3-09-B01 (0-6)	TCLP	Solid	3010A	685351
500-225244-2	1401V3-09-B02 (0-6)	TCLP	Solid	3010A	685351
500-225244-3	1401V3-09-B03 (0-6)	TCLP	Solid	3010A	685351
500-225244-4	1401V3-09-B04 (0-6)	TCLP	Solid	3010A	685353
500-225244-5	1401V3-09-B05 (0-6)	TCLP	Solid	3010A	685351
500-225244-6	1401V3-09-B05 (0-6)D	TCLP	Solid	3010A	685351
LB 500-685351/1-B	Method Blank	TCLP	Solid	3010A	685351
LB2 500-685353/1-B	Method Blank	TCLP	Solid	3010A	685353
LCS 500-685723/23-A	Lab Control Sample	Total/NA	Solid	3010A	
LCS 500-685723/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 685726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225244-1	1401V3-09-B01 (0-6)	SPLP East	Solid	3010A	685341
500-225244-2	1401V3-09-B02 (0-6)	SPLP East	Solid	3010A	685341
500-225244-3	1401V3-09-B03 (0-6)	SPLP East	Solid	3010A	685341
500-225244-4	1401V3-09-B04 (0-6)	SPLP East	Solid	3010A	685341
500-225244-5	1401V3-09-B05 (0-6)	SPLP East	Solid	3010A	685341
500-225244-6	1401V3-09-B05 (0-6)D	SPLP East	Solid	3010A	685341
LB 500-685341/1-B	Method Blank	SPLP East	Solid	3010A	685341
LCS 500-685726/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-225244-2 MS	1401V3-09-B02 (0-6)	SPLP East	Solid	3010A	685341
500-225244-2 DU	1401V3-09-B02 (0-6)	SPLP East	Solid	3010A	685341

Analysis Batch: 685886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225244-1	1401V3-09-B01 (0-6)	Total/NA	Solid	7471B	685493
500-225244-2	1401V3-09-B02 (0-6)	Total/NA	Solid	7471B	685493
500-225244-3	1401V3-09-B03 (0-6)	Total/NA	Solid	7471B	685493
500-225244-4	1401V3-09-B04 (0-6)	Total/NA	Solid	7471B	685493
500-225244-5	1401V3-09-B05 (0-6)	Total/NA	Solid	7471B	685493
500-225244-6	1401V3-09-B05 (0-6)D	Total/NA	Solid	7471B	685493
MB 500-685493/12-A	Method Blank	Total/NA	Solid	7471B	685493
LCS 500-685493/13-A	Lab Control Sample	Total/NA	Solid	7471B	685493
500-225244-5 MS	1401V3-09-B05 (0-6)	Total/NA	Solid	7471B	685493
500-225244-5 MSD	1401V3-09-B05 (0-6)	Total/NA	Solid	7471B	685493
500-225244-5 DU	1401V3-09-B05 (0-6)	Total/NA	Solid	7471B	685493

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Metals

Prep Batch: 685917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225244-1	1401V3-09-B01 (0-6)	TCLP	Solid	7470A	685351
500-225244-2	1401V3-09-B02 (0-6)	TCLP	Solid	7470A	685351
500-225244-3	1401V3-09-B03 (0-6)	TCLP	Solid	7470A	685351
500-225244-4	1401V3-09-B04 (0-6)	TCLP	Solid	7470A	685353
500-225244-5	1401V3-09-B05 (0-6)	TCLP	Solid	7470A	685351
500-225244-6	1401V3-09-B05 (0-6)D	TCLP	Solid	7470A	685351
LB 500-685351/1-C	Method Blank	TCLP	Solid	7470A	685351
LB2 500-685353/1-C	Method Blank	TCLP	Solid	7470A	685353
MB 500-685917/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-685917/14-A	Lab Control Sample	Total/NA	Solid	7470A	
LCS 500-685917/35-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 686064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225244-1	1401V3-09-B01 (0-6)	TCLP	Solid	6020A	685723
500-225244-2	1401V3-09-B02 (0-6)	TCLP	Solid	6020A	685723
500-225244-3	1401V3-09-B03 (0-6)	TCLP	Solid	6020A	685723
500-225244-4	1401V3-09-B04 (0-6)	TCLP	Solid	6020A	685723
500-225244-5	1401V3-09-B05 (0-6)	TCLP	Solid	6020A	685723
500-225244-6	1401V3-09-B05 (0-6)D	TCLP	Solid	6020A	685723
LB 500-685351/1-B	Method Blank	TCLP	Solid	6020A	685723
LB2 500-685353/1-B	Method Blank	TCLP	Solid	6020A	685723
LCS 500-685723/23-A	Lab Control Sample	Total/NA	Solid	6020A	685723
LCS 500-685723/2-A	Lab Control Sample	Total/NA	Solid	6020A	685723

Analysis Batch: 686272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225244-1	1401V3-09-B01 (0-6)	TCLP	Solid	6010B	685723
500-225244-2	1401V3-09-B02 (0-6)	TCLP	Solid	6010B	685723
500-225244-3	1401V3-09-B03 (0-6)	TCLP	Solid	6010B	685723
500-225244-4	1401V3-09-B04 (0-6)	TCLP	Solid	6010B	685723
500-225244-5	1401V3-09-B05 (0-6)	TCLP	Solid	6010B	685723
500-225244-6	1401V3-09-B05 (0-6)D	TCLP	Solid	6010B	685723
LB 500-685351/1-B	Method Blank	TCLP	Solid	6010B	685723
LB2 500-685353/1-B	Method Blank	TCLP	Solid	6010B	685723
LCS 500-685723/23-A	Lab Control Sample	Total/NA	Solid	6010B	685723
LCS 500-685723/2-A	Lab Control Sample	Total/NA	Solid	6010B	685723

Analysis Batch: 686339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225244-1	1401V3-09-B01 (0-6)	TCLP	Solid	7470A	685917
500-225244-2	1401V3-09-B02 (0-6)	TCLP	Solid	7470A	685917
500-225244-3	1401V3-09-B03 (0-6)	TCLP	Solid	7470A	685917
500-225244-4	1401V3-09-B04 (0-6)	TCLP	Solid	7470A	685917
500-225244-5	1401V3-09-B05 (0-6)	TCLP	Solid	7470A	685917
500-225244-6	1401V3-09-B05 (0-6)D	TCLP	Solid	7470A	685917
LB 500-685351/1-C	Method Blank	TCLP	Solid	7470A	685917
LB2 500-685353/1-C	Method Blank	TCLP	Solid	7470A	685917
MB 500-685917/12-A	Method Blank	Total/NA	Solid	7470A	685917
LCS 500-685917/14-A	Lab Control Sample	Total/NA	Solid	7470A	685917
LCS 500-685917/35-A	Lab Control Sample	Total/NA	Solid	7470A	685917

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Metals

Analysis Batch: 686462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225244-4	1401V3-09-B04 (0-6)	TCLP	Solid	6010B	685723

Analysis Batch: 686463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225244-1	1401V3-09-B01 (0-6)	Total/NA	Solid	6010B	685392
500-225244-2	1401V3-09-B02 (0-6)	Total/NA	Solid	6010B	685392
500-225244-3	1401V3-09-B03 (0-6)	Total/NA	Solid	6010B	685392
500-225244-4	1401V3-09-B04 (0-6)	Total/NA	Solid	6010B	685392
500-225244-5	1401V3-09-B05 (0-6)	Total/NA	Solid	6010B	685392
500-225244-6	1401V3-09-B05 (0-6)D	Total/NA	Solid	6010B	685392
MB 500-685392/1-A	Method Blank	Total/NA	Solid	6010B	685392
LCS 500-685392/2-A	Lab Control Sample	Total/NA	Solid	6010B	685392
500-225244-6 MS	1401V3-09-B05 (0-6)D	Total/NA	Solid	6010B	685392
500-225244-6 MSD	1401V3-09-B05 (0-6)D	Total/NA	Solid	6010B	685392
500-225244-6 DU	1401V3-09-B05 (0-6)D	Total/NA	Solid	6010B	685392

Analysis Batch: 686571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225244-1	1401V3-09-B01 (0-6)	SPLP East	Solid	6010B	685726
500-225244-2	1401V3-09-B02 (0-6)	SPLP East	Solid	6010B	685726
500-225244-3	1401V3-09-B03 (0-6)	SPLP East	Solid	6010B	685726
500-225244-4	1401V3-09-B04 (0-6)	SPLP East	Solid	6010B	685726
500-225244-5	1401V3-09-B05 (0-6)	SPLP East	Solid	6010B	685726
500-225244-6	1401V3-09-B05 (0-6)D	SPLP East	Solid	6010B	685726
LB 500-685341/1-B	Method Blank	SPLP East	Solid	6010B	685726
LCS 500-685726/2-A	Lab Control Sample	Total/NA	Solid	6010B	685726
500-225244-2 MS	1401V3-09-B02 (0-6)	SPLP East	Solid	6010B	685726
500-225244-2 DU	1401V3-09-B02 (0-6)	SPLP East	Solid	6010B	685726

Analysis Batch: 686710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225244-1	1401V3-09-B01 (0-6)	Total/NA	Solid	6010B	685392
500-225244-2	1401V3-09-B02 (0-6)	Total/NA	Solid	6010B	685392
500-225244-3	1401V3-09-B03 (0-6)	Total/NA	Solid	6010B	685392
500-225244-4	1401V3-09-B04 (0-6)	Total/NA	Solid	6010B	685392
500-225244-5	1401V3-09-B05 (0-6)	Total/NA	Solid	6010B	685392
500-225244-6	1401V3-09-B05 (0-6)D	Total/NA	Solid	6010B	685392
500-225244-6 MS	1401V3-09-B05 (0-6)D	Total/NA	Solid	6010B	685392
500-225244-6 MSD	1401V3-09-B05 (0-6)D	Total/NA	Solid	6010B	685392
500-225244-6 DU	1401V3-09-B05 (0-6)D	Total/NA	Solid	6010B	685392

General Chemistry

Analysis Batch: 685301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225244-1	1401V3-09-B01 (0-6)	Total/NA	Solid	Moisture	
500-225244-2	1401V3-09-B02 (0-6)	Total/NA	Solid	Moisture	
500-225244-3	1401V3-09-B03 (0-6)	Total/NA	Solid	Moisture	
500-225244-4	1401V3-09-B04 (0-6)	Total/NA	Solid	Moisture	
500-225244-5	1401V3-09-B05 (0-6)	Total/NA	Solid	Moisture	
500-225244-6	1401V3-09-B05 (0-6)D	Total/NA	Solid	Moisture	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

General Chemistry

Analysis Batch: 685788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225244-1	1401V3-09-B01 (0-6)	Total/NA	Solid	9045D	
500-225244-2	1401V3-09-B02 (0-6)	Total/NA	Solid	9045D	
500-225244-3	1401V3-09-B03 (0-6)	Total/NA	Solid	9045D	
500-225244-4	1401V3-09-B04 (0-6)	Total/NA	Solid	9045D	
500-225244-5	1401V3-09-B05 (0-6)	Total/NA	Solid	9045D	
500-225244-6	1401V3-09-B05 (0-6)D	Total/NA	Solid	9045D	
LCS 500-685788/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-685788/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-225244-4 DU	1401V3-09-B04 (0-6)	Total/NA	Solid	9045D	

Surrogate Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(75-131)	(75-126)	(70-134)	(75-124)
500-225244-1	1401V3-09-B01 (0-6)	112	113	109	100
500-225244-2	1401V3-09-B02 (0-6)	105	110	104	102
500-225244-3	1401V3-09-B03 (0-6)	101	112	107	103
500-225244-4	1401V3-09-B04 (0-6)	111	110	113	100
500-225244-5	1401V3-09-B05 (0-6)	108	110	110	98
500-225244-6	1401V3-09-B05 (0-6)D	105	108	105	94
LCS 500-684930/4	Lab Control Sample	113	101	97	105
LCS 500-685181/3	Lab Control Sample	111	103	100	100
LCSD 500-684930/5	Lab Control Sample Dup	111	103	101	103
LCSD 500-685181/4	Lab Control Sample Dup	110	104	103	100
MB 500-684930/11	Method Blank	106	107	102	99
MB 500-685181/6	Method Blank	102	105	104	97

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP	PHL	NBZ	FBP	TBP	TPHL
		(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-225244-1	1401V3-09-B01 (0-6)	141	102	77	89	108	110
500-225244-2	1401V3-09-B02 (0-6)	145	127	87	99	111	170 S1+
500-225244-2 - DL	1401V3-09-B02 (0-6)	95	91	72	95	130	108
500-225244-3	1401V3-09-B03 (0-6)	135	123	81	92	109	132
500-225244-4	1401V3-09-B04 (0-6)	163	110	86	101	107	139
500-225244-5	1401V3-09-B05 (0-6)	152	122	85	96	107	138
500-225244-6	1401V3-09-B05 (0-6)D	137	98	92	96	97	145
LCS 500-686132/2-A	Lab Control Sample	146	127	101	109	115	108
MB 500-686132/1-A	Method Blank	169 S1+	119	89	111	119	119

Surrogate Legend

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

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

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

Lab Sample ID: MB 500-684930/11
Matrix: Solid
Analysis Batch: 684930

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			11/15/22 15:07	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			11/15/22 15:07	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			11/15/22 15:07	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			11/15/22 15:07	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			11/15/22 15:07	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			11/15/22 15:07	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			11/15/22 15:07	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			11/15/22 15:07	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			11/15/22 15:07	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			11/15/22 15:07	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			11/15/22 15:07	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			11/15/22 15:07	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			11/15/22 15:07	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			11/15/22 15:07	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			11/15/22 15:07	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			11/15/22 15:07	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			11/15/22 15:07	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			11/15/22 15:07	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			11/15/22 15:07	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			11/15/22 15:07	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			11/15/22 15:07	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			11/15/22 15:07	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			11/15/22 15:07	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			11/15/22 15:07	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			11/15/22 15:07	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			11/15/22 15:07	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			11/15/22 15:07	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/15/22 15:07	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			11/15/22 15:07	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			11/15/22 15:07	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			11/15/22 15:07	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			11/15/22 15:07	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			11/15/22 15:07	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/15/22 15:07	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			11/15/22 15:07	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			11/15/22 15:07	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			11/15/22 15:07	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	106		75 - 131		11/15/22 15:07	1
Dibromofluoromethane	107		75 - 126		11/15/22 15:07	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		11/15/22 15:07	1
Toluene-d8 (Surr)	99		75 - 124		11/15/22 15:07	1

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

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

Lab Sample ID: LCS 500-684930/4
Matrix: Solid
Analysis Batch: 684930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0400	0.0280		mg/Kg		70	40 - 150
Benzene	0.0400	0.0430		mg/Kg		107	70 - 125
Bromodichloromethane	0.0400	0.0434		mg/Kg		108	67 - 129
Bromoform	0.0400	0.0420		mg/Kg		105	68 - 136
Bromomethane	0.0400	0.0458		mg/Kg		114	70 - 130
2-Butanone (MEK)	0.0400	0.0265		mg/Kg		66	47 - 138
Carbon disulfide	0.0400	0.0435		mg/Kg		109	70 - 129
Carbon tetrachloride	0.0400	0.0453		mg/Kg		113	75 - 125
Chlorobenzene	0.0400	0.0463		mg/Kg		116	50 - 150
Chloroethane	0.0400	0.0473		mg/Kg		118	75 - 125
Chloroform	0.0400	0.0416		mg/Kg		104	57 - 135
Chloromethane	0.0400	0.0411		mg/Kg		103	70 - 125
cis-1,2-Dichloroethene	0.0400	0.0432		mg/Kg		108	70 - 125
cis-1,3-Dichloropropene	0.0400	0.0433		mg/Kg		108	70 - 125
Dibromochloromethane	0.0400	0.0436		mg/Kg		109	69 - 125
1,1-Dichloroethane	0.0400	0.0423		mg/Kg		106	70 - 125
1,2-Dichloroethane	0.0400	0.0433		mg/Kg		108	70 - 130
1,1-Dichloroethene	0.0400	0.0482	*+	mg/Kg		121	70 - 120
1,2-Dichloropropane	0.0400	0.0407		mg/Kg		102	70 - 125
Ethylbenzene	0.0400	0.0425		mg/Kg		106	61 - 136
2-Hexanone	0.0400	0.0318		mg/Kg		79	48 - 146
Methylene Chloride	0.0400	0.0421		mg/Kg		105	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0400	0.0280		mg/Kg		70	50 - 148
Methyl tert-butyl ether	0.0400	0.0380		mg/Kg		95	50 - 140
Styrene	0.0400	0.0430		mg/Kg		108	70 - 125
1,1,2,2-Tetrachloroethane	0.0400	0.0406		mg/Kg		102	70 - 122
Tetrachloroethene	0.0400	0.0471		mg/Kg		118	70 - 124
Toluene	0.0400	0.0417		mg/Kg		104	70 - 125
trans-1,2-Dichloroethene	0.0400	0.0474		mg/Kg		118	70 - 125
trans-1,3-Dichloropropene	0.0400	0.0451		mg/Kg		113	70 - 125
1,1,1-Trichloroethane	0.0400	0.0424		mg/Kg		106	70 - 128
1,1,2-Trichloroethane	0.0400	0.0432		mg/Kg		108	70 - 125
Trichloroethene	0.0400	0.0507	*+	mg/Kg		127	70 - 125
Vinyl acetate	0.0400	0.0295		mg/Kg		74	40 - 153
Vinyl chloride	0.0400	0.0458		mg/Kg		115	70 - 125
Xylenes, Total	0.0800	0.0783		mg/Kg		98	53 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		75 - 131
Dibromofluoromethane	101		75 - 126
1,2-Dichloroethane-d4 (Surr)	97		70 - 134
Toluene-d8 (Surr)	105		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

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

Lab Sample ID: LCSD 500-684930/5
Matrix: Solid
Analysis Batch: 684930

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.0400	0.0363		mg/Kg		91	40 - 150	26	30
Benzene	0.0400	0.0417		mg/Kg		104	70 - 125	3	30
Bromodichloromethane	0.0400	0.0426		mg/Kg		106	67 - 129	2	30
Bromoform	0.0400	0.0426		mg/Kg		107	68 - 136	1	30
Bromomethane	0.0400	0.0387		mg/Kg		97	70 - 130	17	30
2-Butanone (MEK)	0.0400	0.0313		mg/Kg		78	47 - 138	17	30
Carbon disulfide	0.0400	0.0419		mg/Kg		105	70 - 129	4	30
Carbon tetrachloride	0.0400	0.0427		mg/Kg		107	75 - 125	6	30
Chlorobenzene	0.0400	0.0441		mg/Kg		110	50 - 150	5	30
Chloroethane	0.0400	0.0402		mg/Kg		100	75 - 125	16	30
Chloroform	0.0400	0.0403		mg/Kg		101	57 - 135	3	30
Chloromethane	0.0400	0.0338		mg/Kg		85	70 - 125	19	30
cis-1,2-Dichloroethene	0.0400	0.0421		mg/Kg		105	70 - 125	2	30
cis-1,3-Dichloropropene	0.0400	0.0428		mg/Kg		107	70 - 125	1	30
Dibromochloromethane	0.0400	0.0426		mg/Kg		106	69 - 125	2	30
1,1-Dichloroethane	0.0400	0.0409		mg/Kg		102	70 - 125	3	30
1,2-Dichloroethane	0.0400	0.0430		mg/Kg		107	70 - 130	1	30
1,1-Dichloroethene	0.0400	0.0451		mg/Kg		113	70 - 120	7	30
1,2-Dichloropropane	0.0400	0.0390		mg/Kg		98	70 - 125	4	30
Ethylbenzene	0.0400	0.0403		mg/Kg		101	61 - 136	5	30
2-Hexanone	0.0400	0.0328		mg/Kg		82	48 - 146	3	30
Methylene Chloride	0.0400	0.0409		mg/Kg		102	70 - 126	3	30
4-Methyl-2-pentanone (MIBK)	0.0400	0.0289		mg/Kg		72	50 - 148	3	30
Methyl tert-butyl ether	0.0400	0.0371		mg/Kg		93	50 - 140	2	30
Styrene	0.0400	0.0421		mg/Kg		105	70 - 125	2	30
1,1,2,2-Tetrachloroethane	0.0400	0.0391		mg/Kg		98	70 - 122	4	30
Tetrachloroethene	0.0400	0.0446		mg/Kg		112	70 - 124	5	30
Toluene	0.0400	0.0394		mg/Kg		99	70 - 125	6	30
trans-1,2-Dichloroethene	0.0400	0.0454		mg/Kg		114	70 - 125	4	30
trans-1,3-Dichloropropene	0.0400	0.0447		mg/Kg		112	70 - 125	1	30
1,1,1-Trichloroethane	0.0400	0.0402		mg/Kg		100	70 - 128	5	30
1,1,2-Trichloroethane	0.0400	0.0419		mg/Kg		105	70 - 125	3	30
Trichloroethene	0.0400	0.0487		mg/Kg		122	70 - 125	4	30
Vinyl acetate	0.0400	0.0303		mg/Kg		76	40 - 153	3	30
Vinyl chloride	0.0400	0.0384		mg/Kg		96	70 - 125	18	30
Xylenes, Total	0.0800	0.0750		mg/Kg		94	53 - 147	4	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	111		75 - 131
Dibromofluoromethane	103		75 - 126
1,2-Dichloroethane-d4 (Surr)	101		70 - 134
Toluene-d8 (Surr)	103		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

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

Lab Sample ID: MB 500-685181/6
Matrix: Solid
Analysis Batch: 685181

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			11/16/22 10:40	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			11/16/22 10:40	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			11/16/22 10:40	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			11/16/22 10:40	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			11/16/22 10:40	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			11/16/22 10:40	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			11/16/22 10:40	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			11/16/22 10:40	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			11/16/22 10:40	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			11/16/22 10:40	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			11/16/22 10:40	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			11/16/22 10:40	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			11/16/22 10:40	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			11/16/22 10:40	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			11/16/22 10:40	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			11/16/22 10:40	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			11/16/22 10:40	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			11/16/22 10:40	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			11/16/22 10:40	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			11/16/22 10:40	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			11/16/22 10:40	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			11/16/22 10:40	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			11/16/22 10:40	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			11/16/22 10:40	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			11/16/22 10:40	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			11/16/22 10:40	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			11/16/22 10:40	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/16/22 10:40	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			11/16/22 10:40	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			11/16/22 10:40	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			11/16/22 10:40	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			11/16/22 10:40	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			11/16/22 10:40	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/16/22 10:40	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			11/16/22 10:40	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			11/16/22 10:40	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			11/16/22 10:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		75 - 131		11/16/22 10:40	1
Dibromofluoromethane	105		75 - 126		11/16/22 10:40	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134		11/16/22 10:40	1
Toluene-d8 (Surr)	97		75 - 124		11/16/22 10:40	1

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

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

Lab Sample ID: LCS 500-685181/3
Matrix: Solid
Analysis Batch: 685181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0400	0.0335		mg/Kg		84	40 - 150
Benzene	0.0400	0.0439		mg/Kg		110	70 - 125
Bromodichloromethane	0.0400	0.0465		mg/Kg		116	67 - 129
Bromoform	0.0400	0.0470		mg/Kg		118	68 - 136
Bromomethane	0.0400	0.0510		mg/Kg		128	70 - 130
2-Butanone (MEK)	0.0400	0.0349		mg/Kg		87	47 - 138
Carbon disulfide	0.0400	0.0459		mg/Kg		115	70 - 129
Carbon tetrachloride	0.0400	0.0478		mg/Kg		120	75 - 125
Chlorobenzene	0.0400	0.0462		mg/Kg		115	50 - 150
Chloroethane	0.0400	0.0493		mg/Kg		123	75 - 125
Chloroform	0.0400	0.0420		mg/Kg		105	57 - 135
Chloromethane	0.0400	0.0437		mg/Kg		109	70 - 125
cis-1,2-Dichloroethene	0.0400	0.0444		mg/Kg		111	70 - 125
cis-1,3-Dichloropropene	0.0400	0.0419		mg/Kg		105	70 - 125
Dibromochloromethane	0.0400	0.0445		mg/Kg		111	69 - 125
1,1-Dichloroethane	0.0400	0.0429		mg/Kg		107	70 - 125
1,2-Dichloroethane	0.0400	0.0464		mg/Kg		116	70 - 130
1,1-Dichloroethene	0.0400	0.0484	*+	mg/Kg		121	70 - 120
1,2-Dichloropropane	0.0400	0.0443		mg/Kg		111	70 - 125
Ethylbenzene	0.0400	0.0432		mg/Kg		108	61 - 136
2-Hexanone	0.0400	0.0393		mg/Kg		98	48 - 146
Methylene Chloride	0.0400	0.0503		mg/Kg		126	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0400	0.0332		mg/Kg		83	50 - 148
Methyl tert-butyl ether	0.0400	0.0425		mg/Kg		106	50 - 140
Styrene	0.0400	0.0454		mg/Kg		114	70 - 125
1,1,2,2-Tetrachloroethane	0.0400	0.0408		mg/Kg		102	70 - 122
Tetrachloroethene	0.0400	0.0447		mg/Kg		112	70 - 124
Toluene	0.0400	0.0411		mg/Kg		103	70 - 125
trans-1,2-Dichloroethene	0.0400	0.0462		mg/Kg		116	70 - 125
trans-1,3-Dichloropropene	0.0400	0.0452		mg/Kg		113	70 - 125
1,1,1-Trichloroethane	0.0400	0.0447		mg/Kg		112	70 - 128
1,1,2-Trichloroethane	0.0400	0.0433		mg/Kg		108	70 - 125
Trichloroethene	0.0400	0.0500		mg/Kg		125	70 - 125
Vinyl acetate	0.0400	0.0306		mg/Kg		76	40 - 153
Vinyl chloride	0.0400	0.0502		mg/Kg		125	70 - 125
Xylenes, Total	0.0800	0.0793		mg/Kg		99	53 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		75 - 131
Dibromofluoromethane	103		75 - 126
1,2-Dichloroethane-d4 (Surr)	100		70 - 134
Toluene-d8 (Surr)	100		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

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

Lab Sample ID: LCSD 500-685181/4
Matrix: Solid
Analysis Batch: 685181

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.0400	0.0319		mg/Kg		80	40 - 150	5	30
Benzene	0.0400	0.0457		mg/Kg		114	70 - 125	4	30
Bromodichloromethane	0.0400	0.0484		mg/Kg		121	67 - 129	4	30
Bromoform	0.0400	0.0511		mg/Kg		128	68 - 136	8	30
Bromomethane	0.0400	0.0498		mg/Kg		124	70 - 130	3	30
2-Butanone (MEK)	0.0400	0.0361		mg/Kg		90	47 - 138	3	30
Carbon disulfide	0.0400	0.0484		mg/Kg		121	70 - 129	5	30
Carbon tetrachloride	0.0400	0.0517	*+	mg/Kg		129	75 - 125	8	30
Chlorobenzene	0.0400	0.0478		mg/Kg		120	50 - 150	3	30
Chloroethane	0.0400	0.0486		mg/Kg		121	75 - 125	1	30
Chloroform	0.0400	0.0429		mg/Kg		107	57 - 135	2	30
Chloromethane	0.0400	0.0431		mg/Kg		108	70 - 125	1	30
cis-1,2-Dichloroethene	0.0400	0.0449		mg/Kg		112	70 - 125	1	30
cis-1,3-Dichloropropene	0.0400	0.0421		mg/Kg		105	70 - 125	0	30
Dibromochloromethane	0.0400	0.0470		mg/Kg		118	69 - 125	5	30
1,1-Dichloroethane	0.0400	0.0429		mg/Kg		107	70 - 125	0	30
1,2-Dichloroethane	0.0400	0.0492		mg/Kg		123	70 - 130	6	30
1,1-Dichloroethene	0.0400	0.0487	*+	mg/Kg		122	70 - 120	1	30
1,2-Dichloropropane	0.0400	0.0468		mg/Kg		117	70 - 125	6	30
Ethylbenzene	0.0400	0.0452		mg/Kg		113	61 - 136	4	30
2-Hexanone	0.0400	0.0434		mg/Kg		108	48 - 146	10	30
Methylene Chloride	0.0400	0.0513	*+	mg/Kg		128	70 - 126	2	30
4-Methyl-2-pentanone (MIBK)	0.0400	0.0359		mg/Kg		90	50 - 148	8	30
Methyl tert-butyl ether	0.0400	0.0481		mg/Kg		120	50 - 140	12	30
Styrene	0.0400	0.0470		mg/Kg		117	70 - 125	3	30
1,1,2,2-Tetrachloroethane	0.0400	0.0463		mg/Kg		116	70 - 122	13	30
Tetrachloroethene	0.0400	0.0467		mg/Kg		117	70 - 124	4	30
Toluene	0.0400	0.0417		mg/Kg		104	70 - 125	2	30
trans-1,2-Dichloroethene	0.0400	0.0470		mg/Kg		117	70 - 125	2	30
trans-1,3-Dichloropropene	0.0400	0.0469		mg/Kg		117	70 - 125	4	30
1,1,1-Trichloroethane	0.0400	0.0498		mg/Kg		124	70 - 128	11	30
1,1,2-Trichloroethane	0.0400	0.0466		mg/Kg		116	70 - 125	7	30
Trichloroethene	0.0400	0.0513	*+	mg/Kg		128	70 - 125	3	30
Vinyl acetate	0.0400	0.0326		mg/Kg		82	40 - 153	6	30
Vinyl chloride	0.0400	0.0481		mg/Kg		120	70 - 125	4	30
Xylenes, Total	0.0800	0.0826		mg/Kg		103	53 - 147	4	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	110		75 - 131
Dibromofluoromethane	104		75 - 126
1,2-Dichloroethane-d4 (Surr)	103		70 - 134
Toluene-d8 (Surr)	100		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

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

Lab Sample ID: MB 500-686132/1-A
Matrix: Solid
Analysis Batch: 686896

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686132

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Isophorone	<0.17		0.17	0.037	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Carbazole	<0.17		0.17	0.083	mg/Kg		11/20/22 10:56	11/26/22 10:08	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

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

Lab Sample ID: MB 500-686132/1-A
Matrix: Solid
Analysis Batch: 686896

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686132

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		11/20/22 10:56	11/26/22 10:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	169	S1+	31 - 166	11/20/22 10:56	11/26/22 10:08	1
Phenol-d5	119		30 - 153	11/20/22 10:56	11/26/22 10:08	1
Nitrobenzene-d5 (Surr)	89		37 - 147	11/20/22 10:56	11/26/22 10:08	1
2-Fluorobiphenyl (Surr)	111		43 - 145	11/20/22 10:56	11/26/22 10:08	1
2,4,6-Tribromophenol	119		31 - 143	11/20/22 10:56	11/26/22 10:08	1
Terphenyl-d14 (Surr)	119		42 - 157	11/20/22 10:56	11/26/22 10:08	1

Lab Sample ID: LCS 500-686132/2-A
Matrix: Solid
Analysis Batch: 686896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686132

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.53		mg/Kg		115	56 - 122
Bis(2-chloroethyl)ether	1.33	1.64	*+	mg/Kg		123	55 - 111
1,3-Dichlorobenzene	1.33	1.24		mg/Kg		93	65 - 124
1,4-Dichlorobenzene	1.33	1.28		mg/Kg		96	61 - 110
1,2-Dichlorobenzene	1.33	1.30		mg/Kg		97	62 - 110
2-Methylphenol	1.33	1.46		mg/Kg		109	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.31		mg/Kg		98	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.33		mg/Kg		100	56 - 118
Hexachloroethane	1.33	1.23		mg/Kg		92	60 - 114
2-Chlorophenol	1.33	1.52	*+	mg/Kg		114	64 - 110
Nitrobenzene	1.33	1.32		mg/Kg		99	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.32		mg/Kg		99	60 - 112
1,2,4-Trichlorobenzene	1.33	1.37		mg/Kg		102	66 - 117
Isophorone	1.33	1.28		mg/Kg		96	55 - 110
2,4-Dimethylphenol	1.33	1.35		mg/Kg		102	60 - 110
Hexachlorobutadiene	1.33	1.30		mg/Kg		98	56 - 120
Naphthalene	1.33	1.28		mg/Kg		96	63 - 110
2,4-Dichlorophenol	1.33	1.38		mg/Kg		104	58 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

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

Lab Sample ID: LCS 500-686132/2-A
Matrix: Solid
Analysis Batch: 686896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686132

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloroaniline	1.33	0.649	J	mg/Kg		49	30 - 150
2,4,6-Trichlorophenol	1.33	1.51		mg/Kg		113	57 - 120
2,4,5-Trichlorophenol	1.33	1.51		mg/Kg		114	50 - 120
Hexachlorocyclopentadiene	1.33	0.487	J	mg/Kg		37	10 - 133
2-Methylnaphthalene	1.33	1.29		mg/Kg		97	69 - 112
2-Nitroaniline	1.33	1.54		mg/Kg		116	57 - 124
2-Chloronaphthalene	1.33	1.52		mg/Kg		114	69 - 114
4-Chloro-3-methylphenol	1.33	1.48		mg/Kg		111	65 - 122
2,6-Dinitrotoluene	1.33	1.67	*+	mg/Kg		125	70 - 123
2-Nitrophenol	1.33	1.46		mg/Kg		109	60 - 120
3-Nitroaniline	1.33	0.914		mg/Kg		69	40 - 122
Dimethyl phthalate	1.33	1.52		mg/Kg		114	69 - 116
2,4-Dinitrophenol	2.67	0.846		mg/Kg		32	10 - 100
Acenaphthylene	1.33	1.55		mg/Kg		116	68 - 120
2,4-Dinitrotoluene	1.33	1.40		mg/Kg		105	69 - 124
Acenaphthene	1.33	1.33		mg/Kg		99	65 - 124
Dibenzofuran	1.33	1.35		mg/Kg		101	66 - 115
4-Nitrophenol	2.67	2.34		mg/Kg		88	30 - 122
Fluorene	1.33	1.33		mg/Kg		99	62 - 120
4-Nitroaniline	1.33	1.29		mg/Kg		96	60 - 160
4-Bromophenyl phenyl ether	1.33	1.28		mg/Kg		96	68 - 118
Hexachlorobenzene	1.33	1.26		mg/Kg		94	63 - 124
Diethyl phthalate	1.33	1.30		mg/Kg		97	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.35		mg/Kg		101	62 - 119
Pentachlorophenol	2.67	1.60		mg/Kg		60	13 - 112
N-Nitrosodiphenylamine	1.33	1.28		mg/Kg		96	65 - 112
4,6-Dinitro-2-methylphenol	2.67	1.42		mg/Kg		53	10 - 110
Phenanthrene	1.33	1.26		mg/Kg		94	62 - 120
Anthracene	1.33	1.30		mg/Kg		97	70 - 114
Carbazole	1.33	1.44		mg/Kg		108	65 - 142
Di-n-butyl phthalate	1.33	1.32		mg/Kg		99	65 - 120
Fluoranthene	1.33	1.35		mg/Kg		101	62 - 120
Pyrene	1.33	1.45		mg/Kg		109	61 - 128
Butyl benzyl phthalate	1.33	1.43		mg/Kg		108	71 - 129
Benzo[a]anthracene	1.33	1.46		mg/Kg		109	67 - 122
Chrysene	1.33	1.41		mg/Kg		106	63 - 120
3,3'-Dichlorobenzidine	1.33	1.08		mg/Kg		81	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.51		mg/Kg		113	72 - 131
Di-n-octyl phthalate	1.33	1.54		mg/Kg		115	68 - 134
Benzo[b]fluoranthene	1.33	1.37		mg/Kg		102	69 - 129
Benzo[k]fluoranthene	1.33	1.28		mg/Kg		96	68 - 127
Benzo[a]pyrene	1.33	1.40		mg/Kg		105	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.57		mg/Kg		118	68 - 130
Dibenz(a,h)anthracene	1.33	1.48		mg/Kg		111	64 - 131
Benzo[g,h,i]perylene	1.33	1.51		mg/Kg		113	72 - 131
3 & 4 Methylphenol	1.33	1.50		mg/Kg		113	57 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

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

Lab Sample ID: LCS 500-686132/2-A
Matrix: Solid
Analysis Batch: 686896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686132

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	146		31 - 166
Phenol-d5	127		30 - 153
Nitrobenzene-d5 (Surr)	101		37 - 147
2-Fluorobiphenyl (Surr)	109		43 - 145
2,4,6-Tribromophenol	115		31 - 143
Terphenyl-d14 (Surr)	108		42 - 157

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-685392/1-A
Matrix: Solid
Analysis Batch: 686463

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685392

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		11/16/22 16:20	11/21/22 20:29	1
Arsenic	<1.0		1.0	0.34	mg/Kg		11/16/22 16:20	11/21/22 20:29	1
Barium	0.164	J	1.0	0.11	mg/Kg		11/16/22 16:20	11/21/22 20:29	1
Beryllium	<0.40		0.40	0.093	mg/Kg		11/16/22 16:20	11/21/22 20:29	1
Boron	<5.0		5.0	0.47	mg/Kg		11/16/22 16:20	11/21/22 20:29	1
Cadmium	0.0365	J	0.20	0.036	mg/Kg		11/16/22 16:20	11/21/22 20:29	1
Calcium	6.72	J	20	3.4	mg/Kg		11/16/22 16:20	11/21/22 20:29	1
Chromium	<1.0		1.0	0.50	mg/Kg		11/16/22 16:20	11/21/22 20:29	1
Cobalt	<0.50		0.50	0.13	mg/Kg		11/16/22 16:20	11/21/22 20:29	1
Copper	0.360	J	1.0	0.28	mg/Kg		11/16/22 16:20	11/21/22 20:29	1
Iron	40.3		20	10	mg/Kg		11/16/22 16:20	11/21/22 20:29	1
Lead	<0.50		0.50	0.23	mg/Kg		11/16/22 16:20	11/21/22 20:29	1
Magnesium	<10		10	5.0	mg/Kg		11/16/22 16:20	11/21/22 20:29	1
Manganese	0.823	J	1.0	0.15	mg/Kg		11/16/22 16:20	11/21/22 20:29	1
Nickel	<1.0		1.0	0.29	mg/Kg		11/16/22 16:20	11/21/22 20:29	1
Potassium	<50		50	18	mg/Kg		11/16/22 16:20	11/21/22 20:29	1
Selenium	<1.0		1.0	0.59	mg/Kg		11/16/22 16:20	11/21/22 20:29	1
Silver	<0.50		0.50	0.13	mg/Kg		11/16/22 16:20	11/21/22 20:29	1
Sodium	<100		100	15	mg/Kg		11/16/22 16:20	11/21/22 20:29	1
Thallium	<1.0		1.0	0.50	mg/Kg		11/16/22 16:20	11/21/22 20:29	1
Vanadium	<0.50		0.50	0.12	mg/Kg		11/16/22 16:20	11/21/22 20:29	1
Zinc	<2.0		2.0	0.88	mg/Kg		11/16/22 16:20	11/21/22 20:29	1

Lab Sample ID: LCS 500-685392/2-A
Matrix: Solid
Analysis Batch: 686463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685392

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec	Limits
		Result	Qualifier					
Antimony	50.0	45.9		mg/Kg		92		80 - 120
Arsenic	10.0	9.41		mg/Kg		94		80 - 120
Barium	200	201		mg/Kg		101		80 - 120
Beryllium	5.00	4.61		mg/Kg		92		80 - 120
Boron	100	85.0		mg/Kg		85		80 - 120
Cadmium	5.00	4.67		mg/Kg		93		80 - 120
Calcium	1000	877		mg/Kg		88		80 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-685392/2-A
Matrix: Solid
Analysis Batch: 686463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685392

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	20.0	19.3		mg/Kg		96	80 - 120
Cobalt	50.0	48.6		mg/Kg		97	80 - 120
Copper	25.0	24.4		mg/Kg		98	80 - 120
Iron	100	119		mg/Kg		119	80 - 120
Lead	10.0	9.04		mg/Kg		90	80 - 120
Magnesium	1000	918		mg/Kg		92	80 - 120
Manganese	50.0	47.7		mg/Kg		95	80 - 120
Nickel	50.0	47.1		mg/Kg		94	80 - 120
Potassium	1000	991		mg/Kg		99	80 - 120
Selenium	10.0	8.15		mg/Kg		82	80 - 120
Silver	5.00	4.19		mg/Kg		84	80 - 120
Sodium	1000	1010		mg/Kg		101	80 - 120
Thallium	10.0	8.86		mg/Kg		89	80 - 120
Vanadium	50.0	48.0		mg/Kg		96	80 - 120
Zinc	50.0	51.9		mg/Kg		104	80 - 120

Lab Sample ID: 500-225244-6 MS
Matrix: Solid
Analysis Batch: 686463

Client Sample ID: 1401V3-09-B05 (0-6)D
Prep Type: Total/NA
Prep Batch: 685392

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.37	J F1	29.2	5.80	F1	mg/Kg	✱	19	75 - 125
Arsenic	9.4		5.84	14.9		mg/Kg	✱	94	75 - 125
Barium	42	B	117	147		mg/Kg	✱	90	75 - 125
Beryllium	0.80		2.92	3.41		mg/Kg	✱	90	75 - 125
Boron	11		58.4	57.5		mg/Kg	✱	79	75 - 125
Cadmium	0.25	B	2.92	2.83		mg/Kg	✱	89	75 - 125
Chromium	16		11.7	26.6		mg/Kg	✱	93	75 - 125
Cobalt	12		29.2	40.5		mg/Kg	✱	98	75 - 125
Copper	25	B	14.6	38.0		mg/Kg	✱	89	75 - 125
Iron	19000	B	58.4	21000	4	mg/Kg	✱	2712	75 - 125
Lead	14	F1	5.84	23.0	F1	mg/Kg	✱	148	75 - 125
Magnesium	21000		584	22200	4	mg/Kg	✱	277	75 - 125
Manganese	360	B	29.2	399	4	mg/Kg	✱	146	75 - 125
Nickel	29		29.2	58.2		mg/Kg	✱	101	75 - 125
Potassium	2500		584	4380	4	mg/Kg	✱	326	75 - 125
Selenium	<0.57	F1	5.84	3.54	F1	mg/Kg	✱	61	75 - 125
Silver	0.30		2.92	2.74		mg/Kg	✱	84	75 - 125
Sodium	520		584	1080		mg/Kg	✱	96	75 - 125
Thallium	0.47	J	5.84	5.18		mg/Kg	✱	81	75 - 125
Vanadium	18		29.2	44.6		mg/Kg	✱	91	75 - 125
Zinc	70		29.2	102		mg/Kg	✱	113	75 - 125

Lab Sample ID: 500-225244-6 MS
Matrix: Solid
Analysis Batch: 686710

Client Sample ID: 1401V3-09-B05 (0-6)D
Prep Type: Total/NA
Prep Batch: 685392

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	52000	B	584	49700	4	mg/Kg	✱	-434	75 - 125

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-225244-6 MSD

Matrix: Solid

Analysis Batch: 686463

Client Sample ID: 1401V3-09-B05 (0-6)D

Prep Type: Total/NA

Prep Batch: 685392

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Antimony	0.37	J F1	29.4	5.76	F1	mg/Kg	☼	18	75 - 125	1	20
Arsenic	9.4		5.87	14.7		mg/Kg	☼	90	75 - 125	1	20
Barium	42	B	117	144		mg/Kg	☼	87	75 - 125	3	20
Beryllium	0.80		2.94	3.34		mg/Kg	☼	86	75 - 125	2	20
Boron	11		58.7	55.7		mg/Kg	☼	75	75 - 125	3	20
Cadmium	0.25	B	2.94	2.83		mg/Kg	☼	88	75 - 125	0	20
Chromium	16		11.7	26.4		mg/Kg	☼	90	75 - 125	1	20
Cobalt	12		29.4	40.7		mg/Kg	☼	98	75 - 125	1	20
Copper	25	B	14.7	37.7		mg/Kg	☼	86	75 - 125	1	20
Iron	19000	B	58.7	20200	4	mg/Kg	☼	1322	75 - 125	4	20
Lead	14	F1	5.87	20.5		mg/Kg	☼	105	75 - 125	12	20
Magnesium	21000		587	22700	4	mg/Kg	☼	353	75 - 125	2	20
Manganese	360	B	29.4	438	4	mg/Kg	☼	278	75 - 125	9	20
Nickel	29		29.4	57.5		mg/Kg	☼	98	75 - 125	1	20
Potassium	2500		587	4110	4	mg/Kg	☼	277	75 - 125	6	20
Selenium	<0.57	F1	5.87	3.52	F1	mg/Kg	☼	60	75 - 125	1	20
Silver	0.30		2.94	2.75		mg/Kg	☼	83	75 - 125	0	20
Sodium	520		587	1030		mg/Kg	☼	86	75 - 125	5	20
Thallium	0.47	J	5.87	5.02		mg/Kg	☼	78	75 - 125	3	20
Vanadium	18		29.4	44.0		mg/Kg	☼	88	75 - 125	1	20
Zinc	70		29.4	100		mg/Kg	☼	104	75 - 125	2	20

Lab Sample ID: 500-225244-6 MSD

Matrix: Solid

Analysis Batch: 686710

Client Sample ID: 1401V3-09-B05 (0-6)D

Prep Type: Total/NA

Prep Batch: 685392

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Calcium	52000	B	587	46200	4	mg/Kg	☼	-1026	75 - 125	7	20

Lab Sample ID: 500-225244-6 DU

Matrix: Solid

Analysis Batch: 686463

Client Sample ID: 1401V3-09-B05 (0-6)D

Prep Type: Total/NA

Prep Batch: 685392

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Antimony	0.37	J F1	0.325	J	mg/Kg	☼	14	20
Arsenic	9.4		8.91		mg/Kg	☼	5	20
Barium	42	B	50.1		mg/Kg	☼	18	20
Beryllium	0.80		0.845		mg/Kg	☼	6	20
Boron	11		11.6		mg/Kg	☼	1	20
Cadmium	0.25	B	0.280		mg/Kg	☼	11	20
Chromium	16		15.9		mg/Kg	☼	0.7	20
Cobalt	12		12.5		mg/Kg	☼	5	20
Copper	25	B	23.6		mg/Kg	☼	6	20
Iron	19000	B	19700		mg/Kg	☼	2	20
Lead	14	F1	15.1		mg/Kg	☼	5	20
Magnesium	21000		21100		mg/Kg	☼	2	20
Manganese	360	B	388		mg/Kg	☼	8	20
Nickel	29		30.7		mg/Kg	☼	6	20
Potassium	2500		2630		mg/Kg	☼	6	20

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-225244-6 DU
Matrix: Solid
Analysis Batch: 686463

Client Sample ID: 1401V3-09-B05 (0-6)D
Prep Type: Total/NA
Prep Batch: 685392

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Selenium	<0.57	F1	<0.57		mg/Kg	⊛	NC	20
Silver	0.30		0.302		mg/Kg	⊛	0.4	20
Sodium	520		617		mg/Kg	⊛	17	20
Thallium	0.47	J	0.406	J	mg/Kg	⊛	14	20
Vanadium	18		18.9		mg/Kg	⊛	4	20
Zinc	70		69.4		mg/Kg	⊛	0.1	20

Lab Sample ID: 500-225244-6 DU
Matrix: Solid
Analysis Batch: 686710

Client Sample ID: 1401V3-09-B05 (0-6)D
Prep Type: Total/NA
Prep Batch: 685392

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Calcium	52000	B	52300		mg/Kg	⊛	0.1	20

Lab Sample ID: LCS 500-685723/23-A
Matrix: Solid
Analysis Batch: 686272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685723

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.507		mg/L		101	80 - 120
Beryllium	0.0500	0.0479		mg/L		96	80 - 120
Boron	1.00	0.925		mg/L		92	80 - 120
Cadmium	0.0500	0.0489		mg/L		98	80 - 120
Chromium	0.200	0.192		mg/L		96	80 - 120
Cobalt	0.500	0.474		mg/L		95	80 - 120
Iron	1.00	1.04		mg/L		104	80 - 120
Lead	0.100	0.0911		mg/L		91	80 - 120
Manganese	0.500	0.490		mg/L		98	80 - 120
Nickel	0.500	0.471		mg/L		94	80 - 120
Selenium	0.100	0.101		mg/L		101	80 - 120
Silver	0.0500	0.0472		mg/L		94	80 - 120
Zinc	0.500	0.461	J	mg/L		92	80 - 120

Lab Sample ID: LCS 500-685723/2-A
Matrix: Solid
Analysis Batch: 686272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685723

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.500		mg/L		100	80 - 120
Beryllium	0.0500	0.0478		mg/L		96	80 - 120
Boron	1.00	0.907		mg/L		91	80 - 120
Cadmium	0.0500	0.0510		mg/L		102	80 - 120
Chromium	0.200	0.189		mg/L		95	80 - 120
Cobalt	0.500	0.495		mg/L		99	80 - 120
Iron	1.00	1.03		mg/L		103	80 - 120
Lead	0.100	0.0956		mg/L		96	80 - 120
Manganese	0.500	0.479		mg/L		96	80 - 120
Nickel	0.500	0.484		mg/L		97	80 - 120
Selenium	0.100	0.110		mg/L		110	80 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-685723/2-A
Matrix: Solid
Analysis Batch: 686272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685723

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	0.0500	0.0519		mg/L		104	80 - 120
Zinc	0.500	0.506		mg/L		101	80 - 120

Lab Sample ID: LCS 500-685726/2-A
Matrix: Solid
Analysis Batch: 686571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685726

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.500	0.465		mg/L		93	80 - 120

Lab Sample ID: LB 500-685351/1-B
Matrix: Solid
Analysis Batch: 686272

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685723

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		11/17/22 19:46	11/18/22 18:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/17/22 19:46	11/18/22 18:28	1
Boron	<0.50		0.50	0.050	mg/L		11/17/22 19:46	11/18/22 18:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/17/22 19:46	11/18/22 18:28	1
Chromium	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 18:28	1
Cobalt	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 18:28	1
Iron	<0.40		0.40	0.20	mg/L		11/17/22 19:46	11/18/22 18:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 19:46	11/18/22 18:28	1
Manganese	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 18:28	1
Nickel	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 18:28	1
Selenium	<0.050		0.050	0.020	mg/L		11/17/22 19:46	11/18/22 18:28	1
Silver	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 18:28	1
Zinc	<0.50		0.50	0.020	mg/L		11/17/22 19:46	11/18/22 18:28	1

Lab Sample ID: LB2 500-685353/1-B
Matrix: Solid
Analysis Batch: 686272

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685723

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		11/17/22 19:46	11/18/22 19:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/17/22 19:46	11/18/22 19:59	1
Boron	<0.50		0.50	0.050	mg/L		11/17/22 19:46	11/18/22 19:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/17/22 19:46	11/18/22 19:59	1
Chromium	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:59	1
Cobalt	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:59	1
Iron	<0.40		0.40	0.20	mg/L		11/17/22 19:46	11/18/22 19:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 19:46	11/18/22 19:59	1
Manganese	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:59	1
Nickel	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:59	1
Selenium	<0.050		0.050	0.020	mg/L		11/17/22 19:46	11/18/22 19:59	1
Silver	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:59	1
Zinc	<0.50		0.50	0.020	mg/L		11/17/22 19:46	11/18/22 19:59	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-685341/1-B
Matrix: Solid
Analysis Batch: 686571

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 685726

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		11/17/22 20:00	11/22/22 12:33	1

Lab Sample ID: 500-225244-2 MS
Matrix: Solid
Analysis Batch: 686571

Client Sample ID: 1401V3-09-B02 (0-6)
Prep Type: SPLP East
Prep Batch: 685726

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.29		0.500	0.759		mg/L		94	75 - 125

Lab Sample ID: 500-225244-2 DU
Matrix: Solid
Analysis Batch: 686571

Client Sample ID: 1401V3-09-B02 (0-6)
Prep Type: SPLP East
Prep Batch: 685726

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Manganese	0.29		0.291		mg/L		0	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-685723/23-A
Matrix: Solid
Analysis Batch: 686064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685723

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.464		mg/L		93	80 - 120
Thallium	0.100	0.102		mg/L		102	80 - 120

Lab Sample ID: LCS 500-685723/2-A
Matrix: Solid
Analysis Batch: 686064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685723

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.476		mg/L		95	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: LB 500-685351/1-B
Matrix: Solid
Analysis Batch: 686064

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685723

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/17/22 19:46	11/18/22 20:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/17/22 19:46	11/18/22 20:23	1

Lab Sample ID: LB2 500-685353/1-B
Matrix: Solid
Analysis Batch: 686064

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685723

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/17/22 19:46	11/18/22 21:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/17/22 19:46	11/18/22 21:52	1

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-685917/12-A
Matrix: Solid
Analysis Batch: 686339

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685917

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/18/22 14:55	11/21/22 09:56	1

Lab Sample ID: LCS 500-685917/14-A
Matrix: Solid
Analysis Batch: 686339

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685917

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00199		mg/L		100	80 - 120

Lab Sample ID: LCS 500-685917/35-A
Matrix: Solid
Analysis Batch: 686339

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685917

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00202		mg/L		102	80 - 120

Lab Sample ID: LB 500-685351/1-C
Matrix: Solid
Analysis Batch: 686339

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685917

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/18/22 14:55	11/21/22 09:58	1

Lab Sample ID: LB2 500-685353/1-C
Matrix: Solid
Analysis Batch: 686339

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685917

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/18/22 14:55	11/21/22 10:55	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-685493/12-A
Matrix: Solid
Analysis Batch: 685886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685493

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00668	J	0.017	0.0056	mg/Kg		11/17/22 15:25	11/18/22 08:47	1

Lab Sample ID: LCS 500-685493/13-A
Matrix: Solid
Analysis Batch: 685886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685493

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.181		mg/Kg		109	80 - 120

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

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

Lab Sample ID: 500-225244-5 MS
Matrix: Solid
Analysis Batch: 685886

Client Sample ID: 1401V3-09-B05 (0-6)
Prep Type: Total/NA
Prep Batch: 685493

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Mercury	0.088	B F1 F2	0.0887	0.139	F1	mg/Kg	⊛	58		75 - 125

Lab Sample ID: 500-225244-5 MSD
Matrix: Solid
Analysis Batch: 685886

Client Sample ID: 1401V3-09-B05 (0-6)
Prep Type: Total/NA
Prep Batch: 685493

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Mercury	0.088	B F1 F2	0.0888	0.196	F2	mg/Kg	⊛	122		75 - 125	34	20

Lab Sample ID: 500-225244-5 DU
Matrix: Solid
Analysis Batch: 685886

Client Sample ID: 1401V3-09-B05 (0-6)
Prep Type: Total/NA
Prep Batch: 685493

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Mercury	0.088	B F1 F2	0.0574	F3	mg/Kg	⊛	42	20

Method: 9045D - pH

Lab Sample ID: 500-225244-4 DU
Matrix: Solid
Analysis Batch: 685788

Client Sample ID: 1401V3-09-B04 (0-6)
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
pH	8.5		8.4		SU		0.8	

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B01 (0-6)

Lab Sample ID: 500-225244-1

Date Collected: 11/10/22 12:20

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685341	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
SPLP East	Prep	3010A			685726	LMB	EET CHI	11/17/22 20:00 - 11/17/22 20:30 ¹
SPLP East	Analysis	6010B		1	686571	JJB	EET CHI	11/22/22 13:11
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6010B		1	686272	JJB	EET CHI	11/18/22 19:36
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6020A		1	686064	FXG	EET CHI	11/18/22 21:28
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	7470A			685917	MJG	EET CHI	11/18/22 14:55 - 11/18/22 16:55 ¹
TCLP	Analysis	7470A		1	686339	MJG	EET CHI	11/21/22 10:40
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 15:49
Total/NA	Analysis	Moisture		1	685301	LWN	EET CHI	11/16/22 12:05

Client Sample ID: 1401V3-09-B01 (0-6)

Lab Sample ID: 500-225244-1

Date Collected: 11/10/22 12:20

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684698	WRE	EET CHI	11/11/22 10:37
Total/NA	Analysis	8260B		1	685181	W1T	EET CHI	11/16/22 12:18
Total/NA	Prep	3541			686132	DAK	EET CHI	11/20/22 10:56 - 11/20/22 16:20 ¹
Total/NA	Analysis	8270D		1	686896	SS	EET CHI	11/26/22 10:55
Total/NA	Prep	3050B			685392	LMB	EET CHI	11/16/22 16:20 - 11/16/22 16:50 ¹
Total/NA	Analysis	6010B		1	686463	JJB	EET CHI	11/21/22 20:42
Total/NA	Prep	3050B			685392	LMB	EET CHI	11/16/22 16:20 - 11/16/22 16:50 ¹
Total/NA	Analysis	6010B		5	686710	JJB	EET CHI	11/22/22 13:18
Total/NA	Prep	7471B			685493	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 09:04

Client Sample ID: 1401V3-09-B02 (0-6)

Lab Sample ID: 500-225244-2

Date Collected: 11/10/22 12:35

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685341	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
SPLP East	Prep	3010A			685726	LMB	EET CHI	11/17/22 20:00 - 11/17/22 20:30 ¹
SPLP East	Analysis	6010B		1	686571	JJB	EET CHI	11/22/22 13:14
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6010B		1	686272	JJB	EET CHI	11/18/22 19:40
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6020A		1	686064	FXG	EET CHI	11/18/22 21:32

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B02 (0-6)

Lab Sample ID: 500-225244-2

Date Collected: 11/10/22 12:35

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	7470A			685917	MJG	EET CHI	11/18/22 14:55 - 11/18/22 16:55 ¹
TCLP	Analysis	7470A		1	686339	MJG	EET CHI	11/21/22 10:43
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 15:52
Total/NA	Analysis	Moisture		1	685301	LWN	EET CHI	11/16/22 12:05

Client Sample ID: 1401V3-09-B02 (0-6)

Lab Sample ID: 500-225244-2

Date Collected: 11/10/22 12:35

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684698	WRE	EET CHI	11/11/22 10:37
Total/NA	Analysis	8260B		1	684930	W1T	EET CHI	11/15/22 21:37
Total/NA	Prep	3541	DL		686132	DAK	EET CHI	11/20/22 10:56 - 11/20/22 16:20 ¹
Total/NA	Analysis	8270D	DL	5	686979	SS	EET CHI	11/28/22 14:53
Total/NA	Prep	3541			686132	DAK	EET CHI	11/20/22 10:56 - 11/20/22 16:20 ¹
Total/NA	Analysis	8270D		1	686896	SS	EET CHI	11/26/22 11:18
Total/NA	Prep	3050B			685392	LMB	EET CHI	11/16/22 16:20 - 11/16/22 16:50 ¹
Total/NA	Analysis	6010B		1	686463	JJJ	EET CHI	11/21/22 20:46
Total/NA	Prep	3050B			685392	LMB	EET CHI	11/16/22 16:20 - 11/16/22 16:50 ¹
Total/NA	Analysis	6010B		5	686710	JJJ	EET CHI	11/22/22 13:25
Total/NA	Prep	7471B			685493	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 09:06

Client Sample ID: 1401V3-09-B03 (0-6)

Lab Sample ID: 500-225244-3

Date Collected: 11/10/22 12:50

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685341	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
SPLP East	Prep	3010A			685726	LMB	EET CHI	11/17/22 20:00 - 11/17/22 20:30 ¹
SPLP East	Analysis	6010B		1	686571	JJJ	EET CHI	11/22/22 13:27
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6010B		1	686272	JJJ	EET CHI	11/18/22 19:43
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6020A		1	686064	FXG	EET CHI	11/18/22 21:35
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	7470A			685917	MJG	EET CHI	11/18/22 14:55 - 11/18/22 16:55 ¹
TCLP	Analysis	7470A		1	686339	MJG	EET CHI	11/21/22 10:45
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 15:54
Total/NA	Analysis	Moisture		1	685301	LWN	EET CHI	11/16/22 12:05

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B03 (0-6)

Lab Sample ID: 500-225244-3

Date Collected: 11/10/22 12:50

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684698	WRE	EET CHI	11/11/22 10:37
Total/NA	Analysis	8260B		1	684930	W1T	EET CHI	11/15/22 22:02
Total/NA	Prep	3541			686132	DAK	EET CHI	11/20/22 10:56 - 11/20/22 16:20 ¹
Total/NA	Analysis	8270D		1	686896	SS	EET CHI	11/26/22 11:41
Total/NA	Prep	3050B			685392	LMB	EET CHI	11/16/22 16:20 - 11/16/22 16:50 ¹
Total/NA	Analysis	6010B		1	686463	JJB	EET CHI	11/21/22 20:49
Total/NA	Prep	3050B			685392	LMB	EET CHI	11/16/22 16:20 - 11/16/22 16:50 ¹
Total/NA	Analysis	6010B		5	686710	JJB	EET CHI	11/22/22 13:34
Total/NA	Prep	7471B			685493	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 09:07

Client Sample ID: 1401V3-09-B04 (0-6)

Lab Sample ID: 500-225244-4

Date Collected: 11/10/22 13:00

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685341	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
SPLP East	Prep	3010A			685726	LMB	EET CHI	11/17/22 20:00 - 11/17/22 20:30 ¹
SPLP East	Analysis	6010B		1	686571	JJB	EET CHI	11/22/22 13:30
TCLP	Leach	1311			685353	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6010B		1	686462	JJB	EET CHI	11/21/22 14:35
TCLP	Leach	1311			685353	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6010B		1	686272	JJB	EET CHI	11/18/22 20:12
TCLP	Leach	1311			685353	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6020A		1	686064	FXG	EET CHI	11/18/22 22:06
TCLP	Leach	1311			685353	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	7470A			685917	MJG	EET CHI	11/18/22 14:55 - 11/18/22 16:55 ¹
TCLP	Analysis	7470A		1	686339	MJG	EET CHI	11/21/22 11:04
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 15:59
Total/NA	Analysis	Moisture		1	685301	LWN	EET CHI	11/16/22 12:05

Client Sample ID: 1401V3-09-B04 (0-6)

Lab Sample ID: 500-225244-4

Date Collected: 11/10/22 13:00

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684698	WRE	EET CHI	11/11/22 10:37
Total/NA	Analysis	8260B		1	685181	W1T	EET CHI	11/16/22 11:05
Total/NA	Prep	3541			686132	DAK	EET CHI	11/20/22 10:56 - 11/20/22 16:20 ¹
Total/NA	Analysis	8270D		1	686896	SS	EET CHI	11/26/22 12:04
Total/NA	Prep	3050B			685392	LMB	EET CHI	11/16/22 16:20 - 11/16/22 16:50 ¹
Total/NA	Analysis	6010B		1	686463	JJB	EET CHI	11/21/22 20:52

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B04 (0-6)

Lab Sample ID: 500-225244-4

Date Collected: 11/10/22 13:00

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			685392	LMB	EET CHI	11/16/22 16:20 - 11/16/22 16:50 ¹
Total/NA	Analysis	6010B		5	686710	JJJ	EET CHI	11/22/22 13:37
Total/NA	Prep	7471B			685493	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 09:13

Client Sample ID: 1401V3-09-B05 (0-6)

Lab Sample ID: 500-225244-5

Date Collected: 11/10/22 13:10

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685341	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
SPLP East	Prep	3010A			685726	LMB	EET CHI	11/17/22 20:00 - 11/17/22 20:30 ¹
SPLP East	Analysis	6010B		1	686571	JJJ	EET CHI	11/22/22 13:33
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6010B		1	686272	JJJ	EET CHI	11/18/22 19:46
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6020A		1	686064	FXG	EET CHI	11/18/22 21:45
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	7470A			685917	MJG	EET CHI	11/18/22 14:55 - 11/18/22 16:55 ¹
TCLP	Analysis	7470A		1	686339	MJG	EET CHI	11/21/22 10:47
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 16:04
Total/NA	Analysis	Moisture		1	685301	LWN	EET CHI	11/16/22 12:05

Client Sample ID: 1401V3-09-B05 (0-6)

Lab Sample ID: 500-225244-5

Date Collected: 11/10/22 13:10

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684698	WRE	EET CHI	11/11/22 10:37
Total/NA	Analysis	8260B		1	685181	W1T	EET CHI	11/16/22 11:29
Total/NA	Prep	3541			686132	DAK	EET CHI	11/20/22 10:56 - 11/20/22 16:20 ¹
Total/NA	Analysis	8270D		1	686896	SS	EET CHI	11/26/22 12:27
Total/NA	Prep	3050B			685392	LMB	EET CHI	11/16/22 16:20 - 11/16/22 16:50 ¹
Total/NA	Analysis	6010B		1	686463	JJJ	EET CHI	11/21/22 20:56
Total/NA	Prep	3050B			685392	LMB	EET CHI	11/16/22 16:20 - 11/16/22 16:50 ¹
Total/NA	Analysis	6010B		2	686710	JJJ	EET CHI	11/22/22 13:40
Total/NA	Prep	7471B			685493	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 09:15

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Client Sample ID: 1401V3-09-B05 (0-6)D

Lab Sample ID: 500-225244-6

Date Collected: 11/10/22 13:12

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685341	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
SPLP East	Prep	3010A			685726	LMB	EET CHI	11/17/22 20:00 - 11/17/22 20:30 ¹
SPLP East	Analysis	6010B		1	686571	JJB	EET CHI	11/22/22 13:43
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6010B		1	686272	JJB	EET CHI	11/18/22 19:50
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6020A		1	686064	FXG	EET CHI	11/18/22 21:49
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	7470A			685917	MJG	EET CHI	11/18/22 14:55 - 11/18/22 16:55 ¹
TCLP	Analysis	7470A		1	686339	MJG	EET CHI	11/21/22 10:49
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 16:06
Total/NA	Analysis	Moisture		1	685301	LWN	EET CHI	11/16/22 12:05

Client Sample ID: 1401V3-09-B05 (0-6)D

Lab Sample ID: 500-225244-6

Date Collected: 11/10/22 13:12

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684698	WRE	EET CHI	11/11/22 10:37
Total/NA	Analysis	8260B		1	685181	W1T	EET CHI	11/16/22 11:53
Total/NA	Prep	3541			686132	DAK	EET CHI	11/20/22 10:56 - 11/20/22 16:20 ¹
Total/NA	Analysis	8270D		1	686896	SS	EET CHI	11/26/22 12:50
Total/NA	Prep	3050B			685392	LMB	EET CHI	11/16/22 16:20 - 11/16/22 16:50 ¹
Total/NA	Analysis	6010B		1	686463	JJB	EET CHI	11/21/22 20:59
Total/NA	Prep	3050B			685392	LMB	EET CHI	11/16/22 16:20 - 11/16/22 16:50 ¹
Total/NA	Analysis	6010B		5	686710	JJB	EET CHI	11/22/22 13:43
Total/NA	Prep	7471B			685493	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 09:23

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225244-1

Laboratory: Eurofins Chicago

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

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

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

Chain of Custody Record

522930




Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact Company Name: <u>WSP</u> Address: <u>20 N. LaSalle</u> City/State/Zip: <u>CHICAGO, IL</u> Phone: _____ Fax: _____		Project Manager <u>D. TICBOUT</u> Tel/Email: _____		Site Contact <u>A. HAPPEL</u> Date: <u>11/10/22</u>		COC No <u>5</u> of <u>8</u> COCs									
Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below: _____ <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Lab Contact <u>P. WRIGHT</u> Carrier: _____		 500-225244 COC		Sampler For Lab Use Only Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/>									
Project Name: <u>1507 W013 (Waterfield)</u> Site: _____ PO#: <u>PN 31403035.013</u>		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ <u>PH</u> <u>% Solids</u> <u>Total Metals</u> <u>VOCs</u> <u>SVOCs</u> <u>TCLP</u>				Job / SDG No: <u>500-225244</u>									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PH	% Solids	Total Metals	VOCs	SVOCs	TCLP	Sample Specific Notes
1 1401V3-09-B01 (0-6)		11/10/22	1230	C	S	2			X	X	X	X	X	X	
2 1401V3-09-B02 (0-6)		11/10/22	1235	C	S	2			X	X	X	X	X	X	
3 1401V3-09-B03 (0-6)		11/10/22	1250	C	S	2			X	X	X	X	X	X	
4 1401V3-09-B04 (0-6)		11/10/22	1300	C	S	2			X	X	X	X	X	X	
5 1401V3-09-B05 (0-6)		11/10/22	1310	C	S	2			X	X	X	X	X	X	
6 1401V3-09-B05(0-6)-DUP		11/10/22	1312	C	S	2			X	X	X	X	X	X	
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other															
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non-Hazardous <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown								Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months							
Special Instructions/QC Requirements & Comments: <u>* SPLP dependent on TCLP RESULTS</u>															
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No _____		Cooler Temp (°C) Obs'd _____ Cor'd _____		Therm ID No _____									
Relinquished by <u>Patricia Cooper</u>		Company <u>WSP</u>		Date/Time <u>11/10/22 1635</u>		Received by <u>J. Elman</u>		Company <u>EETA</u>		Date/Time <u>11/10/22 1635</u>					
Relinquished by <u>M. J. Elman</u>		Company <u>EETA</u>		Date/Time <u>11/10/22 1750</u>		Received by _____		Company _____		Date/Time _____					
Relinquished by _____		Company _____		Date/Time _____		Received in Laboratory by <u>M. J. Elman</u>		Company <u>EETA</u>		Date/Time <u>11/10/22 1750</u>					

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225244-1

Login Number: 225244

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.7,4.5,3.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 365 & FAP 870 (Butterfield Road) Office Phone Number, if available: _____

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

3 S 002-030 IL 53 (ISGS #1401V3-10)

City: Glen Ellyn State: IL Zip Code: 60137

County: DuPage Township: Milton

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

Latitude: 41.83005 Longitude: -88.05697
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: 0430455014 BOW: _____ BOA: _____

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

Estimated Volume of debris (cu. Yd.): 1,080

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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



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

Analytical Data Summary
PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

Key to Data Tables

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

Criteria Qualifiers and Shading

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

**PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11
CONTAMINANTS OF CONCERN**

SITE	ISGS #1401V3-10 (Commercial Building)			Comparison Criteria					
	1401V3-10-B02		1401V3-10-B03	MACs			TACO		
BORING	1401V3-10-B02 (0-5)		1401V3-10-B03 (0-6)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1401V3-10-B02 (0-5)	1401V3-10-B02 (5-9)	1401V3-10-B03 (0-6)						
MATRIX	Soil	Soil	Soil						
DEPTH (feet)	0-5	5-9	0-6						
pH	8.4	7.9	8.3						
PID (meter units)	--	--	--						
VOCs (mg/kg)									
Acetone	ND U	0.015 J	ND U	25	--	--	70,000	100,000	--
SVOCs (mg/kg)									
Acenaphthene	ND U	ND U	0.036 J	570	--	0.94	4,700	120,000	--
Acenaphthylene	ND U	ND U	0.013 J	--	--	0.25	--	--	--
Anthracene	0.019 J	ND U	0.023 J	12,000	--	2.6	23,000	610,000	--
Benzo(a)anthracene	0.045	0.015 J	0.041	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	0.068 J	0.026 J	0.079 J	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	0.10 J	0.040	0.10 J	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	0.030 J	0.014 J	0.042 J	--	--	4.4	--	--	--
Benzo(k)fluoranthene	0.035 J	0.014 J	0.041 J	9	--	8.1	9	1,700	--
Chrysene	0.065	0.023 J	0.055	88	--	11	88	17,000	--
Dibenzo(a,h)anthracene	0.011 J	ND U	0.012 J	0.09	0.42	1	0.42	17	--
Dibenzofuran	ND U	ND U	0.055 J	--	--	--	--	--	--
Fluoranthene	0.10	0.043	0.10	3,100	--	28	3,100	82,000	--
Fluorene	ND U	ND U	0.038	560	--	1.1	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.029 J	0.014 J	0.040 J	0.9	1.6	5.8	1.6	170	--
Phenanthrene	0.048	0.022 J	0.059	--	--	15	--	--	--
Pyrene	0.099 J	0.030 J	0.080 J	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)									
Antimony	0.60 J	0.50 J	0.29 J	5	--	--	31	82	--
Arsenic	12 †	12 †	8.2	11.3	13	--	13	61	--
Barium	59	44	83	1,500	--	--	5,500	14,000	--
Beryllium	0.90	0.80	0.76	22	--	--	160	410	--
Boron	7.0	7.4	6.7	40	--	--	16,000	41,000	--
Cadmium	0.27	0.26	0.30	5.2	--	--	78	200	--
Calcium	27,000	50,000	26,000	--	--	--	--	--	--
Chromium	16	14	15	21	--	--	230	690	--
Cobalt	13	12	13	20	--	--	4,700	12,000	--
Copper	26	28	21	2,900	--	--	2,900	8,200	--
Iron	23,000 †m	23,000 †m	18,000 †m	15,000	15,900	--	--	--	--
Lead	41	18	16	107	--	--	400	700	--
Magnesium	15,000	24,000	14,000	325,000	--	--	--	730,000	--
Manganese	440	440	480	630	636	--	1,600	4,100	--
Mercury	0.047	0.043	0.043	0.89	--	--	10	0.1	--
Nickel	29	30	30	100	--	--	1,600	4,100	--
Potassium	1,800	1,600	1,400	--	--	--	--	--	--
Silver	0.33	0.30	0.28	4.4	--	--	390	1,000	--
Sodium	870	820	1,400	--	--	--	--	--	--
Thallium	0.39 J	0.49 J	0.50 J	2.6	--	--	6.3	160	--
Vanadium	21	20	23	550	--	--	550	1,400	--
Zinc	86	83	66	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)									
Barium	0.44 J	0.39 J	0.38 J	--	--	--	--	--	2
Boron	0.059 J	ND U	0.052 J	--	--	--	--	--	2
Cobalt	ND U	0.049	ND U	--	--	--	--	--	1
Iron	ND U	0.20 J	ND U	--	--	--	--	--	5
Manganese	0.16 L	10 L	0.30 L	--	--	--	--	--	0.15
Nickel	ND U	0.019 J	ND U	--	--	--	--	--	0.1
Zinc	0.084 J	0.038 J	ND U	--	--	--	--	--	5
SPLP Metals (mg/L)									
Manganese	0.95 L	2.3 L	1.1 L	--	--	--	--	--	0.15



ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/5/2022 7:57:52 AM

JOB DESCRIPTION

IDOT - 196-002-WO 13 IL 56

JOB NUMBER

500-225245-1

Eurofins Chicago

Job Notes

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

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

Authorization



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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Job ID: 500-225245-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225245-1

Receipt

The samples were received on 11/10/2022 5:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.8° C, 4.5° C and 5.7° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) for preparation batch 500-684699 and analytical batch 500-685171 recovered outside control limits for the following analytes: Vinyl chloride, Bromomethane, and Chloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. 1401V3-10-B01 (0-5) (500-225245-1), 1401V3-10-B01 (5-9) (500-225245-2), 1401V3-10-B02 (0-5) (500-225245-3), 1401V3-10-B02 (5-9) (500-225245-4) and 1401V3-10-B03 (0-6) (500-225245-5)

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

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-687718 was outside the method criteria for the following analyte(s): Pentachlorophenol and Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The following samples contained one base surrogate outside acceptance limits: 1401V3-10-B01 (0-5) (500-225245-1), 1401V3-10-B01 (5-9) (500-225245-2) and 1401V3-10-B02 (5-9) (500-225245-4). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover above the criteria for this method with associated detections above the reporting limit when utilizing this list of analytes. The LCS associated with preparation batch 500-685765 and analytical batch 500-687903 had one analyte above the control limits with an associated detection: Pyrene. The following analytes were also above the QC limits and had no associated detections: Nitrobenzene, Isophorone, Bis(2-ethylhexyl) phthalate, Butyl benzyl phthalate, Pyrene, 4-Chloro-3-methylphenol, 3 & 4 Methylphenol, 2-Methylphenol, 2-Nitroaniline, 2-Chlorophenol, 2,4-Dimethylphenol, Bis(2-chloroethoxy)methane and 2-Nitrophenol.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-687903 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-687903 was outside the method criteria for the following analyte(s): Nitrobenzene, 2-Methylphenol, 2-Nitroaniline, 3 & 4 Methylphenol and 4-Chloro-3-methylphenol. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The following sample contained one base surrogate outside acceptance limits: 1401V3-10-B02 (0-5) (500-225245-3) and 1401V3-10-B03 (0-6) (500-225245-5). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method 8270D: Perylene-d12 internal standard response was outside of acceptance limits for the following samples: 1401V3-10-B02 (0-5) (500-225245-3) and 1401V3-10-B03 (0-6) (500-225245-5). The sample(s) was analyzed at a dilution with acceptable internal standard recoveries. The undiluted analysis was reported to obtain lower reporting limits.

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

Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Job ID: 500-225245-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

Metals

Method 6010B: The continuing calibration blanks (CCB) contained Zinc above the reporting limit (RL). The sample 1401V3-10-B01 (0-5) (500-225245-1), 1401V3-10-B01 (5-9) (500-225245-2), 1401V3-10-B02 (0-5) (500-225245-3) and 1401V3-10-B02 (5-9) (500-225245-4) associated with this CCB did not contain the target compound above the reporting limit (RL); therefore, re-analysis of samples was not performed.

Method 6010B:

The continuing calibration blank (CCB) at line 41 was outside the control limits for Zinc and Nickel bracketing the method blank (MB) and laboratory control sample (LCS). The MB and LCS was within the method control limits. The associated sample 1401V3-10-B01 (0-5) (500-225245-1), 1401V3-10-B01 (5-9) (500-225245-2), 1401V3-10-B02 (0-5) (500-225245-3), 1401V3-10-B02 (5-9) (500-225245-4) and 1401V3-10-B03 (0-6) (500-225245-5) was bracketed with continuing calibration verifications that were within control limits, therefore the data has been reported.

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

General Chemistry

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

Organic Prep

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



Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Client Sample ID: 1401V3-10-B02 (0-5)

Lab Sample ID: 500-225245-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Phenanthrene	0.048		0.039	0.0054	mg/Kg	1	✳		8270D	Total/NA
Anthracene	0.019	J	0.039	0.0065	mg/Kg	1	✳		8270D	Total/NA
Fluoranthene	0.10		0.039	0.0072	mg/Kg	1	✳		8270D	Total/NA
Pyrene	0.099	*+	0.039	0.0077	mg/Kg	1	✳		8270D	Total/NA
Benzo[a]anthracene	0.045		0.039	0.0052	mg/Kg	1	✳		8270D	Total/NA
Chrysene	0.065		0.039	0.011	mg/Kg	1	✳		8270D	Total/NA
Benzo[b]fluoranthene	0.10	*3	0.039	0.0084	mg/Kg	1	✳		8270D	Total/NA
Benzo[k]fluoranthene	0.035	J *3	0.039	0.011	mg/Kg	1	✳		8270D	Total/NA
Benzo[a]pyrene	0.068	*3	0.039	0.0075	mg/Kg	1	✳		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.029	J *3	0.039	0.010	mg/Kg	1	✳		8270D	Total/NA
Dibenz(a,h)anthracene	0.011	J *3	0.039	0.0075	mg/Kg	1	✳		8270D	Total/NA
Benzo[g,h,i]perylene	0.030	J *3	0.039	0.013	mg/Kg	1	✳		8270D	Total/NA
Antimony	0.60	J	1.2	0.23	mg/Kg	1	✳		6010B	Total/NA
Arsenic	12		0.58	0.20	mg/Kg	1	✳		6010B	Total/NA
Barium	59		0.58	0.067	mg/Kg	1	✳		6010B	Total/NA
Beryllium	0.90		0.23	0.055	mg/Kg	1	✳		6010B	Total/NA
Boron	7.0		2.9	0.27	mg/Kg	1	✳		6010B	Total/NA
Cadmium	0.27		0.12	0.021	mg/Kg	1	✳		6010B	Total/NA
Calcium	27000		12	2.0	mg/Kg	1	✳		6010B	Total/NA
Chromium	16		0.58	0.29	mg/Kg	1	✳		6010B	Total/NA
Cobalt	13		0.29	0.076	mg/Kg	1	✳		6010B	Total/NA
Copper	26		0.58	0.16	mg/Kg	1	✳		6010B	Total/NA
Iron	23000		12	6.1	mg/Kg	1	✳		6010B	Total/NA
Lead	41		0.29	0.13	mg/Kg	1	✳		6010B	Total/NA
Magnesium	15000		5.8	2.9	mg/Kg	1	✳		6010B	Total/NA
Manganese	440		0.58	0.085	mg/Kg	1	✳		6010B	Total/NA
Nickel	29		0.58	0.17	mg/Kg	1	✳		6010B	Total/NA
Potassium	1800		29	10	mg/Kg	1	✳		6010B	Total/NA
Silver	0.33		0.29	0.075	mg/Kg	1	✳		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Client Sample ID: 1401V3-10-B02 (0-5) (Continued)

Lab Sample ID: 500-225245-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	870		58	8.6	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.39	J	0.58	0.29	mg/Kg	1	✳	6010B	Total/NA
Vanadium	21		0.29	0.069	mg/Kg	1	✳	6010B	Total/NA
Zinc	86		1.2	0.51	mg/Kg	1	✳	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.059	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.16		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.084	J ^2	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.95		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.047	B	0.018	0.0061	mg/Kg	1	✳	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-10-B02 (5-9)

Lab Sample ID: 500-225245-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.015	J	0.025	0.011	mg/Kg	1	✳	8260B	Total/NA
Phenanthrene	0.022	J	0.039	0.0054	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.043		0.039	0.0072	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.030	J *+	0.039	0.0077	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.015	J	0.039	0.0052	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.023	J	0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.040		0.039	0.0084	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.014	J	0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.026	J	0.039	0.0075	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.014	J	0.039	0.010	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.014	J	0.039	0.013	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.50	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	12		0.59	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	44		0.59	0.067	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.80		0.23	0.055	mg/Kg	1	✳	6010B	Total/NA
Boron	7.4		2.9	0.27	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.26		0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	50000		59	10	mg/Kg	5	✳	6010B	Total/NA
Chromium	14		0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	12		0.29	0.077	mg/Kg	1	✳	6010B	Total/NA
Copper	28		0.59	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	23000		12	6.1	mg/Kg	1	✳	6010B	Total/NA
Lead	18		0.29	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	24000		5.9	2.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	440		0.59	0.085	mg/Kg	1	✳	6010B	Total/NA
Nickel	30		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	1600		29	10	mg/Kg	1	✳	6010B	Total/NA
Silver	0.30		0.29	0.076	mg/Kg	1	✳	6010B	Total/NA
Sodium	820		59	8.7	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.49	J	0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Vanadium	20		0.29	0.069	mg/Kg	1	✳	6010B	Total/NA
Zinc	83		1.2	0.52	mg/Kg	1	✳	6010B	Total/NA
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.049		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.20	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	10		0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Client Sample ID: 1401V3-10-B02 (5-9) (Continued)

Lab Sample ID: 500-225245-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.038	J ^2	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	2.3		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.043	B	0.018	0.0060	mg/Kg	1	⊛	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-10-B03 (0-6)

Lab Sample ID: 500-225245-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.013	J	0.037	0.0049	mg/Kg	1	⊛	8270D	Total/NA
Acenaphthene	0.036	J	0.037	0.0067	mg/Kg	1	⊛	8270D	Total/NA
Dibenzofuran	0.055	J	0.19	0.044	mg/Kg	1	⊛	8270D	Total/NA
Fluorene	0.038		0.037	0.0052	mg/Kg	1	⊛	8270D	Total/NA
Phenanthrene	0.059		0.037	0.0052	mg/Kg	1	⊛	8270D	Total/NA
Anthracene	0.023	J	0.037	0.0062	mg/Kg	1	⊛	8270D	Total/NA
Fluoranthene	0.10		0.037	0.0069	mg/Kg	1	⊛	8270D	Total/NA
Pyrene	0.080	*+	0.037	0.0074	mg/Kg	1	⊛	8270D	Total/NA
Benzo[a]anthracene	0.041		0.037	0.0050	mg/Kg	1	⊛	8270D	Total/NA
Chrysene	0.055		0.037	0.010	mg/Kg	1	⊛	8270D	Total/NA
Benzo[b]fluoranthene	0.10	*3	0.037	0.0081	mg/Kg	1	⊛	8270D	Total/NA
Benzo[k]fluoranthene	0.041	*3	0.037	0.011	mg/Kg	1	⊛	8270D	Total/NA
Benzo[a]pyrene	0.079	*3	0.037	0.0072	mg/Kg	1	⊛	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.040	*3	0.037	0.0097	mg/Kg	1	⊛	8270D	Total/NA
Dibenz(a,h)anthracene	0.012	J *3	0.037	0.0072	mg/Kg	1	⊛	8270D	Total/NA
Benzo[g,h,i]perylene	0.042	*3	0.037	0.012	mg/Kg	1	⊛	8270D	Total/NA
Antimony	0.29	J	1.1	0.21	mg/Kg	1	⊛	6010B	Total/NA
Arsenic	8.2		0.55	0.19	mg/Kg	1	⊛	6010B	Total/NA
Barium	83		0.55	0.063	mg/Kg	1	⊛	6010B	Total/NA
Beryllium	0.76		0.22	0.052	mg/Kg	1	⊛	6010B	Total/NA
Boron	6.7		2.8	0.26	mg/Kg	1	⊛	6010B	Total/NA
Cadmium	0.30		0.11	0.020	mg/Kg	1	⊛	6010B	Total/NA
Calcium	26000		11	1.9	mg/Kg	1	⊛	6010B	Total/NA
Chromium	15		0.55	0.27	mg/Kg	1	⊛	6010B	Total/NA
Cobalt	13		0.28	0.072	mg/Kg	1	⊛	6010B	Total/NA
Copper	21		0.55	0.15	mg/Kg	1	⊛	6010B	Total/NA
Iron	18000		11	5.7	mg/Kg	1	⊛	6010B	Total/NA
Lead	16		0.28	0.13	mg/Kg	1	⊛	6010B	Total/NA
Magnesium	14000		5.5	2.7	mg/Kg	1	⊛	6010B	Total/NA
Manganese	480		0.55	0.080	mg/Kg	1	⊛	6010B	Total/NA
Nickel	30		0.55	0.16	mg/Kg	1	⊛	6010B	Total/NA
Potassium	1400		28	9.8	mg/Kg	1	⊛	6010B	Total/NA
Silver	0.28		0.28	0.071	mg/Kg	1	⊛	6010B	Total/NA
Sodium	1400		55	8.2	mg/Kg	1	⊛	6010B	Total/NA
Thallium	0.50	J	0.55	0.28	mg/Kg	1	⊛	6010B	Total/NA
Vanadium	23		0.28	0.065	mg/Kg	1	⊛	6010B	Total/NA
Zinc	66		1.1	0.48	mg/Kg	1	⊛	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.052	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.30		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.043	B	0.018	0.0060	mg/Kg	1	⊛	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Client Sample ID: 1401V3-10-B03 (0-6) (Continued)

Lab Sample ID: 500-225245-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

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

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010B	Metals (ICP)	SW846	EET CHI
6010B	SPLP Metals	SW846	EET CHI
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225245-3	1401V3-10-B02 (0-5)	Solid	11/10/22 13:55	11/10/22 17:50
500-225245-4	1401V3-10-B02 (5-9)	Solid	11/10/22 14:00	11/10/22 17:50
500-225245-5	1401V3-10-B03 (0-6)	Solid	11/10/22 14:15	11/10/22 17:50

1

2

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7

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10

11

12

13

14

15

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Client Sample ID: 1401V3-10-B02 (0-5)

Lab Sample ID: 500-225245-3

Date Collected: 11/10/22 13:55

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0092	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
Benzene	<0.0021		0.0021	0.00054	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
Bromodichloromethane	<0.0021		0.0021	0.00043	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
Bromoform	<0.0021		0.0021	0.00062	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
Bromomethane	<0.0053	+	0.0053	0.0020	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
2-Butanone (MEK)	<0.0053		0.0053	0.0023	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
Carbon disulfide	<0.0053		0.0053	0.0011	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
Carbon tetrachloride	<0.0021		0.0021	0.00061	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
Chlorobenzene	<0.0021		0.0021	0.00078	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
Chloroethane	<0.0053		0.0053	0.0016	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
Chloroform	<0.0021		0.0021	0.00073	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
Chloromethane	<0.0053	+	0.0053	0.0021	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00059	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00064	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
Dibromochloromethane	<0.0021		0.0021	0.00069	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
1,1-Dichloroethane	<0.0021		0.0021	0.00072	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
1,2-Dichloroethane	<0.0053		0.0053	0.0016	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
1,1-Dichloroethene	<0.0021		0.0021	0.00073	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
1,2-Dichloropropene	<0.0021		0.0021	0.00055	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00074	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
2-Hexanone	<0.0053		0.0053	0.0016	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
Methylene Chloride	<0.0053		0.0053	0.0021	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0016	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00062	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
Styrene	<0.0021		0.0021	0.00064	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00068	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
Tetrachloroethene	<0.0021		0.0021	0.00072	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
Toluene	<0.0021		0.0021	0.00053	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00094	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00074	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00071	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00091	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
Trichloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
Vinyl acetate	<0.0053		0.0053	0.0018	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
Vinyl chloride	<0.0021	+	0.0021	0.00094	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1
Xylenes, Total	<0.0042		0.0042	0.00068	mg/Kg	☼	11/11/22 10:37	11/16/22 01:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 131	11/11/22 10:37	11/16/22 01:22	1
Dibromofluoromethane	90		75 - 126	11/11/22 10:37	11/16/22 01:22	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	11/11/22 10:37	11/16/22 01:22	1
Toluene-d8 (Surr)	86		75 - 124	11/11/22 10:37	11/16/22 01:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Client Sample ID: 1401V3-10-B02 (0-5)

Lab Sample ID: 500-225245-3

Date Collected: 11/10/22 13:55

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
2-Methylphenol	<0.20	+	0.20	0.062	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
2-Chlorophenol	<0.20	+	0.20	0.066	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Nitrobenzene	<0.039	+	0.039	0.0097	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Bis(2-chloroethoxy)methane	<0.20	+	0.20	0.040	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Isophorone	<0.20	+	0.20	0.044	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
2,4-Dimethylphenol	<0.39	+	0.39	0.15	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
2-Nitroaniline	<0.20	+	0.20	0.052	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
4-Chloro-3-methylphenol	<0.39	+	0.39	0.13	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
2-Nitrophenol	<0.39	+	0.39	0.092	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Phenanthrene	0.048		0.039	0.0054	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Anthracene	0.019	J	0.039	0.0065	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Fluoranthene	0.10		0.039	0.0072	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Pyrene	0.099	+	0.039	0.0077	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Butyl benzyl phthalate	<0.20	+	0.20	0.074	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Benzo[a]anthracene	0.045		0.039	0.0052	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Client Sample ID: 1401V3-10-B02 (0-5)

Lab Sample ID: 500-225245-3

Date Collected: 11/10/22 13:55

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.065		0.039	0.011	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Bis(2-ethylhexyl) phthalate	<0.20	*+	0.20	0.071	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Benzo[b]fluoranthene	0.10	*3	0.039	0.0084	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Benzo[k]fluoranthene	0.035	J *3	0.039	0.011	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Benzo[a]pyrene	0.068	*3	0.039	0.0075	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Indeno[1,2,3-cd]pyrene	0.029	J *3	0.039	0.010	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Dibenz(a,h)anthracene	0.011	J *3	0.039	0.0075	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
Benzo[g,h,i]perylene	0.030	J *3	0.039	0.013	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1
3 & 4 Methylphenol	<0.20	*+	0.20	0.065	mg/Kg	☼	11/18/22 07:15	12/01/22 21:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	115		31 - 166	11/18/22 07:15	12/01/22 21:18	1
Phenol-d5	102		30 - 153	11/18/22 07:15	12/01/22 21:18	1
Nitrobenzene-d5 (Surr)	101		37 - 147	11/18/22 07:15	12/01/22 21:18	1
2-Fluorobiphenyl (Surr)	104		43 - 145	11/18/22 07:15	12/01/22 21:18	1
2,4,6-Tribromophenol	83		31 - 143	11/18/22 07:15	12/01/22 21:18	1
Terphenyl-d14 (Surr)	222	S1+	42 - 157	11/18/22 07:15	12/01/22 21:18	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.60	J	1.2	0.23	mg/Kg	☼	11/16/22 16:18	11/18/22 20:02	1
Arsenic	12		0.58	0.20	mg/Kg	☼	11/16/22 16:18	11/18/22 20:02	1
Barium	59		0.58	0.067	mg/Kg	☼	11/16/22 16:18	11/18/22 20:02	1
Beryllium	0.90		0.23	0.055	mg/Kg	☼	11/16/22 16:18	11/18/22 20:02	1
Boron	7.0		2.9	0.27	mg/Kg	☼	11/16/22 16:18	11/18/22 20:02	1
Cadmium	0.27		0.12	0.021	mg/Kg	☼	11/16/22 16:18	11/18/22 20:02	1
Calcium	27000		12	2.0	mg/Kg	☼	11/16/22 16:18	11/18/22 20:02	1
Chromium	16		0.58	0.29	mg/Kg	☼	11/16/22 16:18	11/18/22 20:02	1
Cobalt	13		0.29	0.076	mg/Kg	☼	11/16/22 16:18	11/18/22 20:02	1
Copper	26		0.58	0.16	mg/Kg	☼	11/16/22 16:18	11/18/22 20:02	1
Iron	23000		12	6.1	mg/Kg	☼	11/16/22 16:18	11/18/22 20:02	1
Lead	41		0.29	0.13	mg/Kg	☼	11/16/22 16:18	11/18/22 20:02	1
Magnesium	15000		5.8	2.9	mg/Kg	☼	11/16/22 16:18	11/18/22 20:02	1
Manganese	440		0.58	0.085	mg/Kg	☼	11/16/22 16:18	11/18/22 20:02	1
Nickel	29		0.58	0.17	mg/Kg	☼	11/16/22 16:18	11/18/22 20:02	1
Potassium	1800		29	10	mg/Kg	☼	11/16/22 16:18	11/18/22 20:02	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	11/16/22 16:18	11/18/22 20:02	1
Silver	0.33		0.29	0.075	mg/Kg	☼	11/16/22 16:18	11/18/22 20:02	1
Sodium	870		58	8.6	mg/Kg	☼	11/16/22 16:18	11/18/22 20:02	1
Thallium	0.39	J	0.58	0.29	mg/Kg	☼	11/16/22 16:18	11/18/22 20:02	1
Vanadium	21		0.29	0.069	mg/Kg	☼	11/16/22 16:18	11/18/22 20:02	1
Zinc	86		1.2	0.51	mg/Kg	☼	11/16/22 16:18	11/18/22 20:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.44	J	0.50	0.050	mg/L		11/17/22 19:49	11/18/22 15:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/17/22 19:49	11/18/22 15:26	1
Boron	0.059	J	0.50	0.050	mg/L		11/17/22 19:49	11/18/22 15:26	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Client Sample ID: 1401V3-10-B02 (0-5)

Lab Sample ID: 500-225245-3

Date Collected: 11/10/22 13:55

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/17/22 19:49	11/18/22 15:26	1
Chromium	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 15:26	1
Cobalt	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 15:26	1
Iron	<0.40		0.40	0.20	mg/L		11/17/22 19:49	11/18/22 15:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 19:49	11/18/22 15:26	1
Manganese	0.16		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 15:26	1
Nickel	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 15:26	1
Selenium	<0.050		0.050	0.020	mg/L		11/17/22 19:49	11/18/22 15:26	1
Silver	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 15:26	1
Zinc	0.084	J ^2	0.50	0.020	mg/L		11/17/22 19:49	11/18/22 15:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.95		0.025	0.010	mg/L		11/17/22 20:01	11/21/22 17:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/17/22 19:49	11/18/22 22:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/17/22 19:49	11/18/22 22:44	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/17/22 12:30	11/18/22 11:21	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047	B	0.018	0.0061	mg/Kg	☼	11/17/22 15:25	11/18/22 09:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.4		0.2	0.2	SU			11/17/22 16:14	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Client Sample ID: 1401V3-10-B02 (5-9)

Lab Sample ID: 500-225245-4

Date Collected: 11/10/22 14:00

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.015	J	0.025	0.011	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
Benzene	<0.0025		0.0025	0.00064	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
Bromodichloromethane	<0.0025		0.0025	0.00051	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
Bromoform	<0.0025		0.0025	0.00073	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
Bromomethane	<0.0063	*+	0.0063	0.0024	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
2-Butanone (MEK)	<0.0063		0.0063	0.0028	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
Carbon disulfide	<0.0063		0.0063	0.0013	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
Carbon tetrachloride	<0.0025		0.0025	0.00073	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
Chlorobenzene	<0.0025		0.0025	0.00093	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
Chloroethane	<0.0063		0.0063	0.0019	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
Chloroform	<0.0025		0.0025	0.00087	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
Chloromethane	<0.0063	*+	0.0063	0.0025	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
cis-1,2-Dichloroethene	<0.0025		0.0025	0.00070	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
cis-1,3-Dichloropropene	<0.0025		0.0025	0.00076	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
Dibromochloromethane	<0.0025		0.0025	0.00082	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
1,1-Dichloroethane	<0.0025		0.0025	0.00086	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
1,2-Dichloroethane	<0.0063		0.0063	0.0020	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
1,1-Dichloroethene	<0.0025		0.0025	0.00087	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
1,2-Dichloropropane	<0.0025		0.0025	0.00065	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
1,3-Dichloropropane, Total	<0.0025		0.0025	0.00088	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
Ethylbenzene	<0.0025		0.0025	0.0012	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
2-Hexanone	<0.0063		0.0063	0.0020	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
Methylene Chloride	<0.0063		0.0063	0.0025	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
4-Methyl-2-pentanone (MIBK)	<0.0063		0.0063	0.0019	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
Methyl tert-butyl ether	<0.0025		0.0025	0.00074	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
Styrene	<0.0025		0.0025	0.00076	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
1,1,2,2-Tetrachloroethane	<0.0025		0.0025	0.00080	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
Tetrachloroethene	<0.0025		0.0025	0.00086	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
Toluene	<0.0025		0.0025	0.00063	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
trans-1,2-Dichloroethene	<0.0025		0.0025	0.0011	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
trans-1,3-Dichloropropene	<0.0025		0.0025	0.00088	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
1,1,1-Trichloroethane	<0.0025		0.0025	0.00084	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
1,1,2-Trichloroethane	<0.0025		0.0025	0.0011	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
Trichloroethene	<0.0025		0.0025	0.00085	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
Vinyl acetate	<0.0063		0.0063	0.0022	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
Vinyl chloride	<0.0025	*+	0.0025	0.0011	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1
Xylenes, Total	<0.0050		0.0050	0.00080	mg/Kg	☼	11/11/22 10:37	11/16/22 01:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		75 - 131	11/11/22 10:37	11/16/22 01:48	1
Dibromofluoromethane	91		75 - 126	11/11/22 10:37	11/16/22 01:48	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	11/11/22 10:37	11/16/22 01:48	1
Toluene-d8 (Surr)	83		75 - 124	11/11/22 10:37	11/16/22 01:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Client Sample ID: 1401V3-10-B02 (5-9)

Lab Sample ID: 500-225245-4

Date Collected: 11/10/22 14:00

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
2-Methylphenol	<0.20	*+	0.20	0.063	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
2-Chlorophenol	<0.20	*+	0.20	0.066	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Nitrobenzene	<0.039	*+	0.039	0.0097	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Bis(2-chloroethoxy)methane	<0.20	*+	0.20	0.040	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Isophorone	<0.20	*+	0.20	0.044	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
2,4-Dimethylphenol	<0.39	*+	0.39	0.15	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
2-Nitroaniline	<0.20	*+	0.20	0.052	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
4-Chloro-3-methylphenol	<0.39	*+	0.39	0.13	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
2-Nitrophenol	<0.39	*+	0.39	0.092	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Phenanthrene	0.022	J	0.039	0.0054	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Fluoranthene	0.043		0.039	0.0072	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Pyrene	0.030	J**	0.039	0.0077	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Butyl benzyl phthalate	<0.20	*+	0.20	0.074	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Benzo[a]anthracene	0.015	J	0.039	0.0052	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Client Sample ID: 1401V3-10-B02 (5-9)

Lab Sample ID: 500-225245-4

Date Collected: 11/10/22 14:00

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.023	J	0.039	0.011	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Bis(2-ethylhexyl) phthalate	<0.20	*+	0.20	0.071	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Benzo[b]fluoranthene	0.040		0.039	0.0084	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Benzo[k]fluoranthene	0.014	J	0.039	0.011	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Benzo[a]pyrene	0.026	J	0.039	0.0075	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Indeno[1,2,3-cd]pyrene	0.014	J	0.039	0.010	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
Benzo[g,h,i]perylene	0.014	J	0.039	0.013	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1
3 & 4 Methylphenol	<0.20	*+	0.20	0.065	mg/Kg	☼	11/18/22 07:15	12/01/22 21:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	113		31 - 166	11/18/22 07:15	12/01/22 21:42	1
Phenol-d5	98		30 - 153	11/18/22 07:15	12/01/22 21:42	1
Nitrobenzene-d5 (Surr)	76		37 - 147	11/18/22 07:15	12/01/22 21:42	1
2-Fluorobiphenyl (Surr)	77		43 - 145	11/18/22 07:15	12/01/22 21:42	1
2,4,6-Tribromophenol	67		31 - 143	11/18/22 07:15	12/01/22 21:42	1
Terphenyl-d14 (Surr)	185	S1+	42 - 157	11/18/22 07:15	12/01/22 21:42	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J	1.2	0.23	mg/Kg	☼	11/16/22 16:18	11/18/22 20:06	1
Arsenic	12		0.59	0.20	mg/Kg	☼	11/16/22 16:18	11/18/22 20:06	1
Barium	44		0.59	0.067	mg/Kg	☼	11/16/22 16:18	11/18/22 20:06	1
Beryllium	0.80		0.23	0.055	mg/Kg	☼	11/16/22 16:18	11/18/22 20:06	1
Boron	7.4		2.9	0.27	mg/Kg	☼	11/16/22 16:18	11/18/22 20:06	1
Cadmium	0.26		0.12	0.021	mg/Kg	☼	11/16/22 16:18	11/18/22 20:06	1
Calcium	50000		59	10	mg/Kg	☼	11/16/22 16:18	11/21/22 13:50	5
Chromium	14		0.59	0.29	mg/Kg	☼	11/16/22 16:18	11/18/22 20:06	1
Cobalt	12		0.29	0.077	mg/Kg	☼	11/16/22 16:18	11/18/22 20:06	1
Copper	28		0.59	0.16	mg/Kg	☼	11/16/22 16:18	11/18/22 20:06	1
Iron	23000		12	6.1	mg/Kg	☼	11/16/22 16:18	11/18/22 20:06	1
Lead	18		0.29	0.14	mg/Kg	☼	11/16/22 16:18	11/18/22 20:06	1
Magnesium	24000		5.9	2.9	mg/Kg	☼	11/16/22 16:18	11/18/22 20:06	1
Manganese	440		0.59	0.085	mg/Kg	☼	11/16/22 16:18	11/18/22 20:06	1
Nickel	30		0.59	0.17	mg/Kg	☼	11/16/22 16:18	11/18/22 20:06	1
Potassium	1600		29	10	mg/Kg	☼	11/16/22 16:18	11/18/22 20:06	1
Selenium	<0.59		0.59	0.35	mg/Kg	☼	11/16/22 16:18	11/18/22 20:06	1
Silver	0.30		0.29	0.076	mg/Kg	☼	11/16/22 16:18	11/18/22 20:06	1
Sodium	820		59	8.7	mg/Kg	☼	11/16/22 16:18	11/18/22 20:06	1
Thallium	0.49	J	0.59	0.29	mg/Kg	☼	11/16/22 16:18	11/18/22 20:06	1
Vanadium	20		0.29	0.069	mg/Kg	☼	11/16/22 16:18	11/18/22 20:06	1
Zinc	83		1.2	0.52	mg/Kg	☼	11/16/22 16:18	11/18/22 20:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.39	J	0.50	0.050	mg/L		11/17/22 19:49	11/18/22 15:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/17/22 19:49	11/18/22 15:29	1
Boron	<0.50		0.50	0.050	mg/L		11/17/22 19:49	11/18/22 15:29	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Client Sample ID: 1401V3-10-B02 (5-9)

Lab Sample ID: 500-225245-4

Date Collected: 11/10/22 14:00

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/17/22 19:49	11/18/22 15:29	1
Chromium	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 15:29	1
Cobalt	0.049		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 15:29	1
Iron	0.20	J	0.40	0.20	mg/L		11/17/22 19:49	11/18/22 15:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 19:49	11/18/22 15:29	1
Manganese	10		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 15:29	1
Nickel	0.019	J	0.025	0.010	mg/L		11/17/22 19:49	11/18/22 15:29	1
Selenium	<0.050		0.050	0.020	mg/L		11/17/22 19:49	11/18/22 15:29	1
Silver	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 15:29	1
Zinc	0.038	J ^2	0.50	0.020	mg/L		11/17/22 19:49	11/18/22 15:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.3		0.025	0.010	mg/L		11/17/22 20:01	11/21/22 17:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/17/22 19:49	11/18/22 22:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/17/22 19:49	11/18/22 22:47	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/17/22 12:30	11/18/22 11:24	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043	B	0.018	0.0060	mg/Kg	☆	11/17/22 15:25	11/18/22 09:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.9		0.2	0.2	SU			11/17/22 16:16	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Client Sample ID: 1401V3-10-B03 (0-6)

Lab Sample ID: 500-225245-5

Date Collected: 11/10/22 14:15

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0067	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
Benzene	<0.0015		0.0015	0.00039	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
Bromodichloromethane	<0.0015		0.0015	0.00031	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
Bromoform	<0.0015		0.0015	0.00045	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
Bromomethane	<0.0038	+	0.0038	0.0014	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
2-Butanone (MEK)	<0.0038		0.0038	0.0017	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
Carbon disulfide	<0.0038		0.0038	0.00080	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
Carbon tetrachloride	<0.0015		0.0015	0.00044	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
Chlorobenzene	<0.0015		0.0015	0.00057	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
Chloroethane	<0.0038		0.0038	0.0011	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
Chloroform	<0.0015		0.0015	0.00053	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
Chloromethane	<0.0038	+	0.0038	0.0015	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00043	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00046	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
Dibromochloromethane	<0.0015		0.0015	0.00050	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
1,1-Dichloroethane	<0.0015		0.0015	0.00052	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
1,2-Dichloroethane	<0.0038		0.0038	0.0012	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
1,1-Dichloroethene	<0.0015		0.0015	0.00053	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
1,2-Dichloropropane	<0.0015		0.0015	0.00040	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
1,3-Dichloropropane, Total	<0.0015		0.0015	0.00054	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
Ethylbenzene	<0.0015		0.0015	0.00073	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
Methylene Chloride	<0.0038		0.0038	0.0015	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.0011	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00045	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
Styrene	<0.0015		0.0015	0.00046	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00049	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
Tetrachloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
Toluene	<0.0015		0.0015	0.00039	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00068	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00054	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
1,1,1-Trichloroethane	<0.0015		0.0015	0.00051	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00066	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
Trichloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
Vinyl acetate	<0.0038		0.0038	0.0013	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
Vinyl chloride	<0.0015	+	0.0015	0.00068	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1
Xylenes, Total	<0.0031		0.0031	0.00049	mg/Kg	☼	11/11/22 10:37	11/16/22 02:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 131	11/11/22 10:37	11/16/22 02:13	1
Dibromofluoromethane	89		75 - 126	11/11/22 10:37	11/16/22 02:13	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	11/11/22 10:37	11/16/22 02:13	1
Toluene-d8 (Surr)	85		75 - 124	11/11/22 10:37	11/16/22 02:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Client Sample ID: 1401V3-10-B03 (0-6)

Lab Sample ID: 500-225245-5

Date Collected: 11/10/22 14:15

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
2-Methylphenol	<0.19	+	0.19	0.060	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
2-Chlorophenol	<0.19	+	0.19	0.064	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Nitrobenzene	<0.037	+	0.037	0.0093	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Bis(2-chloroethoxy)methane	<0.19	+	0.19	0.038	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Isophorone	<0.19	+	0.19	0.042	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
2,4-Dimethylphenol	<0.37	+	0.37	0.14	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
2-Methylnaphthalene	<0.075		0.075	0.0069	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
2-Nitroaniline	<0.19	+	0.19	0.050	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
4-Chloro-3-methylphenol	<0.37	+	0.37	0.13	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
2-Nitrophenol	<0.37	+	0.37	0.088	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Acenaphthylene	0.013	J	0.037	0.0049	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Acenaphthene	0.036	J	0.037	0.0067	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Dibenzofuran	0.055	J	0.19	0.044	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Fluorene	0.038		0.037	0.0052	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Phenanthrene	0.059		0.037	0.0052	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Anthracene	0.023	J	0.037	0.0062	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Fluoranthene	0.10		0.037	0.0069	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Pyrene	0.080	+	0.037	0.0074	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Butyl benzyl phthalate	<0.19	+	0.19	0.071	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Benzo[a]anthracene	0.041		0.037	0.0050	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Client Sample ID: 1401V3-10-B03 (0-6)

Lab Sample ID: 500-225245-5

Date Collected: 11/10/22 14:15

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.055		0.037	0.010	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Bis(2-ethylhexyl) phthalate	<0.19	+	0.19	0.068	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Benzo[b]fluoranthene	0.10	*3	0.037	0.0081	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Benzo[k]fluoranthene	0.041	*3	0.037	0.011	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Benzo[a]pyrene	0.079	*3	0.037	0.0072	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Indeno[1,2,3-cd]pyrene	0.040	*3	0.037	0.0097	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Dibenz(a,h)anthracene	0.012	J *3	0.037	0.0072	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
Benzo[g,h,i]perylene	0.042	*3	0.037	0.012	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1
3 & 4 Methylphenol	<0.19	+	0.19	0.062	mg/Kg	☼	11/18/22 07:15	12/01/22 22:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	112		31 - 166	11/18/22 07:15	12/01/22 22:06	1
Phenol-d5	106		30 - 153	11/18/22 07:15	12/01/22 22:06	1
Nitrobenzene-d5 (Surr)	71		37 - 147	11/18/22 07:15	12/01/22 22:06	1
2-Fluorobiphenyl (Surr)	77		43 - 145	11/18/22 07:15	12/01/22 22:06	1
2,4,6-Tribromophenol	74		31 - 143	11/18/22 07:15	12/01/22 22:06	1
Terphenyl-d14 (Surr)	188	S1+	42 - 157	11/18/22 07:15	12/01/22 22:06	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.29	J	1.1	0.21	mg/Kg	☼	11/16/22 16:18	11/18/22 20:09	1
Arsenic	8.2		0.55	0.19	mg/Kg	☼	11/16/22 16:18	11/18/22 20:09	1
Barium	83		0.55	0.063	mg/Kg	☼	11/16/22 16:18	11/18/22 20:09	1
Beryllium	0.76		0.22	0.052	mg/Kg	☼	11/16/22 16:18	11/18/22 20:09	1
Boron	6.7		2.8	0.26	mg/Kg	☼	11/16/22 16:18	11/18/22 20:09	1
Cadmium	0.30		0.11	0.020	mg/Kg	☼	11/16/22 16:18	11/18/22 20:09	1
Calcium	26000		11	1.9	mg/Kg	☼	11/16/22 16:18	11/18/22 20:09	1
Chromium	15		0.55	0.27	mg/Kg	☼	11/16/22 16:18	11/18/22 20:09	1
Cobalt	13		0.28	0.072	mg/Kg	☼	11/16/22 16:18	11/18/22 20:09	1
Copper	21		0.55	0.15	mg/Kg	☼	11/16/22 16:18	11/18/22 20:09	1
Iron	18000		11	5.7	mg/Kg	☼	11/16/22 16:18	11/18/22 20:09	1
Lead	16		0.28	0.13	mg/Kg	☼	11/16/22 16:18	11/18/22 20:09	1
Magnesium	14000		5.5	2.7	mg/Kg	☼	11/16/22 16:18	11/18/22 20:09	1
Manganese	480		0.55	0.080	mg/Kg	☼	11/16/22 16:18	11/18/22 20:09	1
Nickel	30		0.55	0.16	mg/Kg	☼	11/16/22 16:18	11/18/22 20:09	1
Potassium	1400		28	9.8	mg/Kg	☼	11/16/22 16:18	11/18/22 20:09	1
Selenium	<0.55		0.55	0.32	mg/Kg	☼	11/16/22 16:18	11/18/22 20:09	1
Silver	0.28		0.28	0.071	mg/Kg	☼	11/16/22 16:18	11/18/22 20:09	1
Sodium	1400		55	8.2	mg/Kg	☼	11/16/22 16:18	11/18/22 20:09	1
Thallium	0.50	J	0.55	0.28	mg/Kg	☼	11/16/22 16:18	11/18/22 20:09	1
Vanadium	23		0.28	0.065	mg/Kg	☼	11/16/22 16:18	11/18/22 20:09	1
Zinc	66		1.1	0.48	mg/Kg	☼	11/16/22 16:18	11/18/22 20:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.38	J	0.50	0.050	mg/L		11/17/22 19:49	11/18/22 15:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/17/22 19:49	11/18/22 15:42	1
Boron	0.052	J	0.50	0.050	mg/L		11/17/22 19:49	11/18/22 15:42	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Client Sample ID: 1401V3-10-B03 (0-6)

Lab Sample ID: 500-225245-5

Date Collected: 11/10/22 14:15

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/17/22 19:49	11/18/22 15:42	1
Chromium	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 15:42	1
Cobalt	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 15:42	1
Iron	<0.40		0.40	0.20	mg/L		11/17/22 19:49	11/18/22 15:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 19:49	11/18/22 15:42	1
Manganese	0.30		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 15:42	1
Nickel	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 15:42	1
Selenium	<0.050		0.050	0.020	mg/L		11/17/22 19:49	11/18/22 15:42	1
Silver	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 15:42	1
Zinc	<0.50		0.50	0.020	mg/L		11/17/22 19:49	11/18/22 15:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.1		0.025	0.010	mg/L		11/17/22 20:01	11/21/22 17:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/17/22 19:49	11/18/22 22:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/17/22 19:49	11/18/22 22:51	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/17/22 12:30	11/18/22 11:30	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043	B	0.018	0.0060	mg/Kg	☆	11/17/22 15:25	11/18/22 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.3		0.2	0.2	SU			11/17/22 16:18	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

GC/MS VOA

Prep Batch: 684699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225245-1	1401V3-10-B01 (0-5)	Total/NA	Solid	5035	
500-225245-2	1401V3-10-B01 (5-9)	Total/NA	Solid	5035	
500-225245-3	1401V3-10-B02 (0-5)	Total/NA	Solid	5035	
500-225245-4	1401V3-10-B02 (5-9)	Total/NA	Solid	5035	
500-225245-5	1401V3-10-B03 (0-6)	Total/NA	Solid	5035	

Analysis Batch: 685171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225245-1	1401V3-10-B01 (0-5)	Total/NA	Solid	8260B	684699
500-225245-2	1401V3-10-B01 (5-9)	Total/NA	Solid	8260B	684699
500-225245-3	1401V3-10-B02 (0-5)	Total/NA	Solid	8260B	684699
500-225245-4	1401V3-10-B02 (5-9)	Total/NA	Solid	8260B	684699
500-225245-5	1401V3-10-B03 (0-6)	Total/NA	Solid	8260B	684699
MB 500-685171/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-685171/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-685171/29	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 685765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225245-1	1401V3-10-B01 (0-5)	Total/NA	Solid	3541	
500-225245-2	1401V3-10-B01 (5-9)	Total/NA	Solid	3541	
500-225245-3	1401V3-10-B02 (0-5)	Total/NA	Solid	3541	
500-225245-4	1401V3-10-B02 (5-9)	Total/NA	Solid	3541	
500-225245-5	1401V3-10-B03 (0-6)	Total/NA	Solid	3541	
MB 500-685765/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-685765/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 687718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225245-1	1401V3-10-B01 (0-5)	Total/NA	Solid	8270D	685765
500-225245-2	1401V3-10-B01 (5-9)	Total/NA	Solid	8270D	685765
500-225245-3	1401V3-10-B02 (0-5)	Total/NA	Solid	8270D	685765
500-225245-4	1401V3-10-B02 (5-9)	Total/NA	Solid	8270D	685765
500-225245-5	1401V3-10-B03 (0-6)	Total/NA	Solid	8270D	685765

Analysis Batch: 687903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-685765/1-A	Method Blank	Total/NA	Solid	8270D	685765
LCS 500-685765/2-A	Lab Control Sample	Total/NA	Solid	8270D	685765

Metals

Leach Batch: 685347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225245-1	1401V3-10-B01 (0-5)	SPLP East	Solid	1312	
500-225245-2	1401V3-10-B01 (5-9)	SPLP East	Solid	1312	
500-225245-3	1401V3-10-B02 (0-5)	SPLP East	Solid	1312	
500-225245-4	1401V3-10-B02 (5-9)	SPLP East	Solid	1312	
500-225245-5	1401V3-10-B03 (0-6)	SPLP East	Solid	1312	
LB 500-685347/1-B	Method Blank	SPLP East	Solid	1312	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Metals

Leach Batch: 685355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225245-1	1401V3-10-B01 (0-5)	TCLP	Solid	1311	
500-225245-2	1401V3-10-B01 (5-9)	TCLP	Solid	1311	
500-225245-3	1401V3-10-B02 (0-5)	TCLP	Solid	1311	
500-225245-4	1401V3-10-B02 (5-9)	TCLP	Solid	1311	
500-225245-5	1401V3-10-B03 (0-6)	TCLP	Solid	1311	
LB 500-685355/1-B	Method Blank	TCLP	Solid	1311	
LB 500-685355/2-B	Method Blank	TCLP	Solid	1311	
500-225245-2 MS	1401V3-10-B01 (5-9)	TCLP	Solid	1311	
500-225245-2 DU	1401V3-10-B01 (5-9)	TCLP	Solid	1311	

Prep Batch: 685390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225245-1	1401V3-10-B01 (0-5)	Total/NA	Solid	3050B	
500-225245-2	1401V3-10-B01 (5-9)	Total/NA	Solid	3050B	
500-225245-3	1401V3-10-B02 (0-5)	Total/NA	Solid	3050B	
500-225245-4	1401V3-10-B02 (5-9)	Total/NA	Solid	3050B	
500-225245-5	1401V3-10-B03 (0-6)	Total/NA	Solid	3050B	
MB 500-685390/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-685390/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 685493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225245-1	1401V3-10-B01 (0-5)	Total/NA	Solid	7471B	
500-225245-2	1401V3-10-B01 (5-9)	Total/NA	Solid	7471B	
500-225245-3	1401V3-10-B02 (0-5)	Total/NA	Solid	7471B	
500-225245-4	1401V3-10-B02 (5-9)	Total/NA	Solid	7471B	
500-225245-5	1401V3-10-B03 (0-6)	Total/NA	Solid	7471B	
MB 500-685493/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-685493/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 685601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225245-1	1401V3-10-B01 (0-5)	TCLP	Solid	7470A	685355
500-225245-2	1401V3-10-B01 (5-9)	TCLP	Solid	7470A	685355
500-225245-3	1401V3-10-B02 (0-5)	TCLP	Solid	7470A	685355
500-225245-4	1401V3-10-B02 (5-9)	TCLP	Solid	7470A	685355
500-225245-5	1401V3-10-B03 (0-6)	TCLP	Solid	7470A	685355
LB 500-685355/2-B	Method Blank	TCLP	Solid	7470A	685355
MB 500-685601/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-685601/14-A	Lab Control Sample	Total/NA	Solid	7470A	
500-225245-2 MS	1401V3-10-B01 (5-9)	TCLP	Solid	7470A	685355
500-225245-2 DU	1401V3-10-B01 (5-9)	TCLP	Solid	7470A	685355

Prep Batch: 685724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225245-1	1401V3-10-B01 (0-5)	TCLP	Solid	3010A	685355
500-225245-2	1401V3-10-B01 (5-9)	TCLP	Solid	3010A	685355
500-225245-3	1401V3-10-B02 (0-5)	TCLP	Solid	3010A	685355
500-225245-4	1401V3-10-B02 (5-9)	TCLP	Solid	3010A	685355
500-225245-5	1401V3-10-B03 (0-6)	TCLP	Solid	3010A	685355
LB 500-685355/1-B	Method Blank	TCLP	Solid	3010A	685355

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Metals (Continued)

Prep Batch: 685724 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-685724/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-225245-2 MS	1401V3-10-B01 (5-9)	TCLP	Solid	3010A	685355
500-225245-2 DU	1401V3-10-B01 (5-9)	TCLP	Solid	3010A	685355

Prep Batch: 685727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225245-1	1401V3-10-B01 (0-5)	SPLP East	Solid	3010A	685347
500-225245-2	1401V3-10-B01 (5-9)	SPLP East	Solid	3010A	685347
500-225245-3	1401V3-10-B02 (0-5)	SPLP East	Solid	3010A	685347
500-225245-4	1401V3-10-B02 (5-9)	SPLP East	Solid	3010A	685347
500-225245-5	1401V3-10-B03 (0-6)	SPLP East	Solid	3010A	685347
LB 500-685347/1-B	Method Blank	SPLP East	Solid	3010A	685347
LCS 500-685727/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 685886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225245-1	1401V3-10-B01 (0-5)	Total/NA	Solid	7471B	685493
500-225245-2	1401V3-10-B01 (5-9)	Total/NA	Solid	7471B	685493
500-225245-3	1401V3-10-B02 (0-5)	Total/NA	Solid	7471B	685493
500-225245-4	1401V3-10-B02 (5-9)	Total/NA	Solid	7471B	685493
500-225245-5	1401V3-10-B03 (0-6)	Total/NA	Solid	7471B	685493
MB 500-685493/12-A	Method Blank	Total/NA	Solid	7471B	685493
LCS 500-685493/13-A	Lab Control Sample	Total/NA	Solid	7471B	685493

Analysis Batch: 685896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225245-1	1401V3-10-B01 (0-5)	TCLP	Solid	7470A	685601
500-225245-2	1401V3-10-B01 (5-9)	TCLP	Solid	7470A	685601
500-225245-3	1401V3-10-B02 (0-5)	TCLP	Solid	7470A	685601
500-225245-4	1401V3-10-B02 (5-9)	TCLP	Solid	7470A	685601
500-225245-5	1401V3-10-B03 (0-6)	TCLP	Solid	7470A	685601
LB 500-685355/2-B	Method Blank	TCLP	Solid	7470A	685601
MB 500-685601/12-A	Method Blank	Total/NA	Solid	7470A	685601
LCS 500-685601/14-A	Lab Control Sample	Total/NA	Solid	7470A	685601
500-225245-2 MS	1401V3-10-B01 (5-9)	TCLP	Solid	7470A	685601
500-225245-2 DU	1401V3-10-B01 (5-9)	TCLP	Solid	7470A	685601

Analysis Batch: 686064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225245-1	1401V3-10-B01 (0-5)	TCLP	Solid	6020A	685724
500-225245-2	1401V3-10-B01 (5-9)	TCLP	Solid	6020A	685724
500-225245-3	1401V3-10-B02 (0-5)	TCLP	Solid	6020A	685724
500-225245-4	1401V3-10-B02 (5-9)	TCLP	Solid	6020A	685724
500-225245-5	1401V3-10-B03 (0-6)	TCLP	Solid	6020A	685724
LB 500-685355/1-B	Method Blank	TCLP	Solid	6020A	685724
LCS 500-685724/2-A	Lab Control Sample	Total/NA	Solid	6020A	685724
500-225245-2 MS	1401V3-10-B01 (5-9)	TCLP	Solid	6020A	685724
500-225245-2 DU	1401V3-10-B01 (5-9)	TCLP	Solid	6020A	685724

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Metals

Analysis Batch: 686264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225245-1	1401V3-10-B01 (0-5)	Total/NA	Solid	6010B	685390
500-225245-2	1401V3-10-B01 (5-9)	Total/NA	Solid	6010B	685390
500-225245-3	1401V3-10-B02 (0-5)	Total/NA	Solid	6010B	685390
500-225245-4	1401V3-10-B02 (5-9)	Total/NA	Solid	6010B	685390
500-225245-5	1401V3-10-B03 (0-6)	Total/NA	Solid	6010B	685390
MB 500-685390/1-A	Method Blank	Total/NA	Solid	6010B	685390
LCS 500-685390/2-A	Lab Control Sample	Total/NA	Solid	6010B	685390

Analysis Batch: 686271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225245-1	1401V3-10-B01 (0-5)	TCLP	Solid	6010B	685724
500-225245-2	1401V3-10-B01 (5-9)	TCLP	Solid	6010B	685724
500-225245-3	1401V3-10-B02 (0-5)	TCLP	Solid	6010B	685724
500-225245-4	1401V3-10-B02 (5-9)	TCLP	Solid	6010B	685724
500-225245-5	1401V3-10-B03 (0-6)	TCLP	Solid	6010B	685724
LB 500-685355/1-B	Method Blank	TCLP	Solid	6010B	685724
LCS 500-685724/2-A	Lab Control Sample	Total/NA	Solid	6010B	685724
500-225245-2 MS	1401V3-10-B01 (5-9)	TCLP	Solid	6010B	685724
500-225245-2 DU	1401V3-10-B01 (5-9)	TCLP	Solid	6010B	685724

Analysis Batch: 686358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225245-2	1401V3-10-B01 (5-9)	Total/NA	Solid	6010B	685390

Analysis Batch: 686463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225245-1	1401V3-10-B01 (0-5)	SPLP East	Solid	6010B	685727
500-225245-2	1401V3-10-B01 (5-9)	SPLP East	Solid	6010B	685727
500-225245-3	1401V3-10-B02 (0-5)	SPLP East	Solid	6010B	685727
500-225245-4	1401V3-10-B02 (5-9)	SPLP East	Solid	6010B	685727
500-225245-5	1401V3-10-B03 (0-6)	SPLP East	Solid	6010B	685727
LB 500-685347/1-B	Method Blank	SPLP East	Solid	6010B	685727
LCS 500-685727/2-A	Lab Control Sample	Total/NA	Solid	6010B	685727

Analysis Batch: 686466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225245-4	1401V3-10-B02 (5-9)	Total/NA	Solid	6010B	685390

General Chemistry

Analysis Batch: 685301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225245-1	1401V3-10-B01 (0-5)	Total/NA	Solid	Moisture	
500-225245-2	1401V3-10-B01 (5-9)	Total/NA	Solid	Moisture	
500-225245-3	1401V3-10-B02 (0-5)	Total/NA	Solid	Moisture	
500-225245-4	1401V3-10-B02 (5-9)	Total/NA	Solid	Moisture	
500-225245-5	1401V3-10-B03 (0-6)	Total/NA	Solid	Moisture	

Analysis Batch: 685788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225245-1	1401V3-10-B01 (0-5)	Total/NA	Solid	9045D	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

General Chemistry (Continued)

Analysis Batch: 685788 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225245-2	1401V3-10-B01 (5-9)	Total/NA	Solid	9045D	
500-225245-3	1401V3-10-B02 (0-5)	Total/NA	Solid	9045D	
500-225245-4	1401V3-10-B02 (5-9)	Total/NA	Solid	9045D	
500-225245-5	1401V3-10-B03 (0-6)	Total/NA	Solid	9045D	
LCS 500-685788/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-685788/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

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

Surrogate Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-225245-1	1401V3-10-B01 (0-5)	94	90	92	84
500-225245-2	1401V3-10-B01 (5-9)	96	89	93	85
500-225245-3	1401V3-10-B02 (0-5)	95	90	88	86
500-225245-4	1401V3-10-B02 (5-9)	94	91	91	83
500-225245-5	1401V3-10-B03 (0-6)	95	89	91	85
LCS 500-685171/4	Lab Control Sample	91	88	85	88
LCSD 500-685171/29	Lab Control Sample Dup	92	84	85	92
MB 500-685171/7	Method Blank	97	86	85	84

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (31-166)	PHL (30-153)	NBZ (37-147)	FBP (43-145)	TBP (31-143)	TPHL (42-157)
500-225245-1	1401V3-10-B01 (0-5)	105	86	63	57	78	175 S1+
500-225245-2	1401V3-10-B01 (5-9)	104	87	76	80	71	210 S1+
500-225245-3	1401V3-10-B02 (0-5)	115	102	101	104	83	222 S1+
500-225245-4	1401V3-10-B02 (5-9)	113	98	76	77	67	185 S1+
500-225245-5	1401V3-10-B03 (0-6)	112	106	71	77	74	188 S1+
LCS 500-685765/2-A	Lab Control Sample	111	114	112	110	106	132
MB 500-685765/1-A	Method Blank	109	108	115	108	96	140

Surrogate Legend

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

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

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

Lab Sample ID: MB 500-685171/7
Matrix: Solid
Analysis Batch: 685171

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			11/15/22 23:40	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			11/15/22 23:40	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			11/15/22 23:40	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			11/15/22 23:40	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			11/15/22 23:40	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			11/15/22 23:40	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			11/15/22 23:40	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			11/15/22 23:40	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			11/15/22 23:40	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			11/15/22 23:40	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			11/15/22 23:40	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			11/15/22 23:40	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			11/15/22 23:40	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			11/15/22 23:40	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			11/15/22 23:40	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			11/15/22 23:40	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			11/15/22 23:40	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			11/15/22 23:40	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			11/15/22 23:40	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			11/15/22 23:40	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			11/15/22 23:40	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			11/15/22 23:40	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			11/15/22 23:40	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			11/15/22 23:40	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			11/15/22 23:40	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			11/15/22 23:40	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			11/15/22 23:40	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/15/22 23:40	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			11/15/22 23:40	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			11/15/22 23:40	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			11/15/22 23:40	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			11/15/22 23:40	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			11/15/22 23:40	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/15/22 23:40	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			11/15/22 23:40	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			11/15/22 23:40	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			11/15/22 23:40	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	97		75 - 131		11/15/22 23:40	1
Dibromofluoromethane	86		75 - 126		11/15/22 23:40	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 134		11/15/22 23:40	1
Toluene-d8 (Surr)	84		75 - 124		11/15/22 23:40	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

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

Lab Sample ID: LCS 500-685171/4
Matrix: Solid
Analysis Batch: 685171

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0500	0.0510		mg/Kg		102	40 - 150
Benzene	0.0500	0.0552		mg/Kg		110	70 - 125
Bromodichloromethane	0.0500	0.0568		mg/Kg		114	67 - 129
Bromoform	0.0500	0.0513		mg/Kg		103	68 - 136
Bromomethane	0.0500	0.0659	*+	mg/Kg		132	70 - 130
2-Butanone (MEK)	0.0500	0.0502		mg/Kg		100	47 - 138
Carbon disulfide	0.0500	0.0573		mg/Kg		115	70 - 129
Carbon tetrachloride	0.0500	0.0585		mg/Kg		117	75 - 125
Chlorobenzene	0.0500	0.0537		mg/Kg		107	50 - 150
Chloroethane	0.0500	0.0614		mg/Kg		123	75 - 125
Chloroform	0.0500	0.0585		mg/Kg		117	57 - 135
Chloromethane	0.0500	0.0631	*+	mg/Kg		126	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0567		mg/Kg		113	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0501		mg/Kg		100	70 - 125
Dibromochloromethane	0.0500	0.0541		mg/Kg		108	69 - 125
1,1-Dichloroethane	0.0500	0.0563		mg/Kg		113	70 - 125
1,2-Dichloroethane	0.0500	0.0577		mg/Kg		115	70 - 130
1,1-Dichloroethene	0.0500	0.0578		mg/Kg		116	70 - 120
1,2-Dichloropropane	0.0500	0.0547		mg/Kg		109	70 - 125
Ethylbenzene	0.0500	0.0529		mg/Kg		106	61 - 136
2-Hexanone	0.0500	0.0534		mg/Kg		107	48 - 146
Methylene Chloride	0.0500	0.0590		mg/Kg		118	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0514		mg/Kg		103	50 - 148
Methyl tert-butyl ether	0.0500	0.0545		mg/Kg		109	50 - 140
Styrene	0.0500	0.0517		mg/Kg		103	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0553		mg/Kg		111	70 - 122
Tetrachloroethene	0.0500	0.0515		mg/Kg		103	70 - 124
Toluene	0.0500	0.0514		mg/Kg		103	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0587		mg/Kg		117	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0509		mg/Kg		102	70 - 125
1,1,1-Trichloroethane	0.0500	0.0587		mg/Kg		117	70 - 128
1,1,2-Trichloroethane	0.0500	0.0543		mg/Kg		109	70 - 125
Trichloroethene	0.0500	0.0545		mg/Kg		109	70 - 125
Vinyl acetate	0.0500	0.0410		mg/Kg		82	40 - 153
Vinyl chloride	0.0500	0.0639	*+	mg/Kg		128	70 - 125
Xylenes, Total	0.100	0.104		mg/Kg		104	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	91		75 - 131
Dibromofluoromethane	88		75 - 126
1,2-Dichloroethane-d4 (Surr)	85		70 - 134
Toluene-d8 (Surr)	88		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

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

Lab Sample ID: LCSD 500-685171/29
Matrix: Solid
Analysis Batch: 685171

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.0500	0.0408		mg/Kg		82	40 - 150	22	30
Benzene	0.0500	0.0500		mg/Kg		100	70 - 125	10	30
Bromodichloromethane	0.0500	0.0507		mg/Kg		101	67 - 129	11	30
Bromoform	0.0500	0.0468		mg/Kg		94	68 - 136	9	30
Bromomethane	0.0500	0.0533		mg/Kg		107	70 - 130	21	30
2-Butanone (MEK)	0.0500	0.0463		mg/Kg		93	47 - 138	8	30
Carbon disulfide	0.0500	0.0514		mg/Kg		103	70 - 129	11	30
Carbon tetrachloride	0.0500	0.0524		mg/Kg		105	75 - 125	11	30
Chlorobenzene	0.0500	0.0513		mg/Kg		103	50 - 150	5	30
Chloroethane	0.0500	0.0511		mg/Kg		102	75 - 125	18	30
Chloroform	0.0500	0.0523		mg/Kg		105	57 - 135	11	30
Chloromethane	0.0500	0.0528		mg/Kg		106	70 - 125	18	30
cis-1,2-Dichloroethene	0.0500	0.0510		mg/Kg		102	70 - 125	11	30
cis-1,3-Dichloropropene	0.0500	0.0487		mg/Kg		97	70 - 125	3	30
Dibromochloromethane	0.0500	0.0512		mg/Kg		102	69 - 125	5	30
1,1-Dichloroethane	0.0500	0.0503		mg/Kg		101	70 - 125	11	30
1,2-Dichloroethane	0.0500	0.0504		mg/Kg		101	70 - 130	14	30
1,1-Dichloroethene	0.0500	0.0512		mg/Kg		102	70 - 120	12	30
1,2-Dichloropropane	0.0500	0.0473		mg/Kg		95	70 - 125	14	30
Ethylbenzene	0.0500	0.0516		mg/Kg		103	61 - 136	2	30
2-Hexanone	0.0500	0.0509		mg/Kg		102	48 - 146	5	30
Methylene Chloride	0.0500	0.0542		mg/Kg		108	70 - 126	9	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0476		mg/Kg		95	50 - 148	8	30
Methyl tert-butyl ether	0.0500	0.0459		mg/Kg		92	50 - 140	17	30
Styrene	0.0500	0.0501		mg/Kg		100	70 - 125	3	30
1,1,2,2-Tetrachloroethane	0.0500	0.0522		mg/Kg		104	70 - 122	6	30
Tetrachloroethene	0.0500	0.0511		mg/Kg		102	70 - 124	1	30
Toluene	0.0500	0.0512		mg/Kg		102	70 - 125	0	30
trans-1,2-Dichloroethene	0.0500	0.0524		mg/Kg		105	70 - 125	11	30
trans-1,3-Dichloropropene	0.0500	0.0493		mg/Kg		99	70 - 125	3	30
1,1,1-Trichloroethane	0.0500	0.0516		mg/Kg		103	70 - 128	13	30
1,1,2-Trichloroethane	0.0500	0.0520		mg/Kg		104	70 - 125	4	30
Trichloroethene	0.0500	0.0501		mg/Kg		100	70 - 125	8	30
Vinyl acetate	0.0500	0.0360		mg/Kg		72	40 - 153	13	30
Vinyl chloride	0.0500	0.0533		mg/Kg		107	70 - 125	18	30
Xylenes, Total	0.100	0.102		mg/Kg		102	53 - 147	2	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	92		75 - 131
Dibromofluoromethane	84		75 - 126
1,2-Dichloroethane-d4 (Surr)	85		70 - 134
Toluene-d8 (Surr)	92		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

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

Lab Sample ID: MB 500-685765/1-A
Matrix: Solid
Analysis Batch: 687903

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685765

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Isophorone	<0.17		0.17	0.037	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Carbazole	<0.17		0.17	0.083	mg/Kg		11/18/22 07:15	12/02/22 11:08	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

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

Lab Sample ID: MB 500-685765/1-A
Matrix: Solid
Analysis Batch: 687903

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685765

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		11/18/22 07:15	12/02/22 11:08	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		11/18/22 07:15	12/02/22 11:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	109		31 - 166	11/18/22 07:15	12/02/22 11:08	1
Phenol-d5	108		30 - 153	11/18/22 07:15	12/02/22 11:08	1
Nitrobenzene-d5 (Surr)	115		37 - 147	11/18/22 07:15	12/02/22 11:08	1
2-Fluorobiphenyl (Surr)	108		43 - 145	11/18/22 07:15	12/02/22 11:08	1
2,4,6-Tribromophenol	96		31 - 143	11/18/22 07:15	12/02/22 11:08	1
Terphenyl-d14 (Surr)	140		42 - 157	11/18/22 07:15	12/02/22 11:08	1

Lab Sample ID: LCS 500-685765/2-A
Matrix: Solid
Analysis Batch: 687903

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685765

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.51		mg/Kg		114	56 - 122
Bis(2-chloroethyl)ether	1.33	1.38		mg/Kg		104	55 - 111
1,3-Dichlorobenzene	1.33	1.36		mg/Kg		102	65 - 124
1,4-Dichlorobenzene	1.33	1.40		mg/Kg		105	61 - 110
1,2-Dichlorobenzene	1.33	1.41		mg/Kg		106	62 - 110
2-Methylphenol	1.33	1.70	*+	mg/Kg		128	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.35		mg/Kg		101	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.58		mg/Kg		118	56 - 118
Hexachloroethane	1.33	1.39		mg/Kg		105	60 - 114
2-Chlorophenol	1.33	1.56	*+	mg/Kg		117	64 - 110
Nitrobenzene	1.33	1.61	*+	mg/Kg		121	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.59	*+	mg/Kg		119	60 - 112
1,2,4-Trichlorobenzene	1.33	1.39		mg/Kg		104	66 - 117
Isophorone	1.33	1.54	*+	mg/Kg		116	55 - 110
2,4-Dimethylphenol	1.33	1.54	*+	mg/Kg		116	60 - 110
Hexachlorobutadiene	1.33	1.28		mg/Kg		96	56 - 120
Naphthalene	1.33	1.46		mg/Kg		110	63 - 110
2,4-Dichlorophenol	1.33	1.44		mg/Kg		108	58 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

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

Lab Sample ID: LCS 500-685765/2-A
Matrix: Solid
Analysis Batch: 687903

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685765

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloroaniline	1.33	0.948		mg/Kg		71	30 - 150
2,4,6-Trichlorophenol	1.33	1.52		mg/Kg		114	57 - 120
2,4,5-Trichlorophenol	1.33	1.49		mg/Kg		112	50 - 120
Hexachlorocyclopentadiene	1.33	0.343	J	mg/Kg		26	10 - 133
2-Methylnaphthalene	1.33	1.44		mg/Kg		108	69 - 112
2-Nitroaniline	1.33	1.75	*+	mg/Kg		131	57 - 124
2-Chloronaphthalene	1.33	1.44		mg/Kg		108	69 - 114
4-Chloro-3-methylphenol	1.33	1.68	*+	mg/Kg		126	65 - 122
2,6-Dinitrotoluene	1.33	1.54		mg/Kg		115	70 - 123
2-Nitrophenol	1.33	1.63	*+	mg/Kg		123	60 - 120
3-Nitroaniline	1.33	0.662		mg/Kg		50	40 - 122
Dimethyl phthalate	1.33	1.49		mg/Kg		111	69 - 116
2,4-Dinitrophenol	2.67	1.40		mg/Kg		52	10 - 100
Acenaphthylene	1.33	1.50		mg/Kg		113	68 - 120
2,4-Dinitrotoluene	1.33	1.62		mg/Kg		121	69 - 124
Acenaphthene	1.33	1.54		mg/Kg		116	65 - 124
Dibenzofuran	1.33	1.48		mg/Kg		111	66 - 115
4-Nitrophenol	2.67	2.82		mg/Kg		106	30 - 122
Fluorene	1.33	1.50		mg/Kg		112	62 - 120
4-Nitroaniline	1.33	1.29		mg/Kg		97	60 - 160
4-Bromophenyl phenyl ether	1.33	1.43		mg/Kg		107	68 - 118
Hexachlorobenzene	1.33	1.40		mg/Kg		105	63 - 124
Diethyl phthalate	1.33	1.50		mg/Kg		112	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.47		mg/Kg		110	62 - 119
Pentachlorophenol	2.67	2.02		mg/Kg		76	13 - 112
N-Nitrosodiphenylamine	1.33	1.43		mg/Kg		107	65 - 112
4,6-Dinitro-2-methylphenol	2.67	1.97		mg/Kg		74	10 - 110
Phenanthrene	1.33	1.44		mg/Kg		108	62 - 120
Anthracene	1.33	1.46		mg/Kg		109	70 - 114
Carbazole	1.33	1.55		mg/Kg		116	65 - 142
Di-n-butyl phthalate	1.33	1.51		mg/Kg		113	65 - 120
Fluoranthene	1.33	1.48		mg/Kg		111	62 - 120
Pyrene	1.33	1.73	*+	mg/Kg		130	61 - 128
Butyl benzyl phthalate	1.33	1.73	*+	mg/Kg		130	71 - 129
Benzo[a]anthracene	1.33	1.55		mg/Kg		116	67 - 122
Chrysene	1.33	1.53		mg/Kg		115	63 - 120
3,3'-Dichlorobenzidine	1.33	1.01		mg/Kg		76	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.78	*+	mg/Kg		134	72 - 131
Di-n-octyl phthalate	1.33	1.51		mg/Kg		113	68 - 134
Benzo[b]fluoranthene	1.33	1.45		mg/Kg		108	69 - 129
Benzo[k]fluoranthene	1.33	1.48		mg/Kg		111	68 - 127
Benzo[a]pyrene	1.33	1.50		mg/Kg		112	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.64		mg/Kg		123	68 - 130
Dibenz(a,h)anthracene	1.33	1.59		mg/Kg		119	64 - 131
Benzo[g,h,i]perylene	1.33	1.56		mg/Kg		117	72 - 131
3 & 4 Methylphenol	1.33	1.75	*+	mg/Kg		131	57 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

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

Lab Sample ID: LCS 500-685765/2-A
Matrix: Solid
Analysis Batch: 687903

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685765

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	111		31 - 166
Phenol-d5	114		30 - 153
Nitrobenzene-d5 (Surr)	112		37 - 147
2-Fluorobiphenyl (Surr)	110		43 - 145
2,4,6-Tribromophenol	106		31 - 143
Terphenyl-d14 (Surr)	132		42 - 157

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-685390/1-A
Matrix: Solid
Analysis Batch: 686264

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685390

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Arsenic	<1.0		1.0	0.34	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Barium	<1.0		1.0	0.11	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Beryllium	<0.40		0.40	0.093	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Boron	<5.0		5.0	0.47	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Cadmium	<0.20		0.20	0.036	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Calcium	<20		20	3.4	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Chromium	<1.0		1.0	0.50	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Cobalt	<0.50		0.50	0.13	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Copper	<1.0		1.0	0.28	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Iron	<20		20	10	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Lead	<0.50		0.50	0.23	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Magnesium	<10		10	5.0	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Manganese	<1.0		1.0	0.15	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Nickel	<1.0		1.0	0.29	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Potassium	<50		50	18	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Selenium	<1.0		1.0	0.59	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Silver	<0.50		0.50	0.13	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Sodium	<100		100	15	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Thallium	<1.0		1.0	0.50	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Vanadium	<0.50		0.50	0.12	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Zinc	<2.0		2.0	0.88	mg/Kg		11/16/22 16:18	11/18/22 19:20	1

Lab Sample ID: LCS 500-685390/2-A
Matrix: Solid
Analysis Batch: 686264

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685390

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Antimony	50.0	45.0		mg/Kg		90	80 - 120
Arsenic	10.0	9.19		mg/Kg		92	80 - 120
Barium	200	201		mg/Kg		100	80 - 120
Beryllium	5.00	4.63		mg/Kg		93	80 - 120
Boron	100	84.1		mg/Kg		84	80 - 120
Cadmium	5.00	4.55		mg/Kg		91	80 - 120
Calcium	1000	941		mg/Kg		94	80 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-685390/2-A
Matrix: Solid
Analysis Batch: 686264

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685390

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	20.0	18.8		mg/Kg		94	80 - 120
Cobalt	50.0	48.3		mg/Kg		97	80 - 120
Copper	25.0	24.1		mg/Kg		97	80 - 120
Iron	100	100		mg/Kg		100	80 - 120
Lead	10.0	8.80		mg/Kg		88	80 - 120
Magnesium	1000	918		mg/Kg		92	80 - 120
Manganese	50.0	47.4		mg/Kg		95	80 - 120
Nickel	50.0	46.9		mg/Kg		94	80 - 120
Potassium	1000	933		mg/Kg		93	80 - 120
Selenium	10.0	8.39		mg/Kg		84	80 - 120
Silver	5.00	4.24		mg/Kg		85	80 - 120
Sodium	1000	965		mg/Kg		97	80 - 120
Thallium	10.0	8.94		mg/Kg		89	80 - 120
Vanadium	50.0	48.1		mg/Kg		96	80 - 120
Zinc	50.0	46.5		mg/Kg		93	80 - 120

Lab Sample ID: LCS 500-685724/2-A
Matrix: Solid
Analysis Batch: 686271

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685724

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.509		mg/L		102	80 - 120
Beryllium	0.0500	0.0493		mg/L		99	80 - 120
Boron	1.00	0.934		mg/L		93	80 - 120
Cadmium	0.0500	0.0529		mg/L		106	80 - 120
Chromium	0.200	0.194		mg/L		97	80 - 120
Cobalt	0.500	0.513		mg/L		103	80 - 120
Iron	1.00	0.956		mg/L		96	80 - 120
Lead	0.100	0.0978		mg/L		98	80 - 120
Manganese	0.500	0.491		mg/L		98	80 - 120
Nickel	0.500	0.503		mg/L		101	80 - 120
Selenium	0.100	0.114		mg/L		114	80 - 120
Silver	0.0500	0.0535		mg/L		107	80 - 120
Zinc	0.500	0.533		mg/L		107	80 - 120

Lab Sample ID: LCS 500-685727/2-A
Matrix: Solid
Analysis Batch: 686463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685727

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.100	0.0943		mg/L		94	80 - 120
Manganese	0.500	0.499		mg/L		100	80 - 120

Lab Sample ID: LB 500-685355/1-B
Matrix: Solid
Analysis Batch: 686271

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685724

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		11/17/22 19:49	11/18/22 13:49	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-685355/1-B
Matrix: Solid
Analysis Batch: 686271

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685724

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/17/22 19:49	11/18/22 13:49	1
Boron	<0.50		0.50	0.050	mg/L		11/17/22 19:49	11/18/22 13:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/17/22 19:49	11/18/22 13:49	1
Chromium	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 13:49	1
Cobalt	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 13:49	1
Iron	<0.40		0.40	0.20	mg/L		11/17/22 19:49	11/18/22 13:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 19:49	11/18/22 13:49	1
Manganese	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 13:49	1
Nickel	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 13:49	1
Selenium	<0.050		0.050	0.020	mg/L		11/17/22 19:49	11/18/22 13:49	1
Silver	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 13:49	1
Zinc	<0.50		0.50	0.020	mg/L		11/17/22 19:49	11/18/22 13:49	1

Lab Sample ID: 500-225245-2 MS
Matrix: Solid
Analysis Batch: 686271

Client Sample ID: 1401V3-10-B01 (5-9)
Prep Type: TCLP
Prep Batch: 685724

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
Barium	0.26	J	0.500	0.774		mg/L		102	75 - 125
Beryllium	<0.0040		0.0500	0.0509		mg/L		102	75 - 125
Boron	<0.50		1.00	0.980		mg/L		98	75 - 125
Cadmium	0.0045	J	0.0500	0.0591		mg/L		109	75 - 125
Chromium	<0.025		0.200	0.185		mg/L		93	75 - 125
Cobalt	<0.025		0.500	0.513		mg/L		103	75 - 125
Iron	<0.40		1.00	1.03		mg/L		103	75 - 125
Lead	0.013		0.100	0.115		mg/L		102	75 - 125
Manganese	1.1		0.500	1.62		mg/L		99	75 - 125
Nickel	<0.025		0.500	0.510		mg/L		102	75 - 125
Selenium	<0.050		0.100	0.108		mg/L		108	75 - 125
Silver	<0.025		0.0500	0.0554		mg/L		111	75 - 125
Zinc	<0.50		0.500	0.530		mg/L		106	75 - 125

Lab Sample ID: 500-225245-2 DU
Matrix: Solid
Analysis Batch: 686271

Client Sample ID: 1401V3-10-B01 (5-9)
Prep Type: TCLP
Prep Batch: 685724

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	Limit
			Result	Qualifier				
Barium	0.26	J	0.259	J	mg/L		2	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	<0.50		<0.50		mg/L		NC	20
Cadmium	0.0045	J	0.00436	J	mg/L		4	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	<0.025		<0.025		mg/L		NC	20
Iron	<0.40		<0.40		mg/L		NC	20
Lead	0.013		0.0139		mg/L		7	20
Manganese	1.1		1.10		mg/L		2	20
Nickel	<0.025		<0.025		mg/L		NC	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-225245-2 DU
Matrix: Solid
Analysis Batch: 686271

Client Sample ID: 1401V3-10-B01 (5-9)
Prep Type: TCLP
Prep Batch: 685724

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Zinc	<0.50		<0.50		mg/L		NC	20

Lab Sample ID: LB 500-685347/1-B
Matrix: Solid
Analysis Batch: 686463

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 685727

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 20:01	11/21/22 17:28	1
Manganese	<0.025		0.025	0.010	mg/L		11/17/22 20:01	11/21/22 17:28	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-685724/2-A
Matrix: Solid
Analysis Batch: 686064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685724

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.465		mg/L		93	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: LB 500-685355/1-B
Matrix: Solid
Analysis Batch: 686064

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685724

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/17/22 19:49	11/18/22 22:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/17/22 19:49	11/18/22 22:09	1

Lab Sample ID: 500-225245-2 MS
Matrix: Solid
Analysis Batch: 686064

Client Sample ID: 1401V3-10-B01 (5-9)
Prep Type: TCLP
Prep Batch: 685724

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.0060		0.500	0.476		mg/L		95	75 - 125
Thallium	<0.0020		0.100	0.106		mg/L		106	75 - 125

Lab Sample ID: 500-225245-2 DU
Matrix: Solid
Analysis Batch: 686064

Client Sample ID: 1401V3-10-B01 (5-9)
Prep Type: TCLP
Prep Batch: 685724

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-685601/12-A
Matrix: Solid
Analysis Batch: 685896

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685601

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/17/22 12:30	11/18/22 11:07	1

Lab Sample ID: LCS 500-685601/14-A
Matrix: Solid
Analysis Batch: 685896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685601

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00180		mg/L		91	80 - 120

Lab Sample ID: LB 500-685355/2-B
Matrix: Solid
Analysis Batch: 685896

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685601

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/17/22 12:30	11/18/22 11:09	1

Lab Sample ID: 500-225245-2 MS
Matrix: Solid
Analysis Batch: 685896

Client Sample ID: 1401V3-10-B01 (5-9)
Prep Type: TCLP
Prep Batch: 685601

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.000957		mg/L		96	75 - 125

Lab Sample ID: 500-225245-2 DU
Matrix: Solid
Analysis Batch: 685896

Client Sample ID: 1401V3-10-B01 (5-9)
Prep Type: TCLP
Prep Batch: 685601

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-685493/12-A
Matrix: Solid
Analysis Batch: 685886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685493

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00668	J	0.017	0.0056	mg/Kg		11/17/22 15:25	11/18/22 08:47	1

Lab Sample ID: LCS 500-685493/13-A
Matrix: Solid
Analysis Batch: 685886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685493

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.181		mg/Kg		109	80 - 120

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Client Sample ID: 1401V3-10-B01 (0-5)

Lab Sample ID: 500-225245-1

Date Collected: 11/10/22 13:25

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685347	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
SPLP East	Prep	3010A			685727	LMB	EET CHI	11/17/22 20:01 - 11/17/22 20:31 ¹
SPLP East	Analysis	6010B		1	686463	JJJ	EET CHI	11/21/22 17:35
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	3010A			685724	LMB	EET CHI	11/17/22 19:49 - 11/17/22 20:19 ¹
TCLP	Analysis	6010B		1	686271	JJJ	EET CHI	11/18/22 15:09
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	3010A			685724	LMB	EET CHI	11/17/22 19:49 - 11/17/22 20:19 ¹
TCLP	Analysis	6020A		1	686064	FXG	EET CHI	11/18/22 22:16
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	7470A			685601	MJG	EET CHI	11/17/22 12:30 - 11/17/22 14:30 ¹
TCLP	Analysis	7470A		1	685896	MJG	EET CHI	11/18/22 11:13
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 16:09
Total/NA	Analysis	Moisture		1	685301	LWN	EET CHI	11/16/22 12:05

Client Sample ID: 1401V3-10-B01 (0-5)

Lab Sample ID: 500-225245-1

Date Collected: 11/10/22 13:25

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684699	WRE	EET CHI	11/11/22 10:37
Total/NA	Analysis	8260B		1	685171	PMF	EET CHI	11/16/22 00:31
Total/NA	Prep	3541			685765	FRG	EET CHI	11/18/22 07:15 - 11/18/22 12:00 ¹
Total/NA	Analysis	8270D		1	687718	SS	EET CHI	12/01/22 20:31
Total/NA	Prep	3050B			685390	LMB	EET CHI	11/16/22 16:18 - 11/16/22 16:48 ¹
Total/NA	Analysis	6010B		1	686264	JJJ	EET CHI	11/18/22 19:56
Total/NA	Prep	7471B			685493	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 09:25

Client Sample ID: 1401V3-10-B01 (5-9)

Lab Sample ID: 500-225245-2

Date Collected: 11/10/22 13:30

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685347	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
SPLP East	Prep	3010A			685727	LMB	EET CHI	11/17/22 20:01 - 11/17/22 20:31 ¹
SPLP East	Analysis	6010B		1	686463	JJJ	EET CHI	11/21/22 17:38
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	3010A			685724	LMB	EET CHI	11/17/22 19:49 - 11/17/22 20:19 ¹
TCLP	Analysis	6010B		1	686271	JJJ	EET CHI	11/18/22 15:12
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	3010A			685724	LMB	EET CHI	11/17/22 19:49 - 11/17/22 20:19 ¹
TCLP	Analysis	6020A		1	686064	FXG	EET CHI	11/18/22 22:30
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	7470A			685601	MJG	EET CHI	11/17/22 12:30 - 11/17/22 14:30 ¹
TCLP	Analysis	7470A		1	685896	MJG	EET CHI	11/18/22 11:15

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Client Sample ID: 1401V3-10-B01 (5-9)

Lab Sample ID: 500-225245-2

Date Collected: 11/10/22 13:30

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 16:11
Total/NA	Analysis	Moisture		1	685301	LWN	EET CHI	11/16/22 12:05

Client Sample ID: 1401V3-10-B01 (5-9)

Lab Sample ID: 500-225245-2

Date Collected: 11/10/22 13:30

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684699	WRE	EET CHI	11/11/22 10:37
Total/NA	Analysis	8260B		1	685171	PMF	EET CHI	11/16/22 00:57
Total/NA	Prep	3541			685765	FRG	EET CHI	11/18/22 07:15 - 11/18/22 12:00 ¹
Total/NA	Analysis	8270D		1	687718	SS	EET CHI	12/01/22 20:55
Total/NA	Prep	3050B			685390	LMB	EET CHI	11/16/22 16:18 - 11/16/22 16:48 ¹
Total/NA	Analysis	6010B		1	686264	JJB	EET CHI	11/18/22 19:59
Total/NA	Prep	3050B			685390	LMB	EET CHI	11/16/22 16:18 - 11/16/22 16:48 ¹
Total/NA	Analysis	6010B		5	686358	JJB	EET CHI	11/21/22 13:41
Total/NA	Prep	7471B			685493	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 09:27

Client Sample ID: 1401V3-10-B02 (0-5)

Lab Sample ID: 500-225245-3

Date Collected: 11/10/22 13:55

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685347	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
SPLP East	Prep	3010A			685727	LMB	EET CHI	11/17/22 20:01 - 11/17/22 20:31 ¹
SPLP East	Analysis	6010B		1	686463	JJB	EET CHI	11/21/22 17:41
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	3010A			685724	LMB	EET CHI	11/17/22 19:49 - 11/17/22 20:19 ¹
TCLP	Analysis	6010B		1	686271	JJB	EET CHI	11/18/22 15:26
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	3010A			685724	LMB	EET CHI	11/17/22 19:49 - 11/17/22 20:19 ¹
TCLP	Analysis	6020A		1	686064	FXG	EET CHI	11/18/22 22:44
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	7470A			685601	MJG	EET CHI	11/17/22 12:30 - 11/17/22 14:30 ¹
TCLP	Analysis	7470A		1	685896	MJG	EET CHI	11/18/22 11:21
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 16:14
Total/NA	Analysis	Moisture		1	685301	LWN	EET CHI	11/16/22 12:05

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Client Sample ID: 1401V3-10-B02 (0-5)

Lab Sample ID: 500-225245-3

Date Collected: 11/10/22 13:55

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684699	WRE	EET CHI	11/11/22 10:37
Total/NA	Analysis	8260B		1	685171	PMF	EET CHI	11/16/22 01:22
Total/NA	Prep	3541			685765	FRG	EET CHI	11/18/22 07:15 - 11/18/22 12:00 ¹
Total/NA	Analysis	8270D		1	687718	SS	EET CHI	12/01/22 21:18
Total/NA	Prep	3050B			685390	LMB	EET CHI	11/16/22 16:18 - 11/16/22 16:48 ¹
Total/NA	Analysis	6010B		1	686264	JJB	EET CHI	11/18/22 20:02
Total/NA	Prep	7471B			685493	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 09:29

Client Sample ID: 1401V3-10-B02 (5-9)

Lab Sample ID: 500-225245-4

Date Collected: 11/10/22 14:00

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685347	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
SPLP East	Prep	3010A			685727	LMB	EET CHI	11/17/22 20:01 - 11/17/22 20:31 ¹
SPLP East	Analysis	6010B		1	686463	JJB	EET CHI	11/21/22 17:44
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	3010A			685724	LMB	EET CHI	11/17/22 19:49 - 11/17/22 20:19 ¹
TCLP	Analysis	6010B		1	686271	JJB	EET CHI	11/18/22 15:29
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	3010A			685724	LMB	EET CHI	11/17/22 19:49 - 11/17/22 20:19 ¹
TCLP	Analysis	6020A		1	686064	FXG	EET CHI	11/18/22 22:47
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	7470A			685601	MJG	EET CHI	11/17/22 12:30 - 11/17/22 14:30 ¹
TCLP	Analysis	7470A		1	685896	MJG	EET CHI	11/18/22 11:24
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 16:16
Total/NA	Analysis	Moisture		1	685301	LWN	EET CHI	11/16/22 12:05

Client Sample ID: 1401V3-10-B02 (5-9)

Lab Sample ID: 500-225245-4

Date Collected: 11/10/22 14:00

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684699	WRE	EET CHI	11/11/22 10:37
Total/NA	Analysis	8260B		1	685171	PMF	EET CHI	11/16/22 01:48
Total/NA	Prep	3541			685765	FRG	EET CHI	11/18/22 07:15 - 11/18/22 12:00 ¹
Total/NA	Analysis	8270D		1	687718	SS	EET CHI	12/01/22 21:42
Total/NA	Prep	3050B			685390	LMB	EET CHI	11/16/22 16:18 - 11/16/22 16:48 ¹
Total/NA	Analysis	6010B		1	686264	JJB	EET CHI	11/18/22 20:06
Total/NA	Prep	3050B			685390	LMB	EET CHI	11/16/22 16:18 - 11/16/22 16:48 ¹
Total/NA	Analysis	6010B		5	686466	JJB	EET CHI	11/21/22 13:50
Total/NA	Prep	7471B			685493	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 09:31

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Client Sample ID: 1401V3-10-B03 (0-6)

Lab Sample ID: 500-225245-5

Date Collected: 11/10/22 14:15

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685347	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
SPLP East	Prep	3010A			685727	LMB	EET CHI	11/17/22 20:01 - 11/17/22 20:31 ¹
SPLP East	Analysis	6010B		1	686463	JJB	EET CHI	11/21/22 17:47
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	3010A			685724	LMB	EET CHI	11/17/22 19:49 - 11/17/22 20:19 ¹
TCLP	Analysis	6010B		1	686271	JJB	EET CHI	11/18/22 15:42
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	3010A			685724	LMB	EET CHI	11/17/22 19:49 - 11/17/22 20:19 ¹
TCLP	Analysis	6020A		1	686064	FXG	EET CHI	11/18/22 22:51
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	7470A			685601	MJG	EET CHI	11/17/22 12:30 - 11/17/22 14:30 ¹
TCLP	Analysis	7470A		1	685896	MJG	EET CHI	11/18/22 11:30
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 16:18
Total/NA	Analysis	Moisture		1	685301	LWN	EET CHI	11/16/22 12:05

Client Sample ID: 1401V3-10-B03 (0-6)

Lab Sample ID: 500-225245-5

Date Collected: 11/10/22 14:15

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684699	WRE	EET CHI	11/11/22 10:37
Total/NA	Analysis	8260B		1	685171	PMF	EET CHI	11/16/22 02:13
Total/NA	Prep	3541			685765	FRG	EET CHI	11/18/22 07:15 - 11/18/22 12:00 ¹
Total/NA	Analysis	8270D		1	687718	SS	EET CHI	12/01/22 22:06
Total/NA	Prep	3050B			685390	LMB	EET CHI	11/16/22 16:18 - 11/16/22 16:48 ¹
Total/NA	Analysis	6010B		1	686264	JJB	EET CHI	11/18/22 20:09
Total/NA	Prep	7471B			685493	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 09:37

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225245-1

Laboratory: Eurofins Chicago

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

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

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager D. TIEBOLT		Site Contact A. HAPPEL		Date 11/10/22		COC No 6	
Company Name WSP		Tel/Email		Lab Contact R. WRIGHT		Carrier		12 of 8 COCs	
Address 300 N. CASALLE		Analysis Turnaround Time							
City/State/Zip Chicago, IL		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS							
Phone		TAT if different from Below							
Fax		<input checked="" type="checkbox"/> 2 weeks							
Project Name 100T W013 Butterfield		<input type="checkbox"/> 1 week							
Site		<input type="checkbox"/> 2 days							
PO# W 31403035.013		<input type="checkbox"/> 1 day							
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sample Specific Notes
1	1401V3-10-B01(0-5)	11/11/22	1325	C	S	2	X	X	X
2	1401V3-10-B01(5-9)	11/10/22	1330	C	S	2	X	X	X
3	1401V3-10-B02(0-5)	11/10/22	1355	C	S	2	X	X	X
4	1401V3-10-B02(5-9)	11/10/22	1400	C	S	2	X	X	X
5	1401V3-10-B03(0-6)	11/10/22	1415	C	S	2	X	X	X
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample		<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months							
<input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown									
Special Instructions/GC Requirements & Comments									
* SLP Dependent on TCLP Results 5.5-757, 3.6-73.8, 4.3-745									
C's body Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd		Cor'd		Therm ID No	
Requested by Caitlyn Cooper		Company WSP		Date/Time 11/10/22 1035		Received by A. J. Elias		Company EETA	
Requested by A. J. Elias		Company EETA		Date/Time 11/10/22 1750		Received by Shirley		Company EETA	
Requested by		Company		Date/Time		Received in Laboratory by		Company	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225245-1

Login Number: 225245

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.7,4.5,3.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 365 & FAP 870 (Butterfield Road) Office Phone Number, if available: _____

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

22 W 140 Butterfield Road (ISGS #1401V3-11)

City: Glen Ellyn State: IL Zip Code: 60137

County: DuPage Township: Milton

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

Latitude: 41.83185 Longitude: -88.05679
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 142

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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



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

Analytical Data Summary
PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

Key to Data Tables

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

Criteria Qualifiers and Shading

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

PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

CONTAMINANTS OF CONCERN

SITE	ISGS #1401V3-11 (Vacant Lot)	Comparison Criteria					
		MACs			TACO		
BORING	1401V3-11-B02	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1401V3-11-B02 (0-2.5)						
MATRIX	Soil						
DEPTH (feet)	0-2.5						
pH	7.4						
PID (meter units)	--						
VOCs (None Detected)							
SVOCs (mg/kg)							
Acenaphthylene	0.0067 J	--	--	0.25	--	--	--
Anthracene	0.021 J	12,000	--	2.6	23,000	610,000	--
Benzo(a)anthracene	0.24	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	0.29 J †	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	0.47 J	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	0.13 J	--	--	4.4	--	--	--
Benzo(k)fluoranthene	0.16 J	9	--	8.1	9	1,700	--
Chrysene	0.29	88	--	11	88	17,000	--
Dibenzo(a,h)anthracene	0.030 J	0.09	0.42	1	0.42	17	--
Fluoranthene	0.33 J	3,100	--	28	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.12 J	0.9	1.6	5.8	1.6	170	--
Phenanthrene	0.068	--	--	15	--	--	--
Pyrene	0.51	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)							
Antimony	0.72 J	5	--	--	31	82	--
Arsenic	11	11.3	13	--	13	61	--
Barium	59	1,500	--	--	5,500	14,000	--
Beryllium	1.1	22	--	--	160	410	--
Boron	11	40	--	--	16,000	41,000	--
Cadmium	0.24	5.2	--	--	78	200	--
Calcium	25,000	--	--	--	--	--	--
Chromium	21	21	--	--	230	690	--
Cobalt	15	20	--	--	4,700	12,000	--
Copper	30	2,900	--	--	2,900	8,200	--
Iron	26,000 †m	15,000	15,900	--	--	--	--
Lead	20	107	--	--	400	700	--
Magnesium	15,000	325,000	--	--	--	730,000	--
Manganese	440	630	636	--	1,600	4,100	--
Mercury	0.038	0.89	--	--	10	0.1	--
Nickel	40	100	--	--	1,600	4,100	--
Potassium	2,800	--	--	--	--	--	--
Silver	ND U	4.4	--	--	390	1,000	--
Sodium	210	--	--	--	--	--	--
Thallium	ND U	2.6	--	--	6.3	160	--
Vanadium	27	550	--	--	550	1,400	--
Zinc	89	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)							
Barium	0.27 J	--	--	--	--	--	2
Boron	0.21 J	--	--	--	--	--	2
Iron	ND U	--	--	--	--	--	5
Manganese	0.28 L	--	--	--	--	--	0.15
Zinc	1.1	--	--	--	--	--	5
SPLP Metals (mg/L)							
Manganese	0.72 L	--	--	--	--	--	0.15

 **ANALYTICAL REPORT****PREPARED FOR**

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

Generated 11/28/2022 12:42:43 PM

JOB DESCRIPTION

IDOT - 196-002-WO 13 IL 56

JOB NUMBER

500-225242-1

Eurofins Chicago

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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11/28/2022 12:42:43 PM

Authorized for release by
Richard Wright, Senior Project Manager
Richard.Wright@et.eurofinsus.com
(708)746-0045

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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225242-1

Job ID: 500-225242-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225242-1

Receipt

The samples were received on 11/10/2022 5:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.8° C, 4.5° C and 5.7° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) for preparation batch 500-684697 and analytical batch 500-684930 recovered outside control limits for the following analytes: 1,1-Dichloroethene and Trichloroethene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. 1401V3-11-B01 (0-5) (500-225242-1), 1401V3-11-B01 (5-9) (500-225242-2) and 1401V3-11-B02 (0-2.5) (500-225242-3)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-686483 was outside the method criteria for the following analyte(s): Fluoranthene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-686697 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane], 2-Nitroaniline, Bis(2-chloroethyl)ether, Hexachlorocyclopentadiene, Phenol and Phenol-d5. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Internal standard responses for Perylene-d12 and Chrysene-d12 were outside of acceptance limits for the following samples: 1401V3-11-B02 (0-2.5) (500-225242-3). The samples were run a second time with concurring results. Results with the highest ISTD recovery have been reported.

Method 8270D: Perylene-d12 Internal standard (ISTD) response for the following sample was outside of acceptance limits. The sample was run a second time with concurring results. Results with the highest ISTD recovery have been reported 1401V3-11-B02 (0-2.5) (500-225242-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method 9045D: The following samples were received outside of holding time: 1401V3-11-B01 (5-9) (500-225242-2) and 1401V3-11-B02 (0-2.5) (500-225242-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225242-1

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Client Sample ID: 1401V3-11-B02 (0-2.5)

Lab Sample ID: 500-225242-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acenaphthylene	0.0067	J	0.040	0.0053	mg/Kg	1	✳		8270D	Total/NA
Phenanthrene	0.068		0.040	0.0056	mg/Kg	1	✳		8270D	Total/NA
Anthracene	0.021	J	0.040	0.0068	mg/Kg	1	✳		8270D	Total/NA
Fluoranthene	0.33		0.040	0.0075	mg/Kg	1	✳		8270D	Total/NA
Pyrene	0.51		0.040	0.0080	mg/Kg	1	✳		8270D	Total/NA
Benzo[a]anthracene	0.24		0.040	0.0054	mg/Kg	1	✳		8270D	Total/NA
Chrysene	0.29		0.040	0.011	mg/Kg	1	✳		8270D	Total/NA
Benzo[b]fluoranthene	0.47	*3	0.040	0.0087	mg/Kg	1	✳		8270D	Total/NA
Benzo[k]fluoranthene	0.16	*3	0.040	0.012	mg/Kg	1	✳		8270D	Total/NA
Benzo[a]pyrene	0.29	*3	0.040	0.0078	mg/Kg	1	✳		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.12	*3	0.040	0.010	mg/Kg	1	✳		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225242-1

Client Sample ID: 1401V3-11-B02 (0-2.5) (Continued)

Lab Sample ID: 500-225242-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenz(a,h)anthracene	0.030	J *3	0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.13	*3	0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.72	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		0.62	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	59		0.62	0.070	mg/Kg	1	☼	6010B	Total/NA
Beryllium	1.1		0.25	0.058	mg/Kg	1	☼	6010B	Total/NA
Boron	11		3.1	0.29	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.24	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Calcium	25000		62	10	mg/Kg	5	☼	6010B	Total/NA
Chromium	21		0.62	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.31	0.081	mg/Kg	1	☼	6010B	Total/NA
Copper	30		0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	26000		12	6.4	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.31	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	15000		6.2	3.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	440		0.62	0.089	mg/Kg	1	☼	6010B	Total/NA
Nickel	40		0.62	0.18	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		31	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	210		62	9.1	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.31	0.073	mg/Kg	1	☼	6010B	Total/NA
Zinc	89		1.2	0.54	mg/Kg	1	☼	6010B	Total/NA
Barium	0.27	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.21	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.28		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	1.1		0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.72		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.038		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	7.4		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225242-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010B	Metals (ICP)	SW846	EET CHI
6010B	SPLP Metals	SW846	EET CHI
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225242-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225242-3	1401V3-11-B02 (0-2.5)	Solid	11/10/22 10:30	11/10/22 17:50

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225242-1

Client Sample ID: 1401V3-11-B02 (0-2.5)

Lab Sample ID: 500-225242-3

Date Collected: 11/10/22 10:30

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 79.0

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0093	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
Benzene	<0.0021		0.0021	0.00055	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
Bromodichloromethane	<0.0021		0.0021	0.00044	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
Bromoform	<0.0021		0.0021	0.00063	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
Bromomethane	<0.0054		0.0054	0.0020	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
2-Butanone (MEK)	<0.0054		0.0054	0.0024	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
Carbon disulfide	<0.0054		0.0054	0.0011	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
Carbon tetrachloride	<0.0021		0.0021	0.00062	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
Chlorobenzene	<0.0021		0.0021	0.00079	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
Chloroethane	<0.0054		0.0054	0.0016	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
Chloroform	<0.0021		0.0021	0.00074	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
Chloromethane	<0.0054		0.0054	0.0022	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00060	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00065	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
Dibromochloromethane	<0.0021		0.0021	0.00070	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
1,1-Dichloroethane	<0.0021		0.0021	0.00073	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
1,2-Dichloroethane	<0.0054		0.0054	0.0017	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
1,1-Dichloroethene	<0.0021	*+	0.0021	0.00074	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
1,2-Dichloropropane	<0.0021		0.0021	0.00055	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00075	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
2-Hexanone	<0.0054		0.0054	0.0017	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
Methylene Chloride	<0.0054		0.0054	0.0021	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0016	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00063	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
Styrene	<0.0021		0.0021	0.00065	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00069	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
Tetrachloroethene	<0.0021		0.0021	0.00073	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
Toluene	<0.0021		0.0021	0.00054	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00095	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00075	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00072	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00092	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
Trichloroethene	<0.0021	*+	0.0021	0.00073	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
Vinyl acetate	<0.0054		0.0054	0.0019	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
Vinyl chloride	<0.0021		0.0021	0.00095	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1
Xylenes, Total	<0.0043		0.0043	0.00069	mg/Kg	☼	11/11/22 10:37	11/15/22 18:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		75 - 131	11/11/22 10:37	11/15/22 18:47	1
Dibromofluoromethane	107		75 - 126	11/11/22 10:37	11/15/22 18:47	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	11/11/22 10:37	11/15/22 18:47	1
Toluene-d8 (Surr)	99		75 - 124	11/11/22 10:37	11/15/22 18:47	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225242-1

Client Sample ID: 1401V3-11-B02 (0-2.5)

Lab Sample ID: 500-225242-3

Date Collected: 11/10/22 10:30

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 79.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.049	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
2-Methylnaphthalene	<0.082		0.082	0.0074	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Acenaphthylene	0.0067	J	0.040	0.0053	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
4-Nitrophenol	<0.82		0.82	0.38	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Phenanthrene	0.068		0.040	0.0056	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Anthracene	0.021	J	0.040	0.0068	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Fluoranthene	0.33		0.040	0.0075	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Pyrene	0.51		0.040	0.0080	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Benzo[a]anthracene	0.24		0.040	0.0054	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1

Euofins Chicago

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225242-1

Client Sample ID: 1401V3-11-B02 (0-2.5)

Lab Sample ID: 500-225242-3

Date Collected: 11/10/22 10:30

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 79.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.29		0.040	0.011	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Benzo[b]fluoranthene	0.47	*3	0.040	0.0087	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Benzo[k]fluoranthene	0.16	*3	0.040	0.012	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Benzo[a]pyrene	0.29	*3	0.040	0.0078	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Indeno[1,2,3-cd]pyrene	0.12	*3	0.040	0.010	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Dibenz(a,h)anthracene	0.030	J *3	0.040	0.0078	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Benzo[g,h,i]perylene	0.13	*3	0.040	0.013	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	11/17/22 13:45	11/22/22 16:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	86		31 - 166				11/17/22 13:45	11/22/22 16:34	1
Phenol-d5	72		30 - 153				11/17/22 13:45	11/22/22 16:34	1
Nitrobenzene-d5 (Surr)	90		37 - 147				11/17/22 13:45	11/22/22 16:34	1
2-Fluorobiphenyl (Surr)	94		43 - 145				11/17/22 13:45	11/22/22 16:34	1
2,4,6-Tribromophenol	74		31 - 143				11/17/22 13:45	11/22/22 16:34	1
Terphenyl-d14 (Surr)	151		42 - 157				11/17/22 13:45	11/22/22 16:34	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.72	J	1.2	0.24	mg/Kg	☼	11/16/22 16:18	11/21/22 18:52	1
Arsenic	11		0.62	0.21	mg/Kg	☼	11/16/22 16:18	11/21/22 18:52	1
Barium	59		0.62	0.070	mg/Kg	☼	11/16/22 16:18	11/21/22 18:52	1
Beryllium	1.1		0.25	0.058	mg/Kg	☼	11/16/22 16:18	11/21/22 18:52	1
Boron	11		3.1	0.29	mg/Kg	☼	11/16/22 16:18	11/21/22 18:52	1
Cadmium	0.24	B	0.12	0.022	mg/Kg	☼	11/16/22 16:18	11/21/22 18:52	1
Calcium	25000		62	10	mg/Kg	☼	11/16/22 16:18	11/22/22 12:29	5
Chromium	21		0.62	0.30	mg/Kg	☼	11/16/22 16:18	11/21/22 18:52	1
Cobalt	15		0.31	0.081	mg/Kg	☼	11/16/22 16:18	11/21/22 18:52	1
Copper	30		0.62	0.17	mg/Kg	☼	11/16/22 16:18	11/21/22 18:52	1
Iron	26000		12	6.4	mg/Kg	☼	11/16/22 16:18	11/21/22 18:52	1
Lead	20		0.31	0.14	mg/Kg	☼	11/16/22 16:18	11/21/22 18:52	1
Magnesium	15000		6.2	3.1	mg/Kg	☼	11/16/22 16:18	11/21/22 18:52	1
Manganese	440		0.62	0.089	mg/Kg	☼	11/16/22 16:18	11/21/22 18:52	1
Nickel	40		0.62	0.18	mg/Kg	☼	11/16/22 16:18	11/21/22 18:52	1
Potassium	2800		31	11	mg/Kg	☼	11/16/22 16:18	11/21/22 18:52	1
Selenium	<0.62		0.62	0.36	mg/Kg	☼	11/16/22 16:18	11/21/22 18:52	1
Silver	<0.31		0.31	0.079	mg/Kg	☼	11/16/22 16:18	11/21/22 18:52	1
Sodium	210		62	9.1	mg/Kg	☼	11/16/22 16:18	11/21/22 18:52	1
Thallium	<0.62		0.62	0.31	mg/Kg	☼	11/16/22 16:18	11/21/22 18:52	1
Vanadium	27		0.31	0.073	mg/Kg	☼	11/16/22 16:18	11/21/22 18:52	1
Zinc	89		1.2	0.54	mg/Kg	☼	11/16/22 16:18	11/21/22 18:52	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.27	J	0.50	0.050	mg/L		11/17/22 19:46	11/18/22 19:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/17/22 19:46	11/18/22 19:00	1
Boron	0.21	J	0.50	0.050	mg/L		11/17/22 19:46	11/18/22 19:00	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225242-1

Client Sample ID: 1401V3-11-B02 (0-2.5)

Lab Sample ID: 500-225242-3

Date Collected: 11/10/22 10:30

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 79.0

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/17/22 19:46	11/18/22 19:00	1
Chromium	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:00	1
Cobalt	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:00	1
Iron	<0.40		0.40	0.20	mg/L		11/17/22 19:46	11/18/22 19:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 19:46	11/18/22 19:00	1
Manganese	0.28		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:00	1
Nickel	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:00	1
Selenium	<0.050		0.050	0.020	mg/L		11/17/22 19:46	11/18/22 19:00	1
Silver	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:00	1
Zinc	1.1		0.50	0.020	mg/L		11/17/22 19:46	11/18/22 19:00	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.72		0.025	0.010	mg/L		11/17/22 20:00	11/22/22 12:45	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/17/22 19:46	11/18/22 20:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/17/22 19:46	11/18/22 20:51	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/18/22 14:55	11/21/22 10:19	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.019	0.0064	mg/Kg	☆	11/17/22 15:25	11/18/22 07:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.4		0.2	0.2	SU			11/21/22 12:13	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225242-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225242-1

GC/MS VOA

Prep Batch: 684697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225242-1	1401V3-11-B01 (0-5)	Total/NA	Solid	5035	
500-225242-2	1401V3-11-B01 (5-9)	Total/NA	Solid	5035	
500-225242-3	1401V3-11-B02 (0-2.5)	Total/NA	Solid	5035	

Analysis Batch: 684930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225242-1	1401V3-11-B01 (0-5)	Total/NA	Solid	8260B	684697
500-225242-2	1401V3-11-B01 (5-9)	Total/NA	Solid	8260B	684697
500-225242-3	1401V3-11-B02 (0-2.5)	Total/NA	Solid	8260B	684697
MB 500-684930/11	Method Blank	Total/NA	Solid	8260B	
LCS 500-684930/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-684930/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 685609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225242-1	1401V3-11-B01 (0-5)	Total/NA	Solid	3541	
500-225242-2	1401V3-11-B01 (5-9)	Total/NA	Solid	3541	
500-225242-3	1401V3-11-B02 (0-2.5)	Total/NA	Solid	3541	
MB 500-685609/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-685609/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 686483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225242-1	1401V3-11-B01 (0-5)	Total/NA	Solid	8270D	685609
500-225242-2	1401V3-11-B01 (5-9)	Total/NA	Solid	8270D	685609
500-225242-3	1401V3-11-B02 (0-2.5)	Total/NA	Solid	8270D	685609
MB 500-685609/1-A	Method Blank	Total/NA	Solid	8270D	685609
LCS 500-685609/2-A	Lab Control Sample	Total/NA	Solid	8270D	685609

Metals

Leach Batch: 685341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225242-1	1401V3-11-B01 (0-5)	SPLP East	Solid	1312	
500-225242-2	1401V3-11-B01 (5-9)	SPLP East	Solid	1312	
500-225242-3	1401V3-11-B02 (0-2.5)	SPLP East	Solid	1312	
LB 500-685341/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 685351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225242-1	1401V3-11-B01 (0-5)	TCLP	Solid	1311	
500-225242-2	1401V3-11-B01 (5-9)	TCLP	Solid	1311	
500-225242-3	1401V3-11-B02 (0-2.5)	TCLP	Solid	1311	
LB 500-685351/1-B	Method Blank	TCLP	Solid	1311	
LB 500-685351/1-C	Method Blank	TCLP	Solid	1311	
500-225242-3 MS	1401V3-11-B02 (0-2.5)	TCLP	Solid	1311	
500-225242-3 DU	1401V3-11-B02 (0-2.5)	TCLP	Solid	1311	

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225242-1

Metals

Prep Batch: 685390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225242-1	1401V3-11-B01 (0-5)	Total/NA	Solid	3050B	
500-225242-2	1401V3-11-B01 (5-9)	Total/NA	Solid	3050B	
500-225242-3	1401V3-11-B02 (0-2.5)	Total/NA	Solid	3050B	
MB 500-685390/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-685390/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 685449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225242-1	1401V3-11-B01 (0-5)	Total/NA	Solid	7471B	
500-225242-2	1401V3-11-B01 (5-9)	Total/NA	Solid	7471B	
500-225242-3	1401V3-11-B02 (0-2.5)	Total/NA	Solid	7471B	
MB 500-685449/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-685449/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 685723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225242-1	1401V3-11-B01 (0-5)	TCLP	Solid	3010A	685351
500-225242-2	1401V3-11-B01 (5-9)	TCLP	Solid	3010A	685351
500-225242-3	1401V3-11-B02 (0-2.5)	TCLP	Solid	3010A	685351
LB 500-685351/1-B	Method Blank	TCLP	Solid	3010A	685351
LCS 500-685723/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-225242-3 MS	1401V3-11-B02 (0-2.5)	TCLP	Solid	3010A	685351
500-225242-3 DU	1401V3-11-B02 (0-2.5)	TCLP	Solid	3010A	685351

Prep Batch: 685726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225242-1	1401V3-11-B01 (0-5)	SPLP East	Solid	3010A	685341
500-225242-2	1401V3-11-B01 (5-9)	SPLP East	Solid	3010A	685341
500-225242-3	1401V3-11-B02 (0-2.5)	SPLP East	Solid	3010A	685341
LB 500-685341/1-B	Method Blank	SPLP East	Solid	3010A	685341
LCS 500-685726/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 685886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225242-1	1401V3-11-B01 (0-5)	Total/NA	Solid	7471B	685449
500-225242-2	1401V3-11-B01 (5-9)	Total/NA	Solid	7471B	685449
500-225242-3	1401V3-11-B02 (0-2.5)	Total/NA	Solid	7471B	685449
MB 500-685449/12-A	Method Blank	Total/NA	Solid	7471B	685449
LCS 500-685449/13-A	Lab Control Sample	Total/NA	Solid	7471B	685449

Prep Batch: 685917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225242-1	1401V3-11-B01 (0-5)	TCLP	Solid	7470A	685351
500-225242-2	1401V3-11-B01 (5-9)	TCLP	Solid	7470A	685351
500-225242-3	1401V3-11-B02 (0-2.5)	TCLP	Solid	7470A	685351
LB 500-685351/1-C	Method Blank	TCLP	Solid	7470A	685351
MB 500-685917/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-685917/14-A	Lab Control Sample	Total/NA	Solid	7470A	
500-225242-3 MS	1401V3-11-B02 (0-2.5)	TCLP	Solid	7470A	685351
500-225242-3 DU	1401V3-11-B02 (0-2.5)	TCLP	Solid	7470A	685351

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225242-1

Metals

Analysis Batch: 686064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225242-1	1401V3-11-B01 (0-5)	TCLP	Solid	6020A	685723
500-225242-2	1401V3-11-B01 (5-9)	TCLP	Solid	6020A	685723
500-225242-3	1401V3-11-B02 (0-2.5)	TCLP	Solid	6020A	685723
LB 500-685351/1-B	Method Blank	TCLP	Solid	6020A	685723
LCS 500-685723/2-A	Lab Control Sample	Total/NA	Solid	6020A	685723
500-225242-3 MS	1401V3-11-B02 (0-2.5)	TCLP	Solid	6020A	685723
500-225242-3 DU	1401V3-11-B02 (0-2.5)	TCLP	Solid	6020A	685723

Analysis Batch: 686272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225242-1	1401V3-11-B01 (0-5)	TCLP	Solid	6010B	685723
500-225242-2	1401V3-11-B01 (5-9)	TCLP	Solid	6010B	685723
500-225242-3	1401V3-11-B02 (0-2.5)	TCLP	Solid	6010B	685723
LB 500-685351/1-B	Method Blank	TCLP	Solid	6010B	685723
LCS 500-685723/2-A	Lab Control Sample	Total/NA	Solid	6010B	685723
500-225242-3 MS	1401V3-11-B02 (0-2.5)	TCLP	Solid	6010B	685723
500-225242-3 DU	1401V3-11-B02 (0-2.5)	TCLP	Solid	6010B	685723

Analysis Batch: 686339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225242-1	1401V3-11-B01 (0-5)	TCLP	Solid	7470A	685917
500-225242-2	1401V3-11-B01 (5-9)	TCLP	Solid	7470A	685917
500-225242-3	1401V3-11-B02 (0-2.5)	TCLP	Solid	7470A	685917
LB 500-685351/1-C	Method Blank	TCLP	Solid	7470A	685917
MB 500-685917/12-A	Method Blank	Total/NA	Solid	7470A	685917
LCS 500-685917/14-A	Lab Control Sample	Total/NA	Solid	7470A	685917
500-225242-3 MS	1401V3-11-B02 (0-2.5)	TCLP	Solid	7470A	685917
500-225242-3 DU	1401V3-11-B02 (0-2.5)	TCLP	Solid	7470A	685917

Analysis Batch: 686358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225242-1	1401V3-11-B01 (0-5)	TCLP	Solid	6010B	685723

Analysis Batch: 686463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225242-1	1401V3-11-B01 (0-5)	Total/NA	Solid	6010B	685390
500-225242-2	1401V3-11-B01 (5-9)	Total/NA	Solid	6010B	685390
500-225242-3	1401V3-11-B02 (0-2.5)	Total/NA	Solid	6010B	685390
MB 500-685390/1-A	Method Blank	Total/NA	Solid	6010B	685390
LCS 500-685390/2-A	Lab Control Sample	Total/NA	Solid	6010B	685390

Analysis Batch: 686571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225242-1	1401V3-11-B01 (0-5)	SPLP East	Solid	6010B	685726
500-225242-2	1401V3-11-B01 (5-9)	SPLP East	Solid	6010B	685726
500-225242-3	1401V3-11-B02 (0-2.5)	SPLP East	Solid	6010B	685726
500-225242-3	1401V3-11-B02 (0-2.5)	Total/NA	Solid	6010B	685390
LB 500-685341/1-B	Method Blank	SPLP East	Solid	6010B	685726
LCS 500-685726/2-A	Lab Control Sample	Total/NA	Solid	6010B	685726

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225242-1

General Chemistry

Analysis Batch: 685301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225242-1	1401V3-11-B01 (0-5)	Total/NA	Solid	Moisture	
500-225242-2	1401V3-11-B01 (5-9)	Total/NA	Solid	Moisture	
500-225242-3	1401V3-11-B02 (0-2.5)	Total/NA	Solid	Moisture	

Analysis Batch: 685546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225242-1	1401V3-11-B01 (0-5)	Total/NA	Solid	9045D	
LCS 500-685546/5	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-685546/6	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-225242-1 DU	1401V3-11-B01 (0-5)	Total/NA	Solid	9045D	

Analysis Batch: 686223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225242-2	1401V3-11-B01 (5-9)	Total/NA	Solid	9045D	
500-225242-3	1401V3-11-B02 (0-2.5)	Total/NA	Solid	9045D	
LCS 500-686223/5	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-686223/6	Lab Control Sample Dup	Total/NA	Solid	9045D	

Surrogate Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225242-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(75-131)	(75-126)	(70-134)	(75-124)
500-225242-1	1401V3-11-B01 (0-5)	104	109	108	96
500-225242-2	1401V3-11-B01 (5-9)	101	106	103	95
500-225242-3	1401V3-11-B02 (0-2.5)	110	107	105	99
LCS 500-684930/4	Lab Control Sample	113	101	97	105
LCSD 500-684930/5	Lab Control Sample Dup	111	103	101	103
MB 500-684930/11	Method Blank	106	107	102	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP	PHL	NBZ	FBP	TBP	TPHL
		(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-225242-1	1401V3-11-B01 (0-5)	99	87	103	110	98	126
500-225242-2	1401V3-11-B01 (5-9)	91	78	100	101	84	119
500-225242-3	1401V3-11-B02 (0-2.5)	86	72	90	94	74	151
LCS 500-685609/2-A	Lab Control Sample	93	87	100	109	92	114
MB 500-685609/1-A	Method Blank	85	68	87	90	83	102

Surrogate Legend

2FP = 2-Fluorophenol

PHL = Phenol-d5

NBZ = Nitrobenzene-d5 (Surr)

FBP = 2-Fluorobiphenyl (Surr)

TBP = 2,4,6-Tribromophenol

TPHL = Terphenyl-d14 (Surr)

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225242-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-684930/11
Matrix: Solid
Analysis Batch: 684930

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			11/15/22 15:07	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			11/15/22 15:07	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			11/15/22 15:07	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			11/15/22 15:07	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			11/15/22 15:07	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			11/15/22 15:07	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			11/15/22 15:07	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			11/15/22 15:07	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			11/15/22 15:07	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			11/15/22 15:07	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			11/15/22 15:07	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			11/15/22 15:07	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			11/15/22 15:07	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			11/15/22 15:07	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			11/15/22 15:07	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			11/15/22 15:07	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			11/15/22 15:07	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			11/15/22 15:07	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			11/15/22 15:07	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			11/15/22 15:07	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			11/15/22 15:07	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			11/15/22 15:07	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			11/15/22 15:07	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			11/15/22 15:07	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			11/15/22 15:07	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			11/15/22 15:07	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			11/15/22 15:07	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/15/22 15:07	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			11/15/22 15:07	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			11/15/22 15:07	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			11/15/22 15:07	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			11/15/22 15:07	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			11/15/22 15:07	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/15/22 15:07	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			11/15/22 15:07	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			11/15/22 15:07	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			11/15/22 15:07	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	106		75 - 131		11/15/22 15:07	1
Dibromofluoromethane	107		75 - 126		11/15/22 15:07	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		11/15/22 15:07	1
Toluene-d8 (Surr)	99		75 - 124		11/15/22 15:07	1

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225242-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-684930/4
Matrix: Solid
Analysis Batch: 684930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0400	0.0280		mg/Kg		70	40 - 150
Benzene	0.0400	0.0430		mg/Kg		107	70 - 125
Bromodichloromethane	0.0400	0.0434		mg/Kg		108	67 - 129
Bromoform	0.0400	0.0420		mg/Kg		105	68 - 136
Bromomethane	0.0400	0.0458		mg/Kg		114	70 - 130
2-Butanone (MEK)	0.0400	0.0265		mg/Kg		66	47 - 138
Carbon disulfide	0.0400	0.0435		mg/Kg		109	70 - 129
Carbon tetrachloride	0.0400	0.0453		mg/Kg		113	75 - 125
Chlorobenzene	0.0400	0.0463		mg/Kg		116	50 - 150
Chloroethane	0.0400	0.0473		mg/Kg		118	75 - 125
Chloroform	0.0400	0.0416		mg/Kg		104	57 - 135
Chloromethane	0.0400	0.0411		mg/Kg		103	70 - 125
cis-1,2-Dichloroethene	0.0400	0.0432		mg/Kg		108	70 - 125
cis-1,3-Dichloropropene	0.0400	0.0433		mg/Kg		108	70 - 125
Dibromochloromethane	0.0400	0.0436		mg/Kg		109	69 - 125
1,1-Dichloroethane	0.0400	0.0423		mg/Kg		106	70 - 125
1,2-Dichloroethane	0.0400	0.0433		mg/Kg		108	70 - 130
1,1-Dichloroethene	0.0400	0.0482	*+	mg/Kg		121	70 - 120
1,2-Dichloropropane	0.0400	0.0407		mg/Kg		102	70 - 125
Ethylbenzene	0.0400	0.0425		mg/Kg		106	61 - 136
2-Hexanone	0.0400	0.0318		mg/Kg		79	48 - 146
Methylene Chloride	0.0400	0.0421		mg/Kg		105	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0400	0.0280		mg/Kg		70	50 - 148
Methyl tert-butyl ether	0.0400	0.0380		mg/Kg		95	50 - 140
Styrene	0.0400	0.0430		mg/Kg		108	70 - 125
1,1,2,2-Tetrachloroethane	0.0400	0.0406		mg/Kg		102	70 - 122
Tetrachloroethene	0.0400	0.0471		mg/Kg		118	70 - 124
Toluene	0.0400	0.0417		mg/Kg		104	70 - 125
trans-1,2-Dichloroethene	0.0400	0.0474		mg/Kg		118	70 - 125
trans-1,3-Dichloropropene	0.0400	0.0451		mg/Kg		113	70 - 125
1,1,1-Trichloroethane	0.0400	0.0424		mg/Kg		106	70 - 128
1,1,2-Trichloroethane	0.0400	0.0432		mg/Kg		108	70 - 125
Trichloroethene	0.0400	0.0507	*+	mg/Kg		127	70 - 125
Vinyl acetate	0.0400	0.0295		mg/Kg		74	40 - 153
Vinyl chloride	0.0400	0.0458		mg/Kg		115	70 - 125
Xylenes, Total	0.0800	0.0783		mg/Kg		98	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	113		75 - 131
Dibromofluoromethane	101		75 - 126
1,2-Dichloroethane-d4 (Surr)	97		70 - 134
Toluene-d8 (Surr)	105		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225242-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-684930/5
Matrix: Solid
Analysis Batch: 684930

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.0400	0.0363		mg/Kg		91	40 - 150	26	30
Benzene	0.0400	0.0417		mg/Kg		104	70 - 125	3	30
Bromodichloromethane	0.0400	0.0426		mg/Kg		106	67 - 129	2	30
Bromoform	0.0400	0.0426		mg/Kg		107	68 - 136	1	30
Bromomethane	0.0400	0.0387		mg/Kg		97	70 - 130	17	30
2-Butanone (MEK)	0.0400	0.0313		mg/Kg		78	47 - 138	17	30
Carbon disulfide	0.0400	0.0419		mg/Kg		105	70 - 129	4	30
Carbon tetrachloride	0.0400	0.0427		mg/Kg		107	75 - 125	6	30
Chlorobenzene	0.0400	0.0441		mg/Kg		110	50 - 150	5	30
Chloroethane	0.0400	0.0402		mg/Kg		100	75 - 125	16	30
Chloroform	0.0400	0.0403		mg/Kg		101	57 - 135	3	30
Chloromethane	0.0400	0.0338		mg/Kg		85	70 - 125	19	30
cis-1,2-Dichloroethene	0.0400	0.0421		mg/Kg		105	70 - 125	2	30
cis-1,3-Dichloropropene	0.0400	0.0428		mg/Kg		107	70 - 125	1	30
Dibromochloromethane	0.0400	0.0426		mg/Kg		106	69 - 125	2	30
1,1-Dichloroethane	0.0400	0.0409		mg/Kg		102	70 - 125	3	30
1,2-Dichloroethane	0.0400	0.0430		mg/Kg		107	70 - 130	1	30
1,1-Dichloroethene	0.0400	0.0451		mg/Kg		113	70 - 120	7	30
1,2-Dichloropropane	0.0400	0.0390		mg/Kg		98	70 - 125	4	30
Ethylbenzene	0.0400	0.0403		mg/Kg		101	61 - 136	5	30
2-Hexanone	0.0400	0.0328		mg/Kg		82	48 - 146	3	30
Methylene Chloride	0.0400	0.0409		mg/Kg		102	70 - 126	3	30
4-Methyl-2-pentanone (MIBK)	0.0400	0.0289		mg/Kg		72	50 - 148	3	30
Methyl tert-butyl ether	0.0400	0.0371		mg/Kg		93	50 - 140	2	30
Styrene	0.0400	0.0421		mg/Kg		105	70 - 125	2	30
1,1,2,2-Tetrachloroethane	0.0400	0.0391		mg/Kg		98	70 - 122	4	30
Tetrachloroethene	0.0400	0.0446		mg/Kg		112	70 - 124	5	30
Toluene	0.0400	0.0394		mg/Kg		99	70 - 125	6	30
trans-1,2-Dichloroethene	0.0400	0.0454		mg/Kg		114	70 - 125	4	30
trans-1,3-Dichloropropene	0.0400	0.0447		mg/Kg		112	70 - 125	1	30
1,1,1-Trichloroethane	0.0400	0.0402		mg/Kg		100	70 - 128	5	30
1,1,2-Trichloroethane	0.0400	0.0419		mg/Kg		105	70 - 125	3	30
Trichloroethene	0.0400	0.0487		mg/Kg		122	70 - 125	4	30
Vinyl acetate	0.0400	0.0303		mg/Kg		76	40 - 153	3	30
Vinyl chloride	0.0400	0.0384		mg/Kg		96	70 - 125	18	30
Xylenes, Total	0.0800	0.0750		mg/Kg		94	53 - 147	4	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	111		75 - 131
Dibromofluoromethane	103		75 - 126
1,2-Dichloroethane-d4 (Surr)	101		70 - 134
Toluene-d8 (Surr)	103		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225242-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-685609/1-A
Matrix: Solid
Analysis Batch: 686483

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685609

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Isophorone	<0.17		0.17	0.037	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Carbazole	<0.17		0.17	0.083	mg/Kg		11/17/22 13:45	11/22/22 15:06	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225242-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-685609/1-A
Matrix: Solid
Analysis Batch: 686483

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685609

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		11/17/22 13:45	11/22/22 15:06	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		11/17/22 13:45	11/22/22 15:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	85		31 - 166	11/17/22 13:45	11/22/22 15:06	1
Phenol-d5	68		30 - 153	11/17/22 13:45	11/22/22 15:06	1
Nitrobenzene-d5 (Surr)	87		37 - 147	11/17/22 13:45	11/22/22 15:06	1
2-Fluorobiphenyl (Surr)	90		43 - 145	11/17/22 13:45	11/22/22 15:06	1
2,4,6-Tribromophenol	83		31 - 143	11/17/22 13:45	11/22/22 15:06	1
Terphenyl-d14 (Surr)	102		42 - 157	11/17/22 13:45	11/22/22 15:06	1

Lab Sample ID: LCS 500-685609/2-A
Matrix: Solid
Analysis Batch: 686483

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685609

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.11		mg/Kg		84	56 - 122
Bis(2-chloroethyl)ether	1.33	1.07		mg/Kg		80	55 - 111
1,3-Dichlorobenzene	1.33	1.19		mg/Kg		89	65 - 124
1,4-Dichlorobenzene	1.33	1.17		mg/Kg		87	61 - 110
1,2-Dichlorobenzene	1.33	1.23		mg/Kg		92	62 - 110
2-Methylphenol	1.33	1.23		mg/Kg		92	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.27		mg/Kg		96	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.29		mg/Kg		97	56 - 118
Hexachloroethane	1.33	1.10		mg/Kg		82	60 - 114
2-Chlorophenol	1.33	1.12		mg/Kg		84	64 - 110
Nitrobenzene	1.33	1.27		mg/Kg		95	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.24		mg/Kg		93	60 - 112
1,2,4-Trichlorobenzene	1.33	1.32		mg/Kg		99	66 - 117
Isophorone	1.33	1.29		mg/Kg		97	55 - 110
2,4-Dimethylphenol	1.33	1.29		mg/Kg		97	60 - 110
Hexachlorobutadiene	1.33	1.28		mg/Kg		96	56 - 120
Naphthalene	1.33	1.23		mg/Kg		92	63 - 110
2,4-Dichlorophenol	1.33	1.24		mg/Kg		93	58 - 120

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225242-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-685609/2-A
Matrix: Solid
Analysis Batch: 686483

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685609

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloroaniline	1.33	1.07		mg/Kg		80	30 - 150
2,4,6-Trichlorophenol	1.33	1.38		mg/Kg		104	57 - 120
2,4,5-Trichlorophenol	1.33	1.35		mg/Kg		101	50 - 120
Hexachlorocyclopentadiene	1.33	0.985		mg/Kg		74	10 - 133
2-Methylnaphthalene	1.33	1.24		mg/Kg		93	69 - 112
2-Nitroaniline	1.33	1.27		mg/Kg		95	57 - 124
2-Chloronaphthalene	1.33	1.28		mg/Kg		96	69 - 114
4-Chloro-3-methylphenol	1.33	1.26		mg/Kg		95	65 - 122
2,6-Dinitrotoluene	1.33	1.35		mg/Kg		101	70 - 123
2-Nitrophenol	1.33	1.29		mg/Kg		97	60 - 120
3-Nitroaniline	1.33	0.850		mg/Kg		64	40 - 122
Dimethyl phthalate	1.33	1.36		mg/Kg		102	69 - 116
2,4-Dinitrophenol	2.67	0.858		mg/Kg		32	10 - 100
Acenaphthylene	1.33	1.27		mg/Kg		95	68 - 120
2,4-Dinitrotoluene	1.33	1.37		mg/Kg		103	69 - 124
Acenaphthene	1.33	1.29		mg/Kg		97	65 - 124
Dibenzofuran	1.33	1.31		mg/Kg		98	66 - 115
4-Nitrophenol	2.67	2.39		mg/Kg		90	30 - 122
Fluorene	1.33	1.31		mg/Kg		99	62 - 120
4-Nitroaniline	1.33	1.08		mg/Kg		81	60 - 160
4-Bromophenyl phenyl ether	1.33	1.34		mg/Kg		100	68 - 118
Hexachlorobenzene	1.33	1.34		mg/Kg		100	63 - 124
Diethyl phthalate	1.33	1.35		mg/Kg		102	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.36		mg/Kg		102	62 - 119
Pentachlorophenol	2.67	1.36		mg/Kg		51	13 - 112
N-Nitrosodiphenylamine	1.33	1.23		mg/Kg		92	65 - 112
4,6-Dinitro-2-methylphenol	2.67	1.25		mg/Kg		47	10 - 110
Phenanthrene	1.33	1.25		mg/Kg		94	62 - 120
Anthracene	1.33	1.27		mg/Kg		95	70 - 114
Carbazole	1.33	1.27		mg/Kg		95	65 - 142
Di-n-butyl phthalate	1.33	1.24		mg/Kg		93	65 - 120
Fluoranthene	1.33	1.37		mg/Kg		103	62 - 120
Pyrene	1.33	1.43		mg/Kg		107	61 - 128
Butyl benzyl phthalate	1.33	1.25		mg/Kg		94	71 - 129
Benzo[a]anthracene	1.33	1.36		mg/Kg		102	67 - 122
Chrysene	1.33	1.31		mg/Kg		98	63 - 120
3,3'-Dichlorobenzidine	1.33	1.08		mg/Kg		81	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.28		mg/Kg		96	72 - 131
Di-n-octyl phthalate	1.33	1.26		mg/Kg		95	68 - 134
Benzo[b]fluoranthene	1.33	1.30		mg/Kg		97	69 - 129
Benzo[k]fluoranthene	1.33	1.26		mg/Kg		95	68 - 127
Benzo[a]pyrene	1.33	1.30		mg/Kg		97	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.34		mg/Kg		100	68 - 130
Dibenz(a,h)anthracene	1.33	1.27		mg/Kg		95	64 - 131
Benzo[g,h,i]perylene	1.33	1.23		mg/Kg		92	72 - 131
3 & 4 Methylphenol	1.33	1.24		mg/Kg		93	57 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225242-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-685609/2-A
Matrix: Solid
Analysis Batch: 686483

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685609

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	93		31 - 166
Phenol-d5	87		30 - 153
Nitrobenzene-d5 (Surr)	100		37 - 147
2-Fluorobiphenyl (Surr)	109		43 - 145
2,4,6-Tribromophenol	92		31 - 143
Terphenyl-d14 (Surr)	114		42 - 157

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-685390/1-A
Matrix: Solid
Analysis Batch: 686463

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685390

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		11/16/22 16:18	11/21/22 18:16	1
Arsenic	<1.0		1.0	0.34	mg/Kg		11/16/22 16:18	11/21/22 18:16	1
Barium	<1.0		1.0	0.11	mg/Kg		11/16/22 16:18	11/21/22 18:16	1
Beryllium	<0.40		0.40	0.093	mg/Kg		11/16/22 16:18	11/21/22 18:16	1
Boron	<5.0		5.0	0.47	mg/Kg		11/16/22 16:18	11/21/22 18:16	1
Cadmium	0.0380	J	0.20	0.036	mg/Kg		11/16/22 16:18	11/21/22 18:16	1
Calcium	<20		20	3.4	mg/Kg		11/16/22 16:18	11/21/22 18:16	1
Chromium	<1.0		1.0	0.50	mg/Kg		11/16/22 16:18	11/21/22 18:16	1
Cobalt	<0.50		0.50	0.13	mg/Kg		11/16/22 16:18	11/21/22 18:16	1
Copper	<1.0		1.0	0.28	mg/Kg		11/16/22 16:18	11/21/22 18:16	1
Iron	<20		20	10	mg/Kg		11/16/22 16:18	11/21/22 18:16	1
Lead	<0.50		0.50	0.23	mg/Kg		11/16/22 16:18	11/21/22 18:16	1
Magnesium	<10		10	5.0	mg/Kg		11/16/22 16:18	11/21/22 18:16	1
Manganese	<1.0		1.0	0.15	mg/Kg		11/16/22 16:18	11/21/22 18:16	1
Nickel	<1.0		1.0	0.29	mg/Kg		11/16/22 16:18	11/21/22 18:16	1
Potassium	<50		50	18	mg/Kg		11/16/22 16:18	11/21/22 18:16	1
Selenium	<1.0		1.0	0.59	mg/Kg		11/16/22 16:18	11/21/22 18:16	1
Silver	<0.50		0.50	0.13	mg/Kg		11/16/22 16:18	11/21/22 18:16	1
Sodium	<100		100	15	mg/Kg		11/16/22 16:18	11/21/22 18:16	1
Thallium	<1.0		1.0	0.50	mg/Kg		11/16/22 16:18	11/21/22 18:16	1
Vanadium	<0.50		0.50	0.12	mg/Kg		11/16/22 16:18	11/21/22 18:16	1
Zinc	<2.0		2.0	0.88	mg/Kg		11/16/22 16:18	11/21/22 18:16	1

Lab Sample ID: LCS 500-685390/2-A
Matrix: Solid
Analysis Batch: 686463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685390

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec	Limits
		Result	Qualifier					
Antimony	50.0	47.2		mg/Kg		94		80 - 120
Arsenic	10.0	9.47		mg/Kg		95		80 - 120
Barium	200	206		mg/Kg		103		80 - 120
Beryllium	5.00	4.91		mg/Kg		98		80 - 120
Boron	100	87.3		mg/Kg		87		80 - 120
Cadmium	5.00	4.79		mg/Kg		96		80 - 120
Calcium	1000	942		mg/Kg		94		80 - 120

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225242-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-685390/2-A
Matrix: Solid
Analysis Batch: 686463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685390

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	20.0	19.7		mg/Kg		99	80 - 120
Cobalt	50.0	50.6		mg/Kg		101	80 - 120
Copper	25.0	25.1		mg/Kg		101	80 - 120
Iron	100	109		mg/Kg		109	80 - 120
Lead	10.0	9.31		mg/Kg		93	80 - 120
Magnesium	1000	967		mg/Kg		97	80 - 120
Manganese	50.0	49.3		mg/Kg		99	80 - 120
Nickel	50.0	49.0		mg/Kg		98	80 - 120
Potassium	1000	1020		mg/Kg		102	80 - 120
Selenium	10.0	8.62		mg/Kg		86	80 - 120
Silver	5.00	4.34		mg/Kg		87	80 - 120
Sodium	1000	1040		mg/Kg		104	80 - 120
Thallium	10.0	9.34		mg/Kg		93	80 - 120
Vanadium	50.0	50.1		mg/Kg		100	80 - 120
Zinc	50.0	48.9		mg/Kg		98	80 - 120

Lab Sample ID: LCS 500-685723/2-A
Matrix: Solid
Analysis Batch: 686272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685723

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.500		mg/L		100	80 - 120
Beryllium	0.0500	0.0478		mg/L		96	80 - 120
Boron	1.00	0.907		mg/L		91	80 - 120
Cadmium	0.0500	0.0510		mg/L		102	80 - 120
Chromium	0.200	0.189		mg/L		95	80 - 120
Cobalt	0.500	0.495		mg/L		99	80 - 120
Iron	1.00	1.03		mg/L		103	80 - 120
Lead	0.100	0.0956		mg/L		96	80 - 120
Manganese	0.500	0.479		mg/L		96	80 - 120
Nickel	0.500	0.484		mg/L		97	80 - 120
Selenium	0.100	0.110		mg/L		110	80 - 120
Silver	0.0500	0.0519		mg/L		104	80 - 120
Zinc	0.500	0.506		mg/L		101	80 - 120

Lab Sample ID: LCS 500-685726/2-A
Matrix: Solid
Analysis Batch: 686571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685726

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	0.946		mg/L		95	80 - 120
Lead	0.100	0.0894		mg/L		89	80 - 120
Manganese	0.500	0.465		mg/L		93	80 - 120
Nickel	0.500	0.465		mg/L		93	80 - 120

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225242-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-685351/1-B
Matrix: Solid
Analysis Batch: 686272

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685723

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		11/17/22 19:46	11/18/22 18:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/17/22 19:46	11/18/22 18:28	1
Boron	<0.50		0.50	0.050	mg/L		11/17/22 19:46	11/18/22 18:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/17/22 19:46	11/18/22 18:28	1
Chromium	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 18:28	1
Cobalt	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 18:28	1
Iron	<0.40		0.40	0.20	mg/L		11/17/22 19:46	11/18/22 18:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 19:46	11/18/22 18:28	1
Manganese	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 18:28	1
Nickel	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 18:28	1
Selenium	<0.050		0.050	0.020	mg/L		11/17/22 19:46	11/18/22 18:28	1
Silver	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 18:28	1
Zinc	<0.50		0.50	0.020	mg/L		11/17/22 19:46	11/18/22 18:28	1

Lab Sample ID: 500-225242-3 MS
Matrix: Solid
Analysis Batch: 686272

Client Sample ID: 1401V3-11-B02 (0-2.5)
Prep Type: TCLP
Prep Batch: 685723

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
Barium	0.27	J	0.500	0.784		mg/L		103	75 - 125
Beryllium	<0.0040		0.0500	0.0506		mg/L		101	75 - 125
Boron	0.21	J	1.00	1.15		mg/L		94	75 - 125
Cadmium	<0.0050		0.0500	0.0536		mg/L		107	75 - 125
Chromium	<0.025		0.200	0.190		mg/L		95	75 - 125
Cobalt	<0.025		0.500	0.508		mg/L		102	75 - 125
Iron	<0.40		1.00	1.14		mg/L		114	75 - 125
Lead	<0.0075		0.100	0.0956		mg/L		96	75 - 125
Manganese	0.28		0.500	0.774		mg/L		99	75 - 125
Nickel	<0.025		0.500	0.498		mg/L		100	75 - 125
Selenium	<0.050		0.100	0.111		mg/L		111	75 - 125
Silver	<0.025		0.0500	0.0540		mg/L		108	75 - 125
Zinc	1.1		0.500	1.58		mg/L		105	75 - 125

Lab Sample ID: 500-225242-3 DU
Matrix: Solid
Analysis Batch: 686272

Client Sample ID: 1401V3-11-B02 (0-2.5)
Prep Type: TCLP
Prep Batch: 685723

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	Limit
			Result	Qualifier				
Barium	0.27	J	0.266	J	mg/L		1	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	0.21	J	0.204	J	mg/L		0.5	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	<0.025		<0.025		mg/L		NC	20
Iron	<0.40		<0.40		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	0.28		0.274		mg/L		2	20
Nickel	<0.025		<0.025		mg/L		NC	20
Selenium	<0.050		<0.050		mg/L		NC	20

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225242-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-225242-3 DU
Matrix: Solid
Analysis Batch: 686272

Client Sample ID: 1401V3-11-B02 (0-2.5)
Prep Type: TCLP
Prep Batch: 685723

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	1.1		1.05		mg/L		0.5	20

Lab Sample ID: LB 500-685341/1-B
Matrix: Solid
Analysis Batch: 686571

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 685726

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		11/17/22 20:00	11/22/22 12:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 20:00	11/22/22 12:33	1
Manganese	<0.025		0.025	0.010	mg/L		11/17/22 20:00	11/22/22 12:33	1
Nickel	<0.025		0.025	0.010	mg/L		11/17/22 20:00	11/22/22 12:33	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-685723/2-A
Matrix: Solid
Analysis Batch: 686064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685723

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.476		mg/L		95	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: LB 500-685351/1-B
Matrix: Solid
Analysis Batch: 686064

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685723

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/17/22 19:46	11/18/22 20:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/17/22 19:46	11/18/22 20:23	1

Lab Sample ID: 500-225242-3 MS
Matrix: Solid
Analysis Batch: 686064

Client Sample ID: 1401V3-11-B02 (0-2.5)
Prep Type: TCLP
Prep Batch: 685723

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.0060		0.500	0.493		mg/L		99	75 - 125
Thallium	<0.0020		0.100	0.106		mg/L		106	75 - 125

Lab Sample ID: 500-225242-3 DU
Matrix: Solid
Analysis Batch: 686064

Client Sample ID: 1401V3-11-B02 (0-2.5)
Prep Type: TCLP
Prep Batch: 685723

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225242-1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-685917/12-A
Matrix: Solid
Analysis Batch: 686339

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685917

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/18/22 14:55	11/21/22 09:56	1

Lab Sample ID: LCS 500-685917/14-A
Matrix: Solid
Analysis Batch: 686339

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685917

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00199		mg/L		100	80 - 120

Lab Sample ID: LB 500-685351/1-C
Matrix: Solid
Analysis Batch: 686339

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685917

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/18/22 14:55	11/21/22 09:58	1

Lab Sample ID: 500-225242-3 MS
Matrix: Solid
Analysis Batch: 686339

Client Sample ID: 1401V3-11-B02 (0-2.5)
Prep Type: TCLP
Prep Batch: 685917

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.00109		mg/L		109	75 - 125

Lab Sample ID: 500-225242-3 DU
Matrix: Solid
Analysis Batch: 686339

Client Sample ID: 1401V3-11-B02 (0-2.5)
Prep Type: TCLP
Prep Batch: 685917

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-685449/12-A
Matrix: Solid
Analysis Batch: 685886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685449

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		11/17/22 15:25	11/18/22 06:41	1

Lab Sample ID: LCS 500-685449/13-A
Matrix: Solid
Analysis Batch: 685886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685449

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.165		mg/Kg		100	80 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225242-1

Method: 9045D - pH

Lab Sample ID: 500-225242-1 DU
Matrix: Solid
Analysis Batch: 685546

Client Sample ID: 1401V3-11-B01 (0-5)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.2		7.2		SU		0.1	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225242-1

Client Sample ID: 1401V3-11-B01 (0-5)

Lab Sample ID: 500-225242-1

Date Collected: 11/10/22 10:15

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685341	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
SPLP East	Prep	3010A			685726	LMB	EET CHI	11/17/22 20:00 - 11/17/22 20:30 ¹
SPLP East	Analysis	6010B		1	686571	JJB	EET CHI	11/22/22 12:39
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6010B		1	686272	JJB	EET CHI	11/18/22 18:54
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6010B		2	686358	JJB	EET CHI	11/21/22 12:53
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6020A		1	686064	FXG	EET CHI	11/18/22 20:44
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	7470A			685917	MJG	EET CHI	11/18/22 14:55 - 11/18/22 16:55 ¹
TCLP	Analysis	7470A		1	686339	MJG	EET CHI	11/21/22 10:15
Total/NA	Analysis	9045D		1	685546	EH	EET CHI	11/17/22 12:35 - 11/17/22 12:40 ¹
Total/NA	Analysis	Moisture		1	685301	LWN	EET CHI	11/16/22 12:05

Client Sample ID: 1401V3-11-B01 (0-5)

Lab Sample ID: 500-225242-1

Date Collected: 11/10/22 10:15

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 76.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684697	WRE	EET CHI	11/11/22 10:37
Total/NA	Analysis	8260B		1	684930	W1T	EET CHI	11/15/22 17:59
Total/NA	Prep	3541			685609	EK	EET CHI	11/17/22 13:45 - 11/17/22 17:00 ¹
Total/NA	Analysis	8270D		1	686483	SS	EET CHI	11/22/22 15:50
Total/NA	Prep	3050B			685390	LMB	EET CHI	11/16/22 16:18 - 11/16/22 16:48 ¹
Total/NA	Analysis	6010B		1	686463	JJB	EET CHI	11/21/22 18:45
Total/NA	Prep	7471B			685449	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 07:32

Client Sample ID: 1401V3-11-B01 (5-9)

Lab Sample ID: 500-225242-2

Date Collected: 11/10/22 10:20

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685341	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
SPLP East	Prep	3010A			685726	LMB	EET CHI	11/17/22 20:00 - 11/17/22 20:30 ¹
SPLP East	Analysis	6010B		1	686571	JJB	EET CHI	11/22/22 12:42
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6010B		1	686272	JJB	EET CHI	11/18/22 18:57
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6020A		1	686064	FXG	EET CHI	11/18/22 20:47

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225242-1

Client Sample ID: 1401V3-11-B01 (5-9)

Lab Sample ID: 500-225242-2

Date Collected: 11/10/22 10:20

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	7470A			685917	MJG	EET CHI	11/18/22 14:55 - 11/18/22 16:55 ¹
TCLP	Analysis	7470A		1	686339	MJG	EET CHI	11/21/22 10:17
Total/NA	Analysis	9045D		1	686223	EH	EET CHI	11/21/22 11:56 - 11/21/22 12:13 ¹
Total/NA	Analysis	Moisture		1	685301	LWN	EET CHI	11/16/22 12:05

Client Sample ID: 1401V3-11-B01 (5-9)

Lab Sample ID: 500-225242-2

Date Collected: 11/10/22 10:20

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684697	WRE	EET CHI	11/11/22 10:37
Total/NA	Analysis	8260B		1	684930	W1T	EET CHI	11/15/22 18:23
Total/NA	Prep	3541			685609	EK	EET CHI	11/17/22 13:45 - 11/17/22 17:00 ¹
Total/NA	Analysis	8270D		1	686483	SS	EET CHI	11/22/22 16:12
Total/NA	Prep	3050B			685390	LMB	EET CHI	11/16/22 16:18 - 11/16/22 16:48 ¹
Total/NA	Analysis	6010B		1	686463	JJB	EET CHI	11/21/22 18:49
Total/NA	Prep	7471B			685449	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 07:34

Client Sample ID: 1401V3-11-B02 (0-2.5)

Lab Sample ID: 500-225242-3

Date Collected: 11/10/22 10:30

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685341	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
SPLP East	Prep	3010A			685726	LMB	EET CHI	11/17/22 20:00 - 11/17/22 20:30 ¹
SPLP East	Analysis	6010B		1	686571	JJB	EET CHI	11/22/22 12:45
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6010B		1	686272	JJB	EET CHI	11/18/22 19:00
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6020A		1	686064	FXG	EET CHI	11/18/22 20:51
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	7470A			685917	MJG	EET CHI	11/18/22 14:55 - 11/18/22 16:55 ¹
TCLP	Analysis	7470A		1	686339	MJG	EET CHI	11/21/22 10:19
Total/NA	Analysis	9045D		1	686223	EH	EET CHI	11/21/22 12:13 - 11/21/22 12:30 ¹
Total/NA	Analysis	Moisture		1	685301	LWN	EET CHI	11/16/22 12:05

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225242-1

Client Sample ID: 1401V3-11-B02 (0-2.5)

Lab Sample ID: 500-225242-3

Date Collected: 11/10/22 10:30

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 79.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684697	WRE	EET CHI	11/11/22 10:37
Total/NA	Analysis	8260B		1	684930	W1T	EET CHI	11/15/22 18:47
Total/NA	Prep	3541			685609	EK	EET CHI	11/17/22 13:45 - 11/17/22 17:00 ¹
Total/NA	Analysis	8270D		1	686483	SS	EET CHI	11/22/22 16:34
Total/NA	Prep	3050B			685390	LMB	EET CHI	11/16/22 16:18 - 11/16/22 16:48 ¹
Total/NA	Analysis	6010B		1	686463	JJB	EET CHI	11/21/22 18:52
Total/NA	Prep	3050B			685390	LMB	EET CHI	11/16/22 16:18 - 11/16/22 16:48 ¹
Total/NA	Analysis	6010B		5	686571	JJB	EET CHI	11/22/22 12:29
Total/NA	Prep	7471B			685449	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 07:36

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225242-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

1

2

3

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Chain of Custody Record

522932


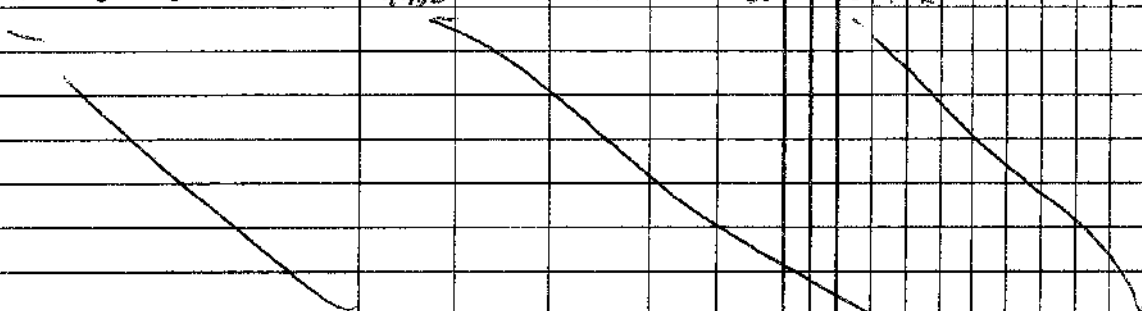


Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact Company Name: WSP Address: 30 N. LaSalle City/State/Zip: Chicago, IL Phone: _____ Fax: _____ Project Name: DET (W013 Butterfield Rd) Site: _____ P O #: PN 31403035.013		Project Manager: D. Tibbault Tel/Email: _____ Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT If different from Below _____ <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Contact: A. HAPPEL Date: 11/10/22 Lab Contact: P. WRIGHT Carrier: _____ COC No: 3 3 of 8 COCs		Sampler: _____ For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____ Job / SDG No: 500-225242								
		 500-225242 COC												
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PH	% Solids	TOTAL METALS	VOCs	SVOCs	TCLP	Sample Specific Notes
1 1401V3-11-B01 (0-5)	11/10/22	1015	C	S	2			X	X	X	X	X	X	
2 1401V3-11-B01 (5-9)	11/10/22	1020	C	S	2			X	X	X	X	X	X	
1401V3-11-B02 (0-5)	11/10/22	1030	C	S	2			X	X	X	X	X	X	CMC
1401V3-11-EMC														
3 1401V3-11-B02 (0-2.5)	11/10/22	1030	C	S	2			X	X	X	X	X	X	
														
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)								
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample						<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months								
Special Instructions/QC Requirements & Comments: * SPLP dependent on TCLP results						5.5-7.7, 4.3-7.4, 3.6-7.8								
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No								
Relinquished by: Christina Cooper		Company: WSP		Date/Time: 11/10/22 1635		Received by: A. J. Ellman		Company: EETA		Date/Time: 11/10/22 1635				
Relinquished by: A. J. Ellman		Company: EETA		Date/Time: 11/10/22 1750		Received by: _____		Company: _____		Date/Time: _____				
Relinquished by: _____		Company: _____		Date/Time: _____		Received in Laboratory by: Chris Jacob		Company: EETA		Date/Time: 11/10/22 1750				

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225242-1

Login Number: 225242

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.7,4.5,3.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 365 & FAP 870 (Butterfield Road) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

22 W 151 Butterfield Road (ISGS #1401V3-12)

City: Glen Ellyn State: IL Zip Code: 60137

County: DuPage Township: Milton

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.83053 Longitude: -88.05572
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): _____ Approximate End Date (mm/dd/yyyy): _____

Estimated Volume of debris (cu. Yd.): 645

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov



This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Analytical Data Summary
PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

Key to Data Tables

- MAC = Maximum Allowable Concentration of Chemical Constituent in Uncontaminated Soil Used as Fill Material At Regulated Fill Operations
- mg/kg = Milligrams per kilogram.
- mg/L = Milligrams per liter.
- MSA = Metropolitan Statistical Area
- TACO = Tiered Approach to Corrective Action Objectives
- TCLP = Toxicity Characteristic Leaching Procedure.
- SCGIER = Soil Component of the Groundwater Ingestion Exposure Route
- SPLP = Synthetic Precipitation Leaching Procedure.
- ND = Not detected.
- NA = Not analyzed or not applicable.
- J = Estimated value.
- U = Analyte was analyzed for but not detected.
- PID = Photoionization detector.
- = No PID readings detected above background (within instrument margin of error).

Criteria Qualifiers and Shading

- # = pH is less than 6.25 or greater than 9.0 standard units.
- † = Concentration exceeds the most stringent MAC.
- m = Concentration exceeds the MAC for an MSA.
- * = Concentration exceeds the MAC for Chicago corporate limits.
- c = Concentration exceeds a TACO Tier 1 RO for the Construction Worker Exposure Route.
- r = Concentration exceeds a TACO Tier 1 soil RO for residential properties.
- L = The detected TCLP/SPLP concentration exceeds the TACO Tier 1 RO for the SCGIER.
-  = Concentration exceeds the most stringent MAC, but is below the MAC for an MSA.
-  = Concentration exceeds applicable comparison criteria.

PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

CONTAMINANTS OF CONCERN

SITE	ISGS #1401V3-12 (Starbucks)	Comparison Criteria					
		MACs			TACO		
BORING	1401V3-12-B01	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1401V3-12-B01 (0-5)						
MATRIX	Soil						
DEPTH (feet)	0-5						
pH	7.9						
PID (meter units)	--						
VOCs (None Detected)							
SVOCs (mg/kg)							
Acenaphthylene	0.013 J	--	--	0.25	--	--	--
Anthracene	0.021 J	12,000	--	2.6	23,000	610,000	--
Benzo(a)anthracene	0.045	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	0.067 J	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	0.12 J	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	0.038 J	--	--	4.4	--	--	--
Benzo(k)fluoranthene	0.041 J	9	--	8.1	9	1,700	--
Chrysene	0.073	88	--	11	88	17,000	--
Fluoranthene	0.12	3,100	--	28	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.029 J	0.9	1.6	5.8	1.6	170	--
Phenanthrene	0.048	--	--	15	--	--	--
Pyrene	0.14 J	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)							
Antimony	0.28 J	5	--	--	31	82	--
Arsenic	9.2	11.3	13	--	13	61	--
Barium	66	1,500	--	--	5,500	14,000	--
Beryllium	0.73	22	--	--	160	410	--
Boron	5.7	40	--	--	16,000	41,000	--
Calcium	43,000	--	--	--	--	--	--
Chromium	14	21	--	--	230	690	--
Cobalt	9.6	20	--	--	4,700	12,000	--
Copper	21	2,900	--	--	2,900	8,200	--
Iron	19,000 †m	15,000	15,900	--	--	--	--
Lead	100	107	--	--	400	700	--
Magnesium	21,000	325,000	--	--	--	730,000	--
Manganese	450	630	636	--	1,600	4,100	--
Mercury	0.038	0.89	--	--	10	0.1	--
Nickel	21	100	--	--	1,600	4,100	--
Potassium	1,300	--	--	--	--	--	--
Selenium	0.56 J	1.3	--	--	390	1,000	--
Silver	0.30	4.4	--	--	390	1,000	--
Sodium	940	--	--	--	--	--	--
Vanadium	20	550	--	--	550	1,400	--
Zinc	76	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)							
Barium	0.45 J	--	--	--	--	--	2
Boron	0.056 J	--	--	--	--	--	2
Iron	ND U	--	--	--	--	--	5
Manganese	0.28 L	--	--	--	--	--	0.15
SPLP Metals (mg/L)							
Manganese	0.89 L	--	--	--	--	--	0.15



ANALYTICAL REPORT

PREPARED FOR

Attn: Dean Tiebot
WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602
Generated 12/6/2022 10:28:44 AM

JOB DESCRIPTION

IDOT - 196-002-WO 13 IL 56

JOB NUMBER

500-225246-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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Authorization



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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225246-1

Job ID: 500-225246-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225246-1

Receipt

The samples were received on 11/10/2022 5:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.8° C, 4.5° C and 5.7° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) for preparation batch 500-684699 and analytical batch 500-685171 recovered outside control limits for the following analytes: Vinyl chloride, Bromomethane, and Chloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. 1401V3-12-B01 (0-5) (500-225246-1) and 1401V3-12-B02 (0-5) (500-225246-2)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-686786 was outside the method criteria for the following analyte(s): Indeno[1,2,3-cd]pyrene, Dibenz(a,h)anthracene, Benzo[g,h,i]perylene, Hexachlorocyclopentadiene, Di-n-octyl phthalate and Phenol-d5. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-688215 was outside the method criteria for the following analyte(s): Pentachlorophenol, Hexachlorocyclopentadiene and Di-n-octyl phthalate. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-688215 was outside the method criteria for the following analyte(s): Pyrene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Internal standard responses for Perylene-d12 was outside of acceptance limits for the following samples: 1401V3-12-B01 (0-5) (500-225246-1), 1401V3-12-B02 (0-5) (500-225246-2) and 1401V3-12-B02 (5-9) (500-225246-3). The samples were run a second time with concurring results. Results with the highest ISTD recovery have been reported.

Method 8270D: The following samples contained one base surrogate outside acceptance limits: 1401V3-12-B01 (0-5) (500-225246-1), 1401V3-12-B02 (0-5) (500-225246-2) and 1401V3-12-B02 (5-9) (500-225246-3). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method 8270D: The following sample was diluted due to the nature of the sample matrix: 1401V3-12-B02 (0-5) (500-225246-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225246-1

Client Sample ID: 1401V3-12-B01 (0-5)

Lab Sample ID: 500-225246-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.013	J	0.038	0.0051	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.048		0.038	0.0054	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.021	J	0.038	0.0064	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.12		0.038	0.0071	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.14		0.038	0.0076	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.045		0.038	0.0052	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.073		0.038	0.010	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.12	*3	0.038	0.0083	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.041	*3	0.038	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.067	*3	0.038	0.0075	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.029	J *3	0.038	0.010	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.038	*3	0.038	0.012	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.28	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	9.2		0.57	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	66		0.57	0.065	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.73		0.23	0.053	mg/Kg	1	✳	6010B	Total/NA
Boron	5.7	B	2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.37	B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	43000		57	9.6	mg/Kg	5	✳	6010B	Total/NA
Chromium	14		0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	9.6		0.28	0.074	mg/Kg	1	✳	6010B	Total/NA
Copper	21		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	19000		11	5.9	mg/Kg	1	✳	6010B	Total/NA
Lead	100		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	21000		5.7	2.8	mg/Kg	1	✳	6010B	Total/NA
Manganese	450		0.57	0.082	mg/Kg	1	✳	6010B	Total/NA
Nickel	21		0.57	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	1300		28	10	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.56	J	0.57	0.33	mg/Kg	1	✳	6010B	Total/NA
Silver	0.30		0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Sodium	940		57	8.4	mg/Kg	1	✳	6010B	Total/NA
Vanadium	20		0.28	0.067	mg/Kg	1	✳	6010B	Total/NA
Zinc	76		1.1	0.50	mg/Kg	1	✳	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.056	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.28		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.89		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.038	B	0.018	0.0061	mg/Kg	1	✳	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225246-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010B	Metals (ICP)	SW846	EET CHI
6010B	SPLP Metals	SW846	EET CHI
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225246-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225246-1	1401V3-12-B01 (0-5)	Solid	11/10/22 14:35	11/10/22 17:50

1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225246-1

Client Sample ID: 1401V3-12-B01 (0-5)

Lab Sample ID: 500-225246-1

Date Collected: 11/10/22 14:35

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.9

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.039		0.039	0.017	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
Benzene	<0.0039		0.0039	0.0010	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
Bromodichloromethane	<0.0039		0.0039	0.00080	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
Bromoform	<0.0039		0.0039	0.0011	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
Bromomethane	<0.0098	+	0.0098	0.0037	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
2-Butanone (MEK)	<0.0098		0.0098	0.0044	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
Carbon disulfide	<0.0098		0.0098	0.0020	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
Carbon tetrachloride	<0.0039		0.0039	0.0011	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
Chlorobenzene	<0.0039		0.0039	0.0015	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
Chloroethane	<0.0098		0.0098	0.0029	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
Chloroform	<0.0039		0.0039	0.0014	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
Chloromethane	<0.0098	+	0.0098	0.0039	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.0011	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.0012	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
Dibromochloromethane	<0.0039		0.0039	0.0013	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
1,1-Dichloroethane	<0.0039		0.0039	0.0013	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
1,2-Dichloroethane	<0.0098		0.0098	0.0031	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
1,1-Dichloroethene	<0.0039		0.0039	0.0014	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
1,3-Dichloropropane, Total	<0.0039		0.0039	0.0014	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
Ethylbenzene	<0.0039		0.0039	0.0019	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
2-Hexanone	<0.0098		0.0098	0.0031	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
Methylene Chloride	<0.0098		0.0098	0.0039	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
4-Methyl-2-pentanone (MIBK)	<0.0098		0.0098	0.0029	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
Methyl tert-butyl ether	<0.0039		0.0039	0.0012	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
Styrene	<0.0039		0.0039	0.0012	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.0013	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
Tetrachloroethene	<0.0039		0.0039	0.0013	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
Toluene	<0.0039		0.0039	0.00099	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.0017	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.0014	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.0013	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.0017	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
Trichloroethene	<0.0039		0.0039	0.0013	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
Vinyl acetate	<0.0098		0.0098	0.0034	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
Vinyl chloride	<0.0039	+	0.0039	0.0017	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1
Xylenes, Total	<0.0079		0.0079	0.0013	mg/Kg	☼	11/11/22 10:37	11/16/22 02:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 131	11/11/22 10:37	11/16/22 02:38	1
Dibromofluoromethane	90		75 - 126	11/11/22 10:37	11/16/22 02:38	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	11/11/22 10:37	11/16/22 02:38	1
Toluene-d8 (Surr)	86		75 - 124	11/11/22 10:37	11/16/22 02:38	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1

Eurofins Chicago

Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225246-1

Client Sample ID: 1401V3-12-B01 (0-5)

Lab Sample ID: 500-225246-1

Date Collected: 11/10/22 14:35

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Acenaphthylene	0.013	J	0.038	0.0051	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Phenanthrene	0.048		0.038	0.0054	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Anthracene	0.021	J	0.038	0.0064	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Fluoranthene	0.12		0.038	0.0071	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Pyrene	0.14		0.038	0.0076	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Benzo[a]anthracene	0.045		0.038	0.0052	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225246-1

Client Sample ID: 1401V3-12-B01 (0-5)

Lab Sample ID: 500-225246-1

Date Collected: 11/10/22 14:35

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.073		0.038	0.010	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Benzo[b]fluoranthene	0.12	*3	0.038	0.0083	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Benzo[k]fluoranthene	0.041	*3	0.038	0.011	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Benzo[a]pyrene	0.067	*3	0.038	0.0075	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Indeno[1,2,3-cd]pyrene	0.029	J *3	0.038	0.010	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Dibenz(a,h)anthracene	<0.038	*3	0.038	0.0074	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
Benzo[g,h,i]perylene	0.038	*3	0.038	0.012	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	11/20/22 08:53	12/05/22 15:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	106		31 - 166	11/20/22 08:53	12/05/22 15:04	1
Phenol-d5	101		30 - 153	11/20/22 08:53	12/05/22 15:04	1
Nitrobenzene-d5 (Surr)	76		37 - 147	11/20/22 08:53	12/05/22 15:04	1
2-Fluorobiphenyl (Surr)	80		43 - 145	11/20/22 08:53	12/05/22 15:04	1
2,4,6-Tribromophenol	86		31 - 143	11/20/22 08:53	12/05/22 15:04	1
Terphenyl-d14 (Surr)	207	S1+	42 - 157	11/20/22 08:53	12/05/22 15:04	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.28	J	1.1	0.22	mg/Kg	☼	11/17/22 17:44	11/21/22 12:30	1
Arsenic	9.2		0.57	0.19	mg/Kg	☼	11/17/22 17:44	11/21/22 12:30	1
Barium	66		0.57	0.065	mg/Kg	☼	11/17/22 17:44	11/21/22 12:30	1
Beryllium	0.73		0.23	0.053	mg/Kg	☼	11/17/22 17:44	11/21/22 12:30	1
Boron	5.7	B	2.8	0.26	mg/Kg	☼	11/17/22 17:44	11/21/22 12:30	1
Cadmium	0.37	B	0.11	0.020	mg/Kg	☼	11/17/22 17:44	11/21/22 12:30	1
Calcium	43000		57	9.6	mg/Kg	☼	11/17/22 17:44	11/22/22 11:41	5
Chromium	14		0.57	0.28	mg/Kg	☼	11/17/22 17:44	11/21/22 12:30	1
Cobalt	9.6		0.28	0.074	mg/Kg	☼	11/17/22 17:44	11/21/22 12:30	1
Copper	21		0.57	0.16	mg/Kg	☼	11/17/22 17:44	11/21/22 12:30	1
Iron	19000		11	5.9	mg/Kg	☼	11/17/22 17:44	11/21/22 12:30	1
Lead	100		0.28	0.13	mg/Kg	☼	11/17/22 17:44	11/21/22 12:30	1
Magnesium	21000		5.7	2.8	mg/Kg	☼	11/17/22 17:44	11/21/22 12:30	1
Manganese	450		0.57	0.082	mg/Kg	☼	11/17/22 17:44	11/21/22 12:30	1
Nickel	21		0.57	0.17	mg/Kg	☼	11/17/22 17:44	11/21/22 12:30	1
Potassium	1300		28	10	mg/Kg	☼	11/17/22 17:44	11/21/22 12:30	1
Selenium	0.56	J	0.57	0.33	mg/Kg	☼	11/17/22 17:44	11/21/22 12:30	1
Silver	0.30		0.28	0.073	mg/Kg	☼	11/17/22 17:44	11/21/22 12:30	1
Sodium	940		57	8.4	mg/Kg	☼	11/17/22 17:44	11/21/22 12:30	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	11/17/22 17:44	11/21/22 12:30	1
Vanadium	20		0.28	0.067	mg/Kg	☼	11/17/22 17:44	11/21/22 12:30	1
Zinc	76		1.1	0.50	mg/Kg	☼	11/17/22 17:44	11/21/22 12:30	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.45	J	0.50	0.050	mg/L		11/17/22 19:49	11/18/22 15:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/17/22 19:49	11/18/22 15:45	1
Boron	0.056	J	0.50	0.050	mg/L		11/17/22 19:49	11/18/22 15:45	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225246-1

Client Sample ID: 1401V3-12-B01 (0-5)

Lab Sample ID: 500-225246-1

Date Collected: 11/10/22 14:35

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.9

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/17/22 19:49	11/18/22 15:45	1
Chromium	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 15:45	1
Cobalt	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 15:45	1
Iron	<0.40		0.40	0.20	mg/L		11/17/22 19:49	11/18/22 15:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 19:49	11/18/22 15:45	1
Manganese	0.28		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 15:45	1
Nickel	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 15:45	1
Selenium	<0.050		0.050	0.020	mg/L		11/17/22 19:49	11/18/22 15:45	1
Silver	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 15:45	1
Zinc	<0.50		0.50	0.020	mg/L		11/17/22 19:49	11/18/22 15:45	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.89		0.025	0.010	mg/L		11/17/22 20:01	11/21/22 17:50	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/17/22 19:49	11/18/22 22:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/17/22 19:49	11/18/22 22:54	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/17/22 12:30	11/18/22 11:32	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038	B	0.018	0.0061	mg/Kg	☼	11/17/22 15:25	11/18/22 09:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.9		0.2	0.2	SU			11/17/22 16:38	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225246-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225246-1

GC/MS VOA

Prep Batch: 684699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225246-1	1401V3-12-B01 (0-5)	Total/NA	Solid	5035	
500-225246-2	1401V3-12-B02 (0-5)	Total/NA	Solid	5035	
500-225246-3	1401V3-12-B02 (5-9)	Total/NA	Solid	5035	

Analysis Batch: 685171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225246-1	1401V3-12-B01 (0-5)	Total/NA	Solid	8260B	684699
500-225246-2	1401V3-12-B02 (0-5)	Total/NA	Solid	8260B	684699
MB 500-685171/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-685171/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-685171/29	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 685183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225246-3	1401V3-12-B02 (5-9)	Total/NA	Solid	8260B	684699
MB 500-685183/8	Method Blank	Total/NA	Solid	8260B	
LCS 500-685183/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-685183/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 686105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225246-1	1401V3-12-B01 (0-5)	Total/NA	Solid	3541	
500-225246-2	1401V3-12-B02 (0-5)	Total/NA	Solid	3541	
500-225246-3	1401V3-12-B02 (5-9)	Total/NA	Solid	3541	
MB 500-686105/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-686105/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 686786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-686105/1-A	Method Blank	Total/NA	Solid	8270D	686105
LCS 500-686105/2-A	Lab Control Sample	Total/NA	Solid	8270D	686105

Analysis Batch: 688215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225246-1	1401V3-12-B01 (0-5)	Total/NA	Solid	8270D	686105
500-225246-2	1401V3-12-B02 (0-5)	Total/NA	Solid	8270D	686105
500-225246-3	1401V3-12-B02 (5-9)	Total/NA	Solid	8270D	686105

Metals

Leach Batch: 685347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225246-1	1401V3-12-B01 (0-5)	SPLP East	Solid	1312	
500-225246-2	1401V3-12-B02 (0-5)	SPLP East	Solid	1312	
500-225246-3	1401V3-12-B02 (5-9)	SPLP East	Solid	1312	
LB 500-685347/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 685355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225246-1	1401V3-12-B01 (0-5)	TCLP	Solid	1311	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225246-1

Metals (Continued)

Leach Batch: 685355 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225246-2	1401V3-12-B02 (0-5)	TCLP	Solid	1311	
500-225246-3	1401V3-12-B02 (5-9)	TCLP	Solid	1311	
LB 500-685355/1-B	Method Blank	TCLP	Solid	1311	
LB 500-685355/2-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 685493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225246-1	1401V3-12-B01 (0-5)	Total/NA	Solid	7471B	
500-225246-2	1401V3-12-B02 (0-5)	Total/NA	Solid	7471B	
500-225246-3	1401V3-12-B02 (5-9)	Total/NA	Solid	7471B	
MB 500-685493/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-685493/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 685601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225246-1	1401V3-12-B01 (0-5)	TCLP	Solid	7470A	685355
500-225246-2	1401V3-12-B02 (0-5)	TCLP	Solid	7470A	685355
500-225246-3	1401V3-12-B02 (5-9)	TCLP	Solid	7470A	685355
LB 500-685355/2-B	Method Blank	TCLP	Solid	7470A	685355
MB 500-685601/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-685601/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 685701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225246-1	1401V3-12-B01 (0-5)	Total/NA	Solid	3050B	
500-225246-2	1401V3-12-B02 (0-5)	Total/NA	Solid	3050B	
500-225246-3	1401V3-12-B02 (5-9)	Total/NA	Solid	3050B	
MB 500-685701/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-685701/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 685724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225246-1	1401V3-12-B01 (0-5)	TCLP	Solid	3010A	685355
500-225246-2	1401V3-12-B02 (0-5)	TCLP	Solid	3010A	685355
500-225246-3	1401V3-12-B02 (5-9)	TCLP	Solid	3010A	685355
LB 500-685355/1-B	Method Blank	TCLP	Solid	3010A	685355
LCS 500-685724/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 685727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225246-1	1401V3-12-B01 (0-5)	SPLP East	Solid	3010A	685347
500-225246-2	1401V3-12-B02 (0-5)	SPLP East	Solid	3010A	685347
500-225246-3	1401V3-12-B02 (5-9)	SPLP East	Solid	3010A	685347
LB 500-685347/1-B	Method Blank	SPLP East	Solid	3010A	685347
LCS 500-685727/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 685886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225246-1	1401V3-12-B01 (0-5)	Total/NA	Solid	7471B	685493
500-225246-2	1401V3-12-B02 (0-5)	Total/NA	Solid	7471B	685493
500-225246-3	1401V3-12-B02 (5-9)	Total/NA	Solid	7471B	685493

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225246-1

Metals (Continued)

Analysis Batch: 685886 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-685493/12-A	Method Blank	Total/NA	Solid	7471B	685493
LCS 500-685493/13-A	Lab Control Sample	Total/NA	Solid	7471B	685493

Analysis Batch: 685896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225246-1	1401V3-12-B01 (0-5)	TCLP	Solid	7470A	685601
500-225246-2	1401V3-12-B02 (0-5)	TCLP	Solid	7470A	685601
500-225246-3	1401V3-12-B02 (5-9)	TCLP	Solid	7470A	685601
LB 500-685355/2-B	Method Blank	TCLP	Solid	7470A	685601
MB 500-685601/12-A	Method Blank	Total/NA	Solid	7470A	685601
LCS 500-685601/14-A	Lab Control Sample	Total/NA	Solid	7470A	685601

Analysis Batch: 686064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225246-1	1401V3-12-B01 (0-5)	TCLP	Solid	6020A	685724
500-225246-2	1401V3-12-B02 (0-5)	TCLP	Solid	6020A	685724
500-225246-3	1401V3-12-B02 (5-9)	TCLP	Solid	6020A	685724
LB 500-685355/1-B	Method Blank	TCLP	Solid	6020A	685724
LCS 500-685724/2-A	Lab Control Sample	Total/NA	Solid	6020A	685724

Analysis Batch: 686271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225246-1	1401V3-12-B01 (0-5)	TCLP	Solid	6010B	685724
500-225246-2	1401V3-12-B02 (0-5)	TCLP	Solid	6010B	685724
500-225246-3	1401V3-12-B02 (5-9)	TCLP	Solid	6010B	685724
LB 500-685355/1-B	Method Blank	TCLP	Solid	6010B	685724
LCS 500-685724/2-A	Lab Control Sample	Total/NA	Solid	6010B	685724

Analysis Batch: 686365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225246-1	1401V3-12-B01 (0-5)	Total/NA	Solid	6010B	685701
500-225246-2	1401V3-12-B02 (0-5)	Total/NA	Solid	6010B	685701
500-225246-3	1401V3-12-B02 (5-9)	Total/NA	Solid	6010B	685701
MB 500-685701/1-A	Method Blank	Total/NA	Solid	6010B	685701
LCS 500-685701/2-A	Lab Control Sample	Total/NA	Solid	6010B	685701

Analysis Batch: 686463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225246-1	1401V3-12-B01 (0-5)	SPLP East	Solid	6010B	685727
500-225246-2	1401V3-12-B02 (0-5)	SPLP East	Solid	6010B	685727
500-225246-3	1401V3-12-B02 (5-9)	SPLP East	Solid	6010B	685727
LB 500-685347/1-B	Method Blank	SPLP East	Solid	6010B	685727
LCS 500-685727/2-A	Lab Control Sample	Total/NA	Solid	6010B	685727

Analysis Batch: 686571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225246-1	1401V3-12-B01 (0-5)	Total/NA	Solid	6010B	685701
500-225246-2	1401V3-12-B02 (0-5)	Total/NA	Solid	6010B	685701

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225246-1

General Chemistry

Analysis Batch: 685301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225246-1	1401V3-12-B01 (0-5)	Total/NA	Solid	Moisture	

Analysis Batch: 685344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225246-2	1401V3-12-B02 (0-5)	Total/NA	Solid	Moisture	
500-225246-3	1401V3-12-B02 (5-9)	Total/NA	Solid	Moisture	

Analysis Batch: 685788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225246-1	1401V3-12-B01 (0-5)	Total/NA	Solid	9045D	
500-225246-2	1401V3-12-B02 (0-5)	Total/NA	Solid	9045D	
500-225246-3	1401V3-12-B02 (5-9)	Total/NA	Solid	9045D	
LCS 500-685788/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-685788/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Surrogate Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225246-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(75-131)	(75-126)	(70-134)	(75-124)
500-225246-1	1401V3-12-B01 (0-5)	97	90	89	86
500-225246-2	1401V3-12-B02 (0-5)	95	87	91	87
500-225246-3	1401V3-12-B02 (5-9)	95	94	95	86
LCS 500-685171/4	Lab Control Sample	91	88	85	88
LCS 500-685183/5	Lab Control Sample	92	84	85	89
LCSD 500-685171/29	Lab Control Sample Dup	92	84	85	92
LCSD 500-685183/6	Lab Control Sample Dup	94	83	86	91
MB 500-685171/7	Method Blank	97	86	85	84
MB 500-685183/8	Method Blank	96	86	82	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane
 DCA = 1,2-Dichloroethane-d4 (Surr)
 TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP	PHL	NBZ	FBP	TBP	TPHL
		(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-225246-1	1401V3-12-B01 (0-5)	106	101	76	80	86	207 S1+
500-225246-2	1401V3-12-B02 (0-5)	147	119	82	87	105	193 S1+
500-225246-3	1401V3-12-B02 (5-9)	94	84	69	67	53	173 S1+
LCS 500-686105/2-A	Lab Control Sample	131	113	92	95	112	107
MB 500-686105/1-A	Method Blank	140	112	85	103	107	112

Surrogate Legend

2FP = 2-Fluorophenol
 PHL = Phenol-d5
 NBZ = Nitrobenzene-d5 (Surr)
 FBP = 2-Fluorobiphenyl (Surr)
 TBP = 2,4,6-Tribromophenol
 TPHL = Terphenyl-d14 (Surr)

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225246-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-685171/7
Matrix: Solid
Analysis Batch: 685171

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			11/15/22 23:40	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			11/15/22 23:40	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			11/15/22 23:40	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			11/15/22 23:40	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			11/15/22 23:40	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			11/15/22 23:40	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			11/15/22 23:40	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			11/15/22 23:40	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			11/15/22 23:40	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			11/15/22 23:40	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			11/15/22 23:40	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			11/15/22 23:40	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			11/15/22 23:40	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			11/15/22 23:40	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			11/15/22 23:40	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			11/15/22 23:40	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			11/15/22 23:40	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			11/15/22 23:40	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			11/15/22 23:40	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			11/15/22 23:40	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			11/15/22 23:40	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			11/15/22 23:40	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			11/15/22 23:40	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			11/15/22 23:40	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			11/15/22 23:40	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			11/15/22 23:40	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			11/15/22 23:40	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/15/22 23:40	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			11/15/22 23:40	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			11/15/22 23:40	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			11/15/22 23:40	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			11/15/22 23:40	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			11/15/22 23:40	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/15/22 23:40	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			11/15/22 23:40	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			11/15/22 23:40	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			11/15/22 23:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 131		11/15/22 23:40	1
Dibromofluoromethane	86		75 - 126		11/15/22 23:40	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 134		11/15/22 23:40	1
Toluene-d8 (Surr)	84		75 - 124		11/15/22 23:40	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225246-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-685171/4
Matrix: Solid
Analysis Batch: 685171

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0500	0.0510		mg/Kg		102	40 - 150
Benzene	0.0500	0.0552		mg/Kg		110	70 - 125
Bromodichloromethane	0.0500	0.0568		mg/Kg		114	67 - 129
Bromoform	0.0500	0.0513		mg/Kg		103	68 - 136
Bromomethane	0.0500	0.0659	*+	mg/Kg		132	70 - 130
2-Butanone (MEK)	0.0500	0.0502		mg/Kg		100	47 - 138
Carbon disulfide	0.0500	0.0573		mg/Kg		115	70 - 129
Carbon tetrachloride	0.0500	0.0585		mg/Kg		117	75 - 125
Chlorobenzene	0.0500	0.0537		mg/Kg		107	50 - 150
Chloroethane	0.0500	0.0614		mg/Kg		123	75 - 125
Chloroform	0.0500	0.0585		mg/Kg		117	57 - 135
Chloromethane	0.0500	0.0631	*+	mg/Kg		126	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0567		mg/Kg		113	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0501		mg/Kg		100	70 - 125
Dibromochloromethane	0.0500	0.0541		mg/Kg		108	69 - 125
1,1-Dichloroethane	0.0500	0.0563		mg/Kg		113	70 - 125
1,2-Dichloroethane	0.0500	0.0577		mg/Kg		115	70 - 130
1,1-Dichloroethene	0.0500	0.0578		mg/Kg		116	70 - 120
1,2-Dichloropropane	0.0500	0.0547		mg/Kg		109	70 - 125
Ethylbenzene	0.0500	0.0529		mg/Kg		106	61 - 136
2-Hexanone	0.0500	0.0534		mg/Kg		107	48 - 146
Methylene Chloride	0.0500	0.0590		mg/Kg		118	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0514		mg/Kg		103	50 - 148
Methyl tert-butyl ether	0.0500	0.0545		mg/Kg		109	50 - 140
Styrene	0.0500	0.0517		mg/Kg		103	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0553		mg/Kg		111	70 - 122
Tetrachloroethene	0.0500	0.0515		mg/Kg		103	70 - 124
Toluene	0.0500	0.0514		mg/Kg		103	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0587		mg/Kg		117	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0509		mg/Kg		102	70 - 125
1,1,1-Trichloroethane	0.0500	0.0587		mg/Kg		117	70 - 128
1,1,2-Trichloroethane	0.0500	0.0543		mg/Kg		109	70 - 125
Trichloroethene	0.0500	0.0545		mg/Kg		109	70 - 125
Vinyl acetate	0.0500	0.0410		mg/Kg		82	40 - 153
Vinyl chloride	0.0500	0.0639	*+	mg/Kg		128	70 - 125
Xylenes, Total	0.100	0.104		mg/Kg		104	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	91		75 - 131
Dibromofluoromethane	88		75 - 126
1,2-Dichloroethane-d4 (Surr)	85		70 - 134
Toluene-d8 (Surr)	88		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225246-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-685171/29
Matrix: Solid
Analysis Batch: 685171

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.0500	0.0408		mg/Kg		82	40 - 150	22	30
Benzene	0.0500	0.0500		mg/Kg		100	70 - 125	10	30
Bromodichloromethane	0.0500	0.0507		mg/Kg		101	67 - 129	11	30
Bromoform	0.0500	0.0468		mg/Kg		94	68 - 136	9	30
Bromomethane	0.0500	0.0533		mg/Kg		107	70 - 130	21	30
2-Butanone (MEK)	0.0500	0.0463		mg/Kg		93	47 - 138	8	30
Carbon disulfide	0.0500	0.0514		mg/Kg		103	70 - 129	11	30
Carbon tetrachloride	0.0500	0.0524		mg/Kg		105	75 - 125	11	30
Chlorobenzene	0.0500	0.0513		mg/Kg		103	50 - 150	5	30
Chloroethane	0.0500	0.0511		mg/Kg		102	75 - 125	18	30
Chloroform	0.0500	0.0523		mg/Kg		105	57 - 135	11	30
Chloromethane	0.0500	0.0528		mg/Kg		106	70 - 125	18	30
cis-1,2-Dichloroethene	0.0500	0.0510		mg/Kg		102	70 - 125	11	30
cis-1,3-Dichloropropene	0.0500	0.0487		mg/Kg		97	70 - 125	3	30
Dibromochloromethane	0.0500	0.0512		mg/Kg		102	69 - 125	5	30
1,1-Dichloroethane	0.0500	0.0503		mg/Kg		101	70 - 125	11	30
1,2-Dichloroethane	0.0500	0.0504		mg/Kg		101	70 - 130	14	30
1,1-Dichloroethene	0.0500	0.0512		mg/Kg		102	70 - 120	12	30
1,2-Dichloropropane	0.0500	0.0473		mg/Kg		95	70 - 125	14	30
Ethylbenzene	0.0500	0.0516		mg/Kg		103	61 - 136	2	30
2-Hexanone	0.0500	0.0509		mg/Kg		102	48 - 146	5	30
Methylene Chloride	0.0500	0.0542		mg/Kg		108	70 - 126	9	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0476		mg/Kg		95	50 - 148	8	30
Methyl tert-butyl ether	0.0500	0.0459		mg/Kg		92	50 - 140	17	30
Styrene	0.0500	0.0501		mg/Kg		100	70 - 125	3	30
1,1,2,2-Tetrachloroethane	0.0500	0.0522		mg/Kg		104	70 - 122	6	30
Tetrachloroethene	0.0500	0.0511		mg/Kg		102	70 - 124	1	30
Toluene	0.0500	0.0512		mg/Kg		102	70 - 125	0	30
trans-1,2-Dichloroethene	0.0500	0.0524		mg/Kg		105	70 - 125	11	30
trans-1,3-Dichloropropene	0.0500	0.0493		mg/Kg		99	70 - 125	3	30
1,1,1-Trichloroethane	0.0500	0.0516		mg/Kg		103	70 - 128	13	30
1,1,2-Trichloroethane	0.0500	0.0520		mg/Kg		104	70 - 125	4	30
Trichloroethene	0.0500	0.0501		mg/Kg		100	70 - 125	8	30
Vinyl acetate	0.0500	0.0360		mg/Kg		72	40 - 153	13	30
Vinyl chloride	0.0500	0.0533		mg/Kg		107	70 - 125	18	30
Xylenes, Total	0.100	0.102		mg/Kg		102	53 - 147	2	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	92		75 - 131
Dibromofluoromethane	84		75 - 126
1,2-Dichloroethane-d4 (Surr)	85		70 - 134
Toluene-d8 (Surr)	92		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225246-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-685183/8
Matrix: Solid
Analysis Batch: 685183

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			11/16/22 11:09	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			11/16/22 11:09	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			11/16/22 11:09	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			11/16/22 11:09	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			11/16/22 11:09	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			11/16/22 11:09	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			11/16/22 11:09	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			11/16/22 11:09	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			11/16/22 11:09	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			11/16/22 11:09	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			11/16/22 11:09	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			11/16/22 11:09	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			11/16/22 11:09	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			11/16/22 11:09	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			11/16/22 11:09	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			11/16/22 11:09	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			11/16/22 11:09	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			11/16/22 11:09	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			11/16/22 11:09	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			11/16/22 11:09	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			11/16/22 11:09	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			11/16/22 11:09	1
Methylene Chloride	0.00593		0.0050	0.0020	mg/Kg			11/16/22 11:09	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			11/16/22 11:09	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			11/16/22 11:09	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			11/16/22 11:09	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			11/16/22 11:09	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/16/22 11:09	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			11/16/22 11:09	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			11/16/22 11:09	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			11/16/22 11:09	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			11/16/22 11:09	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			11/16/22 11:09	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/16/22 11:09	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			11/16/22 11:09	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			11/16/22 11:09	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			11/16/22 11:09	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	96		75 - 131		11/16/22 11:09	1
Dibromofluoromethane	86		75 - 126		11/16/22 11:09	1
1,2-Dichloroethane-d4 (Surr)	82		70 - 134		11/16/22 11:09	1
Toluene-d8 (Surr)	90		75 - 124		11/16/22 11:09	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225246-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-685183/5
Matrix: Solid
Analysis Batch: 685183

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0500	0.0423		mg/Kg		85	40 - 150
Benzene	0.0500	0.0458		mg/Kg		92	70 - 125
Bromodichloromethane	0.0500	0.0485		mg/Kg		97	67 - 129
Bromoform	0.0500	0.0480		mg/Kg		96	68 - 136
Bromomethane	0.0500	0.0524		mg/Kg		105	70 - 130
2-Butanone (MEK)	0.0500	0.0451		mg/Kg		90	47 - 138
Carbon disulfide	0.0500	0.0476		mg/Kg		95	70 - 129
Carbon tetrachloride	0.0500	0.0490		mg/Kg		98	75 - 125
Chlorobenzene	0.0500	0.0484		mg/Kg		97	50 - 150
Chloroethane	0.0500	0.0500		mg/Kg		100	75 - 125
Chloroform	0.0500	0.0498		mg/Kg		100	57 - 135
Chloromethane	0.0500	0.0511		mg/Kg		102	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0482		mg/Kg		96	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0450		mg/Kg		90	70 - 125
Dibromochloromethane	0.0500	0.0488		mg/Kg		98	69 - 125
1,1-Dichloroethane	0.0500	0.0467		mg/Kg		93	70 - 125
1,2-Dichloroethane	0.0500	0.0490		mg/Kg		98	70 - 130
1,1-Dichloroethene	0.0500	0.0487		mg/Kg		97	70 - 120
1,2-Dichloropropane	0.0500	0.0456		mg/Kg		91	70 - 125
Ethylbenzene	0.0500	0.0473		mg/Kg		95	61 - 136
2-Hexanone	0.0500	0.0517		mg/Kg		103	48 - 146
Methylene Chloride	0.0500	0.0562		mg/Kg		112	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0472		mg/Kg		94	50 - 148
Methyl tert-butyl ether	0.0500	0.0470		mg/Kg		94	50 - 140
Styrene	0.0500	0.0479		mg/Kg		96	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0538		mg/Kg		108	70 - 122
Tetrachloroethene	0.0500	0.0456		mg/Kg		91	70 - 124
Toluene	0.0500	0.0451		mg/Kg		90	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0498		mg/Kg		100	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0466		mg/Kg		93	70 - 125
1,1,1-Trichloroethane	0.0500	0.0488		mg/Kg		98	70 - 128
1,1,2-Trichloroethane	0.0500	0.0496		mg/Kg		99	70 - 125
Trichloroethene	0.0500	0.0467		mg/Kg		93	70 - 125
Vinyl acetate	0.0500	0.0320		mg/Kg		64	40 - 153
Vinyl chloride	0.0500	0.0507		mg/Kg		101	70 - 125
Xylenes, Total	0.100	0.0952		mg/Kg		95	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	92		75 - 131
Dibromofluoromethane	84		75 - 126
1,2-Dichloroethane-d4 (Surr)	85		70 - 134
Toluene-d8 (Surr)	89		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225246-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-685183/6
Matrix: Solid
Analysis Batch: 685183

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.0500	0.0415		mg/Kg		83	40 - 150	2	30
Benzene	0.0500	0.0521		mg/Kg		104	70 - 125	13	30
Bromodichloromethane	0.0500	0.0554		mg/Kg		111	67 - 129	13	30
Bromoform	0.0500	0.0544		mg/Kg		109	68 - 136	12	30
Bromomethane	0.0500	0.0547		mg/Kg		109	70 - 130	4	30
2-Butanone (MEK)	0.0500	0.0485		mg/Kg		97	47 - 138	7	30
Carbon disulfide	0.0500	0.0544		mg/Kg		109	70 - 129	13	30
Carbon tetrachloride	0.0500	0.0556		mg/Kg		111	75 - 125	12	30
Chlorobenzene	0.0500	0.0552		mg/Kg		110	50 - 150	13	30
Chloroethane	0.0500	0.0528		mg/Kg		106	75 - 125	5	30
Chloroform	0.0500	0.0553		mg/Kg		111	57 - 135	11	30
Chloromethane	0.0500	0.0538		mg/Kg		108	70 - 125	5	30
cis-1,2-Dichloroethene	0.0500	0.0546		mg/Kg		109	70 - 125	12	30
cis-1,3-Dichloropropene	0.0500	0.0522		mg/Kg		104	70 - 125	15	30
Dibromochloromethane	0.0500	0.0563		mg/Kg		113	69 - 125	14	30
1,1-Dichloroethane	0.0500	0.0541		mg/Kg		108	70 - 125	15	30
1,2-Dichloroethane	0.0500	0.0555		mg/Kg		111	70 - 130	13	30
1,1-Dichloroethene	0.0500	0.0562		mg/Kg		112	70 - 120	14	30
1,2-Dichloropropane	0.0500	0.0517		mg/Kg		103	70 - 125	13	30
Ethylbenzene	0.0500	0.0545		mg/Kg		109	61 - 136	14	30
2-Hexanone	0.0500	0.0558		mg/Kg		112	48 - 146	8	30
Methylene Chloride	0.0500	0.0615		mg/Kg		123	70 - 126	9	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0516		mg/Kg		103	50 - 148	9	30
Methyl tert-butyl ether	0.0500	0.0529		mg/Kg		106	50 - 140	12	30
Styrene	0.0500	0.0543		mg/Kg		109	70 - 125	13	30
1,1,2,2-Tetrachloroethane	0.0500	0.0607		mg/Kg		121	70 - 122	12	30
Tetrachloroethene	0.0500	0.0536		mg/Kg		107	70 - 124	16	30
Toluene	0.0500	0.0534		mg/Kg		107	70 - 125	17	30
trans-1,2-Dichloroethene	0.0500	0.0555		mg/Kg		111	70 - 125	11	30
trans-1,3-Dichloropropene	0.0500	0.0540		mg/Kg		108	70 - 125	15	30
1,1,1-Trichloroethane	0.0500	0.0549		mg/Kg		110	70 - 128	12	30
1,1,2-Trichloroethane	0.0500	0.0564		mg/Kg		113	70 - 125	13	30
Trichloroethene	0.0500	0.0524		mg/Kg		105	70 - 125	11	30
Vinyl acetate	0.0500	0.0344		mg/Kg		69	40 - 153	7	30
Vinyl chloride	0.0500	0.0541		mg/Kg		108	70 - 125	7	30
Xylenes, Total	0.100	0.108		mg/Kg		108	53 - 147	13	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	94		75 - 131
Dibromofluoromethane	83		75 - 126
1,2-Dichloroethane-d4 (Surr)	86		70 - 134
Toluene-d8 (Surr)	91		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225246-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-686105/1-A
Matrix: Solid
Analysis Batch: 686786

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686105

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Isophorone	<0.17		0.17	0.037	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Carbazole	<0.17		0.17	0.083	mg/Kg		11/20/22 08:53	11/23/22 15:21	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225246-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-686105/1-A
Matrix: Solid
Analysis Batch: 686786

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686105

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		11/20/22 08:53	11/23/22 15:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	140		31 - 166	11/20/22 08:53	11/23/22 15:21	1
Phenol-d5	112		30 - 153	11/20/22 08:53	11/23/22 15:21	1
Nitrobenzene-d5 (Surr)	85		37 - 147	11/20/22 08:53	11/23/22 15:21	1
2-Fluorobiphenyl (Surr)	103		43 - 145	11/20/22 08:53	11/23/22 15:21	1
2,4,6-Tribromophenol	107		31 - 143	11/20/22 08:53	11/23/22 15:21	1
Terphenyl-d14 (Surr)	112		42 - 157	11/20/22 08:53	11/23/22 15:21	1

Lab Sample ID: LCS 500-686105/2-A
Matrix: Solid
Analysis Batch: 686786

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686105

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.38		mg/Kg		104	56 - 122
Bis(2-chloroethyl)ether	1.33	1.23		mg/Kg		92	55 - 111
1,3-Dichlorobenzene	1.33	1.15		mg/Kg		87	65 - 124
1,4-Dichlorobenzene	1.33	1.20		mg/Kg		90	61 - 110
1,2-Dichlorobenzene	1.33	1.17		mg/Kg		88	62 - 110
2-Methylphenol	1.33	1.31		mg/Kg		99	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.13		mg/Kg		84	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.18		mg/Kg		88	56 - 118
Hexachloroethane	1.33	1.12		mg/Kg		84	60 - 114
2-Chlorophenol	1.33	1.38		mg/Kg		104	64 - 110
Nitrobenzene	1.33	1.25		mg/Kg		94	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.23		mg/Kg		92	60 - 112
1,2,4-Trichlorobenzene	1.33	1.30		mg/Kg		98	66 - 117
Isophorone	1.33	1.19		mg/Kg		90	55 - 110
2,4-Dimethylphenol	1.33	1.26		mg/Kg		95	60 - 110
Hexachlorobutadiene	1.33	1.23		mg/Kg		93	56 - 120
Naphthalene	1.33	1.22		mg/Kg		91	63 - 110
2,4-Dichlorophenol	1.33	1.32		mg/Kg		99	58 - 120

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225246-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-686105/2-A
Matrix: Solid
Analysis Batch: 686786

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686105

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloroaniline	1.33	0.810		mg/Kg		61	30 - 150
2,4,6-Trichlorophenol	1.33	1.32		mg/Kg		99	57 - 120
2,4,5-Trichlorophenol	1.33	1.34		mg/Kg		101	50 - 120
Hexachlorocyclopentadiene	1.33	0.644	J	mg/Kg		48	10 - 133
2-Methylnaphthalene	1.33	1.22		mg/Kg		92	69 - 112
2-Nitroaniline	1.33	1.31		mg/Kg		98	57 - 124
2-Chloronaphthalene	1.33	1.31		mg/Kg		98	69 - 114
4-Chloro-3-methylphenol	1.33	1.38		mg/Kg		104	65 - 122
2,6-Dinitrotoluene	1.33	1.49		mg/Kg		112	70 - 123
2-Nitrophenol	1.33	1.34		mg/Kg		101	60 - 120
3-Nitroaniline	1.33	0.775		mg/Kg		58	40 - 122
Dimethyl phthalate	1.33	1.33		mg/Kg		100	69 - 116
2,4-Dinitrophenol	2.67	0.851		mg/Kg		32	10 - 100
Acenaphthylene	1.33	1.33		mg/Kg		100	68 - 120
2,4-Dinitrotoluene	1.33	1.35		mg/Kg		101	69 - 124
Acenaphthene	1.33	1.30		mg/Kg		97	65 - 124
Dibenzofuran	1.33	1.33		mg/Kg		100	66 - 115
4-Nitrophenol	2.67	2.50		mg/Kg		94	30 - 122
Fluorene	1.33	1.31		mg/Kg		98	62 - 120
4-Nitroaniline	1.33	1.25		mg/Kg		94	60 - 160
4-Bromophenyl phenyl ether	1.33	1.26		mg/Kg		95	68 - 118
Hexachlorobenzene	1.33	1.26		mg/Kg		95	63 - 124
Diethyl phthalate	1.33	1.27		mg/Kg		95	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.32		mg/Kg		99	62 - 119
Pentachlorophenol	2.67	1.79		mg/Kg		67	13 - 112
N-Nitrosodiphenylamine	1.33	1.27		mg/Kg		95	65 - 112
4,6-Dinitro-2-methylphenol	2.67	1.47		mg/Kg		55	10 - 110
Phenanthrene	1.33	1.22		mg/Kg		91	62 - 120
Anthracene	1.33	1.26		mg/Kg		95	70 - 114
Carbazole	1.33	1.39		mg/Kg		105	65 - 142
Di-n-butyl phthalate	1.33	1.30		mg/Kg		98	65 - 120
Fluoranthene	1.33	1.30		mg/Kg		98	62 - 120
Pyrene	1.33	1.40		mg/Kg		105	61 - 128
Butyl benzyl phthalate	1.33	1.41		mg/Kg		106	71 - 129
Benzo[a]anthracene	1.33	1.40		mg/Kg		105	67 - 122
Chrysene	1.33	1.39		mg/Kg		104	63 - 120
3,3'-Dichlorobenzidine	1.33	1.06		mg/Kg		80	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.49		mg/Kg		112	72 - 131
Di-n-octyl phthalate	1.33	1.53		mg/Kg		115	68 - 134
Benzo[b]fluoranthene	1.33	1.32		mg/Kg		99	69 - 129
Benzo[k]fluoranthene	1.33	1.22		mg/Kg		92	68 - 127
Benzo[a]pyrene	1.33	1.38		mg/Kg		104	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.54		mg/Kg		115	68 - 130
Dibenz(a,h)anthracene	1.33	1.46		mg/Kg		110	64 - 131
Benzo[g,h,i]perylene	1.33	1.46		mg/Kg		110	72 - 131
3 & 4 Methylphenol	1.33	1.33		mg/Kg		100	57 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225246-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-686105/2-A
Matrix: Solid
Analysis Batch: 686786

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686105

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	131		31 - 166
Phenol-d5	113		30 - 153
Nitrobenzene-d5 (Surr)	92		37 - 147
2-Fluorobiphenyl (Surr)	95		43 - 145
2,4,6-Tribromophenol	112		31 - 143
Terphenyl-d14 (Surr)	107		42 - 157

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-685701/1-A
Matrix: Solid
Analysis Batch: 686365

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685701

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Arsenic	<1.0		1.0	0.34	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Barium	<1.0		1.0	0.11	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Beryllium	<0.40		0.40	0.093	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Boron	0.632	J	5.0	0.47	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Cadmium	0.0763	J	0.20	0.036	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Calcium	<20		20	3.4	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Chromium	<1.0		1.0	0.50	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Cobalt	<0.50		0.50	0.13	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Copper	<1.0		1.0	0.28	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Iron	<20		20	10	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Lead	<0.50		0.50	0.23	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Magnesium	<10		10	5.0	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Manganese	<1.0		1.0	0.15	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Nickel	<1.0		1.0	0.29	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Potassium	<50		50	18	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Selenium	<1.0		1.0	0.59	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Silver	<0.50		0.50	0.13	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Sodium	<100		100	15	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Thallium	<1.0		1.0	0.50	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Vanadium	<0.50		0.50	0.12	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Zinc	<2.0		2.0	0.88	mg/Kg		11/17/22 17:44	11/21/22 11:08	1

Lab Sample ID: LCS 500-685701/2-A
Matrix: Solid
Analysis Batch: 686365

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685701

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec	Limits
		Result	Qualifier					
Antimony	50.0	45.8		mg/Kg		92		80 - 120
Arsenic	10.0	9.12		mg/Kg		91		80 - 120
Barium	200	200		mg/Kg		100		80 - 120
Beryllium	5.00	4.57		mg/Kg		91		80 - 120
Boron	100	86.0		mg/Kg		86		80 - 120
Cadmium	5.00	4.68		mg/Kg		94		80 - 120
Calcium	1000	912		mg/Kg		91		80 - 120

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225246-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-685701/2-A
Matrix: Solid
Analysis Batch: 686365

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685701

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	20.0	19.5		mg/Kg		97	80 - 120
Cobalt	50.0	48.8		mg/Kg		98	80 - 120
Copper	25.0	24.5		mg/Kg		98	80 - 120
Iron	100	92.5		mg/Kg		93	80 - 120
Lead	10.0	9.13		mg/Kg		91	80 - 120
Magnesium	1000	931		mg/Kg		93	80 - 120
Manganese	50.0	47.5		mg/Kg		95	80 - 120
Nickel	50.0	47.3		mg/Kg		95	80 - 120
Potassium	1000	959		mg/Kg		96	80 - 120
Selenium	10.0	8.54		mg/Kg		85	80 - 120
Silver	5.00	4.26		mg/Kg		85	80 - 120
Sodium	1000	996		mg/Kg		100	80 - 120
Thallium	10.0	9.20		mg/Kg		92	80 - 120
Vanadium	50.0	48.2		mg/Kg		96	80 - 120
Zinc	50.0	47.1		mg/Kg		94	80 - 120

Lab Sample ID: LCS 500-685724/2-A
Matrix: Solid
Analysis Batch: 686271

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685724

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.509		mg/L		102	80 - 120
Beryllium	0.0500	0.0493		mg/L		99	80 - 120
Boron	1.00	0.934		mg/L		93	80 - 120
Cadmium	0.0500	0.0529		mg/L		106	80 - 120
Chromium	0.200	0.194		mg/L		97	80 - 120
Cobalt	0.500	0.513		mg/L		103	80 - 120
Iron	1.00	0.956		mg/L		96	80 - 120
Lead	0.100	0.0978		mg/L		98	80 - 120
Manganese	0.500	0.491		mg/L		98	80 - 120
Nickel	0.500	0.503		mg/L		101	80 - 120
Selenium	0.100	0.114		mg/L		114	80 - 120
Silver	0.0500	0.0535		mg/L		107	80 - 120
Zinc	0.500	0.533		mg/L		107	80 - 120

Lab Sample ID: LCS 500-685727/2-A
Matrix: Solid
Analysis Batch: 686463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685727

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.100	0.0943		mg/L		94	80 - 120
Manganese	0.500	0.499		mg/L		100	80 - 120

Lab Sample ID: LB 500-685355/1-B
Matrix: Solid
Analysis Batch: 686271

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685724

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		11/17/22 19:49	11/18/22 13:49	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225246-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-685355/1-B
Matrix: Solid
Analysis Batch: 686271

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685724

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/17/22 19:49	11/18/22 13:49	1
Boron	<0.50		0.50	0.050	mg/L		11/17/22 19:49	11/18/22 13:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/17/22 19:49	11/18/22 13:49	1
Chromium	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 13:49	1
Cobalt	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 13:49	1
Iron	<0.40		0.40	0.20	mg/L		11/17/22 19:49	11/18/22 13:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 19:49	11/18/22 13:49	1
Manganese	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 13:49	1
Nickel	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 13:49	1
Selenium	<0.050		0.050	0.020	mg/L		11/17/22 19:49	11/18/22 13:49	1
Silver	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 13:49	1
Zinc	<0.50		0.50	0.020	mg/L		11/17/22 19:49	11/18/22 13:49	1

Lab Sample ID: LB 500-685347/1-B
Matrix: Solid
Analysis Batch: 686463

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 685727

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 20:01	11/21/22 17:28	1
Manganese	<0.025		0.025	0.010	mg/L		11/17/22 20:01	11/21/22 17:28	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-685724/2-A
Matrix: Solid
Analysis Batch: 686064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685724

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.465		mg/L		93	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: LB 500-685355/1-B
Matrix: Solid
Analysis Batch: 686064

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685724

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/17/22 19:49	11/18/22 22:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/17/22 19:49	11/18/22 22:09	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-685601/12-A
Matrix: Solid
Analysis Batch: 685896

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685601

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/17/22 12:30	11/18/22 11:07	1

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225246-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LCS 500-685601/14-A
Matrix: Solid
Analysis Batch: 685896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685601

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00180		mg/L		91	80 - 120

Lab Sample ID: LB 500-685355/2-B
Matrix: Solid
Analysis Batch: 685896

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685601

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/17/22 12:30	11/18/22 11:09	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-685493/12-A
Matrix: Solid
Analysis Batch: 685886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685493

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00668	J	0.017	0.0056	mg/Kg		11/17/22 15:25	11/18/22 08:47	1

Lab Sample ID: LCS 500-685493/13-A
Matrix: Solid
Analysis Batch: 685886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685493

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.181		mg/Kg		109	80 - 120

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225246-1

Client Sample ID: 1401V3-12-B01 (0-5)

Lab Sample ID: 500-225246-1

Date Collected: 11/10/22 14:35

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685347	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
SPLP East	Prep	3010A			685727	LMB	EET CHI	11/17/22 20:01 - 11/17/22 20:31 ¹
SPLP East	Analysis	6010B		1	686463	JJB	EET CHI	11/21/22 17:50
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	3010A			685724	LMB	EET CHI	11/17/22 19:49 - 11/17/22 20:19 ¹
TCLP	Analysis	6010B		1	686271	JJB	EET CHI	11/18/22 15:45
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	3010A			685724	LMB	EET CHI	11/17/22 19:49 - 11/17/22 20:19 ¹
TCLP	Analysis	6020A		1	686064	FXG	EET CHI	11/18/22 22:54
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	7470A			685601	MJG	EET CHI	11/17/22 12:30 - 11/17/22 14:30 ¹
TCLP	Analysis	7470A		1	685896	MJG	EET CHI	11/18/22 11:32
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 16:38
Total/NA	Analysis	Moisture		1	685301	LWN	EET CHI	11/16/22 12:05

Client Sample ID: 1401V3-12-B01 (0-5)

Lab Sample ID: 500-225246-1

Date Collected: 11/10/22 14:35

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684699	WRE	EET CHI	11/11/22 10:37
Total/NA	Analysis	8260B		1	685171	PMF	EET CHI	11/16/22 02:38
Total/NA	Prep	3541			686105	DAK	EET CHI	11/20/22 08:53 - 11/20/22 16:20 ¹
Total/NA	Analysis	8270D		1	688215	SS	EET CHI	12/05/22 15:04
Total/NA	Prep	3050B			685701	LMB	EET CHI	11/17/22 17:44 - 11/17/22 18:14 ¹
Total/NA	Analysis	6010B		1	686365	JJB	EET CHI	11/21/22 12:30
Total/NA	Prep	3050B			685701	LMB	EET CHI	11/17/22 17:44 - 11/17/22 18:14 ¹
Total/NA	Analysis	6010B		5	686571	JJB	EET CHI	11/22/22 11:41
Total/NA	Prep	7471B			685493	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 09:38

Client Sample ID: 1401V3-12-B02 (0-5)

Lab Sample ID: 500-225246-2

Date Collected: 11/10/22 14:55

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685347	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
SPLP East	Prep	3010A			685727	LMB	EET CHI	11/17/22 20:01 - 11/17/22 20:31 ¹
SPLP East	Analysis	6010B		1	686463	JJB	EET CHI	11/21/22 17:53
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	3010A			685724	LMB	EET CHI	11/17/22 19:49 - 11/17/22 20:19 ¹
TCLP	Analysis	6010B		1	686271	JJB	EET CHI	11/18/22 15:48
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	3010A			685724	LMB	EET CHI	11/17/22 19:49 - 11/17/22 20:19 ¹
TCLP	Analysis	6020A		1	686064	FXG	EET CHI	11/18/22 22:58

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225246-1

Client Sample ID: 1401V3-12-B02 (0-5)

Lab Sample ID: 500-225246-2

Date Collected: 11/10/22 14:55

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	7470A			685601	MJG	EET CHI	11/17/22 12:30 - 11/17/22 14:30 ¹
TCLP	Analysis	7470A		1	685896	MJG	EET CHI	11/18/22 11:34
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 16:41
Total/NA	Analysis	Moisture		1	685344	LWN	EET CHI	11/16/22 14:12

Client Sample ID: 1401V3-12-B02 (0-5)

Lab Sample ID: 500-225246-2

Date Collected: 11/10/22 14:55

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684699	WRE	EET CHI	11/11/22 10:37
Total/NA	Analysis	8260B		1	685171	PMF	EET CHI	11/16/22 03:03
Total/NA	Prep	3541			686105	DAK	EET CHI	11/20/22 08:53 - 11/20/22 16:20 ¹
Total/NA	Analysis	8270D		2	688215	SS	EET CHI	12/05/22 15:27
Total/NA	Prep	3050B			685701	LMB	EET CHI	11/17/22 17:44 - 11/17/22 18:14 ¹
Total/NA	Analysis	6010B		1	686365	JJB	EET CHI	11/21/22 12:33
Total/NA	Prep	3050B			685701	LMB	EET CHI	11/17/22 17:44 - 11/17/22 18:14 ¹
Total/NA	Analysis	6010B		5	686571	JJB	EET CHI	11/22/22 11:44
Total/NA	Prep	7471B			685493	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 09:40

Client Sample ID: 1401V3-12-B02 (5-9)

Lab Sample ID: 500-225246-3

Date Collected: 11/10/22 15:00

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685347	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
SPLP East	Prep	3010A			685727	LMB	EET CHI	11/17/22 20:01 - 11/17/22 20:31 ¹
SPLP East	Analysis	6010B		1	686463	JJB	EET CHI	11/21/22 17:57
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	3010A			685724	LMB	EET CHI	11/17/22 19:49 - 11/17/22 20:19 ¹
TCLP	Analysis	6010B		1	686271	JJB	EET CHI	11/18/22 15:51
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	3010A			685724	LMB	EET CHI	11/17/22 19:49 - 11/17/22 20:19 ¹
TCLP	Analysis	6020A		1	686064	FXG	EET CHI	11/18/22 23:01
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	7470A			685601	MJG	EET CHI	11/17/22 12:30 - 11/17/22 14:30 ¹
TCLP	Analysis	7470A		1	685896	MJG	EET CHI	11/18/22 11:36
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 16:43
Total/NA	Analysis	Moisture		1	685344	LWN	EET CHI	11/16/22 14:12

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225246-1

Client Sample ID: 1401V3-12-B02 (5-9)

Lab Sample ID: 500-225246-3

Date Collected: 11/10/22 15:00

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 79.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684699	WRE	EET CHI	11/11/22 10:37
Total/NA	Analysis	8260B		1	685183	W1T	EET CHI	11/16/22 16:37
Total/NA	Prep	3541			686105	DAK	EET CHI	11/20/22 08:53 - 11/20/22 16:20 ¹
Total/NA	Analysis	8270D		1	688215	SS	EET CHI	12/05/22 15:51
Total/NA	Prep	3050B			685701	LMB	EET CHI	11/17/22 17:44 - 11/17/22 18:14 ¹
Total/NA	Analysis	6010B		1	686365	JJB	EET CHI	11/21/22 12:36
Total/NA	Prep	7471B			685493	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 09:42

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225246-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Chain of Custody Record

522934



Environment Testing
TestAmerica

Address _____

Regulatory Program: CW NPDES RCRA Other

TAL-8210

Client Contact Company Name: WSP Address: 30 N. LaSalle City/State/Zip: Chicago, IL Phone: _____ Fax: _____ Project Name: 1001 W013 Dunferfield Rd. Site: _____ P.O.#: PN 314030352013		Project Manager: D. Tiebout Tel/Email: _____ Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Contact: A. HAPPEL Lab Contact: R. WRIGHT Date: 11/10/22 Carrier: _____		COC No: 7 7 of 8 COCs Sampler: _____ For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____ Job / SDG No: 500-225246					
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	<p>500-225246 COC</p>	Sample Specific Notes	
1 1401V3-12-B01 (0-5)		11/10/22	1435	C	S	2					
1401V3-12-B01 (5-9)		11/10/22	1438	C	S	2					CMC
2 1401V3-12-B02 (0-5)		11/10/22	1455	C	S	2					
3 1401V3-12-B02 (5-9)		11/10/22	1500	C	S	2					
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown											
Special Instructions/QC Requirements & Comments: * SLP dependent on TCLP RESULTS					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Month(s)						
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd		Cor'd		Therm ID No			
Relinquished by: CATHY COOPER		Company: WSP		Date/Time: 11/10/22 16:35		Received by: M. J. Ellison		Company: ETA			
Relinquished by: M. J. Ellison		Company: ETA		Date/Time: 11/10/22 1750		Received by:		Company:			
Relinquished by:		Company:		Date/Time:		Received in Laboratory by: Am Scott		Company: ETA			
								Date/Time: 11/10/22 1750			

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225246-1

Login Number: 225246

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.7,4.5,3.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 365 & FAP 870 (Butterfield Road) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

2 S 726 IL 53 (ISGS #1401V3-14)

City: Glen Ellyn State: IL Zip Code: 60137

County: DuPage Township: Milton

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.83174 Longitude: -88.0554
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: 0430455059 BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): _____ Approximate End Date (mm/dd/yyyy): _____

Estimated Volume of debris (cu. Yd.): 576

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

Location 1401V3-14-B01 was sampled within the construction zone adjacent to ISGS #1401V3-14 (KinderCare Learning Center). Refer to PSI Report for ISGS #1401V3-14 (KinderCare Learning Center) including Table 4-3, and Figure 4-3.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201 (g), 1100.205(a), 1100.610]:

See attached data summary table and associated laboratory data package J225240-1.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Tom Campbell (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: WSP USA

Street Address: 115 W Washington St., Suite 1270S

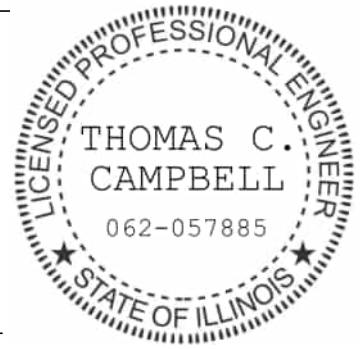
City: Indianapolis State: IN Zip Code: 46204

Phone: (317) 972-1706

Tom Campbell
Printed Name:

Tom Campbell
Licensed Professional Engineer or
Licensed Professional Geologist Signature:

02/09/2023
Date:



Expires 11/30/2023



P.E or L.P.G. Seal:

Analytical Data Summary
PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

Key to Data Tables

- MAC = Maximum Allowable Concentration of Chemical Constituent in Uncontaminated Soil Used as Fill Material At Regulated Fill Operations
- mg/kg = Milligrams per kilogram.
- mg/L = Milligrams per liter.
- MSA = Metropolitan Statistical Area
- TACO = Tiered Approach to Corrective Action Objectives
- TCLP = Toxicity Characteristic Leaching Procedure.
- SCGIER = Soil Component of the Groundwater Ingestion Exposure Route
- SPLP = Synthetic Precipitation Leaching Procedure.
- ND = Not detected.
- NA = Not analyzed or not applicable.
- J = Estimated value.
- U = Analyte was analyzed for but not detected.
- PID = Photoionization detector.
- = No PID readings detected above background (within instrument margin of error).

Criteria Qualifiers and Shading

- # = pH is less than 6.25 or greater than 9.0 standard units.
- † = Concentration exceeds the most stringent MAC.
- m = Concentration exceeds the MAC for an MSA.
- * = Concentration exceeds the MAC for Chicago corporate limits.
- c = Concentration exceeds a TACO Tier 1 RO for the Construction Worker Exposure Route.
- r = Concentration exceeds a TACO Tier 1 soil RO for residential properties.
- L = The detected TCLP/SPLP concentration exceeds the TACO Tier 1 RO for the SCGIER.
-  = Concentration exceeds the most stringent MAC, but is below the MAC for an MSA.
-  = Concentration exceeds applicable comparison criteria.

**PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11
CONTAMINANTS OF CONCERN**

SITE	ISGS #1401V3-14 (Kinder Care Learning Center)		Comparison Criteria							
	1401V3-14-B01		MACs			TACO				
BORING	1401V3-14-B01		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER		
SAMPLE	1401V3-14-B01 (0-4)	1401V3-14-B01 (4-8)								
MATRIX	Soil	Soil								
DEPTH (feet)	0-4	4-8								
pH	7.6	7.6								
PID (meter units)	--	--								
VOCs (mg/kg)										
Methylene Chloride	0.0028	J	ND	U	0.02	--	--	13	34	--
SVOCs (mg/kg)										
Anthracene	0.0066	J	ND	U	12,000	--	2.6	23,000	610,000	--
Benzo(a)anthracene	0.043	J	ND	U	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	0.067	J	ND	U	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	0.095	J	ND	U	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	0.028	J	ND	UJ	--	--	4.4	--	--	--
Benzo(k)fluoranthene	0.036	J	ND	U	9	--	8.1	9	1,700	--
Chrysene	0.059	J	ND	U	88	--	11	88	17,000	--
Fluoranthene	0.075		ND	U	3,100	--	28	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.040	J	ND	U	0.9	1.6	5.8	1.6	170	--
Phenanthrene	0.030	J	ND	U	--	--	15	--	--	--
Pyrene	0.11	J	ND	U	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)										
Antimony	0.25	J	0.53	J	5	--	--	31	82	--
Arsenic	7.7		10		11.3	13	--	13	61	--
Barium	86		32		1,500	--	--	5,500	14,000	--
Beryllium	0.84		0.82		22	--	--	160	410	--
Boron	6.7	J	10		40	--	--	16,000	41,000	--
Cadmium	0.26		0.24		5.2	--	--	78	200	--
Calcium	26,000		57,000		--	--	--	--	--	--
Chromium	16		14		21	--	--	230	690	--
Cobalt	11		10		20	--	--	4,700	12,000	--
Copper	20		22		2,900	--	--	2,900	8,200	--
Iron	19,000	†m	21,000	†m	15,000	15,900	--	--	--	--
Lead	22	J	15		107	--	--	400	700	--
Magnesium	12,000		24,000		325,000	--	--	--	730,000	--
Manganese	470	J	390		630	636	--	1,600	4,100	--
Mercury	0.043		0.023		0.89	--	--	10	0.1	--
Nickel	24		26		100	--	--	1,600	4,100	--
Potassium	1,700	J	2,300		--	--	--	--	--	--
Silver	0.32		0.21	J	4.4	--	--	390	1,000	--
Sodium	120		110		--	--	--	--	--	--
Vanadium	22		18		550	--	--	550	1,400	--
Zinc	69		70		5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	0.69		0.21	J	--	--	--	--	--	2
Boron	0.065	J	0.075	J	--	--	--	--	--	2
Cadmium	ND	U	0.0038	J	--	--	--	--	--	0.005
Cobalt	ND	U	0.017	J	--	--	--	--	--	1
Iron	ND	U	ND	U	--	--	--	--	--	5
Manganese	0.057		3.0	L	--	--	--	--	--	0.15
Nickel	ND	U	0.028		--	--	--	--	--	0.1
Zinc	0.045	J	0.047	J	--	--	--	--	--	5
SPLP Metals (mg/L)										
Manganese	NA		0.50	L	--	--	--	--	--	0.15



ANALYTICAL REPORT

PREPARED FOR

Attn: Dean Tiebot
WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602
Generated 11/28/2022 12:40:57 PM

JOB DESCRIPTION

IDOT - 196-002-WO 13 IL 56

JOB NUMBER

500-225240-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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11/28/2022 12:40:57 PM

Authorized for release by
Richard Wright, Senior Project Manager
Richard.Wright@et.eurofinsus.com
(708)746-0045



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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Job ID: 500-225240-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225240-1

Receipt

The samples were received on 11/10/2022 5:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.8° C, 4.5° C and 5.7° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 500-684697 and analytical batch 500-685181 recovered outside control limits for the following analytes: Trichloroethene, Methylene chloride, Carbon tetrachloride, and 1,1-Dichloroethene. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported. 1401V3-14-B01 (0-4) (500-225240-1)

Method 8260B: The laboratory control sample (LCS) for preparation batch 500-684697 and analytical batch 500-684930 recovered outside control limits for the following analytes: 1,1-Dichloroethene and Trichloroethene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. 1401V3-14-B01 (4-8) (500-225240-2)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-686786 was outside the method criteria for the following analyte(s): Indeno[1,2,3-cd]pyrene, Dibenz(a,h)anthracene, Benzo[g,h,i]perylene, Hexachlorocyclopentadiene, Di-n-octyl phthalate and Phenol-d5. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The following samples contained one base surrogate outside acceptance limits: 1401V3-14-B01 (0-4) (500-225240-1), (500-225240-E-1-K MS) and (500-225240-E-1-L MSD). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method 8270D: Chrysene-d12 and Perylene-d12 Internal standard (ISTD) response for the following sample and associated MS/MSD was outside of acceptance limits. No further corrective action was required as the matrix effect was confirmed on the parent sample from the subsequent MS/MSD analysis. 1401V3-14-B01 (0-4) (500-225240-1), (500-225240-E-1-K MS) and (500-225240-E-1-L MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010B: The continuing calibration blank (CCB) for 500-686264 contained Zinc and Nickel above the reporting limit (RL). Associated sample 1401V3-14-B01 (0-4) (500-225240-1) and 1401V3-14-B01 (4-8) (500-225240-2) was not re-analyzed because results were greater than 10X the value found in the CCB.

1401V3-14-B01 (0-4) (500-225240-1) and 1401V3-14-B01 (4-8) (500-225240-2)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Client Sample ID: 1401V3-14-B01 (0-4)

Lab Sample ID: 500-225240-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0028	J *	0.0060	0.0024	mg/Kg	1	✳	8260B	Total/NA
Phenanthrene	0.030	J	0.038	0.0053	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.0066	J	0.038	0.0064	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.075		0.038	0.0071	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.11	*3 F1	0.038	0.0076	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.043	*3 F1	0.038	0.0051	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.059	*3	0.038	0.010	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.095	*3	0.038	0.0082	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.036	J *3	0.038	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.067	*3	0.038	0.0074	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.040	*3 F1	0.038	0.0099	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.028	J *3 F1	0.038	0.012	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.25	J F1	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	7.7		0.58	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	86		0.58	0.066	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.84		0.23	0.054	mg/Kg	1	✳	6010B	Total/NA
Boron	6.7	F1	2.9	0.27	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.26		0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	26000		12	2.0	mg/Kg	1	✳	6010B	Total/NA
Chromium	16		0.58	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	11		0.29	0.076	mg/Kg	1	✳	6010B	Total/NA
Copper	20		0.58	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	19000		12	6.1	mg/Kg	1	✳	6010B	Total/NA
Lead	22	F1	0.29	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	12000		5.8	2.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	470		0.58	0.085	mg/Kg	1	✳	6010B	Total/NA
Nickel	24	^2	0.58	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	1700	F1	29	10	mg/Kg	1	✳	6010B	Total/NA
Silver	0.32		0.29	0.075	mg/Kg	1	✳	6010B	Total/NA
Sodium	120		58	8.6	mg/Kg	1	✳	6010B	Total/NA
Vanadium	22		0.29	0.069	mg/Kg	1	✳	6010B	Total/NA
Zinc	69	^2	1.2	0.51	mg/Kg	1	✳	6010B	Total/NA
Barium	0.69		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.065	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.057		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.045	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.043		0.019	0.0063	mg/Kg	1	✳	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-14-B01 (4-8)

Lab Sample ID: 500-225240-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.53	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	10		0.57	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	32		0.57	0.064	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.82		0.23	0.053	mg/Kg	1	✳	6010B	Total/NA
Boron	10		2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.24		0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	57000		57	9.6	mg/Kg	5	✳	6010B	Total/NA
Chromium	14		0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	10		0.28	0.074	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Client Sample ID: 1401V3-14-B01 (4-8) (Continued)

Lab Sample ID: 500-225240-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	22		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	24000		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	390		0.57	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	26	^2	0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		28	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.21	J	0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Sodium	110		57	8.4	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	70	^2	1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Barium	0.21	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.075	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0038	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	3.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.028		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.047	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.50		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.023		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010B	Metals (ICP)	SW846	EET CHI
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225240-1	1401V3-14-B01 (0-4)	Solid	11/10/22 09:30	11/10/22 17:50
500-225240-2	1401V3-14-B01 (4-8)	Solid	11/10/22 09:35	11/10/22 17:50

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Client Sample ID: 1401V3-14-B01 (0-4)

Lab Sample ID: 500-225240-1

Date Collected: 11/10/22 09:30

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 82.5

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.024		0.024	0.010	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
Benzene	<0.0024		0.0024	0.00061	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
Bromodichloromethane	<0.0024		0.0024	0.00049	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
Bromoform	<0.0024		0.0024	0.00070	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
Bromomethane	<0.0060		0.0060	0.0023	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
2-Butanone (MEK)	<0.0060		0.0060	0.0026	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
Carbon disulfide	<0.0060		0.0060	0.0012	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
Carbon tetrachloride	<0.0024	*+	0.0024	0.00069	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
Chlorobenzene	<0.0024		0.0024	0.00088	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
Chloroethane	<0.0060		0.0060	0.0018	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
Chloroform	<0.0024		0.0024	0.00083	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
Chloromethane	<0.0060		0.0060	0.0024	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
cis-1,2-Dichloroethene	<0.0024		0.0024	0.00067	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
cis-1,3-Dichloropropene	<0.0024		0.0024	0.00072	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
Dibromochloromethane	<0.0024		0.0024	0.00078	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
1,1-Dichloroethane	<0.0024		0.0024	0.00082	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
1,2-Dichloroethane	<0.0060		0.0060	0.0019	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
1,1-Dichloroethene	<0.0024	*+	0.0024	0.00082	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
1,2-Dichloropropane	<0.0024		0.0024	0.00062	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
1,3-Dichloropropane, Total	<0.0024		0.0024	0.00084	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
Ethylbenzene	<0.0024		0.0024	0.0011	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
2-Hexanone	<0.0060		0.0060	0.0019	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
Methylene Chloride	0.0028	J**	0.0060	0.0024	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
4-Methyl-2-pentanone (MIBK)	<0.0060		0.0060	0.0018	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
Methyl tert-butyl ether	<0.0024		0.0024	0.00070	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
Styrene	<0.0024		0.0024	0.00072	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
1,1,2,2-Tetrachloroethane	<0.0024		0.0024	0.00076	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
Tetrachloroethene	<0.0024		0.0024	0.00081	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
Toluene	<0.0024		0.0024	0.00060	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
trans-1,2-Dichloroethene	<0.0024		0.0024	0.0011	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
trans-1,3-Dichloropropene	<0.0024		0.0024	0.00084	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
1,1,1-Trichloroethane	<0.0024		0.0024	0.00080	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
1,1,2-Trichloroethane	<0.0024		0.0024	0.0010	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
Trichloroethene	<0.0024	*+	0.0024	0.00081	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
Vinyl acetate	<0.0060		0.0060	0.0021	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
Vinyl chloride	<0.0024		0.0024	0.0011	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1
Xylenes, Total	<0.0048		0.0048	0.00076	mg/Kg	☼	11/11/22 10:37	11/16/22 12:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		75 - 131	11/11/22 10:37	11/16/22 12:42	1
Dibromofluoromethane	111		75 - 126	11/11/22 10:37	11/16/22 12:42	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	11/11/22 10:37	11/16/22 12:42	1
Toluene-d8 (Surr)	96		75 - 124	11/11/22 10:37	11/16/22 12:42	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Client Sample ID: 1401V3-14-B01 (0-4)

Lab Sample ID: 500-225240-1

Date Collected: 11/10/22 09:30

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 82.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Hexachloroethane	<0.19	F1	0.19	0.058	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
2,4-Dimethylphenol	<0.38	F1	0.38	0.14	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
2,4,5-Trichlorophenol	<0.38	F2	0.38	0.087	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Hexachlorocyclopentadiene	<0.77	F1	0.77	0.22	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
2,4-Dinitrophenol	<0.77	F1	0.77	0.67	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
4-Nitrophenol	<0.77	F1 F2	0.77	0.36	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Pentachlorophenol	<0.77	F1	0.77	0.61	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
4,6-Dinitro-2-methylphenol	<0.77	F1	0.77	0.31	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Phenanthrene	0.030	J	0.038	0.0053	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Anthracene	0.0066	J	0.038	0.0064	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Fluoranthene	0.075		0.038	0.0071	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Pyrene	0.11	*3 F1	0.038	0.0076	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Butyl benzyl phthalate	<0.19	*3 F1	0.19	0.073	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Benzo[a]anthracene	0.043	*3 F1	0.038	0.0051	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Client Sample ID: 1401V3-14-B01 (0-4)

Lab Sample ID: 500-225240-1

Date Collected: 11/10/22 09:30

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 82.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.059	*3	0.038	0.010	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
3,3'-Dichlorobenzidine	<0.19	*3	0.19	0.054	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Bis(2-ethylhexyl) phthalate	<0.19	*3 F1	0.19	0.070	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Benzo[b]fluoranthene	0.095	*3	0.038	0.0082	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Benzo[k]fluoranthene	0.036	J *3	0.038	0.011	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Benzo[a]pyrene	0.067	*3	0.038	0.0074	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Indeno[1,2,3-cd]pyrene	0.040	*3 F1	0.038	0.0099	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Dibenz(a,h)anthracene	<0.038	*3	0.038	0.0074	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
Benzo[g,h,i]perylene	0.028	J *3 F1	0.038	0.012	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	11/20/22 08:53	11/23/22 23:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	138		31 - 166	11/20/22 08:53	11/23/22 23:25	1
Phenol-d5	98		30 - 153	11/20/22 08:53	11/23/22 23:25	1
Nitrobenzene-d5 (Surr)	72		37 - 147	11/20/22 08:53	11/23/22 23:25	1
2-Fluorobiphenyl (Surr)	83		43 - 145	11/20/22 08:53	11/23/22 23:25	1
2,4,6-Tribromophenol	92		31 - 143	11/20/22 08:53	11/23/22 23:25	1
Terphenyl-d14 (Surr)	176	S1+ *3	42 - 157	11/20/22 08:53	11/23/22 23:25	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.25	J F1	1.2	0.23	mg/Kg	☼	11/16/22 16:18	11/18/22 19:26	1
Arsenic	7.7		0.58	0.20	mg/Kg	☼	11/16/22 16:18	11/18/22 19:26	1
Barium	86		0.58	0.066	mg/Kg	☼	11/16/22 16:18	11/18/22 19:26	1
Beryllium	0.84		0.23	0.054	mg/Kg	☼	11/16/22 16:18	11/18/22 19:26	1
Boron	6.7	F1	2.9	0.27	mg/Kg	☼	11/16/22 16:18	11/18/22 19:26	1
Cadmium	0.26		0.12	0.021	mg/Kg	☼	11/16/22 16:18	11/18/22 19:26	1
Calcium	26000		12	2.0	mg/Kg	☼	11/16/22 16:18	11/18/22 19:26	1
Chromium	16		0.58	0.29	mg/Kg	☼	11/16/22 16:18	11/18/22 19:26	1
Cobalt	11		0.29	0.076	mg/Kg	☼	11/16/22 16:18	11/18/22 19:26	1
Copper	20		0.58	0.16	mg/Kg	☼	11/16/22 16:18	11/18/22 19:26	1
Iron	19000		12	6.1	mg/Kg	☼	11/16/22 16:18	11/18/22 19:26	1
Lead	22	F1	0.29	0.13	mg/Kg	☼	11/16/22 16:18	11/18/22 19:26	1
Magnesium	12000		5.8	2.9	mg/Kg	☼	11/16/22 16:18	11/18/22 19:26	1
Manganese	470		0.58	0.085	mg/Kg	☼	11/16/22 16:18	11/18/22 19:26	1
Nickel	24	^2	0.58	0.17	mg/Kg	☼	11/16/22 16:18	11/18/22 19:26	1
Potassium	1700	F1	29	10	mg/Kg	☼	11/16/22 16:18	11/18/22 19:26	1
Selenium	<0.58	F1	0.58	0.34	mg/Kg	☼	11/16/22 16:18	11/18/22 19:26	1
Silver	0.32		0.29	0.075	mg/Kg	☼	11/16/22 16:18	11/18/22 19:26	1
Sodium	120		58	8.6	mg/Kg	☼	11/16/22 16:18	11/18/22 19:26	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	11/16/22 16:18	11/18/22 19:26	1
Vanadium	22		0.29	0.069	mg/Kg	☼	11/16/22 16:18	11/18/22 19:26	1
Zinc	69	^2	1.2	0.51	mg/Kg	☼	11/16/22 16:18	11/18/22 19:26	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.69		0.50	0.050	mg/L		11/17/22 19:46	11/18/22 18:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/17/22 19:46	11/18/22 18:41	1
Boron	0.065	J	0.50	0.050	mg/L		11/17/22 19:46	11/18/22 18:41	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Client Sample ID: 1401V3-14-B01 (0-4)

Lab Sample ID: 500-225240-1

Date Collected: 11/10/22 09:30

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 82.5

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/17/22 19:46	11/18/22 18:41	1
Chromium	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 18:41	1
Cobalt	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 18:41	1
Iron	<0.40		0.40	0.20	mg/L		11/17/22 19:46	11/18/22 18:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 19:46	11/18/22 18:41	1
Manganese	0.057		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 18:41	1
Nickel	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 18:41	1
Selenium	<0.050		0.050	0.020	mg/L		11/17/22 19:46	11/18/22 18:41	1
Silver	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 18:41	1
Zinc	0.045	J	0.50	0.020	mg/L		11/17/22 19:46	11/18/22 18:41	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/17/22 19:46	11/18/22 20:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/17/22 19:46	11/18/22 20:30	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/18/22 14:55	11/21/22 10:06	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.019	0.0063	mg/Kg	☼	11/17/22 15:25	11/18/22 07:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.6		0.2	0.2	SU			11/17/22 11:55	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Client Sample ID: 1401V3-14-B01 (4-8)

Lab Sample ID: 500-225240-2

Date Collected: 11/10/22 09:35

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 84.9

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0077	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
Carbon disulfide	<0.0044		0.0044	0.00092	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
1,1-Dichloroethene	<0.0018	*+	0.0018	0.00061	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
Toluene	<0.0018		0.0018	0.00044	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
Trichloroethene	<0.0018	*+	0.0018	0.00060	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	11/11/22 10:37	11/15/22 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		75 - 131	11/11/22 10:37	11/15/22 15:56	1
Dibromofluoromethane	109		75 - 126	11/11/22 10:37	11/15/22 15:56	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	11/11/22 10:37	11/15/22 15:56	1
Toluene-d8 (Surr)	97		75 - 124	11/11/22 10:37	11/15/22 15:56	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Client Sample ID: 1401V3-14-B01 (4-8)

Lab Sample ID: 500-225240-2

Date Collected: 11/10/22 09:35

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 84.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Client Sample ID: 1401V3-14-B01 (4-8)

Lab Sample ID: 500-225240-2

Date Collected: 11/10/22 09:35

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 84.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	11/20/22 08:53	11/23/22 21:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	142		31 - 166	11/20/22 08:53	11/23/22 21:53	1
Phenol-d5	87		30 - 153	11/20/22 08:53	11/23/22 21:53	1
Nitrobenzene-d5 (Surr)	75		37 - 147	11/20/22 08:53	11/23/22 21:53	1
2-Fluorobiphenyl (Surr)	88		43 - 145	11/20/22 08:53	11/23/22 21:53	1
2,4,6-Tribromophenol	75		31 - 143	11/20/22 08:53	11/23/22 21:53	1
Terphenyl-d14 (Surr)	122		42 - 157	11/20/22 08:53	11/23/22 21:53	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.53	J	1.1	0.22	mg/Kg	☼	11/16/22 16:18	11/18/22 19:43	1
Arsenic	10		0.57	0.19	mg/Kg	☼	11/16/22 16:18	11/18/22 19:43	1
Barium	32		0.57	0.064	mg/Kg	☼	11/16/22 16:18	11/18/22 19:43	1
Beryllium	0.82		0.23	0.053	mg/Kg	☼	11/16/22 16:18	11/18/22 19:43	1
Boron	10		2.8	0.26	mg/Kg	☼	11/16/22 16:18	11/18/22 19:43	1
Cadmium	0.24		0.11	0.020	mg/Kg	☼	11/16/22 16:18	11/18/22 19:43	1
Calcium	57000		57	9.6	mg/Kg	☼	11/16/22 16:18	11/21/22 13:38	5
Chromium	14		0.57	0.28	mg/Kg	☼	11/16/22 16:18	11/18/22 19:43	1
Cobalt	10		0.28	0.074	mg/Kg	☼	11/16/22 16:18	11/18/22 19:43	1
Copper	22		0.57	0.16	mg/Kg	☼	11/16/22 16:18	11/18/22 19:43	1
Iron	21000		11	5.9	mg/Kg	☼	11/16/22 16:18	11/18/22 19:43	1
Lead	15		0.28	0.13	mg/Kg	☼	11/16/22 16:18	11/18/22 19:43	1
Magnesium	24000		5.7	2.8	mg/Kg	☼	11/16/22 16:18	11/18/22 19:43	1
Manganese	390		0.57	0.082	mg/Kg	☼	11/16/22 16:18	11/18/22 19:43	1
Nickel	26	^2	0.57	0.16	mg/Kg	☼	11/16/22 16:18	11/18/22 19:43	1
Potassium	2300		28	10	mg/Kg	☼	11/16/22 16:18	11/18/22 19:43	1
Selenium	<0.57		0.57	0.33	mg/Kg	☼	11/16/22 16:18	11/18/22 19:43	1
Silver	0.21	J	0.28	0.073	mg/Kg	☼	11/16/22 16:18	11/18/22 19:43	1
Sodium	110		57	8.4	mg/Kg	☼	11/16/22 16:18	11/18/22 19:43	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	11/16/22 16:18	11/18/22 19:43	1
Vanadium	18		0.28	0.067	mg/Kg	☼	11/16/22 16:18	11/18/22 19:43	1
Zinc	70	^2	1.1	0.50	mg/Kg	☼	11/16/22 16:18	11/18/22 19:43	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.21	J	0.50	0.050	mg/L		11/17/22 19:46	11/18/22 20:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/17/22 19:46	11/18/22 20:06	1
Boron	0.075	J	0.50	0.050	mg/L		11/17/22 19:46	11/18/22 20:06	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Client Sample ID: 1401V3-14-B01 (4-8)

Lab Sample ID: 500-225240-2

Date Collected: 11/10/22 09:35

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 84.9

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0038	J	0.0050	0.0020	mg/L		11/17/22 19:46	11/18/22 20:06	1
Chromium	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 20:06	1
Cobalt	0.017	J	0.025	0.010	mg/L		11/17/22 19:46	11/18/22 20:06	1
Iron	<0.40		0.40	0.20	mg/L		11/17/22 19:46	11/18/22 20:06	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 19:46	11/21/22 14:28	1
Manganese	3.0		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 20:06	1
Nickel	0.028		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 20:06	1
Selenium	<0.050		0.050	0.020	mg/L		11/17/22 19:46	11/18/22 20:06	1
Silver	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 20:06	1
Zinc	0.047	J	0.50	0.020	mg/L		11/17/22 19:46	11/18/22 20:06	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.50		0.025	0.010	mg/L		11/17/22 20:00	11/21/22 22:24	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/17/22 19:46	11/18/22 21:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/17/22 19:46	11/18/22 21:59	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/18/22 14:55	11/21/22 11:00	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.018	0.0061	mg/Kg	☆	11/17/22 15:25	11/18/22 07:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.6		0.2	0.2	SU			11/17/22 12:00	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

GC/MS VOA

Prep Batch: 684697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225240-1	1401V3-14-B01 (0-4)	Total/NA	Solid	5035	
500-225240-2	1401V3-14-B01 (4-8)	Total/NA	Solid	5035	

Analysis Batch: 684930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225240-2	1401V3-14-B01 (4-8)	Total/NA	Solid	8260B	684697
MB 500-684930/11	Method Blank	Total/NA	Solid	8260B	
LCS 500-684930/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-684930/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 685181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225240-1	1401V3-14-B01 (0-4)	Total/NA	Solid	8260B	684697
MB 500-685181/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-685181/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-685181/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 686105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225240-1	1401V3-14-B01 (0-4)	Total/NA	Solid	3541	
500-225240-2	1401V3-14-B01 (4-8)	Total/NA	Solid	3541	
MB 500-686105/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-686105/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-225240-1 MS	1401V3-14-B01 (0-4)	Total/NA	Solid	3541	
500-225240-1 MSD	1401V3-14-B01 (0-4)	Total/NA	Solid	3541	

Analysis Batch: 686786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225240-1	1401V3-14-B01 (0-4)	Total/NA	Solid	8270D	686105
500-225240-2	1401V3-14-B01 (4-8)	Total/NA	Solid	8270D	686105
MB 500-686105/1-A	Method Blank	Total/NA	Solid	8270D	686105
LCS 500-686105/2-A	Lab Control Sample	Total/NA	Solid	8270D	686105
500-225240-1 MS	1401V3-14-B01 (0-4)	Total/NA	Solid	8270D	686105
500-225240-1 MSD	1401V3-14-B01 (0-4)	Total/NA	Solid	8270D	686105

Metals

Leach Batch: 685341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225240-2	1401V3-14-B01 (4-8)	SPLP East	Solid	1312	
LB 500-685341/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 685351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225240-1	1401V3-14-B01 (0-4)	TCLP	Solid	1311	
LB 500-685351/1-B	Method Blank	TCLP	Solid	1311	
LB 500-685351/1-C	Method Blank	TCLP	Solid	1311	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Metals

Leach Batch: 685353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225240-2	1401V3-14-B01 (4-8)	TCLP	Solid	1311	
LB2 500-685353/1-B	Method Blank	TCLP	Solid	1311	
LB2 500-685353/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 685390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225240-1	1401V3-14-B01 (0-4)	Total/NA	Solid	3050B	
500-225240-2	1401V3-14-B01 (4-8)	Total/NA	Solid	3050B	
MB 500-685390/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-685390/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-225240-1 MS	1401V3-14-B01 (0-4)	Total/NA	Solid	3050B	
500-225240-1 MSD	1401V3-14-B01 (0-4)	Total/NA	Solid	3050B	
500-225240-1 DU	1401V3-14-B01 (0-4)	Total/NA	Solid	3050B	

Prep Batch: 685449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225240-1	1401V3-14-B01 (0-4)	Total/NA	Solid	7471B	
500-225240-2	1401V3-14-B01 (4-8)	Total/NA	Solid	7471B	
MB 500-685449/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-685449/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-225240-2 MS	1401V3-14-B01 (4-8)	Total/NA	Solid	7471B	
500-225240-2 MSD	1401V3-14-B01 (4-8)	Total/NA	Solid	7471B	
500-225240-2 DU	1401V3-14-B01 (4-8)	Total/NA	Solid	7471B	

Prep Batch: 685723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225240-1	1401V3-14-B01 (0-4)	TCLP	Solid	3010A	685351
500-225240-2	1401V3-14-B01 (4-8)	TCLP	Solid	3010A	685353
LB 500-685351/1-B	Method Blank	TCLP	Solid	3010A	685351
LB2 500-685353/1-B	Method Blank	TCLP	Solid	3010A	685353
LCS 500-685723/23-A	Lab Control Sample	Total/NA	Solid	3010A	
LCS 500-685723/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 685726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225240-2	1401V3-14-B01 (4-8)	SPLP East	Solid	3010A	685341
LB 500-685341/1-B	Method Blank	SPLP East	Solid	3010A	685341
LCS 500-685726/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 685886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225240-1	1401V3-14-B01 (0-4)	Total/NA	Solid	7471B	685449
500-225240-2	1401V3-14-B01 (4-8)	Total/NA	Solid	7471B	685449
MB 500-685449/12-A	Method Blank	Total/NA	Solid	7471B	685449
LCS 500-685449/13-A	Lab Control Sample	Total/NA	Solid	7471B	685449
500-225240-2 MS	1401V3-14-B01 (4-8)	Total/NA	Solid	7471B	685449
500-225240-2 MSD	1401V3-14-B01 (4-8)	Total/NA	Solid	7471B	685449
500-225240-2 DU	1401V3-14-B01 (4-8)	Total/NA	Solid	7471B	685449

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Metals

Prep Batch: 685917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225240-1	1401V3-14-B01 (0-4)	TCLP	Solid	7470A	685351
500-225240-2	1401V3-14-B01 (4-8)	TCLP	Solid	7470A	685353
LB 500-685351/1-C	Method Blank	TCLP	Solid	7470A	685351
LB2 500-685353/1-C	Method Blank	TCLP	Solid	7470A	685353
MB 500-685917/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-685917/14-A	Lab Control Sample	Total/NA	Solid	7470A	
LCS 500-685917/35-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 686064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225240-1	1401V3-14-B01 (0-4)	TCLP	Solid	6020A	685723
500-225240-2	1401V3-14-B01 (4-8)	TCLP	Solid	6020A	685723
LB 500-685351/1-B	Method Blank	TCLP	Solid	6020A	685723
LB2 500-685353/1-B	Method Blank	TCLP	Solid	6020A	685723
LCS 500-685723/23-A	Lab Control Sample	Total/NA	Solid	6020A	685723
LCS 500-685723/2-A	Lab Control Sample	Total/NA	Solid	6020A	685723

Analysis Batch: 686264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225240-1	1401V3-14-B01 (0-4)	Total/NA	Solid	6010B	685390
500-225240-2	1401V3-14-B01 (4-8)	Total/NA	Solid	6010B	685390
MB 500-685390/1-A	Method Blank	Total/NA	Solid	6010B	685390
LCS 500-685390/2-A	Lab Control Sample	Total/NA	Solid	6010B	685390
500-225240-1 MS	1401V3-14-B01 (0-4)	Total/NA	Solid	6010B	685390
500-225240-1 MSD	1401V3-14-B01 (0-4)	Total/NA	Solid	6010B	685390
500-225240-1 DU	1401V3-14-B01 (0-4)	Total/NA	Solid	6010B	685390

Analysis Batch: 686272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225240-1	1401V3-14-B01 (0-4)	TCLP	Solid	6010B	685723
500-225240-2	1401V3-14-B01 (4-8)	TCLP	Solid	6010B	685723
LB 500-685351/1-B	Method Blank	TCLP	Solid	6010B	685723
LB2 500-685353/1-B	Method Blank	TCLP	Solid	6010B	685723
LCS 500-685723/23-A	Lab Control Sample	Total/NA	Solid	6010B	685723
LCS 500-685723/2-A	Lab Control Sample	Total/NA	Solid	6010B	685723

Analysis Batch: 686339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225240-1	1401V3-14-B01 (0-4)	TCLP	Solid	7470A	685917
500-225240-2	1401V3-14-B01 (4-8)	TCLP	Solid	7470A	685917
LB 500-685351/1-C	Method Blank	TCLP	Solid	7470A	685917
LB2 500-685353/1-C	Method Blank	TCLP	Solid	7470A	685917
MB 500-685917/12-A	Method Blank	Total/NA	Solid	7470A	685917
LCS 500-685917/14-A	Lab Control Sample	Total/NA	Solid	7470A	685917
LCS 500-685917/35-A	Lab Control Sample	Total/NA	Solid	7470A	685917

Analysis Batch: 686358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225240-2	1401V3-14-B01 (4-8)	Total/NA	Solid	6010B	685390

QC Association Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Metals

Analysis Batch: 686462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225240-2	1401V3-14-B01 (4-8)	TCLP	Solid	6010B	685723

Analysis Batch: 686463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225240-2	1401V3-14-B01 (4-8)	SPLP East	Solid	6010B	685726
LB 500-685341/1-B	Method Blank	SPLP East	Solid	6010B	685726
LCS 500-685726/2-A	Lab Control Sample	Total/NA	Solid	6010B	685726

General Chemistry

Analysis Batch: 685265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225240-1	1401V3-14-B01 (0-4)	Total/NA	Solid	Moisture	

Analysis Batch: 685301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225240-2	1401V3-14-B01 (4-8)	Total/NA	Solid	Moisture	
500-225240-2 DU	1401V3-14-B01 (4-8)	Total/NA	Solid	Moisture	

Analysis Batch: 685546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225240-1	1401V3-14-B01 (0-4)	Total/NA	Solid	9045D	
500-225240-2	1401V3-14-B01 (4-8)	Total/NA	Solid	9045D	
LCS 500-685546/5	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-685546/6	Lab Control Sample Dup	Total/NA	Solid	9045D	

Surrogate Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-225240-1	1401V3-14-B01 (0-4)	107	111	111	96
500-225240-2	1401V3-14-B01 (4-8)	106	109	108	97
LCS 500-684930/4	Lab Control Sample	113	101	97	105
LCS 500-685181/3	Lab Control Sample	111	103	100	100
LCSD 500-684930/5	Lab Control Sample Dup	111	103	101	103
LCSD 500-685181/4	Lab Control Sample Dup	110	104	103	100
MB 500-684930/11	Method Blank	106	107	102	99
MB 500-685181/6	Method Blank	102	105	104	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (31-166)	PHL (30-153)	NBZ (37-147)	FBP (43-145)	TBP (31-143)	TPHL (42-157)
500-225240-1	1401V3-14-B01 (0-4)	138	98	72	83	92	176 S1+ *3
500-225240-1 MS	1401V3-14-B01 (0-4)	129	117	82	92	96	193 S1+ *3
500-225240-1 MSD	1401V3-14-B01 (0-4)	116	110	77	89	88	181 S1+ *3
500-225240-2	1401V3-14-B01 (4-8)	142	87	75	88	75	122
LCS 500-686105/2-A	Lab Control Sample	131	113	92	95	112	107
MB 500-686105/1-A	Method Blank	140	112	85	103	107	112

Surrogate Legend

2FP = 2-Fluorophenol
PHL = Phenol-d5
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol
TPHL = Terphenyl-d14 (Surr)

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-684930/11
Matrix: Solid
Analysis Batch: 684930

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			11/15/22 15:07	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			11/15/22 15:07	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			11/15/22 15:07	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			11/15/22 15:07	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			11/15/22 15:07	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			11/15/22 15:07	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			11/15/22 15:07	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			11/15/22 15:07	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			11/15/22 15:07	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			11/15/22 15:07	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			11/15/22 15:07	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			11/15/22 15:07	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			11/15/22 15:07	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			11/15/22 15:07	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			11/15/22 15:07	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			11/15/22 15:07	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			11/15/22 15:07	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			11/15/22 15:07	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			11/15/22 15:07	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			11/15/22 15:07	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			11/15/22 15:07	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			11/15/22 15:07	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			11/15/22 15:07	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			11/15/22 15:07	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			11/15/22 15:07	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			11/15/22 15:07	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			11/15/22 15:07	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/15/22 15:07	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			11/15/22 15:07	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			11/15/22 15:07	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			11/15/22 15:07	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			11/15/22 15:07	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			11/15/22 15:07	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/15/22 15:07	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			11/15/22 15:07	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			11/15/22 15:07	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			11/15/22 15:07	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	106		75 - 131		11/15/22 15:07	1
Dibromofluoromethane	107		75 - 126		11/15/22 15:07	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		11/15/22 15:07	1
Toluene-d8 (Surr)	99		75 - 124		11/15/22 15:07	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-684930/4
Matrix: Solid
Analysis Batch: 684930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0400	0.0280		mg/Kg		70	40 - 150
Benzene	0.0400	0.0430		mg/Kg		107	70 - 125
Bromodichloromethane	0.0400	0.0434		mg/Kg		108	67 - 129
Bromoform	0.0400	0.0420		mg/Kg		105	68 - 136
Bromomethane	0.0400	0.0458		mg/Kg		114	70 - 130
2-Butanone (MEK)	0.0400	0.0265		mg/Kg		66	47 - 138
Carbon disulfide	0.0400	0.0435		mg/Kg		109	70 - 129
Carbon tetrachloride	0.0400	0.0453		mg/Kg		113	75 - 125
Chlorobenzene	0.0400	0.0463		mg/Kg		116	50 - 150
Chloroethane	0.0400	0.0473		mg/Kg		118	75 - 125
Chloroform	0.0400	0.0416		mg/Kg		104	57 - 135
Chloromethane	0.0400	0.0411		mg/Kg		103	70 - 125
cis-1,2-Dichloroethene	0.0400	0.0432		mg/Kg		108	70 - 125
cis-1,3-Dichloropropene	0.0400	0.0433		mg/Kg		108	70 - 125
Dibromochloromethane	0.0400	0.0436		mg/Kg		109	69 - 125
1,1-Dichloroethane	0.0400	0.0423		mg/Kg		106	70 - 125
1,2-Dichloroethane	0.0400	0.0433		mg/Kg		108	70 - 130
1,1-Dichloroethene	0.0400	0.0482	*+	mg/Kg		121	70 - 120
1,2-Dichloropropane	0.0400	0.0407		mg/Kg		102	70 - 125
Ethylbenzene	0.0400	0.0425		mg/Kg		106	61 - 136
2-Hexanone	0.0400	0.0318		mg/Kg		79	48 - 146
Methylene Chloride	0.0400	0.0421		mg/Kg		105	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0400	0.0280		mg/Kg		70	50 - 148
Methyl tert-butyl ether	0.0400	0.0380		mg/Kg		95	50 - 140
Styrene	0.0400	0.0430		mg/Kg		108	70 - 125
1,1,2,2-Tetrachloroethane	0.0400	0.0406		mg/Kg		102	70 - 122
Tetrachloroethene	0.0400	0.0471		mg/Kg		118	70 - 124
Toluene	0.0400	0.0417		mg/Kg		104	70 - 125
trans-1,2-Dichloroethene	0.0400	0.0474		mg/Kg		118	70 - 125
trans-1,3-Dichloropropene	0.0400	0.0451		mg/Kg		113	70 - 125
1,1,1-Trichloroethane	0.0400	0.0424		mg/Kg		106	70 - 128
1,1,2-Trichloroethane	0.0400	0.0432		mg/Kg		108	70 - 125
Trichloroethene	0.0400	0.0507	*+	mg/Kg		127	70 - 125
Vinyl acetate	0.0400	0.0295		mg/Kg		74	40 - 153
Vinyl chloride	0.0400	0.0458		mg/Kg		115	70 - 125
Xylenes, Total	0.0800	0.0783		mg/Kg		98	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	113		75 - 131
Dibromofluoromethane	101		75 - 126
1,2-Dichloroethane-d4 (Surr)	97		70 - 134
Toluene-d8 (Surr)	105		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-684930/5
Matrix: Solid
Analysis Batch: 684930

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.0400	0.0363		mg/Kg		91	40 - 150	26	30
Benzene	0.0400	0.0417		mg/Kg		104	70 - 125	3	30
Bromodichloromethane	0.0400	0.0426		mg/Kg		106	67 - 129	2	30
Bromoform	0.0400	0.0426		mg/Kg		107	68 - 136	1	30
Bromomethane	0.0400	0.0387		mg/Kg		97	70 - 130	17	30
2-Butanone (MEK)	0.0400	0.0313		mg/Kg		78	47 - 138	17	30
Carbon disulfide	0.0400	0.0419		mg/Kg		105	70 - 129	4	30
Carbon tetrachloride	0.0400	0.0427		mg/Kg		107	75 - 125	6	30
Chlorobenzene	0.0400	0.0441		mg/Kg		110	50 - 150	5	30
Chloroethane	0.0400	0.0402		mg/Kg		100	75 - 125	16	30
Chloroform	0.0400	0.0403		mg/Kg		101	57 - 135	3	30
Chloromethane	0.0400	0.0338		mg/Kg		85	70 - 125	19	30
cis-1,2-Dichloroethene	0.0400	0.0421		mg/Kg		105	70 - 125	2	30
cis-1,3-Dichloropropene	0.0400	0.0428		mg/Kg		107	70 - 125	1	30
Dibromochloromethane	0.0400	0.0426		mg/Kg		106	69 - 125	2	30
1,1-Dichloroethane	0.0400	0.0409		mg/Kg		102	70 - 125	3	30
1,2-Dichloroethane	0.0400	0.0430		mg/Kg		107	70 - 130	1	30
1,1-Dichloroethene	0.0400	0.0451		mg/Kg		113	70 - 120	7	30
1,2-Dichloropropane	0.0400	0.0390		mg/Kg		98	70 - 125	4	30
Ethylbenzene	0.0400	0.0403		mg/Kg		101	61 - 136	5	30
2-Hexanone	0.0400	0.0328		mg/Kg		82	48 - 146	3	30
Methylene Chloride	0.0400	0.0409		mg/Kg		102	70 - 126	3	30
4-Methyl-2-pentanone (MIBK)	0.0400	0.0289		mg/Kg		72	50 - 148	3	30
Methyl tert-butyl ether	0.0400	0.0371		mg/Kg		93	50 - 140	2	30
Styrene	0.0400	0.0421		mg/Kg		105	70 - 125	2	30
1,1,2,2-Tetrachloroethane	0.0400	0.0391		mg/Kg		98	70 - 122	4	30
Tetrachloroethene	0.0400	0.0446		mg/Kg		112	70 - 124	5	30
Toluene	0.0400	0.0394		mg/Kg		99	70 - 125	6	30
trans-1,2-Dichloroethene	0.0400	0.0454		mg/Kg		114	70 - 125	4	30
trans-1,3-Dichloropropene	0.0400	0.0447		mg/Kg		112	70 - 125	1	30
1,1,1-Trichloroethane	0.0400	0.0402		mg/Kg		100	70 - 128	5	30
1,1,2-Trichloroethane	0.0400	0.0419		mg/Kg		105	70 - 125	3	30
Trichloroethene	0.0400	0.0487		mg/Kg		122	70 - 125	4	30
Vinyl acetate	0.0400	0.0303		mg/Kg		76	40 - 153	3	30
Vinyl chloride	0.0400	0.0384		mg/Kg		96	70 - 125	18	30
Xylenes, Total	0.0800	0.0750		mg/Kg		94	53 - 147	4	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	111		75 - 131
Dibromofluoromethane	103		75 - 126
1,2-Dichloroethane-d4 (Surr)	101		70 - 134
Toluene-d8 (Surr)	103		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-685181/6
Matrix: Solid
Analysis Batch: 685181

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			11/16/22 10:40	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			11/16/22 10:40	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			11/16/22 10:40	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			11/16/22 10:40	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			11/16/22 10:40	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			11/16/22 10:40	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			11/16/22 10:40	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			11/16/22 10:40	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			11/16/22 10:40	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			11/16/22 10:40	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			11/16/22 10:40	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			11/16/22 10:40	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			11/16/22 10:40	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			11/16/22 10:40	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			11/16/22 10:40	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			11/16/22 10:40	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			11/16/22 10:40	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			11/16/22 10:40	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			11/16/22 10:40	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			11/16/22 10:40	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			11/16/22 10:40	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			11/16/22 10:40	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			11/16/22 10:40	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			11/16/22 10:40	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			11/16/22 10:40	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			11/16/22 10:40	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			11/16/22 10:40	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/16/22 10:40	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			11/16/22 10:40	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			11/16/22 10:40	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			11/16/22 10:40	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			11/16/22 10:40	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			11/16/22 10:40	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/16/22 10:40	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			11/16/22 10:40	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			11/16/22 10:40	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			11/16/22 10:40	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	102		75 - 131		11/16/22 10:40	1
Dibromofluoromethane	105		75 - 126		11/16/22 10:40	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134		11/16/22 10:40	1
Toluene-d8 (Surr)	97		75 - 124		11/16/22 10:40	1

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-685181/3
Matrix: Solid
Analysis Batch: 685181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0400	0.0335		mg/Kg		84	40 - 150
Benzene	0.0400	0.0439		mg/Kg		110	70 - 125
Bromodichloromethane	0.0400	0.0465		mg/Kg		116	67 - 129
Bromoform	0.0400	0.0470		mg/Kg		118	68 - 136
Bromomethane	0.0400	0.0510		mg/Kg		128	70 - 130
2-Butanone (MEK)	0.0400	0.0349		mg/Kg		87	47 - 138
Carbon disulfide	0.0400	0.0459		mg/Kg		115	70 - 129
Carbon tetrachloride	0.0400	0.0478		mg/Kg		120	75 - 125
Chlorobenzene	0.0400	0.0462		mg/Kg		115	50 - 150
Chloroethane	0.0400	0.0493		mg/Kg		123	75 - 125
Chloroform	0.0400	0.0420		mg/Kg		105	57 - 135
Chloromethane	0.0400	0.0437		mg/Kg		109	70 - 125
cis-1,2-Dichloroethene	0.0400	0.0444		mg/Kg		111	70 - 125
cis-1,3-Dichloropropene	0.0400	0.0419		mg/Kg		105	70 - 125
Dibromochloromethane	0.0400	0.0445		mg/Kg		111	69 - 125
1,1-Dichloroethane	0.0400	0.0429		mg/Kg		107	70 - 125
1,2-Dichloroethane	0.0400	0.0464		mg/Kg		116	70 - 130
1,1-Dichloroethene	0.0400	0.0484	*+	mg/Kg		121	70 - 120
1,2-Dichloropropane	0.0400	0.0443		mg/Kg		111	70 - 125
Ethylbenzene	0.0400	0.0432		mg/Kg		108	61 - 136
2-Hexanone	0.0400	0.0393		mg/Kg		98	48 - 146
Methylene Chloride	0.0400	0.0503		mg/Kg		126	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0400	0.0332		mg/Kg		83	50 - 148
Methyl tert-butyl ether	0.0400	0.0425		mg/Kg		106	50 - 140
Styrene	0.0400	0.0454		mg/Kg		114	70 - 125
1,1,2,2-Tetrachloroethane	0.0400	0.0408		mg/Kg		102	70 - 122
Tetrachloroethene	0.0400	0.0447		mg/Kg		112	70 - 124
Toluene	0.0400	0.0411		mg/Kg		103	70 - 125
trans-1,2-Dichloroethene	0.0400	0.0462		mg/Kg		116	70 - 125
trans-1,3-Dichloropropene	0.0400	0.0452		mg/Kg		113	70 - 125
1,1,1-Trichloroethane	0.0400	0.0447		mg/Kg		112	70 - 128
1,1,2-Trichloroethane	0.0400	0.0433		mg/Kg		108	70 - 125
Trichloroethene	0.0400	0.0500		mg/Kg		125	70 - 125
Vinyl acetate	0.0400	0.0306		mg/Kg		76	40 - 153
Vinyl chloride	0.0400	0.0502		mg/Kg		125	70 - 125
Xylenes, Total	0.0800	0.0793		mg/Kg		99	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	111		75 - 131
Dibromofluoromethane	103		75 - 126
1,2-Dichloroethane-d4 (Surr)	100		70 - 134
Toluene-d8 (Surr)	100		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-685181/4
Matrix: Solid
Analysis Batch: 685181

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.0400	0.0319		mg/Kg		80	40 - 150	5	30
Benzene	0.0400	0.0457		mg/Kg		114	70 - 125	4	30
Bromodichloromethane	0.0400	0.0484		mg/Kg		121	67 - 129	4	30
Bromoform	0.0400	0.0511		mg/Kg		128	68 - 136	8	30
Bromomethane	0.0400	0.0498		mg/Kg		124	70 - 130	3	30
2-Butanone (MEK)	0.0400	0.0361		mg/Kg		90	47 - 138	3	30
Carbon disulfide	0.0400	0.0484		mg/Kg		121	70 - 129	5	30
Carbon tetrachloride	0.0400	0.0517	*+	mg/Kg		129	75 - 125	8	30
Chlorobenzene	0.0400	0.0478		mg/Kg		120	50 - 150	3	30
Chloroethane	0.0400	0.0486		mg/Kg		121	75 - 125	1	30
Chloroform	0.0400	0.0429		mg/Kg		107	57 - 135	2	30
Chloromethane	0.0400	0.0431		mg/Kg		108	70 - 125	1	30
cis-1,2-Dichloroethene	0.0400	0.0449		mg/Kg		112	70 - 125	1	30
cis-1,3-Dichloropropene	0.0400	0.0421		mg/Kg		105	70 - 125	0	30
Dibromochloromethane	0.0400	0.0470		mg/Kg		118	69 - 125	5	30
1,1-Dichloroethane	0.0400	0.0429		mg/Kg		107	70 - 125	0	30
1,2-Dichloroethane	0.0400	0.0492		mg/Kg		123	70 - 130	6	30
1,1-Dichloroethene	0.0400	0.0487	*+	mg/Kg		122	70 - 120	1	30
1,2-Dichloropropane	0.0400	0.0468		mg/Kg		117	70 - 125	6	30
Ethylbenzene	0.0400	0.0452		mg/Kg		113	61 - 136	4	30
2-Hexanone	0.0400	0.0434		mg/Kg		108	48 - 146	10	30
Methylene Chloride	0.0400	0.0513	*+	mg/Kg		128	70 - 126	2	30
4-Methyl-2-pentanone (MIBK)	0.0400	0.0359		mg/Kg		90	50 - 148	8	30
Methyl tert-butyl ether	0.0400	0.0481		mg/Kg		120	50 - 140	12	30
Styrene	0.0400	0.0470		mg/Kg		117	70 - 125	3	30
1,1,2,2-Tetrachloroethane	0.0400	0.0463		mg/Kg		116	70 - 122	13	30
Tetrachloroethene	0.0400	0.0467		mg/Kg		117	70 - 124	4	30
Toluene	0.0400	0.0417		mg/Kg		104	70 - 125	2	30
trans-1,2-Dichloroethene	0.0400	0.0470		mg/Kg		117	70 - 125	2	30
trans-1,3-Dichloropropene	0.0400	0.0469		mg/Kg		117	70 - 125	4	30
1,1,1-Trichloroethane	0.0400	0.0498		mg/Kg		124	70 - 128	11	30
1,1,2-Trichloroethane	0.0400	0.0466		mg/Kg		116	70 - 125	7	30
Trichloroethene	0.0400	0.0513	*+	mg/Kg		128	70 - 125	3	30
Vinyl acetate	0.0400	0.0326		mg/Kg		82	40 - 153	6	30
Vinyl chloride	0.0400	0.0481		mg/Kg		120	70 - 125	4	30
Xylenes, Total	0.0800	0.0826		mg/Kg		103	53 - 147	4	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	110		75 - 131
Dibromofluoromethane	104		75 - 126
1,2-Dichloroethane-d4 (Surr)	103		70 - 134
Toluene-d8 (Surr)	100		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-686105/1-A
Matrix: Solid
Analysis Batch: 686786

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686105

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Isophorone	<0.17		0.17	0.037	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Carbazole	<0.17		0.17	0.083	mg/Kg		11/20/22 08:53	11/23/22 15:21	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-686105/1-A
Matrix: Solid
Analysis Batch: 686786

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686105

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		11/20/22 08:53	11/23/22 15:21	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		11/20/22 08:53	11/23/22 15:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	140		31 - 166	11/20/22 08:53	11/23/22 15:21	1
Phenol-d5	112		30 - 153	11/20/22 08:53	11/23/22 15:21	1
Nitrobenzene-d5 (Surr)	85		37 - 147	11/20/22 08:53	11/23/22 15:21	1
2-Fluorobiphenyl (Surr)	103		43 - 145	11/20/22 08:53	11/23/22 15:21	1
2,4,6-Tribromophenol	107		31 - 143	11/20/22 08:53	11/23/22 15:21	1
Terphenyl-d14 (Surr)	112		42 - 157	11/20/22 08:53	11/23/22 15:21	1

Lab Sample ID: LCS 500-686105/2-A
Matrix: Solid
Analysis Batch: 686786

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686105

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenol	1.33	1.38		mg/Kg		104	56 - 122
Bis(2-chloroethyl)ether	1.33	1.23		mg/Kg		92	55 - 111
1,3-Dichlorobenzene	1.33	1.15		mg/Kg		87	65 - 124
1,4-Dichlorobenzene	1.33	1.20		mg/Kg		90	61 - 110
1,2-Dichlorobenzene	1.33	1.17		mg/Kg		88	62 - 110
2-Methylphenol	1.33	1.31		mg/Kg		99	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.13		mg/Kg		84	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.18		mg/Kg		88	56 - 118
Hexachloroethane	1.33	1.12		mg/Kg		84	60 - 114
2-Chlorophenol	1.33	1.38		mg/Kg		104	64 - 110
Nitrobenzene	1.33	1.25		mg/Kg		94	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.23		mg/Kg		92	60 - 112
1,2,4-Trichlorobenzene	1.33	1.30		mg/Kg		98	66 - 117
Isophorone	1.33	1.19		mg/Kg		90	55 - 110
2,4-Dimethylphenol	1.33	1.26		mg/Kg		95	60 - 110
Hexachlorobutadiene	1.33	1.23		mg/Kg		93	56 - 120
Naphthalene	1.33	1.22		mg/Kg		91	63 - 110
2,4-Dichlorophenol	1.33	1.32		mg/Kg		99	58 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-686105/2-A

Matrix: Solid

Analysis Batch: 686786

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 686105

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloroaniline	1.33	0.810		mg/Kg		61	30 - 150
2,4,6-Trichlorophenol	1.33	1.32		mg/Kg		99	57 - 120
2,4,5-Trichlorophenol	1.33	1.34		mg/Kg		101	50 - 120
Hexachlorocyclopentadiene	1.33	0.644	J	mg/Kg		48	10 - 133
2-Methylnaphthalene	1.33	1.22		mg/Kg		92	69 - 112
2-Nitroaniline	1.33	1.31		mg/Kg		98	57 - 124
2-Chloronaphthalene	1.33	1.31		mg/Kg		98	69 - 114
4-Chloro-3-methylphenol	1.33	1.38		mg/Kg		104	65 - 122
2,6-Dinitrotoluene	1.33	1.49		mg/Kg		112	70 - 123
2-Nitrophenol	1.33	1.34		mg/Kg		101	60 - 120
3-Nitroaniline	1.33	0.775		mg/Kg		58	40 - 122
Dimethyl phthalate	1.33	1.33		mg/Kg		100	69 - 116
2,4-Dinitrophenol	2.67	0.851		mg/Kg		32	10 - 100
Acenaphthylene	1.33	1.33		mg/Kg		100	68 - 120
2,4-Dinitrotoluene	1.33	1.35		mg/Kg		101	69 - 124
Acenaphthene	1.33	1.30		mg/Kg		97	65 - 124
Dibenzofuran	1.33	1.33		mg/Kg		100	66 - 115
4-Nitrophenol	2.67	2.50		mg/Kg		94	30 - 122
Fluorene	1.33	1.31		mg/Kg		98	62 - 120
4-Nitroaniline	1.33	1.25		mg/Kg		94	60 - 160
4-Bromophenyl phenyl ether	1.33	1.26		mg/Kg		95	68 - 118
Hexachlorobenzene	1.33	1.26		mg/Kg		95	63 - 124
Diethyl phthalate	1.33	1.27		mg/Kg		95	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.32		mg/Kg		99	62 - 119
Pentachlorophenol	2.67	1.79		mg/Kg		67	13 - 112
N-Nitrosodiphenylamine	1.33	1.27		mg/Kg		95	65 - 112
4,6-Dinitro-2-methylphenol	2.67	1.47		mg/Kg		55	10 - 110
Phenanthrene	1.33	1.22		mg/Kg		91	62 - 120
Anthracene	1.33	1.26		mg/Kg		95	70 - 114
Carbazole	1.33	1.39		mg/Kg		105	65 - 142
Di-n-butyl phthalate	1.33	1.30		mg/Kg		98	65 - 120
Fluoranthene	1.33	1.30		mg/Kg		98	62 - 120
Pyrene	1.33	1.40		mg/Kg		105	61 - 128
Butyl benzyl phthalate	1.33	1.41		mg/Kg		106	71 - 129
Benzo[a]anthracene	1.33	1.40		mg/Kg		105	67 - 122
Chrysene	1.33	1.39		mg/Kg		104	63 - 120
3,3'-Dichlorobenzidine	1.33	1.06		mg/Kg		80	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.49		mg/Kg		112	72 - 131
Di-n-octyl phthalate	1.33	1.53		mg/Kg		115	68 - 134
Benzo[b]fluoranthene	1.33	1.32		mg/Kg		99	69 - 129
Benzo[k]fluoranthene	1.33	1.22		mg/Kg		92	68 - 127
Benzo[a]pyrene	1.33	1.38		mg/Kg		104	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.54		mg/Kg		115	68 - 130
Dibenz(a,h)anthracene	1.33	1.46		mg/Kg		110	64 - 131
Benzo[g,h,i]perylene	1.33	1.46		mg/Kg		110	72 - 131
3 & 4 Methylphenol	1.33	1.33		mg/Kg		100	57 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-686105/2-A
Matrix: Solid
Analysis Batch: 686786

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686105

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	131		31 - 166
Phenol-d5	113		30 - 153
Nitrobenzene-d5 (Surr)	92		37 - 147
2-Fluorobiphenyl (Surr)	95		43 - 145
2,4,6-Tribromophenol	112		31 - 143
Terphenyl-d14 (Surr)	107		42 - 157

Lab Sample ID: 500-225240-1 MS
Matrix: Solid
Analysis Batch: 686786

Client Sample ID: 1401V3-14-B01 (0-4)
Prep Type: Total/NA
Prep Batch: 686105

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Phenol	<0.19		1.57	1.83		mg/Kg	☼	116	56 - 122
Bis(2-chloroethyl)ether	<0.19		1.57	1.52		mg/Kg	☼	97	55 - 111
1,3-Dichlorobenzene	<0.19		1.57	1.19		mg/Kg	☼	76	60 - 110
1,4-Dichlorobenzene	<0.19		1.57	1.21		mg/Kg	☼	77	61 - 110
1,2-Dichlorobenzene	<0.19		1.57	1.24		mg/Kg	☼	79	62 - 110
2-Methylphenol	<0.19		1.57	1.38		mg/Kg	☼	88	60 - 120
2,2'-oxybis[1-chloropropane]	<0.19		1.57	1.29		mg/Kg	☼	82	40 - 124
N-Nitrosodi-n-propylamine	<0.077		1.57	1.16		mg/Kg	☼	74	56 - 118
Hexachloroethane	<0.19	F1	1.57	0.651	F1	mg/Kg	☼	41	60 - 114
2-Chlorophenol	<0.19		1.57	1.64		mg/Kg	☼	105	64 - 110
Nitrobenzene	<0.038		1.57	1.34		mg/Kg	☼	85	60 - 116
Bis(2-chloroethoxy)methane	<0.19		1.57	1.44		mg/Kg	☼	92	60 - 112
1,2,4-Trichlorobenzene	<0.19		1.57	1.43		mg/Kg	☼	91	66 - 117
Isophorone	<0.19		1.57	1.35		mg/Kg	☼	86	55 - 110
2,4-Dimethylphenol	<0.38	F1	1.57	0.907	F1	mg/Kg	☼	58	60 - 110
Hexachlorobutadiene	<0.19		1.57	1.30		mg/Kg	☼	83	56 - 120
Naphthalene	<0.038		1.57	1.38		mg/Kg	☼	88	63 - 110
2,4-Dichlorophenol	<0.38		1.57	1.71		mg/Kg	☼	109	58 - 120
4-Chloroaniline	<0.77		1.57	0.899		mg/Kg	☼	57	30 - 150
2,4,6-Trichlorophenol	<0.38		1.57	1.22		mg/Kg	☼	77	57 - 120
2,4,5-Trichlorophenol	<0.38	F2	1.57	1.79		mg/Kg	☼	114	50 - 120
Hexachlorocyclopentadiene	<0.77	F1	1.57	<0.79	F1	mg/Kg	☼	0	10 - 133
2-Methylnaphthalene	<0.077		1.57	1.54		mg/Kg	☼	98	69 - 112
2-Nitroaniline	<0.19		1.57	1.53		mg/Kg	☼	97	57 - 124
2-Chloronaphthalene	<0.19		1.57	1.55		mg/Kg	☼	99	69 - 114
4-Chloro-3-methylphenol	<0.38		1.57	1.45		mg/Kg	☼	92	65 - 122
2,6-Dinitrotoluene	<0.19		1.57	1.70		mg/Kg	☼	108	70 - 123
2-Nitrophenol	<0.38		1.57	1.44		mg/Kg	☼	92	60 - 120
3-Nitroaniline	<0.38		1.57	1.92		mg/Kg	☼	122	40 - 122
Dimethyl phthalate	<0.19		1.57	1.67		mg/Kg	☼	106	69 - 116
2,4-Dinitrophenol	<0.77	F1	3.14	<0.79	F1	mg/Kg	☼	0	10 - 100
Acenaphthylene	<0.038		1.57	1.64		mg/Kg	☼	105	68 - 120
2,4-Dinitrotoluene	<0.19		1.57	1.40		mg/Kg	☼	89	69 - 124
Acenaphthene	<0.038		1.57	1.58		mg/Kg	☼	101	65 - 124
Dibenzofuran	<0.19		1.57	1.64		mg/Kg	☼	104	66 - 115
4-Nitrophenol	<0.77	F1 F2	3.14	0.879	F1	mg/Kg	☼	28	30 - 122

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-225240-1 MS
Matrix: Solid
Analysis Batch: 686786

Client Sample ID: 1401V3-14-B01 (0-4)
Prep Type: Total/NA
Prep Batch: 686105

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluorene	<0.038		1.57	1.61		mg/Kg	☼	103	62 - 120
4-Nitroaniline	<0.38		1.57	1.64		mg/Kg	☼	104	60 - 160
4-Bromophenyl phenyl ether	<0.19		1.57	1.65		mg/Kg	☼	105	68 - 118
Hexachlorobenzene	<0.077		1.57	1.55		mg/Kg	☼	99	63 - 124
Diethyl phthalate	<0.19		1.57	1.54		mg/Kg	☼	98	58 - 120
4-Chlorophenyl phenyl ether	<0.19		1.57	1.65		mg/Kg	☼	105	62 - 119
Pentachlorophenol	<0.77	F1	3.14	<0.79	F1	mg/Kg	☼	0	13 - 112
N-Nitrosodiphenylamine	<0.19		1.57	1.62		mg/Kg	☼	103	65 - 112
4,6-Dinitro-2-methylphenol	<0.77	F1	3.14	<0.79	F1	mg/Kg	☼	0	10 - 110
Phenanthrene	0.030	J	1.57	1.62		mg/Kg	☼	101	62 - 120
Anthracene	0.0066	J	1.57	1.66		mg/Kg	☼	105	70 - 114
Carbazole	<0.19		1.57	1.77		mg/Kg	☼	113	65 - 142
Di-n-butyl phthalate	<0.19		1.57	1.67		mg/Kg	☼	106	65 - 120
Fluoranthene	0.075		1.57	1.53		mg/Kg	☼	93	62 - 120
Pyrene	0.11	*3 F1	1.57	2.98	E F1 *3	mg/Kg	☼	183	61 - 128
Butyl benzyl phthalate	<0.19	*3 F1	1.57	2.98	E F1 *3	mg/Kg	☼	190	71 - 129
Benzo[a]anthracene	0.043	*3 F1	1.57	2.00	F1 *3	mg/Kg	☼	125	67 - 122
Chrysene	0.059	*3	1.57	1.91	*3	mg/Kg	☼	118	63 - 120
3,3'-Dichlorobenzidine	<0.19	*3	1.57	0.935	*3	mg/Kg	☼	59	35 - 128
Bis(2-ethylhexyl) phthalate	<0.19	*3 F1	1.57	3.02	E F1 *3	mg/Kg	☼	192	72 - 131
Di-n-octyl phthalate	<0.19		1.57	1.19		mg/Kg	☼	76	68 - 134
Benzo[b]fluoranthene	0.095	*3	1.57	2.12	*3	mg/Kg	☼	129	69 - 129
Benzo[k]fluoranthene	0.036	J *3	1.57	1.98	*3	mg/Kg	☼	124	68 - 127
Benzo[a]pyrene	0.067	*3	1.57	1.87	*3	mg/Kg	☼	115	65 - 133
Indeno[1,2,3-cd]pyrene	0.040	*3 F1	1.57	1.17	*3	mg/Kg	☼	72	68 - 130
Dibenz(a,h)anthracene	<0.038	*3	1.57	1.19	*3	mg/Kg	☼	76	64 - 131
Benzo[g,h,i]perylene	0.028	J *3 F1	1.57	0.963	F1 *3	mg/Kg	☼	60	72 - 131
3 & 4 Methylphenol	<0.19		1.57	1.41		mg/Kg	☼	90	57 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorophenol	129		31 - 166
Phenol-d5	117		30 - 153
Nitrobenzene-d5 (Surr)	82		37 - 147
2-Fluorobiphenyl (Surr)	92		43 - 145
2,4,6-Tribromophenol	96		31 - 143
Terphenyl-d14 (Surr)	193	S1+ *3	42 - 157

Lab Sample ID: 500-225240-1 MSD
Matrix: Solid
Analysis Batch: 686786

Client Sample ID: 1401V3-14-B01 (0-4)
Prep Type: Total/NA
Prep Batch: 686105

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenol	<0.19		1.55	1.74		mg/Kg	☼	112	56 - 122	5	30
Bis(2-chloroethyl)ether	<0.19		1.55	1.68		mg/Kg	☼	108	55 - 111	10	30
1,3-Dichlorobenzene	<0.19		1.55	1.07		mg/Kg	☼	69	60 - 110	10	30
1,4-Dichlorobenzene	<0.19		1.55	1.10		mg/Kg	☼	71	61 - 110	10	30
1,2-Dichlorobenzene	<0.19		1.55	1.12		mg/Kg	☼	72	62 - 110	10	30
2-Methylphenol	<0.19		1.55	1.36		mg/Kg	☼	88	60 - 120	2	30

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-225240-1 MSD

Matrix: Solid

Analysis Batch: 686786

Client Sample ID: 1401V3-14-B01 (0-4)

Prep Type: Total/NA

Prep Batch: 686105

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
2,2'-oxybis[1-chloropropane]	<0.19		1.55	1.19		mg/Kg	☼	76	40 - 124	8	30
N-Nitrosodi-n-propylamine	<0.077		1.55	1.16		mg/Kg	☼	75	56 - 118	0	30
Hexachloroethane	<0.19	F1	1.55	0.584	F1	mg/Kg	☼	38	60 - 114	11	30
2-Chlorophenol	<0.19		1.55	1.51		mg/Kg	☼	97	64 - 110	8	30
Nitrobenzene	<0.038		1.55	1.23		mg/Kg	☼	79	60 - 116	8	30
Bis(2-chloroethoxy)methane	<0.19		1.55	1.31		mg/Kg	☼	84	60 - 112	10	30
1,2,4-Trichlorobenzene	<0.19		1.55	1.32		mg/Kg	☼	85	66 - 117	8	30
Isophorone	<0.19		1.55	1.24		mg/Kg	☼	80	55 - 110	9	30
2,4-Dimethylphenol	<0.38	F1	1.55	0.965		mg/Kg	☼	62	60 - 110	6	30
Hexachlorobutadiene	<0.19		1.55	1.09		mg/Kg	☼	70	56 - 120	18	30
Naphthalene	<0.038		1.55	1.28		mg/Kg	☼	82	63 - 110	7	30
2,4-Dichlorophenol	<0.38		1.55	1.57		mg/Kg	☼	101	58 - 120	9	30
4-Chloroaniline	<0.77		1.55	0.837		mg/Kg	☼	54	30 - 150	7	30
2,4,6-Trichlorophenol	<0.38		1.55	1.17		mg/Kg	☼	75	57 - 120	4	30
2,4,5-Trichlorophenol	<0.38	F2	1.55	1.30	F2	mg/Kg	☼	83	50 - 120	32	30
Hexachlorocyclopentadiene	<0.77	F1	1.55	<0.78	F1	mg/Kg	☼	0	10 - 133	NC	30
2-Methylnaphthalene	<0.077		1.55	1.40		mg/Kg	☼	90	69 - 112	10	30
2-Nitroaniline	<0.19		1.55	1.42		mg/Kg	☼	91	57 - 124	7	30
2-Chloronaphthalene	<0.19		1.55	1.42		mg/Kg	☼	91	69 - 114	9	30
4-Chloro-3-methylphenol	<0.38		1.55	1.60		mg/Kg	☼	103	65 - 122	10	30
2,6-Dinitrotoluene	<0.19		1.55	1.61		mg/Kg	☼	103	70 - 123	6	30
2-Nitrophenol	<0.38		1.55	1.37		mg/Kg	☼	88	60 - 120	5	30
3-Nitroaniline	<0.38		1.55	1.76		mg/Kg	☼	113	40 - 122	9	30
Dimethyl phthalate	<0.19		1.55	1.54		mg/Kg	☼	99	69 - 116	8	30
2,4-Dinitrophenol	<0.77	F1	3.11	<0.78	F1	mg/Kg	☼	0	10 - 100	NC	30
Acenaphthylene	<0.038		1.55	1.50		mg/Kg	☼	96	68 - 120	9	30
2,4-Dinitrotoluene	<0.19		1.55	1.35		mg/Kg	☼	87	69 - 124	4	30
Acenaphthene	<0.038		1.55	1.46		mg/Kg	☼	94	65 - 124	8	30
Dibenzofuran	<0.19		1.55	1.51		mg/Kg	☼	97	66 - 115	8	30
4-Nitrophenol	<0.77	F1 F2	3.11	1.65	F2	mg/Kg	☼	53	30 - 122	61	30
Fluorene	<0.038		1.55	1.48		mg/Kg	☼	95	62 - 120	9	30
4-Nitroaniline	<0.38		1.55	1.61		mg/Kg	☼	104	60 - 160	2	30
4-Bromophenyl phenyl ether	<0.19		1.55	1.48		mg/Kg	☼	96	68 - 118	11	30
Hexachlorobenzene	<0.077		1.55	1.43		mg/Kg	☼	92	63 - 124	8	30
Diethyl phthalate	<0.19		1.55	1.44		mg/Kg	☼	93	58 - 120	6	30
4-Chlorophenyl phenyl ether	<0.19		1.55	1.54		mg/Kg	☼	99	62 - 119	7	30
Pentachlorophenol	<0.77	F1	3.11	1.10		mg/Kg	☼	35	13 - 112	NC	30
N-Nitrosodiphenylamine	<0.19		1.55	1.45		mg/Kg	☼	93	65 - 112	11	30
4,6-Dinitro-2-methylphenol	<0.77	F1	3.11	<0.78	F1	mg/Kg	☼	0	10 - 110	NC	30
Phenanthrene	0.030	J	1.55	1.46		mg/Kg	☼	92	62 - 120	10	30
Anthracene	0.0066	J	1.55	1.49		mg/Kg	☼	95	70 - 114	11	30
Carbazole	<0.19		1.55	1.62		mg/Kg	☼	104	65 - 142	9	30
Di-n-butyl phthalate	<0.19		1.55	1.51		mg/Kg	☼	97	65 - 120	10	30
Fluoranthene	0.075		1.55	1.43		mg/Kg	☼	87	62 - 120	7	30
Pyrene	0.11	*3 F1	1.55	2.71	F1 *3	mg/Kg	☼	168	61 - 128	9	30
Butyl benzyl phthalate	<0.19	*3 F1	1.55	2.64	F1 *3	mg/Kg	☼	170	71 - 129	12	30
Benzo[a]anthracene	0.043	*3 F1	1.55	1.78	*3	mg/Kg	☼	111	67 - 122	12	30
Chrysene	0.059	*3	1.55	1.67	*3	mg/Kg	☼	104	63 - 120	13	30
3,3'-Dichlorobenzidine	<0.19	*3	1.55	1.02	*3	mg/Kg	☼	65	35 - 128	8	30

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-225240-1 MSD

Matrix: Solid

Analysis Batch: 686786

Client Sample ID: 1401V3-14-B01 (0-4)

Prep Type: Total/NA

Prep Batch: 686105

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier		Result	Qualifier						
Bis(2-ethylhexyl) phthalate	<0.19	*3 F1	1.55	2.69	F1 *3	mg/Kg	☼	173	72 - 131	12	30
Di-n-octyl phthalate	<0.19		1.55	1.09		mg/Kg	☼	70	68 - 134	9	30
Benzo[b]fluoranthene	0.095	*3	1.55	1.98	*3	mg/Kg	☼	121	69 - 129	7	30
Benzo[k]fluoranthene	0.036	J *3	1.55	1.95	*3	mg/Kg	☼	123	68 - 127	2	30
Benzo[a]pyrene	0.067	*3	1.55	1.70	*3	mg/Kg	☼	105	65 - 133	9	30
Indeno[1,2,3-cd]pyrene	0.040	*3 F1	1.55	1.04	F1 *3	mg/Kg	☼	64	68 - 130	12	30
Dibenz(a,h)anthracene	<0.038	*3	1.55	1.05	*3	mg/Kg	☼	67	64 - 131	13	30
Benzo[g,h,i]perylene	0.028	J *3 F1	1.55	0.848	F1 *3	mg/Kg	☼	53	72 - 131	13	30
3 & 4 Methylphenol	<0.19		1.55	1.37		mg/Kg	☼	88	57 - 120	3	30

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2-Fluorophenol	116		31 - 166
Phenol-d5	110		30 - 153
Nitrobenzene-d5 (Surr)	77		37 - 147
2-Fluorobiphenyl (Surr)	89		43 - 145
2,4,6-Tribromophenol	88		31 - 143
Terphenyl-d14 (Surr)	181	S1+ *3	42 - 157

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-685390/1-A

Matrix: Solid

Analysis Batch: 686264

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 685390

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Arsenic	<1.0		1.0	0.34	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Barium	<1.0		1.0	0.11	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Beryllium	<0.40		0.40	0.093	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Boron	<5.0		5.0	0.47	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Cadmium	<0.20		0.20	0.036	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Calcium	<20		20	3.4	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Chromium	<1.0		1.0	0.50	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Cobalt	<0.50		0.50	0.13	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Copper	<1.0		1.0	0.28	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Iron	<20		20	10	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Lead	<0.50		0.50	0.23	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Magnesium	<10		10	5.0	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Manganese	<1.0		1.0	0.15	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Nickel	<1.0		1.0	0.29	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Potassium	<50		50	18	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Selenium	<1.0		1.0	0.59	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Silver	<0.50		0.50	0.13	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Sodium	<100		100	15	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Thallium	<1.0		1.0	0.50	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Vanadium	<0.50		0.50	0.12	mg/Kg		11/16/22 16:18	11/18/22 19:20	1
Zinc	<2.0		2.0	0.88	mg/Kg		11/16/22 16:18	11/18/22 19:20	1

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-685390/2-A
Matrix: Solid
Analysis Batch: 686264

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685390

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	45.0		mg/Kg		90	80 - 120
Arsenic	10.0	9.19		mg/Kg		92	80 - 120
Barium	200	201		mg/Kg		100	80 - 120
Beryllium	5.00	4.63		mg/Kg		93	80 - 120
Boron	100	84.1		mg/Kg		84	80 - 120
Cadmium	5.00	4.55		mg/Kg		91	80 - 120
Calcium	1000	941		mg/Kg		94	80 - 120
Chromium	20.0	18.8		mg/Kg		94	80 - 120
Cobalt	50.0	48.3		mg/Kg		97	80 - 120
Copper	25.0	24.1		mg/Kg		97	80 - 120
Iron	100	100		mg/Kg		100	80 - 120
Lead	10.0	8.80		mg/Kg		88	80 - 120
Magnesium	1000	918		mg/Kg		92	80 - 120
Manganese	50.0	47.4		mg/Kg		95	80 - 120
Nickel	50.0	46.9		mg/Kg		94	80 - 120
Potassium	1000	933		mg/Kg		93	80 - 120
Selenium	10.0	8.39		mg/Kg		84	80 - 120
Silver	5.00	4.24		mg/Kg		85	80 - 120
Sodium	1000	965		mg/Kg		97	80 - 120
Thallium	10.0	8.94		mg/Kg		89	80 - 120
Vanadium	50.0	48.1		mg/Kg		96	80 - 120
Zinc	50.0	46.5		mg/Kg		93	80 - 120

Lab Sample ID: 500-225240-1 MS
Matrix: Solid
Analysis Batch: 686264

Client Sample ID: 1401V3-14-B01 (0-4)
Prep Type: Total/NA
Prep Batch: 685390

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.25	J F1	29.0	5.11	F1	mg/Kg	⊛	17	75 - 125
Arsenic	7.7		5.80	12.5		mg/Kg	⊛	83	75 - 125
Barium	86		116	184		mg/Kg	⊛	84	75 - 125
Beryllium	0.84		2.90	3.51		mg/Kg	⊛	92	75 - 125
Boron	6.7	F1	58.0	47.8	F1	mg/Kg	⊛	71	75 - 125
Cadmium	0.26		2.90	2.65		mg/Kg	⊛	82	75 - 125
Calcium	26000		580	30000	4	mg/Kg	⊛	668	75 - 125
Chromium	16		11.6	25.8		mg/Kg	⊛	88	75 - 125
Cobalt	11		29.0	39.6		mg/Kg	⊛	99	75 - 125
Copper	20		14.5	31.2		mg/Kg	⊛	77	75 - 125
Iron	19000		58.0	19700	4	mg/Kg	⊛	1344	75 - 125
Lead	22	F1	5.80	24.6	F1	mg/Kg	⊛	51	75 - 125
Magnesium	12000		580	15700	4	mg/Kg	⊛	591	75 - 125
Manganese	470		29.0	512	4	mg/Kg	⊛	142	75 - 125
Nickel	24	^2	29.0	52.0		mg/Kg	⊛	98	75 - 125
Potassium	1700	F1	580	3220	F1	mg/Kg	⊛	268	75 - 125
Selenium	<0.58	F1	5.80	3.80	F1	mg/Kg	⊛	66	75 - 125
Silver	0.32		2.90	2.53		mg/Kg	⊛	76	75 - 125
Sodium	120		580	627		mg/Kg	⊛	87	75 - 125
Thallium	<0.58		5.80	4.99		mg/Kg	⊛	86	75 - 125
Vanadium	22		29.0	49.6		mg/Kg	⊛	93	75 - 125

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-225240-1 MS

Matrix: Solid

Analysis Batch: 686264

Client Sample ID: 1401V3-14-B01 (0-4)

Prep Type: Total/NA

Prep Batch: 685390

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	69	^2	29.0	95.0		mg/Kg	⊛	90	75 - 125

Lab Sample ID: 500-225240-1 MSD

Matrix: Solid

Analysis Batch: 686264

Client Sample ID: 1401V3-14-B01 (0-4)

Prep Type: Total/NA

Prep Batch: 685390

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.25	J F1	29.9	5.37	F1	mg/Kg	⊛	17	75 - 125	5	20
Arsenic	7.7		5.98	12.8		mg/Kg	⊛	86	75 - 125	2	20
Barium	86		120	194		mg/Kg	⊛	90	75 - 125	5	20
Beryllium	0.84		2.99	3.65		mg/Kg	⊛	94	75 - 125	4	20
Boron	6.7	F1	59.8	48.5	F1	mg/Kg	⊛	70	75 - 125	1	20
Cadmium	0.26		2.99	2.68		mg/Kg	⊛	81	75 - 125	1	20
Calcium	26000		598	26800	4	mg/Kg	⊛	108	75 - 125	11	20
Chromium	16		12.0	27.2		mg/Kg	⊛	96	75 - 125	5	20
Cobalt	11		29.9	40.5		mg/Kg	⊛	99	75 - 125	2	20
Copper	20		15.0	33.2		mg/Kg	⊛	89	75 - 125	6	20
Iron	19000		59.8	21200	4	mg/Kg	⊛	3764	75 - 125	7	20
Lead	22	F1	5.98	24.8	F1	mg/Kg	⊛	54	75 - 125	1	20
Magnesium	12000		598	15100	4	mg/Kg	⊛	477	75 - 125	4	20
Manganese	470		29.9	485	4	mg/Kg	⊛	46	75 - 125	6	20
Nickel	24	^2	29.9	54.1		mg/Kg	⊛	102	75 - 125	4	20
Potassium	1700	F1	598	3300	F1	mg/Kg	⊛	273	75 - 125	2	20
Selenium	<0.58	F1	5.98	3.90	F1	mg/Kg	⊛	65	75 - 125	3	20
Silver	0.32		2.99	2.55		mg/Kg	⊛	75	75 - 125	1	20
Sodium	120		598	659		mg/Kg	⊛	90	75 - 125	5	20
Thallium	<0.58		5.98	5.20		mg/Kg	⊛	87	75 - 125	4	20
Vanadium	22		29.9	51.1		mg/Kg	⊛	96	75 - 125	3	20
Zinc	69	^2	29.9	98.7		mg/Kg	⊛	100	75 - 125	4	20

Lab Sample ID: 500-225240-1 DU

Matrix: Solid

Analysis Batch: 686264

Client Sample ID: 1401V3-14-B01 (0-4)

Prep Type: Total/NA

Prep Batch: 685390

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	0.25	J F1	0.306	J	mg/Kg	⊛	19	20
Arsenic	7.7		7.78		mg/Kg	⊛	1	20
Barium	86		97.6		mg/Kg	⊛	12	20
Beryllium	0.84		0.841		mg/Kg	⊛	0.6	20
Boron	6.7	F1	6.86		mg/Kg	⊛	3	20
Cadmium	0.26		0.264		mg/Kg	⊛	2	20
Calcium	26000		22200		mg/Kg	⊛	16	20
Chromium	16		15.3		mg/Kg	⊛	3	20
Cobalt	11		12.0		mg/Kg	⊛	10	20
Copper	20		18.6		mg/Kg	⊛	7	20
Iron	19000		18800		mg/Kg	⊛	0.4	20
Lead	22	F1	22.2		mg/Kg	⊛	3	20
Magnesium	12000		11100		mg/Kg	⊛	10	20
Manganese	470		612	F3	mg/Kg	⊛	26	20

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-225240-1 DU
Matrix: Solid
Analysis Batch: 686264

Client Sample ID: 1401V3-14-B01 (0-4)
Prep Type: Total/NA
Prep Batch: 685390

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Nickel	24	^2	22.8		mg/Kg	✖	4	20
Potassium	1700	F1	1700		mg/Kg	✖	2	20
Selenium	<0.58	F1	<0.59		mg/Kg	✖	NC	20
Silver	0.32		0.298		mg/Kg	✖	7	20
Sodium	120		124		mg/Kg	✖	1	20
Thallium	<0.58		<0.59		mg/Kg	✖	NC	20
Vanadium	22		24.2		mg/Kg	✖	7	20
Zinc	69	^2	68.3		mg/Kg	✖	0.6	20

Lab Sample ID: LCS 500-685723/23-A
Matrix: Solid
Analysis Batch: 686272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685723

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.507		mg/L		101	80 - 120
Beryllium	0.0500	0.0479		mg/L		96	80 - 120
Boron	1.00	0.925		mg/L		92	80 - 120
Cadmium	0.0500	0.0489		mg/L		98	80 - 120
Chromium	0.200	0.192		mg/L		96	80 - 120
Cobalt	0.500	0.474		mg/L		95	80 - 120
Iron	1.00	1.04		mg/L		104	80 - 120
Lead	0.100	0.0911		mg/L		91	80 - 120
Manganese	0.500	0.490		mg/L		98	80 - 120
Nickel	0.500	0.471		mg/L		94	80 - 120
Selenium	0.100	0.101		mg/L		101	80 - 120
Silver	0.0500	0.0472		mg/L		94	80 - 120
Zinc	0.500	0.461	J	mg/L		92	80 - 120

Lab Sample ID: LCS 500-685723/2-A
Matrix: Solid
Analysis Batch: 686272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685723

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.500		mg/L		100	80 - 120
Beryllium	0.0500	0.0478		mg/L		96	80 - 120
Boron	1.00	0.907		mg/L		91	80 - 120
Cadmium	0.0500	0.0510		mg/L		102	80 - 120
Chromium	0.200	0.189		mg/L		95	80 - 120
Cobalt	0.500	0.495		mg/L		99	80 - 120
Iron	1.00	1.03		mg/L		103	80 - 120
Lead	0.100	0.0956		mg/L		96	80 - 120
Manganese	0.500	0.479		mg/L		96	80 - 120
Nickel	0.500	0.484		mg/L		97	80 - 120
Selenium	0.100	0.110		mg/L		110	80 - 120
Silver	0.0500	0.0519		mg/L		104	80 - 120
Zinc	0.500	0.506		mg/L		101	80 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-685726/2-A
Matrix: Solid
Analysis Batch: 686463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685726

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.500	0.485		mg/L		97	80 - 120

Lab Sample ID: LB 500-685351/1-B
Matrix: Solid
Analysis Batch: 686272

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685723

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		11/17/22 19:46	11/18/22 18:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/17/22 19:46	11/18/22 18:28	1
Boron	<0.50		0.50	0.050	mg/L		11/17/22 19:46	11/18/22 18:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/17/22 19:46	11/18/22 18:28	1
Chromium	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 18:28	1
Cobalt	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 18:28	1
Iron	<0.40		0.40	0.20	mg/L		11/17/22 19:46	11/18/22 18:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 19:46	11/18/22 18:28	1
Manganese	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 18:28	1
Nickel	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 18:28	1
Selenium	<0.050		0.050	0.020	mg/L		11/17/22 19:46	11/18/22 18:28	1
Silver	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 18:28	1
Zinc	<0.50		0.50	0.020	mg/L		11/17/22 19:46	11/18/22 18:28	1

Lab Sample ID: LB2 500-685353/1-B
Matrix: Solid
Analysis Batch: 686272

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685723

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		11/17/22 19:46	11/18/22 19:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/17/22 19:46	11/18/22 19:59	1
Boron	<0.50		0.50	0.050	mg/L		11/17/22 19:46	11/18/22 19:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/17/22 19:46	11/18/22 19:59	1
Chromium	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:59	1
Cobalt	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:59	1
Iron	<0.40		0.40	0.20	mg/L		11/17/22 19:46	11/18/22 19:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 19:46	11/18/22 19:59	1
Manganese	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:59	1
Nickel	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:59	1
Selenium	<0.050		0.050	0.020	mg/L		11/17/22 19:46	11/18/22 19:59	1
Silver	<0.025		0.025	0.010	mg/L		11/17/22 19:46	11/18/22 19:59	1
Zinc	<0.50		0.50	0.020	mg/L		11/17/22 19:46	11/18/22 19:59	1

Lab Sample ID: LB 500-685341/1-B
Matrix: Solid
Analysis Batch: 686463

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 685726

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		11/17/22 20:00	11/21/22 22:18	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-685723/23-A
Matrix: Solid
Analysis Batch: 686064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685723

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.464		mg/L		93	80 - 120
Thallium	0.100	0.102		mg/L		102	80 - 120

Lab Sample ID: LCS 500-685723/2-A
Matrix: Solid
Analysis Batch: 686064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685723

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.476		mg/L		95	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: LB 500-685351/1-B
Matrix: Solid
Analysis Batch: 686064

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685723

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/17/22 19:46	11/18/22 20:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/17/22 19:46	11/18/22 20:23	1

Lab Sample ID: LB2 500-685353/1-B
Matrix: Solid
Analysis Batch: 686064

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685723

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/17/22 19:46	11/18/22 21:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/17/22 19:46	11/18/22 21:52	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-685917/12-A
Matrix: Solid
Analysis Batch: 686339

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685917

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/18/22 14:55	11/21/22 09:56	1

Lab Sample ID: LCS 500-685917/14-A
Matrix: Solid
Analysis Batch: 686339

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685917

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00199		mg/L		100	80 - 120

Lab Sample ID: LCS 500-685917/35-A
Matrix: Solid
Analysis Batch: 686339

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685917

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00202		mg/L		102	80 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LB 500-685351/1-C
Matrix: Solid
Analysis Batch: 686339

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685917

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/18/22 14:55	11/21/22 09:58	1

Lab Sample ID: LB2 500-685353/1-C
Matrix: Solid
Analysis Batch: 686339

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685917

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/18/22 14:55	11/21/22 10:55	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-685449/12-A
Matrix: Solid
Analysis Batch: 685886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685449

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		11/17/22 15:25	11/18/22 06:41	1

Lab Sample ID: LCS 500-685449/13-A
Matrix: Solid
Analysis Batch: 685886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685449

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.165		mg/Kg		100	80 - 120

Lab Sample ID: 500-225240-2 MS
Matrix: Solid
Analysis Batch: 685886

Client Sample ID: 1401V3-14-B01 (4-8)
Prep Type: Total/NA
Prep Batch: 685449

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.023		0.0903	0.116		mg/Kg	☼	102	75 - 125

Lab Sample ID: 500-225240-2 MSD
Matrix: Solid
Analysis Batch: 685886

Client Sample ID: 1401V3-14-B01 (4-8)
Prep Type: Total/NA
Prep Batch: 685449

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.023		0.0903	0.114		mg/Kg	☼	100	75 - 125	2	20

Lab Sample ID: 500-225240-2 DU
Matrix: Solid
Analysis Batch: 685886

Client Sample ID: 1401V3-14-B01 (4-8)
Prep Type: Total/NA
Prep Batch: 685449

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.023		0.0264		mg/Kg	☼	14	20

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Client Sample ID: 1401V3-14-B01 (0-4)

Lab Sample ID: 500-225240-1

Date Collected: 11/10/22 09:30

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6010B		1	686272	JJB	EET CHI	11/18/22 18:41
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6020A		1	686064	FXG	EET CHI	11/18/22 20:30
TCLP	Leach	1311			685351	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	7470A			685917	MJG	EET CHI	11/18/22 14:55 - 11/18/22 16:55 ¹
TCLP	Analysis	7470A		1	686339	MJG	EET CHI	11/21/22 10:06
Total/NA	Analysis	9045D		1	685546	EH	EET CHI	11/17/22 11:55 - 11/17/22 12:00 ¹
Total/NA	Analysis	Moisture		1	685265	LWN	EET CHI	11/16/22 10:48

Client Sample ID: 1401V3-14-B01 (0-4)

Lab Sample ID: 500-225240-1

Date Collected: 11/10/22 09:30

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684697	WRE	EET CHI	11/11/22 10:37
Total/NA	Analysis	8260B		1	685181	W1T	EET CHI	11/16/22 12:42
Total/NA	Prep	3541			686105	DAK	EET CHI	11/20/22 08:53 - 11/20/22 16:20 ¹
Total/NA	Analysis	8270D		1	686786	AK	EET CHI	11/23/22 23:25
Total/NA	Prep	3050B			685390	LMB	EET CHI	11/16/22 16:18 - 11/16/22 16:48 ¹
Total/NA	Analysis	6010B		1	686264	JJB	EET CHI	11/18/22 19:26
Total/NA	Prep	7471B			685449	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 07:04

Client Sample ID: 1401V3-14-B01 (4-8)

Lab Sample ID: 500-225240-2

Date Collected: 11/10/22 09:35

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685341	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
SPLP East	Prep	3010A			685726	LMB	EET CHI	11/17/22 20:00 - 11/17/22 20:30 ¹
SPLP East	Analysis	6010B		1	686463	JJB	EET CHI	11/21/22 22:24
TCLP	Leach	1311			685353	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6010B		1	686462	JJB	EET CHI	11/21/22 14:28
TCLP	Leach	1311			685353	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6010B		1	686272	JJB	EET CHI	11/18/22 20:06
TCLP	Leach	1311			685353	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	3010A			685723	LMB	EET CHI	11/17/22 19:46 - 11/17/22 20:16 ¹
TCLP	Analysis	6020A		1	686064	FXG	EET CHI	11/18/22 21:59
TCLP	Leach	1311			685353	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
TCLP	Prep	7470A			685917	MJG	EET CHI	11/18/22 14:55 - 11/18/22 16:55 ¹
TCLP	Analysis	7470A		1	686339	MJG	EET CHI	11/21/22 11:00

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Client Sample ID: 1401V3-14-B01 (4-8)

Lab Sample ID: 500-225240-2

Date Collected: 11/10/22 09:35

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	685546	EH	EET CHI	11/17/22 12:00 - 11/17/22 12:05 ¹
Total/NA	Analysis	Moisture		1	685301	LWN	EET CHI	11/16/22 12:05

Client Sample ID: 1401V3-14-B01 (4-8)

Lab Sample ID: 500-225240-2

Date Collected: 11/10/22 09:35

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684697	WRE	EET CHI	11/11/22 10:37
Total/NA	Analysis	8260B		1	684930	W1T	EET CHI	11/15/22 15:56
Total/NA	Prep	3541			686105	DAK	EET CHI	11/20/22 08:53 - 11/20/22 16:20 ¹
Total/NA	Analysis	8270D		1	686786	AK	EET CHI	11/23/22 21:53
Total/NA	Prep	3050B			685390	LMB	EET CHI	11/16/22 16:18 - 11/16/22 16:48 ¹
Total/NA	Analysis	6010B		1	686264	JJB	EET CHI	11/18/22 19:43
Total/NA	Prep	3050B			685390	LMB	EET CHI	11/16/22 16:18 - 11/16/22 16:48 ¹
Total/NA	Analysis	6010B		5	686358	JJB	EET CHI	11/21/22 13:38
Total/NA	Prep	7471B			685449	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 07:06

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225240-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225240-1

Login Number: 225240

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.7,4.5,3.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 365 & FAP 870 (Butterfield Road) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

2 S 780 IL 53 (ISGS #1401V3-16)

City: Glen Ellyn State: IL Zip Code: 60137

County: DuPage Township: Milton

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.83057 Longitude: -88.0549
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: 0430455068 BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): _____ Approximate End Date (mm/dd/yyyy): _____

Estimated Volume of debris (cu. Yd.): 2,057

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov



This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Analytical Data Summary
PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

Key to Data Tables

- MAC = Maximum Allowable Concentration of Chemical Constituent in Uncontaminated Soil Used as Fill Material At Regulated Fill Operations
- mg/kg = Milligrams per kilogram.
- mg/L = Milligrams per liter.
- MSA = Metropolitan Statistical Area
- TACO = Tiered Approach to Corrective Action Objectives
- TCLP = Toxicity Characteristic Leaching Procedure.
- SCGIER = Soil Component of the Groundwater Ingestion Exposure Route
- SPLP = Synthetic Precipitation Leaching Procedure.
- ND = Not detected.
- NA = Not analyzed or not applicable.
- J = Estimated value.
- U = Analyte was analyzed for but not detected.
- PID = Photoionization detector.
- = No PID readings detected above background (within instrument margin of error).

Criteria Qualifiers and Shading

- # = pH is less than 6.25 or greater than 9.0 standard units.
- † = Concentration exceeds the most stringent MAC.
- m = Concentration exceeds the MAC for an MSA.
- * = Concentration exceeds the MAC for Chicago corporate limits.
- c = Concentration exceeds a TACO Tier 1 RO for the Construction Worker Exposure Route.
- r = Concentration exceeds a TACO Tier 1 soil RO for residential properties.
- L = The detected TCLP/SPLP concentration exceeds the TACO Tier 1 RO for the SCGIER.
-  = Concentration exceeds the most stringent MAC, but is below the MAC for an MSA.
-  = Concentration exceeds applicable comparison criteria.

**PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11
CONTAMINANTS OF CONCERN**

SITE	ISGS #1401V3-16 (BP Gasoline Station)			Comparison Criteria					
	1401V3-16-B01		1401V3-16-B02	MACs			TACO		
BORING	1401V3-16-B01 (0-7)		1401V3-16-B02 (0-7)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1401V3-16-B01 (0-7)		1401V3-16-B02 (0-7)						
MATRIX	Soil	Soil	Soil						
DEPTH (feet)	0-7	7-14	0-7						
pH	7.1	8.7	7.4						
PID (meter units)	--	--	--						
VOCs (None Detected)									
SVOCs (mg/kg)									
Anthracene	ND U	ND U	ND U	12,000	--	2.6	23,000	610,000	--
Benzo(a)anthracene	0.012 J	ND U	ND U	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	ND UJ	ND UJ	ND UJ	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	ND UJ	ND UJ	ND UJ	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	ND UJ	ND UJ	ND UJ	--	--	4.4	--	--	--
Benzo(k)fluoranthene	ND UJ	ND UJ	ND UJ	9	--	8.1	9	1,700	--
Chrysene	0.016 J	ND U	ND U	88	--	11	88	17,000	--
Dibenzo(a,h)anthracene	ND UJ	ND UJ	ND UJ	0.09	0.42	1	0.42	17	--
Fluoranthene	0.019 J	ND U	ND U	3,100	--	28	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND UJ	ND UJ	ND UJ	0.9	1.6	5.8	1.6	170	--
Phenanthrene	0.0089 J	ND U	ND U	--	--	15	--	--	--
Pyrene	0.025 J	ND U	0.0084 J	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)									
Antimony	0.38 J	0.46 J	0.27 J	5	--	--	31	82	--
Arsenic	10	9.3	10	11.3	13	--	13	61	--
Barium	59	27	64	1,500	--	--	5,500	14,000	--
Beryllium	0.79	0.70	0.78	22	--	--	160	410	--
Boron	5.8	9.5	4.3	40	--	--	16,000	41,000	--
Cadmium	ND U	ND U	ND U	5.2	--	--	78	200	--
Calcium	31,000	50,000	9,400	--	--	--	--	--	--
Chromium	14	14	15	21	--	--	230	690	--
Cobalt	12	12	14	20	--	--	4,700	12,000	--
Copper	25	26	25	2,900	--	--	2,900	8,200	--
Iron	20,000 †m	21,000 †m	22,000 †m	15,000	15,900	--	--	--	--
Lead	31	15	21	107	--	--	400	700	--
Magnesium	17,000	24,000	6,800	325,000	--	--	--	730,000	--
Manganese	530	430	520	630	636	--	1,600	4,100	--
Mercury	0.038	0.023	0.038	0.89	--	--	10	0.1	--
Nickel	27	30	30	100	--	--	1,600	4,100	--
Potassium	1,600	2,200	1,400	--	--	--	--	--	--
Selenium	0.42 J	ND U	ND U	1.3	--	--	390	1,000	--
Silver	0.26 J	0.30	0.30	4.4	--	--	390	1,000	--
Sodium	380	570	63	--	--	--	--	--	--
Thallium	0.41 J	0.28 J	ND U	2.6	--	--	6.3	160	--
Vanadium	21	16	21	550	--	--	550	1,400	--
Zinc	81	68	74	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)									
Barium	0.47 J	0.31 J	0.54	--	--	--	--	--	2
Boron	0.068 J	0.050 J	0.060 J	--	--	--	--	--	2
Cadmium	ND U	0.0021 J	ND U	--	--	--	--	--	0.005
Iron	ND U	ND U	ND U	--	--	--	--	--	5
Manganese	0.54 L	0.67 L	0.43 L	--	--	--	--	--	0.15
Nickel	ND U	ND U	ND U	--	--	--	--	--	0.1
Zinc	ND U	ND U	ND U	--	--	--	--	--	5
SPLP Metals (mg/L)									
Manganese	0.94 L	0.84 L	0.62 L	--	--	--	--	--	0.15

**PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11
CONTAMINANTS OF CONCERN**

SITE	ISGS #1401V3-16 (BP Gasoline Station)			Comparison Criteria					
	1401V3-16-B03			MACs			TACO		
BORING	1401V3-16-B03 (0-5)	1401V3-16-B03 (5-9)	1401V3-16-B03 (5-9)D	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE									
MATRIX	Soil	Soil	Soil						
DEPTH (feet)	0-5	5-9	5-9						
pH	7.6 J	6.9 J	6.4						
PID (meter units)	--		--						
VOCs (None Detected)									
SVOCs (mg/kg)									
Anthracene	ND U	ND U	ND U	12,000	--	2.6	23,000	610,000	--
Benzo(a)anthracene	ND U	ND U	ND U	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	ND UJ	ND UJ	ND UJ	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	ND UJ	ND UJ	ND UJ	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	ND UJ	ND UJ	ND UJ	--	--	4.4	--	--	--
Benzo(k)fluoranthene	ND UJ	ND UJ	ND UJ	9	--	8.1	9	1,700	--
Chrysene	ND U	ND U	ND U	88	--	11	88	17,000	--
Dibenzo(a,h)anthracene	ND UJ	ND UJ	ND UJ	0.09	0.42	1	0.42	17	--
Fluoranthene	ND U	ND U	ND U	3,100	--	28	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND UJ	ND UJ	ND UJ	0.9	1.6	5.8	1.6	170	--
Phenanthrene	ND U	ND U	ND U	--	--	15	--	--	--
Pyrene	ND U	ND U	ND U	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)									
Antimony	0.23 J	0.23 J	0.23 J	5	--	--	31	82	--
Arsenic	7.6	8.9	8.4	11.3	13	--	13	61	--
Barium	92	110	120	1,500	--	--	5,500	14,000	--
Beryllium	0.68	0.92	0.88	22	--	--	160	410	--
Boron	4.2	ND U	ND U	40	--	--	16,000	41,000	--
Cadmium	ND U	ND U	ND U	5.2	--	--	78	200	--
Calcium	34,000	1,700	1,800	--	--	--	--	--	--
Chromium	13	20	18	21	--	--	230	690	--
Cobalt	10	12	12	20	--	--	4,700	12,000	--
Copper	16	17	16	2,900	--	--	2,900	8,200	--
Iron	17,000 †m	25,000 †m	23,000 †m	15,000	15,900	--	--	--	--
Lead	51	17	16	107	--	--	400	700	--
Magnesium	20,000	3,500	3,500	325,000	--	--	--	730,000	--
Manganese	620	320	290	630	636	--	1,600	4,100	--
Mercury	0.046	0.037	0.051	0.89	--	--	10	0.1	--
Nickel	18	22	22	100	--	--	1,600	4,100	--
Potassium	1,400	1,200	1,200	--	--	--	--	--	--
Selenium	0.43 J	0.50 J	ND U	1.3	--	--	390	1,000	--
Silver	0.31	0.37	0.37	4.4	--	--	390	1,000	--
Sodium	170	140	130	--	--	--	--	--	--
Thallium	ND U	0.39 J	ND U	2.6	--	--	6.3	160	--
Vanadium	21	28	25	550	--	--	550	1,400	--
Zinc	68	77	79	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)									
Barium	0.41 J	0.47 J	0.40 J	--	--	--	--	--	2
Boron	0.078 J	0.054 J	ND U	--	--	--	--	--	2
Cadmium	ND U	ND U	ND U	--	--	--	--	--	0.005
Iron	ND U	ND U	ND U	--	--	--	--	--	5
Manganese	0.023 J	ND U	0.021 J	--	--	--	--	--	0.15
Nickel	ND U	ND U	0.011 J	--	--	--	--	--	0.1
Zinc	0.022 J	ND U	ND U	--	--	--	--	--	5
SPLP Metals (mg/L)									
Manganese	NA	NA	NA	--	--	--	--	--	0.15

PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

CONTAMINANTS OF CONCERN

SITE	ISGS #1401V3-16 (BP Gasoline Station)			Comparison Criteria					
	1401V3-16-B04		1401V3-16-B05	MACs			TACO		
BORING	1401V3-16-B04 (0-5)		1401V3-16-B05 (0-6)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1401V3-16-B04 (0-5)	1401V3-16-B04 (5-9)	1401V3-16-B05 (0-6)						
MATRIX	Soil	Soil	Soil						
DEPTH (feet)	0-5	5-9	0-6						
pH	7.6	7.5	8.0						
PID (meter units)	--	--	--						
VOCs (None Detected)									
SVOCs (mg/kg)									
Anthracene	0.036 J	ND U	ND U	12,000	--	2.6	23,000	610,000	--
Benzo(a)anthracene	0.056 J	ND UJ	ND U	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	0.078 J	ND UJ	ND UJ	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	0.11	ND UJ	ND UJ	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	0.061 J	ND UJ	ND UJ	--	--	4.4	--	--	--
Benzo(k)fluoranthene	0.038 J	ND UJ	ND UJ	9	--	8.1	9	1,700	--
Chrysene	0.076 J	ND UJ	ND U	88	--	11	88	17,000	--
Dibenzo(a,h)anthracene	0.018 J	ND UJ	ND UJ	0.09	0.42	1	0.42	17	--
Fluoranthene	0.12	ND U	ND U	3,100	--	28	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.054 J	ND UJ	ND UJ	0.9	1.6	5.8	1.6	170	--
Phenanthrene	0.065 J	ND U	ND U	--	--	15	--	--	--
Pyrene	0.098	ND UJ	ND U	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)									
Antimony	0.38 J	0.58 J	0.68 J	5	--	--	31	82	--
Arsenic	9.1 J	8.9 J	11	11.3	13	--	13	61	--
Barium	74	97	49	1,500	--	--	5,500	14,000	--
Beryllium	0.90	0.92	0.79	22	--	--	160	410	--
Boron	7.1 J	3.3 J	6.1 J	40	--	--	16,000	41,000	--
Cadmium	0.32	0.21 J	0.24	5.2	--	--	78	200	--
Calcium	19,000 J	2,400 J	20,000 J	--	--	--	--	--	--
Chromium	18	18	15	21	--	--	230	690	--
Cobalt	11	10	15	20	--	--	4,700	12,000	--
Copper	25 J	17	29 J	2,900	--	--	2,900	8,200	--
Iron	22,000 †m	25,000 †m	23,000 †m	15,000	15,900	--	--	--	--
Lead	90 J	15 J	20 J	107	--	--	400	700	--
Magnesium	11,000 J	3,400 J	13,000 J	325,000	--	--	--	730,000	--
Manganese	400 J	350	550 J	630	636	--	1,600	4,100	--
Mercury	0.038	0.053	0.046	0.89	--	--	10	0.1	--
Nickel	26	22	32	100	--	--	1,600	4,100	--
Potassium	2,100 J	1,100 J	1,700 J	--	--	--	--	--	--
Selenium	0.41 J	ND UJ	ND UJ	1.3	--	--	390	1,000	--
Silver	0.22 J	0.40 J	0.27 J	4.4	--	--	390	1,000	--
Sodium	370	1,100 J	250	--	--	--	--	--	--
Thallium	0.38 J	0.38 J	ND U	2.6	--	--	6.3	160	--
Vanadium	23	26	18	550	--	--	550	1,400	--
Zinc	95	74	81 J	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)									
Barium	0.63	0.34 J	0.58	--	--	--	--	--	2
Boron	1.1	0.78	0.68	--	--	--	--	--	2
Cadmium	ND U	ND U	ND U	--	--	--	--	--	0.005
Iron	0.21 J	0.51	0.36 J	--	--	--	--	--	5
Manganese	0.32 L	0.012 J	0.34 L	--	--	--	--	--	0.15
Nickel	ND U	ND U	ND U	--	--	--	--	--	0.1
Zinc	0.063 J	0.045 J	0.039 J	--	--	--	--	--	5
SPLP Metals (mg/L)									
Manganese	0.013 J	NA	0.62 L	--	--	--	--	--	0.15



ANALYTICAL REPORT

PREPARED FOR

Attn: Dean Tiebot
WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602
Generated 12/7/2022 12:35:23 PM

JOB DESCRIPTION

IDOT - 196-002-WO 13 IL 56

JOB NUMBER

500-225076-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Job ID: 500-225076-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225076-1

Receipt

The samples were received on 11/9/2022 5:09 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.5° C and 5.0° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: Perylene-d12 Internal standard (ISTD) response for the following samples was outside of acceptance limits: 1401V3-16-B05 (0-6) (500-225076-3). Analytes associated to this internal standard were non-detect and/or below the reporting limit; therefore, re-analysis was not performed.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-686154 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane], 2-Nitroaniline, 4-Nitrophenol, Bis(2-ethylhexyl) phthalate, Butyl benzyl phthalate, Hexachlorocyclopentadiene, N-Nitrosodi-n-propylamine and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with preparation batch 500-685446 and analytical batch 500-686154 had 2 analytes outside control limits: Bis(2-ethylhexyl) phthalate and Butyl benzyl phthalate. These results have been reported and qualified.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-688192 was outside the method criteria for the following analyte(s): Acenaphthene and Benzo[k]fluoranthene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Perylene-d12 and Chrysene-d12 Internal standard (ISTD) response for the following sample was outside of acceptance limits: 1401V3-16-B04 (5-9) (500-225076-2). Analytes associated to this internal standard were non-detect and/or below the reporting limit; therefore, re-analysis was not performed.

Method 8270D: The following samples contained one base surrogate outside acceptance limits: 1401V3-16-B04 (5-9) (500-225076-2). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-688441 was outside the method criteria for the following analyte(s): 2,4-Dinitrophenol, 4-Nitrophenol, Di-n-octyl phthalate, Hexachlorocyclopentadiene and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 500-685446 and analytical batch 500-688441 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8270D: The following samples were diluted due to the nature of the sample matrix: 1401V3-16-B04 (0-5) (500-225076-1), (500-225076-E-1-M MS) and (500-225076-E-1-N MSD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010B: The method blank for preparation batch 500-685156 and analytical batch 500-685624 contained Iron above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the

Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Job ID: 500-225076-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Client Sample ID: 1401V3-16-B04 (0-5)

Lab Sample ID: 500-225076-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.065	J	0.081	0.011	mg/Kg	2	✳	8270D	Total/NA
Anthracene	0.036	J	0.081	0.014	mg/Kg	2	✳	8270D	Total/NA
Fluoranthene	0.12		0.081	0.015	mg/Kg	2	✳	8270D	Total/NA
Pyrene	0.098		0.081	0.016	mg/Kg	2	✳	8270D	Total/NA
Benzo[a]anthracene	0.056	J F1 F2	0.081	0.011	mg/Kg	2	✳	8270D	Total/NA
Chrysene	0.076	J F1 F2	0.081	0.022	mg/Kg	2	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.11		0.081	0.018	mg/Kg	2	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.038	J F2	0.081	0.024	mg/Kg	2	✳	8270D	Total/NA
Benzo[a]pyrene	0.078	J	0.081	0.016	mg/Kg	2	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.054	J	0.081	0.021	mg/Kg	2	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.018	J	0.081	0.016	mg/Kg	2	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.061	J	0.081	0.026	mg/Kg	2	✳	8270D	Total/NA
Antimony	0.38	J F1	1.2	0.24	mg/Kg	1	✳	6010B	Total/NA
Arsenic	9.1	F1	0.61	0.21	mg/Kg	1	✳	6010B	Total/NA
Barium	74		0.61	0.070	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.90		0.24	0.057	mg/Kg	1	✳	6010B	Total/NA
Boron	7.1	F1	3.1	0.29	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.32		0.12	0.022	mg/Kg	1	✳	6010B	Total/NA
Calcium	19000	B	12	2.1	mg/Kg	1	✳	6010B	Total/NA
Chromium	18		0.61	0.30	mg/Kg	1	✳	6010B	Total/NA
Cobalt	11		0.31	0.080	mg/Kg	1	✳	6010B	Total/NA
Copper	25	F1	0.61	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	22000	B	12	6.4	mg/Kg	1	✳	6010B	Total/NA
Lead	90	F2	0.31	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	11000		6.1	3.0	mg/Kg	1	✳	6010B	Total/NA
Manganese	400	B F2	0.61	0.089	mg/Kg	1	✳	6010B	Total/NA
Nickel	26		0.61	0.18	mg/Kg	1	✳	6010B	Total/NA
Potassium	2100	F1	31	11	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.41	J F1	0.61	0.36	mg/Kg	1	✳	6010B	Total/NA
Silver	0.22	J	0.31	0.079	mg/Kg	1	✳	6010B	Total/NA
Sodium	370		61	9.1	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.38	J	0.61	0.31	mg/Kg	1	✳	6010B	Total/NA
Vanadium	23		0.31	0.072	mg/Kg	1	✳	6010B	Total/NA
Zinc	95		1.2	0.54	mg/Kg	1	✳	6010B	Total/NA
Barium	0.63		0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.1		0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.21	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	0.32		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.063	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.013	J	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.038		0.019	0.0063	mg/Kg	1	✳	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-16-B04 (5-9)

Lab Sample ID: 500-225076-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.58	J F1	1.3	0.25	mg/Kg	1	✳	6010B	Total/NA
Arsenic	8.9	F1	0.63	0.22	mg/Kg	1	✳	6010B	Total/NA
Barium	97	B	0.63	0.072	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.92		0.25	0.059	mg/Kg	1	✳	6010B	Total/NA
Boron	3.3	F1	3.2	0.29	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Client Sample ID: 1401V3-16-B04 (5-9) (Continued)

Lab Sample ID: 500-225076-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.21	F1	0.13	0.023	mg/Kg	1	☒	6010B	Total/NA
Calcium	2400	B F1	13	2.1	mg/Kg	1	☒	6010B	Total/NA
Chromium	18		0.63	0.31	mg/Kg	1	☒	6010B	Total/NA
Cobalt	10		0.32	0.083	mg/Kg	1	☒	6010B	Total/NA
Copper	17		0.63	0.18	mg/Kg	1	☒	6010B	Total/NA
Iron	25000		12	6.5	mg/Kg	1	☒	6010B	Total/NA
Lead	15	F1	0.32	0.15	mg/Kg	1	☒	6010B	Total/NA
Magnesium	3400		6.3	3.1	mg/Kg	1	☒	6010B	Total/NA
Manganese	350	B	0.63	0.092	mg/Kg	1	☒	6010B	Total/NA
Nickel	22		0.63	0.18	mg/Kg	1	☒	6010B	Total/NA
Potassium	1100	F1	32	11	mg/Kg	1	☒	6010B	Total/NA
Silver	0.40	F1	0.32	0.081	mg/Kg	1	☒	6010B	Total/NA
Sodium	1100	F1	63	9.3	mg/Kg	1	☒	6010B	Total/NA
Thallium	0.38	J F1	0.63	0.32	mg/Kg	1	☒	6010B	Total/NA
Vanadium	26		0.32	0.074	mg/Kg	1	☒	6010B	Total/NA
Zinc	74		1.3	0.55	mg/Kg	1	☒	6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.78		0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.51		0.40	0.20	mg/L	1		6010B	TCLP
Manganese	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.045	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.053		0.020	0.0066	mg/Kg	1	☒	7471B	Total/NA
pH	7.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-16-B05 (0-6)

Lab Sample ID: 500-225076-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.68	J F1	1.1	0.22	mg/Kg	1	☒	6010B	Total/NA
Arsenic	11		0.56	0.19	mg/Kg	1	☒	6010B	Total/NA
Barium	49	B	0.56	0.064	mg/Kg	1	☒	6010B	Total/NA
Beryllium	0.79		0.22	0.052	mg/Kg	1	☒	6010B	Total/NA
Boron	6.1	F1	2.8	0.26	mg/Kg	1	☒	6010B	Total/NA
Cadmium	0.24		0.11	0.020	mg/Kg	1	☒	6010B	Total/NA
Calcium	20000	B	11	1.9	mg/Kg	1	☒	6010B	Total/NA
Chromium	15		0.56	0.28	mg/Kg	1	☒	6010B	Total/NA
Cobalt	15		0.28	0.073	mg/Kg	1	☒	6010B	Total/NA
Copper	29	B F1	0.56	0.16	mg/Kg	1	☒	6010B	Total/NA
Iron	23000	B	11	5.8	mg/Kg	1	☒	6010B	Total/NA
Lead	20	F1	0.28	0.13	mg/Kg	1	☒	6010B	Total/NA
Magnesium	13000		5.6	2.8	mg/Kg	1	☒	6010B	Total/NA
Manganese	550	B	0.56	0.081	mg/Kg	1	☒	6010B	Total/NA
Nickel	32		0.56	0.16	mg/Kg	1	☒	6010B	Total/NA
Potassium	1700	F1	28	9.9	mg/Kg	1	☒	6010B	Total/NA
Silver	0.27	J	0.28	0.072	mg/Kg	1	☒	6010B	Total/NA
Sodium	250		56	8.3	mg/Kg	1	☒	6010B	Total/NA
Vanadium	18		0.28	0.066	mg/Kg	1	☒	6010B	Total/NA
Zinc	81	F1	1.1	0.49	mg/Kg	1	☒	6010B	Total/NA
Barium	0.58		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.68		0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.36	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	0.34		0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Client Sample ID: 1401V3-16-B05 (0-6) (Continued)

Lab Sample ID: 500-225076-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.039	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.62		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.046		0.017	0.0057	mg/Kg	1	*	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

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Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010B	Metals (ICP)	SW846	EET CHI
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225076-1	1401V3-16-B04 (0-5)	Solid	11/08/22 10:45	11/09/22 17:09
500-225076-2	1401V3-16-B04 (5-9)	Solid	11/08/22 10:48	11/09/22 17:09
500-225076-3	1401V3-16-B05 (0-6)	Solid	11/08/22 11:00	11/09/22 17:09

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Client Sample ID: 1401V3-16-B04 (0-5)

Lab Sample ID: 500-225076-1

Date Collected: 11/08/22 10:45

Matrix: Solid

Date Received: 11/09/22 17:09

Percent Solids: 80.7

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022		0.022	0.0095	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
Benzene	<0.0022		0.0022	0.00055	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
Bromodichloromethane	<0.0022		0.0022	0.00044	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
Bromoform	<0.0022		0.0022	0.00063	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
Bromomethane	<0.0054		0.0054	0.0021	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
2-Butanone (MEK)	<0.0054		0.0054	0.0024	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
Carbon disulfide	<0.0054		0.0054	0.0011	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
Carbon tetrachloride	<0.0022		0.0022	0.00063	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
Chlorobenzene	<0.0022		0.0022	0.00080	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
Chloroethane	<0.0054		0.0054	0.0016	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
Chloroform	<0.0022		0.0022	0.00075	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
Chloromethane	<0.0054		0.0054	0.0022	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00061	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00065	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
Dibromochloromethane	<0.0022		0.0022	0.00071	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
1,1-Dichloroethane	<0.0022		0.0022	0.00074	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
1,2-Dichloroethane	<0.0054		0.0054	0.0017	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
1,1-Dichloroethene	<0.0022		0.0022	0.00075	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
1,2-Dichloropropane	<0.0022		0.0022	0.00056	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
1,3-Dichloropropane, Total	<0.0022		0.0022	0.00076	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
Ethylbenzene	<0.0022		0.0022	0.0010	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
2-Hexanone	<0.0054		0.0054	0.0017	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
Methylene Chloride	<0.0054		0.0054	0.0021	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0016	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00064	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
Styrene	<0.0022		0.0022	0.00066	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.00069	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
Tetrachloroethene	<0.0022		0.0022	0.00074	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
Toluene	<0.0022		0.0022	0.00055	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00096	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.00076	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
1,1,1-Trichloroethane	<0.0022		0.0022	0.00073	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00093	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
Trichloroethene	<0.0022		0.0022	0.00073	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
Vinyl acetate	<0.0054		0.0054	0.0019	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
Vinyl chloride	<0.0022		0.0022	0.00096	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1
Xylenes, Total	<0.0043		0.0043	0.00069	mg/Kg	☼	11/09/22 18:36	11/12/22 13:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		75 - 131	11/09/22 18:36	11/12/22 13:26	1
Dibromofluoromethane	104		75 - 126	11/09/22 18:36	11/12/22 13:26	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	11/09/22 18:36	11/12/22 13:26	1
Toluene-d8 (Surr)	100		75 - 124	11/09/22 18:36	11/12/22 13:26	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.41		0.41	0.18	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Bis(2-chloroethyl)ether	<0.41		0.41	0.12	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
1,3-Dichlorobenzene	<0.41		0.41	0.091	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
1,4-Dichlorobenzene	<0.41		0.41	0.10	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Client Sample ID: 1401V3-16-B04 (0-5)

Lab Sample ID: 500-225076-1

Date Collected: 11/08/22 10:45

Matrix: Solid

Date Received: 11/09/22 17:09

Percent Solids: 80.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.41		0.41	0.097	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
2-Methylphenol	<0.41		0.41	0.13	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
2,2'-oxybis[1-chloropropane]	<0.41		0.41	0.094	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
N-Nitrosodi-n-propylamine	<0.16		0.16	0.099	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Hexachloroethane	<0.41		0.41	0.12	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
2-Chlorophenol	<0.41		0.41	0.14	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Nitrobenzene	<0.081		0.081	0.020	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Bis(2-chloroethoxy)methane	<0.41		0.41	0.083	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
1,2,4-Trichlorobenzene	<0.41		0.41	0.088	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Isophorone	<0.41		0.41	0.091	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
2,4-Dimethylphenol	<0.81		0.81	0.31	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Hexachlorobutadiene	<0.41		0.41	0.13	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Naphthalene	<0.081		0.081	0.012	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
2,4-Dichlorophenol	<0.81		0.81	0.19	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
4-Chloroaniline	<1.6		1.6	0.38	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
2,4,6-Trichlorophenol	<0.81		0.81	0.28	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
2,4,5-Trichlorophenol	<0.81		0.81	0.19	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Hexachlorocyclopentadiene	<1.6	F1	1.6	0.47	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
2-Methylnaphthalene	<0.16		0.16	0.015	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
2-Nitroaniline	<0.41		0.41	0.11	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
2-Chloronaphthalene	<0.41		0.41	0.090	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
4-Chloro-3-methylphenol	<0.81	F2	0.81	0.28	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
2,6-Dinitrotoluene	<0.41	F1	0.41	0.16	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
2-Nitrophenol	<0.81		0.81	0.19	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
3-Nitroaniline	<0.81		0.81	0.25	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Dimethyl phthalate	<0.41	F1	0.41	0.11	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
2,4-Dinitrophenol	<1.6		1.6	1.4	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Acenaphthylene	<0.081		0.081	0.011	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
2,4-Dinitrotoluene	<0.41	F1 F2	0.41	0.13	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Acenaphthene	<0.081		0.081	0.015	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Dibenzofuran	<0.41		0.41	0.095	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
4-Nitrophenol	<1.6	F2	1.6	0.77	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Fluorene	<0.081		0.081	0.011	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
4-Nitroaniline	<0.81	F1	0.81	0.34	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
4-Bromophenyl phenyl ether	<0.41		0.41	0.11	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Hexachlorobenzene	<0.16		0.16	0.019	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Diethyl phthalate	<0.41	F2	0.41	0.14	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
4-Chlorophenyl phenyl ether	<0.41		0.41	0.095	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Pentachlorophenol	<1.6	F1	1.6	1.3	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
N-Nitrosodiphenylamine	<0.41		0.41	0.096	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
4,6-Dinitro-2-methylphenol	<1.6		1.6	0.65	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Phenanthrene	0.065	J	0.081	0.011	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Anthracene	0.036	J	0.081	0.014	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Carbazole	<0.41		0.41	0.20	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Di-n-butyl phthalate	<0.41		0.41	0.12	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Fluoranthene	0.12		0.081	0.015	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Pyrene	0.098		0.081	0.016	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Butyl benzyl phthalate	<0.41	*-	0.41	0.15	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Benzo[a]anthracene	0.056	J F1 F2	0.081	0.011	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Client Sample ID: 1401V3-16-B04 (0-5)

Lab Sample ID: 500-225076-1

Date Collected: 11/08/22 10:45

Matrix: Solid

Date Received: 11/09/22 17:09

Percent Solids: 80.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.076	J F1 F2	0.081	0.022	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
3,3'-Dichlorobenzidine	<0.41	F2	0.41	0.11	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Bis(2-ethylhexyl) phthalate	<0.41	*- F1	0.41	0.15	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Di-n-octyl phthalate	<0.41	F1 F2	0.41	0.13	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Benzo[b]fluoranthene	0.11		0.081	0.018	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Benzo[k]fluoranthene	0.038	J F2	0.081	0.024	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Benzo[a]pyrene	0.078	J	0.081	0.016	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Indeno[1,2,3-cd]pyrene	0.054	J	0.081	0.021	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Dibenz(a,h)anthracene	0.018	J	0.081	0.016	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
Benzo[g,h,i]perylene	0.061	J	0.081	0.026	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2
3 & 4 Methylphenol	<0.41		0.41	0.14	mg/Kg	☼	11/17/22 07:24	12/06/22 13:05	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	116		31 - 166	11/17/22 07:24	12/06/22 13:05	2
Phenol-d5	112		30 - 153	11/17/22 07:24	12/06/22 13:05	2
Nitrobenzene-d5 (Surr)	72		37 - 147	11/17/22 07:24	12/06/22 13:05	2
2-Fluorobiphenyl (Surr)	76		43 - 145	11/17/22 07:24	12/06/22 13:05	2
2,4,6-Tribromophenol	95		31 - 143	11/17/22 07:24	12/06/22 13:05	2
Terphenyl-d14 (Surr)	127		42 - 157	11/17/22 07:24	12/06/22 13:05	2

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.38	J F1	1.2	0.24	mg/Kg	☼	11/15/22 17:16	11/16/22 15:41	1
Arsenic	9.1	F1	0.61	0.21	mg/Kg	☼	11/15/22 17:16	11/16/22 15:41	1
Barium	74		0.61	0.070	mg/Kg	☼	11/15/22 17:16	11/16/22 15:41	1
Beryllium	0.90		0.24	0.057	mg/Kg	☼	11/15/22 17:16	11/16/22 15:41	1
Boron	7.1	F1	3.1	0.29	mg/Kg	☼	11/15/22 17:16	11/16/22 15:41	1
Cadmium	0.32		0.12	0.022	mg/Kg	☼	11/15/22 17:16	11/16/22 15:41	1
Calcium	19000	B	12	2.1	mg/Kg	☼	11/15/22 17:16	11/16/22 15:41	1
Chromium	18		0.61	0.30	mg/Kg	☼	11/15/22 17:16	11/16/22 15:41	1
Cobalt	11		0.31	0.080	mg/Kg	☼	11/15/22 17:16	11/16/22 15:41	1
Copper	25	F1	0.61	0.17	mg/Kg	☼	11/15/22 17:16	11/16/22 15:41	1
Iron	22000	B	12	6.4	mg/Kg	☼	11/15/22 17:16	11/16/22 15:41	1
Lead	90	F2	0.31	0.14	mg/Kg	☼	11/15/22 17:16	11/16/22 15:41	1
Magnesium	11000		6.1	3.0	mg/Kg	☼	11/15/22 17:16	11/16/22 15:41	1
Manganese	400	B F2	0.61	0.089	mg/Kg	☼	11/15/22 17:16	11/16/22 15:41	1
Nickel	26		0.61	0.18	mg/Kg	☼	11/15/22 17:16	11/16/22 15:41	1
Potassium	2100	F1	31	11	mg/Kg	☼	11/15/22 17:16	11/16/22 15:41	1
Selenium	0.41	J F1	0.61	0.36	mg/Kg	☼	11/15/22 17:16	11/16/22 15:41	1
Silver	0.22	J	0.31	0.079	mg/Kg	☼	11/15/22 17:16	11/16/22 15:41	1
Sodium	370		61	9.1	mg/Kg	☼	11/15/22 17:16	11/16/22 15:41	1
Thallium	0.38	J	0.61	0.31	mg/Kg	☼	11/15/22 17:16	11/16/22 15:41	1
Vanadium	23		0.31	0.072	mg/Kg	☼	11/15/22 17:16	11/16/22 15:41	1
Zinc	95		1.2	0.54	mg/Kg	☼	11/15/22 17:16	11/16/22 15:41	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.63		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 21:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/22 19:01	11/16/22 21:35	1
Boron	1.1		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 21:35	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Client Sample ID: 1401V3-16-B04 (0-5)

Lab Sample ID: 500-225076-1

Date Collected: 11/08/22 10:45

Matrix: Solid

Date Received: 11/09/22 17:09

Percent Solids: 80.7

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/22 19:01	11/16/22 21:35	1
Chromium	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:35	1
Cobalt	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:35	1
Iron	0.21	J	0.40	0.20	mg/L		11/15/22 19:01	11/16/22 21:35	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/15/22 19:01	11/16/22 21:35	1
Manganese	0.32		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:35	1
Nickel	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:35	1
Selenium	<0.050		0.050	0.020	mg/L		11/15/22 19:01	11/16/22 21:35	1
Silver	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:35	1
Zinc	0.063	J	0.50	0.020	mg/L		11/15/22 19:01	11/16/22 21:35	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.013	J	0.025	0.010	mg/L		11/15/22 19:05	11/17/22 18:36	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/15/22 19:01	11/17/22 20:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/15/22 19:01	11/17/22 20:04	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/16/22 11:50	11/17/22 10:32	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.019	0.0063	mg/Kg	☆	11/16/22 16:15	11/17/22 07:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.6		0.2	0.2	SU			11/11/22 08:22	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Client Sample ID: 1401V3-16-B04 (5-9)

Lab Sample ID: 500-225076-2

Date Collected: 11/08/22 10:48

Matrix: Solid

Date Received: 11/09/22 17:09

Percent Solids: 78.7

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0075	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	11/09/22 18:36	11/12/22 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		75 - 131	11/09/22 18:36	11/12/22 13:51	1
Dibromofluoromethane	101		75 - 126	11/09/22 18:36	11/12/22 13:51	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	11/09/22 18:36	11/12/22 13:51	1
Toluene-d8 (Surr)	96		75 - 124	11/09/22 18:36	11/12/22 13:51	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.093	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Client Sample ID: 1401V3-16-B04 (5-9)

Lab Sample ID: 500-225076-2

Date Collected: 11/08/22 10:48

Matrix: Solid

Date Received: 11/09/22 17:09

Percent Solids: 78.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
2-Methylnaphthalene	<0.084		0.084	0.0077	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
2-Nitrophenol	<0.41		0.41	0.099	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
2,4-Dinitrophenol	<0.84		0.84	0.74	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Fluorene	<0.041		0.041	0.0059	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Hexachlorobenzene	<0.084		0.084	0.0097	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.34	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Anthracene	<0.041		0.041	0.0070	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Pyrene	<0.041	*3	0.041	0.0083	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Butyl benzyl phthalate	<0.21	*- *3	0.21	0.079	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Benzo[a]anthracene	<0.041	*3	0.041	0.0056	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Client Sample ID: 1401V3-16-B04 (5-9)

Lab Sample ID: 500-225076-2

Date Collected: 11/08/22 10:48

Matrix: Solid

Date Received: 11/09/22 17:09

Percent Solids: 78.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041	*3	0.041	0.011	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
3,3'-Dichlorobenzidine	<0.21	*3	0.21	0.058	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Bis(2-ethylhexyl) phthalate	<0.21	*- *3	0.21	0.076	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Benzo[b]fluoranthene	<0.041	*3	0.041	0.0090	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Benzo[k]fluoranthene	<0.041	*3	0.041	0.012	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Benzo[a]pyrene	<0.041	*3	0.041	0.0081	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Indeno[1,2,3-cd]pyrene	<0.041	*3	0.041	0.011	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Dibenz(a,h)anthracene	<0.041	*3	0.041	0.0081	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Benzo[g,h,i]perylene	<0.041	*3	0.041	0.013	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	11/17/22 07:24	12/06/22 02:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	92		31 - 166				11/17/22 07:24	12/06/22 02:45	1
Phenol-d5	87		30 - 153				11/17/22 07:24	12/06/22 02:45	1
Nitrobenzene-d5 (Surr)	76		37 - 147				11/17/22 07:24	12/06/22 02:45	1
2-Fluorobiphenyl (Surr)	78		43 - 145				11/17/22 07:24	12/06/22 02:45	1
2,4,6-Tribromophenol	81		31 - 143				11/17/22 07:24	12/06/22 02:45	1
Terphenyl-d14 (Surr)	237	S1+ *3	42 - 157				11/17/22 07:24	12/06/22 02:45	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.58	J F1	1.3	0.25	mg/Kg	☼	11/15/22 17:19	11/16/22 21:48	1
Arsenic	8.9	F1	0.63	0.22	mg/Kg	☼	11/15/22 17:19	11/16/22 21:48	1
Barium	97	B	0.63	0.072	mg/Kg	☼	11/15/22 17:19	11/16/22 21:48	1
Beryllium	0.92		0.25	0.059	mg/Kg	☼	11/15/22 17:19	11/16/22 21:48	1
Boron	3.3	F1	3.2	0.29	mg/Kg	☼	11/15/22 17:19	11/16/22 21:48	1
Cadmium	0.21	F1	0.13	0.023	mg/Kg	☼	11/15/22 17:19	11/16/22 21:48	1
Calcium	2400	B F1	13	2.1	mg/Kg	☼	11/15/22 17:19	11/16/22 21:48	1
Chromium	18		0.63	0.31	mg/Kg	☼	11/15/22 17:19	11/16/22 21:48	1
Cobalt	10		0.32	0.083	mg/Kg	☼	11/15/22 17:19	11/16/22 21:48	1
Copper	17		0.63	0.18	mg/Kg	☼	11/15/22 17:19	11/16/22 21:48	1
Iron	25000		12	6.5	mg/Kg	☼	11/17/22 17:44	11/21/22 12:58	1
Lead	15	F1	0.32	0.15	mg/Kg	☼	11/15/22 17:19	11/16/22 21:48	1
Magnesium	3400		6.3	3.1	mg/Kg	☼	11/15/22 17:19	11/16/22 21:48	1
Manganese	350	B	0.63	0.092	mg/Kg	☼	11/15/22 17:19	11/16/22 21:48	1
Nickel	22		0.63	0.18	mg/Kg	☼	11/15/22 17:19	11/16/22 21:48	1
Potassium	1100	F1	32	11	mg/Kg	☼	11/15/22 17:19	11/16/22 21:48	1
Selenium	<0.63	F1	0.63	0.37	mg/Kg	☼	11/15/22 17:19	11/16/22 21:48	1
Silver	0.40	F1	0.32	0.081	mg/Kg	☼	11/15/22 17:19	11/16/22 21:48	1
Sodium	1100	F1	63	9.3	mg/Kg	☼	11/15/22 17:19	11/16/22 21:48	1
Thallium	0.38	J F1	0.63	0.32	mg/Kg	☼	11/15/22 17:19	11/16/22 21:48	1
Vanadium	26		0.32	0.074	mg/Kg	☼	11/15/22 17:19	11/16/22 21:48	1
Zinc	74		1.3	0.55	mg/Kg	☼	11/15/22 17:19	11/16/22 21:48	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.34	J	0.50	0.050	mg/L		11/15/22 19:01	11/16/22 21:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/22 19:01	11/16/22 21:38	1
Boron	0.78		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 21:38	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Client Sample ID: 1401V3-16-B04 (5-9)

Lab Sample ID: 500-225076-2

Date Collected: 11/08/22 10:48

Matrix: Solid

Date Received: 11/09/22 17:09

Percent Solids: 78.7

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/22 19:01	11/16/22 21:38	1
Chromium	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:38	1
Cobalt	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:38	1
Iron	0.51		0.40	0.20	mg/L		11/15/22 19:01	11/16/22 21:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/15/22 19:01	11/16/22 21:38	1
Manganese	0.012	J	0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:38	1
Nickel	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:38	1
Selenium	<0.050		0.050	0.020	mg/L		11/15/22 19:01	11/16/22 21:38	1
Silver	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:38	1
Zinc	0.045	J	0.50	0.020	mg/L		11/15/22 19:01	11/16/22 21:38	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/15/22 19:01	11/17/22 20:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/15/22 19:01	11/17/22 20:07	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/16/22 11:50	11/17/22 10:38	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.053		0.020	0.0066	mg/Kg	☼	11/16/22 16:15	11/17/22 07:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.5		0.2	0.2	SU			11/11/22 08:22	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Client Sample ID: 1401V3-16-B05 (0-6)

Lab Sample ID: 500-225076-3

Date Collected: 11/08/22 11:00

Matrix: Solid

Date Received: 11/09/22 17:09

Percent Solids: 87.7

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.025		0.025	0.011	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
Benzene	<0.0025		0.0025	0.00064	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
Bromodichloromethane	<0.0025		0.0025	0.00051	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
Bromoform	<0.0025		0.0025	0.00073	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
Bromomethane	<0.0062		0.0062	0.0024	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
2-Butanone (MEK)	<0.0062		0.0062	0.0028	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
Carbon disulfide	<0.0062		0.0062	0.0013	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
Carbon tetrachloride	<0.0025		0.0025	0.00072	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
Chlorobenzene	<0.0025		0.0025	0.00092	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
Chloroethane	<0.0062		0.0062	0.0018	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
Chloroform	<0.0025		0.0025	0.00086	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
Chloromethane	<0.0062		0.0062	0.0025	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
cis-1,2-Dichloroethene	<0.0025		0.0025	0.00070	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
cis-1,3-Dichloropropene	<0.0025		0.0025	0.00075	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
Dibromochloromethane	<0.0025		0.0025	0.00081	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
1,1-Dichloroethane	<0.0025		0.0025	0.00085	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
1,2-Dichloroethane	<0.0062		0.0062	0.0019	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
1,1-Dichloroethene	<0.0025		0.0025	0.00086	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
1,2-Dichloropropane	<0.0025		0.0025	0.00064	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
1,3-Dichloropropane, Total	<0.0025		0.0025	0.00087	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
Ethylbenzene	<0.0025		0.0025	0.0012	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
2-Hexanone	<0.0062		0.0062	0.0019	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
Methylene Chloride	<0.0062		0.0062	0.0025	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
4-Methyl-2-pentanone (MIBK)	<0.0062		0.0062	0.0018	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
Methyl tert-butyl ether	<0.0025		0.0025	0.00073	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
Styrene	<0.0025		0.0025	0.00075	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
1,1,2,2-Tetrachloroethane	<0.0025		0.0025	0.00080	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
Tetrachloroethene	<0.0025		0.0025	0.00085	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
Toluene	<0.0025		0.0025	0.00063	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
trans-1,2-Dichloroethene	<0.0025		0.0025	0.0011	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
trans-1,3-Dichloropropene	<0.0025		0.0025	0.00087	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
1,1,1-Trichloroethane	<0.0025		0.0025	0.00084	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
1,1,2-Trichloroethane	<0.0025		0.0025	0.0011	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
Trichloroethene	<0.0025		0.0025	0.00084	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
Vinyl acetate	<0.0062		0.0062	0.0022	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
Vinyl chloride	<0.0025		0.0025	0.0011	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1
Xylenes, Total	<0.0050		0.0050	0.00080	mg/Kg	☼	11/09/22 18:36	11/12/22 14:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		75 - 131	11/09/22 18:36	11/12/22 14:15	1
Dibromofluoromethane	101		75 - 126	11/09/22 18:36	11/12/22 14:15	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	11/09/22 18:36	11/12/22 14:15	1
Toluene-d8 (Surr)	103		75 - 124	11/09/22 18:36	11/12/22 14:15	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Client Sample ID: 1401V3-16-B05 (0-6)

Lab Sample ID: 500-225076-3

Date Collected: 11/08/22 11:00

Matrix: Solid

Date Received: 11/09/22 17:09

Percent Solids: 87.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Butyl benzyl phthalate	<0.19	*	0.19	0.071	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Client Sample ID: 1401V3-16-B05 (0-6)

Lab Sample ID: 500-225076-3

Date Collected: 11/08/22 11:00

Matrix: Solid

Date Received: 11/09/22 17:09

Percent Solids: 87.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Bis(2-ethylhexyl) phthalate	<0.19	*	0.19	0.068	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Benzo[b]fluoranthene	<0.037	*3	0.037	0.0081	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Benzo[k]fluoranthene	<0.037	*3	0.037	0.011	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Benzo[a]pyrene	<0.037	*3	0.037	0.0072	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Indeno[1,2,3-cd]pyrene	<0.037	*3	0.037	0.0097	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Dibenz(a,h)anthracene	<0.037	*3	0.037	0.0072	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Benzo[g,h,i]perylene	<0.037	*3	0.037	0.012	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	11/17/22 07:24	11/20/22 22:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	120		31 - 166				11/17/22 07:24	11/20/22 22:08	1
Phenol-d5	80		30 - 153				11/17/22 07:24	11/20/22 22:08	1
Nitrobenzene-d5 (Surr)	80		37 - 147				11/17/22 07:24	11/20/22 22:08	1
2-Fluorobiphenyl (Surr)	90		43 - 145				11/17/22 07:24	11/20/22 22:08	1
2,4,6-Tribromophenol	79		31 - 143				11/17/22 07:24	11/20/22 22:08	1
Terphenyl-d14 (Surr)	149		42 - 157				11/17/22 07:24	11/20/22 22:08	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.68	J F1	1.1	0.22	mg/Kg	☼	11/15/22 17:21	11/16/22 20:40	1
Arsenic	11		0.56	0.19	mg/Kg	☼	11/15/22 17:21	11/16/22 20:40	1
Barium	49	B	0.56	0.064	mg/Kg	☼	11/15/22 17:21	11/16/22 20:40	1
Beryllium	0.79		0.22	0.052	mg/Kg	☼	11/15/22 17:21	11/16/22 20:40	1
Boron	6.1	F1	2.8	0.26	mg/Kg	☼	11/15/22 17:21	11/16/22 20:40	1
Cadmium	0.24		0.11	0.020	mg/Kg	☼	11/15/22 17:21	11/16/22 20:40	1
Calcium	20000	B	11	1.9	mg/Kg	☼	11/15/22 17:21	11/16/22 20:40	1
Chromium	15		0.56	0.28	mg/Kg	☼	11/15/22 17:21	11/16/22 20:40	1
Cobalt	15		0.28	0.073	mg/Kg	☼	11/15/22 17:21	11/16/22 20:40	1
Copper	29	B F1	0.56	0.16	mg/Kg	☼	11/15/22 17:21	11/16/22 20:40	1
Iron	23000	B	11	5.8	mg/Kg	☼	11/15/22 17:21	11/17/22 13:34	1
Lead	20	F1	0.28	0.13	mg/Kg	☼	11/15/22 17:21	11/16/22 20:40	1
Magnesium	13000		5.6	2.8	mg/Kg	☼	11/15/22 17:21	11/16/22 20:40	1
Manganese	550	B	0.56	0.081	mg/Kg	☼	11/15/22 17:21	11/16/22 20:40	1
Nickel	32		0.56	0.16	mg/Kg	☼	11/15/22 17:21	11/16/22 20:40	1
Potassium	1700	F1	28	9.9	mg/Kg	☼	11/15/22 17:21	11/16/22 20:40	1
Selenium	<0.56	F1	0.56	0.33	mg/Kg	☼	11/15/22 17:21	11/16/22 20:40	1
Silver	0.27	J	0.28	0.072	mg/Kg	☼	11/15/22 17:21	11/16/22 20:40	1
Sodium	250		56	8.3	mg/Kg	☼	11/15/22 17:21	11/16/22 20:40	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	11/15/22 17:21	11/16/22 20:40	1
Vanadium	18		0.28	0.066	mg/Kg	☼	11/15/22 17:21	11/16/22 20:40	1
Zinc	81	F1	1.1	0.49	mg/Kg	☼	11/15/22 17:21	11/16/22 20:40	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.58		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 21:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/22 19:01	11/16/22 21:41	1
Boron	0.68		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 21:41	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Client Sample ID: 1401V3-16-B05 (0-6)

Lab Sample ID: 500-225076-3

Date Collected: 11/08/22 11:00

Matrix: Solid

Date Received: 11/09/22 17:09

Percent Solids: 87.7

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/22 19:01	11/16/22 21:41	1
Chromium	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:41	1
Cobalt	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:41	1
Iron	0.36	J	0.40	0.20	mg/L		11/15/22 19:01	11/16/22 21:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/15/22 19:01	11/16/22 21:41	1
Manganese	0.34		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:41	1
Nickel	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:41	1
Selenium	<0.050		0.050	0.020	mg/L		11/15/22 19:01	11/16/22 21:41	1
Silver	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:41	1
Zinc	0.039	J	0.50	0.020	mg/L		11/15/22 19:01	11/16/22 21:41	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.62		0.025	0.010	mg/L		11/15/22 19:05	11/17/22 18:49	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/15/22 19:01	11/17/22 20:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/15/22 19:01	11/17/22 20:11	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/16/22 11:50	11/17/22 10:41	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046		0.017	0.0057	mg/Kg	☆	11/16/22 16:15	11/17/22 07:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.0		0.2	0.2	SU			11/11/22 08:22	1

Definitions/Glossary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*3	ISTD response or retention time outside acceptable limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

GC/MS VOA

Analysis Batch: 684607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225076-1	1401V3-16-B04 (0-5)	Total/NA	Solid	8260B	684629
500-225076-2	1401V3-16-B04 (5-9)	Total/NA	Solid	8260B	684629
500-225076-3	1401V3-16-B05 (0-6)	Total/NA	Solid	8260B	684629
MB 500-684607/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-684607/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-684607/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 684629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225076-1	1401V3-16-B04 (0-5)	Total/NA	Solid	5035	
500-225076-2	1401V3-16-B04 (5-9)	Total/NA	Solid	5035	
500-225076-3	1401V3-16-B05 (0-6)	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 685446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225076-1	1401V3-16-B04 (0-5)	Total/NA	Solid	3541	
500-225076-2	1401V3-16-B04 (5-9)	Total/NA	Solid	3541	
500-225076-3	1401V3-16-B05 (0-6)	Total/NA	Solid	3541	
MB 500-685446/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-685446/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-225076-1 MS	1401V3-16-B04 (0-5)	Total/NA	Solid	3541	
500-225076-1 MSD	1401V3-16-B04 (0-5)	Total/NA	Solid	3541	

Analysis Batch: 686118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225076-3	1401V3-16-B05 (0-6)	Total/NA	Solid	8270D	685446

Analysis Batch: 686154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-685446/1-A	Method Blank	Total/NA	Solid	8270D	685446
LCS 500-685446/2-A	Lab Control Sample	Total/NA	Solid	8270D	685446

Analysis Batch: 688192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225076-2	1401V3-16-B04 (5-9)	Total/NA	Solid	8270D	685446

Analysis Batch: 688441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225076-1	1401V3-16-B04 (0-5)	Total/NA	Solid	8270D	685446
500-225076-1 MS	1401V3-16-B04 (0-5)	Total/NA	Solid	8270D	685446
500-225076-1 MSD	1401V3-16-B04 (0-5)	Total/NA	Solid	8270D	685446

Metals

Leach Batch: 684867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225076-1	1401V3-16-B04 (0-5)	TCLP	Solid	1311	
500-225076-2	1401V3-16-B04 (5-9)	TCLP	Solid	1311	
500-225076-3	1401V3-16-B05 (0-6)	TCLP	Solid	1311	
LB 500-684867/1-B	Method Blank	TCLP	Solid	1311	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Metals (Continued)

Leach Batch: 684867 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-684867/1-C	Method Blank	TCLP	Solid	1311	
500-225076-3 MS	1401V3-16-B05 (0-6)	TCLP	Solid	1311	
500-225076-3 DU	1401V3-16-B05 (0-6)	TCLP	Solid	1311	

Leach Batch: 684882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225076-1	1401V3-16-B04 (0-5)	SPLP East	Solid	1312	
500-225076-3	1401V3-16-B05 (0-6)	SPLP East	Solid	1312	
LB 500-684882/1-B	Method Blank	SPLP East	Solid	1312	
500-225076-1 MS	1401V3-16-B04 (0-5)	SPLP East	Solid	1312	
500-225076-1 DU	1401V3-16-B04 (0-5)	SPLP East	Solid	1312	

Prep Batch: 685153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225076-1	1401V3-16-B04 (0-5)	Total/NA	Solid	3050B	
MB 500-685153/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-685153/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-225076-1 MS	1401V3-16-B04 (0-5)	Total/NA	Solid	3050B	
500-225076-1 MSD	1401V3-16-B04 (0-5)	Total/NA	Solid	3050B	
500-225076-1 DU	1401V3-16-B04 (0-5)	Total/NA	Solid	3050B	

Prep Batch: 685155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225076-2	1401V3-16-B04 (5-9)	Total/NA	Solid	3050B	
MB 500-685155/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-685155/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-225076-2 MS	1401V3-16-B04 (5-9)	Total/NA	Solid	3050B	
500-225076-2 MSD	1401V3-16-B04 (5-9)	Total/NA	Solid	3050B	
500-225076-2 DU	1401V3-16-B04 (5-9)	Total/NA	Solid	3050B	

Prep Batch: 685156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225076-3	1401V3-16-B05 (0-6)	Total/NA	Solid	3050B	
MB 500-685156/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-685156/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-225076-3 MS	1401V3-16-B05 (0-6)	Total/NA	Solid	3050B	
500-225076-3 MSD	1401V3-16-B05 (0-6)	Total/NA	Solid	3050B	
500-225076-3 DU	1401V3-16-B05 (0-6)	Total/NA	Solid	3050B	

Prep Batch: 685167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225076-1	1401V3-16-B04 (0-5)	TCLP	Solid	3010A	684867
500-225076-2	1401V3-16-B04 (5-9)	TCLP	Solid	3010A	684867
500-225076-3	1401V3-16-B05 (0-6)	TCLP	Solid	3010A	684867
LB 500-684867/1-B	Method Blank	TCLP	Solid	3010A	684867
LCS 500-685167/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-225076-3 MS	1401V3-16-B05 (0-6)	TCLP	Solid	3010A	684867
500-225076-3 DU	1401V3-16-B05 (0-6)	TCLP	Solid	3010A	684867

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Metals

Prep Batch: 685169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225076-1	1401V3-16-B04 (0-5)	SPLP East	Solid	3010A	684882
500-225076-3	1401V3-16-B05 (0-6)	SPLP East	Solid	3010A	684882
LB 500-684882/1-B	Method Blank	SPLP East	Solid	3010A	684882
LCS 500-685169/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-225076-1 MS	1401V3-16-B04 (0-5)	SPLP East	Solid	3010A	684882
500-225076-1 DU	1401V3-16-B04 (0-5)	SPLP East	Solid	3010A	684882

Prep Batch: 685346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225076-1	1401V3-16-B04 (0-5)	TCLP	Solid	7470A	684867
500-225076-2	1401V3-16-B04 (5-9)	TCLP	Solid	7470A	684867
500-225076-3	1401V3-16-B05 (0-6)	TCLP	Solid	7470A	684867
LB 500-684867/1-C	Method Blank	TCLP	Solid	7470A	684867
MB 500-685346/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-685346/14-A	Lab Control Sample	Total/NA	Solid	7470A	
500-225076-3 MS	1401V3-16-B05 (0-6)	TCLP	Solid	7470A	684867
500-225076-3 DU	1401V3-16-B05 (0-6)	TCLP	Solid	7470A	684867

Prep Batch: 685367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225076-1	1401V3-16-B04 (0-5)	Total/NA	Solid	7471B	
500-225076-2	1401V3-16-B04 (5-9)	Total/NA	Solid	7471B	
500-225076-3	1401V3-16-B05 (0-6)	Total/NA	Solid	7471B	
MB 500-685367/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-685367/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 685514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225076-1	1401V3-16-B04 (0-5)	Total/NA	Solid	6010B	685153
MB 500-685153/1-A	Method Blank	Total/NA	Solid	6010B	685153
LCS 500-685153/2-A	Lab Control Sample	Total/NA	Solid	6010B	685153
500-225076-1 MS	1401V3-16-B04 (0-5)	Total/NA	Solid	6010B	685153
500-225076-1 MSD	1401V3-16-B04 (0-5)	Total/NA	Solid	6010B	685153
500-225076-1 DU	1401V3-16-B04 (0-5)	Total/NA	Solid	6010B	685153

Analysis Batch: 685530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225076-2	1401V3-16-B04 (5-9)	Total/NA	Solid	6010B	685155
500-225076-3	1401V3-16-B05 (0-6)	Total/NA	Solid	6010B	685156
MB 500-685155/1-A	Method Blank	Total/NA	Solid	6010B	685155
MB 500-685156/1-A	Method Blank	Total/NA	Solid	6010B	685156
LCS 500-685155/2-A	Lab Control Sample	Total/NA	Solid	6010B	685155
LCS 500-685156/2-A	Lab Control Sample	Total/NA	Solid	6010B	685156
500-225076-2 MS	1401V3-16-B04 (5-9)	Total/NA	Solid	6010B	685155
500-225076-2 MSD	1401V3-16-B04 (5-9)	Total/NA	Solid	6010B	685155
500-225076-3 MS	1401V3-16-B05 (0-6)	Total/NA	Solid	6010B	685156
500-225076-3 MSD	1401V3-16-B05 (0-6)	Total/NA	Solid	6010B	685156
500-225076-2 DU	1401V3-16-B04 (5-9)	Total/NA	Solid	6010B	685155
500-225076-3 DU	1401V3-16-B05 (0-6)	Total/NA	Solid	6010B	685156

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Metals

Analysis Batch: 685532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225076-1	1401V3-16-B04 (0-5)	TCLP	Solid	6010B	685167
500-225076-2	1401V3-16-B04 (5-9)	TCLP	Solid	6010B	685167
500-225076-3	1401V3-16-B05 (0-6)	TCLP	Solid	6010B	685167
LB 500-684867/1-B	Method Blank	TCLP	Solid	6010B	685167
LCS 500-685167/2-A	Lab Control Sample	Total/NA	Solid	6010B	685167
500-225076-3 MS	1401V3-16-B05 (0-6)	TCLP	Solid	6010B	685167
500-225076-3 DU	1401V3-16-B05 (0-6)	TCLP	Solid	6010B	685167

Analysis Batch: 685535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225076-1	1401V3-16-B04 (0-5)	Total/NA	Solid	7471B	685367
500-225076-2	1401V3-16-B04 (5-9)	Total/NA	Solid	7471B	685367
500-225076-3	1401V3-16-B05 (0-6)	Total/NA	Solid	7471B	685367
MB 500-685367/12-A	Method Blank	Total/NA	Solid	7471B	685367
LCS 500-685367/13-A	Lab Control Sample	Total/NA	Solid	7471B	685367

Analysis Batch: 685588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225076-1	1401V3-16-B04 (0-5)	TCLP	Solid	7470A	685346
500-225076-2	1401V3-16-B04 (5-9)	TCLP	Solid	7470A	685346
500-225076-3	1401V3-16-B05 (0-6)	TCLP	Solid	7470A	685346
LB 500-684867/1-C	Method Blank	TCLP	Solid	7470A	685346
MB 500-685346/12-A	Method Blank	Total/NA	Solid	7470A	685346
LCS 500-685346/14-A	Lab Control Sample	Total/NA	Solid	7470A	685346
500-225076-3 MS	1401V3-16-B05 (0-6)	TCLP	Solid	7470A	685346
500-225076-3 DU	1401V3-16-B05 (0-6)	TCLP	Solid	7470A	685346

Analysis Batch: 685624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225076-3	1401V3-16-B05 (0-6)	Total/NA	Solid	6010B	685156
MB 500-685156/1-A	Method Blank	Total/NA	Solid	6010B	685156
LCS 500-685156/2-A	Lab Control Sample	Total/NA	Solid	6010B	685156
500-225076-3 MS	1401V3-16-B05 (0-6)	Total/NA	Solid	6010B	685156
500-225076-3 MSD	1401V3-16-B05 (0-6)	Total/NA	Solid	6010B	685156
500-225076-3 DU	1401V3-16-B05 (0-6)	Total/NA	Solid	6010B	685156

Prep Batch: 685701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225076-2	1401V3-16-B04 (5-9)	Total/NA	Solid	3050B	
MB 500-685701/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-685701/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 685803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225076-1	1401V3-16-B04 (0-5)	SPLP East	Solid	6010B	685169
500-225076-3	1401V3-16-B05 (0-6)	SPLP East	Solid	6010B	685169
LB 500-684882/1-B	Method Blank	SPLP East	Solid	6010B	685169
LCS 500-685169/2-A	Lab Control Sample	Total/NA	Solid	6010B	685169
500-225076-1 MS	1401V3-16-B04 (0-5)	SPLP East	Solid	6010B	685169
500-225076-1 DU	1401V3-16-B04 (0-5)	SPLP East	Solid	6010B	685169

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QC Association Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Metals

Analysis Batch: 685882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225076-1	1401V3-16-B04 (0-5)	TCLP	Solid	6020A	685167
500-225076-2	1401V3-16-B04 (5-9)	TCLP	Solid	6020A	685167
500-225076-3	1401V3-16-B05 (0-6)	TCLP	Solid	6020A	685167
LB 500-684867/1-B	Method Blank	TCLP	Solid	6020A	685167
LCS 500-685167/2-A	Lab Control Sample	Total/NA	Solid	6020A	685167
500-225076-3 MS	1401V3-16-B05 (0-6)	TCLP	Solid	6020A	685167
500-225076-3 DU	1401V3-16-B05 (0-6)	TCLP	Solid	6020A	685167

Analysis Batch: 686365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225076-2	1401V3-16-B04 (5-9)	Total/NA	Solid	6010B	685701
MB 500-685701/1-A	Method Blank	Total/NA	Solid	6010B	685701
LCS 500-685701/2-A	Lab Control Sample	Total/NA	Solid	6010B	685701

General Chemistry

Analysis Batch: 684356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225076-1	1401V3-16-B04 (0-5)	Total/NA	Solid	Moisture	
500-225076-2	1401V3-16-B04 (5-9)	Total/NA	Solid	Moisture	
500-225076-3	1401V3-16-B05 (0-6)	Total/NA	Solid	Moisture	

Analysis Batch: 684430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225076-1	1401V3-16-B04 (0-5)	Total/NA	Solid	9045D	
500-225076-2	1401V3-16-B04 (5-9)	Total/NA	Solid	9045D	
500-225076-3	1401V3-16-B05 (0-6)	Total/NA	Solid	9045D	
LCS 500-684430/5	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-684430/6	Lab Control Sample Dup	Total/NA	Solid	9045D	

Surrogate Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-225076-1	1401V3-16-B04 (0-5)	102	104	106	100
500-225076-2	1401V3-16-B04 (5-9)	99	101	111	96
500-225076-3	1401V3-16-B05 (0-6)	104	101	103	103
LCS 500-684607/3	Lab Control Sample	106	93	96	103
LCSD 500-684607/4	Lab Control Sample Dup	98	94	99	104
MB 500-684607/6	Method Blank	97	99	98	102

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (31-166)	PHL (30-153)	NBZ (37-147)	FBP (43-145)	TBP (31-143)	TPHL (42-157)
500-225076-1	1401V3-16-B04 (0-5)	116	112	72	76	95	127
500-225076-1 MS	1401V3-16-B04 (0-5)	106	99	73	76	88	93
500-225076-1 MSD	1401V3-16-B04 (0-5)	139	124	93	97	114	124
500-225076-2	1401V3-16-B04 (5-9)	92	87	76	78	81	237 S1+ *3
500-225076-3	1401V3-16-B05 (0-6)	120	80	80	90	79	149
LCS 500-685446/2-A	Lab Control Sample	97	88	69	79	84	83
MB 500-685446/1-A	Method Blank	102	96	66	79	71	79

Surrogate Legend

2FP = 2-Fluorophenol

PHL = Phenol-d5

NBZ = Nitrobenzene-d5 (Surr)

FBP = 2-Fluorobiphenyl (Surr)

TBP = 2,4,6-Tribromophenol

TPHL = Terphenyl-d14 (Surr)

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-684607/6
Matrix: Solid
Analysis Batch: 684607

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			11/12/22 10:34	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			11/12/22 10:34	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			11/12/22 10:34	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			11/12/22 10:34	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			11/12/22 10:34	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			11/12/22 10:34	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			11/12/22 10:34	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			11/12/22 10:34	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			11/12/22 10:34	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			11/12/22 10:34	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			11/12/22 10:34	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			11/12/22 10:34	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			11/12/22 10:34	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			11/12/22 10:34	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			11/12/22 10:34	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			11/12/22 10:34	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			11/12/22 10:34	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			11/12/22 10:34	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			11/12/22 10:34	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			11/12/22 10:34	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			11/12/22 10:34	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			11/12/22 10:34	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			11/12/22 10:34	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			11/12/22 10:34	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			11/12/22 10:34	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			11/12/22 10:34	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			11/12/22 10:34	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/12/22 10:34	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			11/12/22 10:34	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			11/12/22 10:34	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			11/12/22 10:34	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			11/12/22 10:34	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			11/12/22 10:34	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/12/22 10:34	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			11/12/22 10:34	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			11/12/22 10:34	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			11/12/22 10:34	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	97		75 - 131		11/12/22 10:34	1
Dibromofluoromethane	99		75 - 126		11/12/22 10:34	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		11/12/22 10:34	1
Toluene-d8 (Surr)	102		75 - 124		11/12/22 10:34	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-684607/3

Matrix: Solid

Analysis Batch: 684607

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0400	0.0387		mg/Kg		97	40 - 150
Benzene	0.0400	0.0404		mg/Kg		101	70 - 125
Bromodichloromethane	0.0400	0.0415		mg/Kg		104	67 - 129
Bromoform	0.0400	0.0401		mg/Kg		100	68 - 136
Bromomethane	0.0400	0.0342		mg/Kg		86	70 - 130
2-Butanone (MEK)	0.0400	0.0383		mg/Kg		96	47 - 138
Carbon disulfide	0.0400	0.0373		mg/Kg		93	70 - 129
Carbon tetrachloride	0.0400	0.0373		mg/Kg		93	75 - 125
Chlorobenzene	0.0400	0.0438		mg/Kg		109	50 - 150
Chloroethane	0.0400	0.0378		mg/Kg		95	75 - 125
Chloroform	0.0400	0.0399		mg/Kg		100	57 - 135
Chloromethane	0.0400	0.0355		mg/Kg		89	70 - 125
cis-1,2-Dichloroethene	0.0400	0.0398		mg/Kg		100	70 - 125
cis-1,3-Dichloropropene	0.0400	0.0486		mg/Kg		122	70 - 125
Dibromochloromethane	0.0400	0.0423		mg/Kg		106	69 - 125
1,1-Dichloroethane	0.0400	0.0410		mg/Kg		102	70 - 125
1,2-Dichloroethane	0.0400	0.0430		mg/Kg		107	70 - 130
1,1-Dichloroethene	0.0400	0.0435		mg/Kg		109	70 - 120
1,2-Dichloropropane	0.0400	0.0390		mg/Kg		97	70 - 125
Ethylbenzene	0.0400	0.0407		mg/Kg		102	61 - 136
2-Hexanone	0.0400	0.0375		mg/Kg		94	48 - 146
Methylene Chloride	0.0400	0.0389		mg/Kg		97	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0400	0.0357		mg/Kg		89	50 - 148
Methyl tert-butyl ether	0.0400	0.0370		mg/Kg		92	50 - 140
Styrene	0.0400	0.0395		mg/Kg		99	70 - 125
1,1,2,2-Tetrachloroethane	0.0400	0.0415		mg/Kg		104	70 - 122
Tetrachloroethene	0.0400	0.0443		mg/Kg		111	70 - 124
Toluene	0.0400	0.0417		mg/Kg		104	70 - 125
trans-1,2-Dichloroethene	0.0400	0.0422		mg/Kg		105	70 - 125
trans-1,3-Dichloropropene	0.0400	0.0481		mg/Kg		120	70 - 125
1,1,1-Trichloroethane	0.0400	0.0377		mg/Kg		94	70 - 128
1,1,2-Trichloroethane	0.0400	0.0439		mg/Kg		110	70 - 125
Trichloroethene	0.0400	0.0436		mg/Kg		109	70 - 125
Vinyl acetate	0.0400	0.0407		mg/Kg		102	40 - 153
Vinyl chloride	0.0400	0.0358		mg/Kg		90	70 - 125
Xylenes, Total	0.0800	0.0765		mg/Kg		96	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	106		75 - 131
Dibromofluoromethane	93		75 - 126
1,2-Dichloroethane-d4 (Surr)	96		70 - 134
Toluene-d8 (Surr)	103		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-684607/4
Matrix: Solid
Analysis Batch: 684607

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.0400	0.0484		mg/Kg		121	40 - 150	22	30
Benzene	0.0400	0.0434		mg/Kg		108	70 - 125	7	30
Bromodichloromethane	0.0400	0.0435		mg/Kg		109	67 - 129	5	30
Bromoform	0.0400	0.0424		mg/Kg		106	68 - 136	5	30
Bromomethane	0.0400	0.0400		mg/Kg		100	70 - 130	16	30
2-Butanone (MEK)	0.0400	0.0401		mg/Kg		100	47 - 138	5	30
Carbon disulfide	0.0400	0.0432		mg/Kg		108	70 - 129	15	30
Carbon tetrachloride	0.0400	0.0420		mg/Kg		105	75 - 125	12	30
Chlorobenzene	0.0400	0.0447		mg/Kg		112	50 - 150	2	30
Chloroethane	0.0400	0.0435		mg/Kg		109	75 - 125	14	30
Chloroform	0.0400	0.0422		mg/Kg		106	57 - 135	6	30
Chloromethane	0.0400	0.0401		mg/Kg		100	70 - 125	12	30
cis-1,2-Dichloroethene	0.0400	0.0435		mg/Kg		109	70 - 125	9	30
cis-1,3-Dichloropropene	0.0400	0.0488		mg/Kg		122	70 - 125	0	30
Dibromochloromethane	0.0400	0.0439		mg/Kg		110	69 - 125	4	30
1,1-Dichloroethane	0.0400	0.0438		mg/Kg		110	70 - 125	7	30
1,2-Dichloroethane	0.0400	0.0443		mg/Kg		111	70 - 130	3	30
1,1-Dichloroethene	0.0400	0.0470		mg/Kg		117	70 - 120	8	30
1,2-Dichloropropane	0.0400	0.0413		mg/Kg		103	70 - 125	6	30
Ethylbenzene	0.0400	0.0424		mg/Kg		106	61 - 136	4	30
2-Hexanone	0.0400	0.0401		mg/Kg		100	48 - 146	7	30
Methylene Chloride	0.0400	0.0431		mg/Kg		108	70 - 126	10	30
4-Methyl-2-pentanone (MIBK)	0.0400	0.0388		mg/Kg		97	50 - 148	8	30
Methyl tert-butyl ether	0.0400	0.0409		mg/Kg		102	50 - 140	10	30
Styrene	0.0400	0.0415		mg/Kg		104	70 - 125	5	30
1,1,2,2-Tetrachloroethane	0.0400	0.0405		mg/Kg		101	70 - 122	2	30
Tetrachloroethene	0.0400	0.0469		mg/Kg		117	70 - 124	6	30
Toluene	0.0400	0.0431		mg/Kg		108	70 - 125	3	30
trans-1,2-Dichloroethene	0.0400	0.0467		mg/Kg		117	70 - 125	10	30
trans-1,3-Dichloropropene	0.0400	0.0494		mg/Kg		124	70 - 125	3	30
1,1,1-Trichloroethane	0.0400	0.0423		mg/Kg		106	70 - 128	12	30
1,1,2-Trichloroethane	0.0400	0.0453		mg/Kg		113	70 - 125	3	30
Trichloroethene	0.0400	0.0470		mg/Kg		118	70 - 125	8	30
Vinyl acetate	0.0400	0.0420		mg/Kg		105	40 - 153	3	30
Vinyl chloride	0.0400	0.0409		mg/Kg		102	70 - 125	13	30
Xylenes, Total	0.0800	0.0807		mg/Kg		101	53 - 147	5	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		75 - 131
Dibromofluoromethane	94		75 - 126
1,2-Dichloroethane-d4 (Surr)	99		70 - 134
Toluene-d8 (Surr)	104		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-685446/1-A
Matrix: Solid
Analysis Batch: 686154

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685446

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Isophorone	<0.17		0.17	0.037	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Carbazole	<0.17		0.17	0.083	mg/Kg		11/17/22 07:24	11/20/22 17:04	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-685446/1-A
Matrix: Solid
Analysis Batch: 686154

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685446

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Bis(2-ethylhexyl) phthalate	0.0813	J	0.17	0.061	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		11/17/22 07:24	11/20/22 17:04	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		11/17/22 07:24	11/20/22 17:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	102		31 - 166	11/17/22 07:24	11/20/22 17:04	1
Phenol-d5	96		30 - 153	11/17/22 07:24	11/20/22 17:04	1
Nitrobenzene-d5 (Surr)	66		37 - 147	11/17/22 07:24	11/20/22 17:04	1
2-Fluorobiphenyl (Surr)	79		43 - 145	11/17/22 07:24	11/20/22 17:04	1
2,4,6-Tribromophenol	71		31 - 143	11/17/22 07:24	11/20/22 17:04	1
Terphenyl-d14 (Surr)	79		42 - 157	11/17/22 07:24	11/20/22 17:04	1

Lab Sample ID: LCS 500-685446/2-A
Matrix: Solid
Analysis Batch: 686154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685446

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.06		mg/Kg		80	56 - 122
Bis(2-chloroethyl)ether	1.33	1.02		mg/Kg		76	55 - 111
1,3-Dichlorobenzene	1.33	1.08		mg/Kg		81	65 - 124
1,4-Dichlorobenzene	1.33	1.08		mg/Kg		81	61 - 110
1,2-Dichlorobenzene	1.33	1.09		mg/Kg		81	62 - 110
2-Methylphenol	1.33	1.22		mg/Kg		91	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	0.729		mg/Kg		55	40 - 124
N-Nitrosodi-n-propylamine	1.33	0.921		mg/Kg		69	56 - 118
Hexachloroethane	1.33	0.926		mg/Kg		69	60 - 114
2-Chlorophenol	1.33	1.12		mg/Kg		84	64 - 110
Nitrobenzene	1.33	1.01		mg/Kg		76	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.09		mg/Kg		82	60 - 112
1,2,4-Trichlorobenzene	1.33	1.14		mg/Kg		86	66 - 117
Isophorone	1.33	0.990		mg/Kg		74	55 - 110
2,4-Dimethylphenol	1.33	1.10		mg/Kg		82	60 - 110
Hexachlorobutadiene	1.33	0.998		mg/Kg		75	56 - 120
Naphthalene	1.33	1.15		mg/Kg		86	63 - 110
2,4-Dichlorophenol	1.33	1.12		mg/Kg		84	58 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-685446/2-A
Matrix: Solid
Analysis Batch: 686154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685446

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloroaniline	1.33	0.685		mg/Kg		51	30 - 150
2,4,6-Trichlorophenol	1.33	0.979		mg/Kg		73	57 - 120
2,4,5-Trichlorophenol	1.33	1.09		mg/Kg		82	50 - 120
Hexachlorocyclopentadiene	1.33	0.275	J	mg/Kg		21	10 - 133
2-Methylnaphthalene	1.33	1.11		mg/Kg		84	69 - 112
2-Nitroaniline	1.33	0.864		mg/Kg		65	57 - 124
2-Chloronaphthalene	1.33	1.12		mg/Kg		84	69 - 114
4-Chloro-3-methylphenol	1.33	1.12		mg/Kg		84	65 - 122
2,6-Dinitrotoluene	1.33	1.15		mg/Kg		86	70 - 123
2-Nitrophenol	1.33	1.19		mg/Kg		89	60 - 120
3-Nitroaniline	1.33	0.834		mg/Kg		63	40 - 122
Dimethyl phthalate	1.33	1.23		mg/Kg		93	69 - 116
2,4-Dinitrophenol	2.67	0.882		mg/Kg		33	10 - 100
Acenaphthylene	1.33	1.20		mg/Kg		90	68 - 120
2,4-Dinitrotoluene	1.33	1.21		mg/Kg		91	69 - 124
Acenaphthene	1.33	1.11		mg/Kg		83	65 - 124
Dibenzofuran	1.33	1.17		mg/Kg		88	66 - 115
4-Nitrophenol	2.67	1.17		mg/Kg		44	30 - 122
Fluorene	1.33	1.15		mg/Kg		86	62 - 120
4-Nitroaniline	1.33	1.10		mg/Kg		83	60 - 160
4-Bromophenyl phenyl ether	1.33	0.988		mg/Kg		74	68 - 118
Hexachlorobenzene	1.33	1.11		mg/Kg		83	63 - 124
Diethyl phthalate	1.33	0.990		mg/Kg		74	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.11		mg/Kg		83	62 - 119
Pentachlorophenol	2.67	1.19		mg/Kg		45	13 - 112
N-Nitrosodiphenylamine	1.33	1.13		mg/Kg		85	65 - 112
4,6-Dinitro-2-methylphenol	2.67	1.35		mg/Kg		51	10 - 110
Phenanthrene	1.33	1.14		mg/Kg		85	62 - 120
Anthracene	1.33	1.15		mg/Kg		86	70 - 114
Carbazole	1.33	1.26		mg/Kg		94	65 - 142
Di-n-butyl phthalate	1.33	1.10		mg/Kg		82	65 - 120
Fluoranthene	1.33	1.30		mg/Kg		97	62 - 120
Pyrene	1.33	1.09		mg/Kg		81	61 - 128
Butyl benzyl phthalate	1.33	0.918	*-	mg/Kg		69	71 - 129
Benzo[a]anthracene	1.33	1.20		mg/Kg		90	67 - 122
Chrysene	1.33	1.21		mg/Kg		90	63 - 120
3,3'-Dichlorobenzidine	1.33	0.981		mg/Kg		74	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	0.917	*-	mg/Kg		69	72 - 131
Di-n-octyl phthalate	1.33	1.27		mg/Kg		95	68 - 134
Benzo[b]fluoranthene	1.33	1.08		mg/Kg		81	69 - 129
Benzo[k]fluoranthene	1.33	1.08		mg/Kg		81	68 - 127
Benzo[a]pyrene	1.33	1.22		mg/Kg		91	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.10		mg/Kg		82	68 - 130
Dibenz(a,h)anthracene	1.33	1.02		mg/Kg		77	64 - 131
Benzo[g,h,i]perylene	1.33	1.23		mg/Kg		92	72 - 131
3 & 4 Methylphenol	1.33	1.15		mg/Kg		86	57 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-685446/2-A
Matrix: Solid
Analysis Batch: 686154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685446

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	97		31 - 166
Phenol-d5	88		30 - 153
Nitrobenzene-d5 (Surr)	69		37 - 147
2-Fluorobiphenyl (Surr)	79		43 - 145
2,4,6-Tribromophenol	84		31 - 143
Terphenyl-d14 (Surr)	83		42 - 157

Lab Sample ID: 500-225076-1 MS
Matrix: Solid
Analysis Batch: 688441

Client Sample ID: 1401V3-16-B04 (0-5)
Prep Type: Total/NA
Prep Batch: 685446

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Phenol	<0.41		1.65	1.25		mg/Kg	☼	76	56 - 122
Bis(2-chloroethyl)ether	<0.41		1.65	1.30		mg/Kg	☼	79	55 - 111
1,3-Dichlorobenzene	<0.41		1.65	1.09		mg/Kg	☼	66	60 - 110
1,4-Dichlorobenzene	<0.41		1.65	1.16		mg/Kg	☼	70	61 - 110
1,2-Dichlorobenzene	<0.41		1.65	1.19		mg/Kg	☼	72	62 - 110
2-Methylphenol	<0.41		1.65	1.34		mg/Kg	☼	81	60 - 120
2,2'-oxybis[1-chloropropane]	<0.41		1.65	1.34		mg/Kg	☼	81	40 - 124
N-Nitrosodi-n-propylamine	<0.16		1.65	1.43		mg/Kg	☼	87	56 - 118
Hexachloroethane	<0.41		1.65	1.12		mg/Kg	☼	68	60 - 114
2-Chlorophenol	<0.41		1.65	1.21		mg/Kg	☼	73	64 - 110
Nitrobenzene	<0.081		1.65	1.34		mg/Kg	☼	81	60 - 116
Bis(2-chloroethoxy)methane	<0.41		1.65	1.25		mg/Kg	☼	76	60 - 112
1,2,4-Trichlorobenzene	<0.41		1.65	1.16		mg/Kg	☼	70	66 - 117
Isophorone	<0.41		1.65	1.36		mg/Kg	☼	83	55 - 110
2,4-Dimethylphenol	<0.81		1.65	1.07		mg/Kg	☼	65	60 - 110
Hexachlorobutadiene	<0.41		1.65	1.10		mg/Kg	☼	67	56 - 120
Naphthalene	<0.081		1.65	1.28		mg/Kg	☼	77	63 - 110
2,4-Dichlorophenol	<0.81		1.65	1.25		mg/Kg	☼	76	58 - 120
4-Chloroaniline	<1.6		1.65	0.607	J	mg/Kg	☼	37	30 - 150
2,4,6-Trichlorophenol	<0.81		1.65	1.20		mg/Kg	☼	73	57 - 120
2,4,5-Trichlorophenol	<0.81		1.65	1.25		mg/Kg	☼	76	50 - 120
Hexachlorocyclopentadiene	<1.6	F1	1.65	<1.7	F1	mg/Kg	☼	0	10 - 133
2-Methylnaphthalene	<0.16		1.65	1.15		mg/Kg	☼	70	69 - 112
2-Nitroaniline	<0.41		1.65	1.48		mg/Kg	☼	90	57 - 124
2-Chloronaphthalene	<0.41		1.65	1.49		mg/Kg	☼	90	69 - 114
4-Chloro-3-methylphenol	<0.81	F2	1.65	1.20		mg/Kg	☼	73	65 - 122
2,6-Dinitrotoluene	<0.41	F1	1.65	1.64		mg/Kg	☼	99	70 - 123
2-Nitrophenol	<0.81		1.65	1.27		mg/Kg	☼	77	60 - 120
3-Nitroaniline	<0.81		1.65	0.899		mg/Kg	☼	54	40 - 122
Dimethyl phthalate	<0.41	F1	1.65	1.48		mg/Kg	☼	90	69 - 116
2,4-Dinitrophenol	<1.6		3.30	2.06		mg/Kg	☼	62	10 - 100
Acenaphthylene	<0.081		1.65	1.48		mg/Kg	☼	90	68 - 120
2,4-Dinitrotoluene	<0.41	F1 F2	1.65	1.49		mg/Kg	☼	91	69 - 124
Acenaphthene	<0.081		1.65	1.21		mg/Kg	☼	73	65 - 124
Dibenzofuran	<0.41		1.65	1.30		mg/Kg	☼	79	66 - 115
4-Nitrophenol	<1.6	F2	3.30	1.81		mg/Kg	☼	55	30 - 122

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-225076-1 MS
Matrix: Solid
Analysis Batch: 688441

Client Sample ID: 1401V3-16-B04 (0-5)
Prep Type: Total/NA
Prep Batch: 685446

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluorene	<0.081		1.65	1.20		mg/Kg	☼	73	62 - 120
4-Nitroaniline	<0.81	F1	1.65	0.919	F1	mg/Kg	☼	56	60 - 160
4-Bromophenyl phenyl ether	<0.41		1.65	1.56		mg/Kg	☼	94	68 - 118
Hexachlorobenzene	<0.16		1.65	1.59		mg/Kg	☼	96	63 - 124
Diethyl phthalate	<0.41	F2	1.65	1.24		mg/Kg	☼	75	58 - 120
4-Chlorophenyl phenyl ether	<0.41		1.65	1.25		mg/Kg	☼	76	62 - 119
Pentachlorophenol	<1.6	F1	3.30	<1.7	F1	mg/Kg	☼	0	13 - 112
N-Nitrosodiphenylamine	<0.41		1.65	1.22		mg/Kg	☼	74	65 - 112
4,6-Dinitro-2-methylphenol	<1.6		3.30	2.50		mg/Kg	☼	76	10 - 110
Phenanthrene	0.065	J	1.65	1.43		mg/Kg	☼	83	62 - 120
Anthracene	0.036	J	1.65	1.36		mg/Kg	☼	80	70 - 114
Carbazole	<0.41		1.65	1.17		mg/Kg	☼	71	65 - 142
Di-n-butyl phthalate	<0.41		1.65	1.18		mg/Kg	☼	72	65 - 120
Fluoranthene	0.12		1.65	1.43		mg/Kg	☼	79	62 - 120
Pyrene	0.098		1.65	1.67		mg/Kg	☼	95	61 - 128
Butyl benzyl phthalate	<0.41	*-	1.65	1.34		mg/Kg	☼	81	71 - 129
Benzo[a]anthracene	0.056	J F1 F2	1.65	1.62		mg/Kg	☼	94	67 - 122
Chrysene	0.076	J F1 F2	1.65	1.59		mg/Kg	☼	92	63 - 120
3,3'-Dichlorobenzidine	<0.41	F2	1.65	0.808		mg/Kg	☼	49	35 - 128
Bis(2-ethylhexyl) phthalate	<0.41	*- F1	1.65	1.17	F1	mg/Kg	☼	71	72 - 131
Di-n-octyl phthalate	<0.41	F1 F2	1.65	1.03	F1	mg/Kg	☼	62	68 - 134
Benzo[b]fluoranthene	0.11		1.65	1.49		mg/Kg	☼	84	69 - 129
Benzo[k]fluoranthene	0.038	J F2	1.65	1.37		mg/Kg	☼	81	68 - 127
Benzo[a]pyrene	0.078	J	1.65	1.49		mg/Kg	☼	86	65 - 133
Indeno[1,2,3-cd]pyrene	0.054	J	1.65	1.40		mg/Kg	☼	81	68 - 130
Dibenz(a,h)anthracene	0.018	J	1.65	1.32		mg/Kg	☼	79	64 - 131
Benzo[g,h,i]perylene	0.061	J	1.65	1.27		mg/Kg	☼	73	72 - 131
3 & 4 Methylphenol	<0.41		1.65	1.64		mg/Kg	☼	99	57 - 120

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2-Fluorophenol	106		31 - 166
Phenol-d5	99		30 - 153
Nitrobenzene-d5 (Surr)	73		37 - 147
2-Fluorobiphenyl (Surr)	76		43 - 145
2,4,6-Tribromophenol	88		31 - 143
Terphenyl-d14 (Surr)	93		42 - 157

Lab Sample ID: 500-225076-1 MSD
Matrix: Solid
Analysis Batch: 688441

Client Sample ID: 1401V3-16-B04 (0-5)
Prep Type: Total/NA
Prep Batch: 685446

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenol	<0.41		1.65	1.58		mg/Kg	☼	96	56 - 122	23	30
Bis(2-chloroethyl)ether	<0.41		1.65	1.65		mg/Kg	☼	100	55 - 111	24	30
1,3-Dichlorobenzene	<0.41		1.65	1.45		mg/Kg	☼	88	60 - 110	28	30
1,4-Dichlorobenzene	<0.41		1.65	1.52		mg/Kg	☼	92	61 - 110	27	30
1,2-Dichlorobenzene	<0.41		1.65	1.55		mg/Kg	☼	94	62 - 110	26	30
2-Methylphenol	<0.41		1.65	1.71		mg/Kg	☼	104	60 - 120	24	30

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-225076-1 MSD

Matrix: Solid

Analysis Batch: 688441

Client Sample ID: 1401V3-16-B04 (0-5)

Prep Type: Total/NA

Prep Batch: 685446

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
2,2'-oxybis[1-chloropropane]	<0.41		1.65	1.75		mg/Kg	☼	106	40 - 124	27	30
N-Nitrosodi-n-propylamine	<0.16		1.65	1.87		mg/Kg	☼	113	56 - 118	27	30
Hexachloroethane	<0.41		1.65	1.47		mg/Kg	☼	89	60 - 114	27	30
2-Chlorophenol	<0.41		1.65	1.55		mg/Kg	☼	94	64 - 110	25	30
Nitrobenzene	<0.081		1.65	1.73		mg/Kg	☼	105	60 - 116	25	30
Bis(2-chloroethoxy)methane	<0.41		1.65	1.62		mg/Kg	☼	98	60 - 112	26	30
1,2,4-Trichlorobenzene	<0.41		1.65	1.44		mg/Kg	☼	88	66 - 117	22	30
Isophorone	<0.41		1.65	1.72		mg/Kg	☼	104	55 - 110	23	30
2,4-Dimethylphenol	<0.81		1.65	1.39		mg/Kg	☼	84	60 - 110	26	30
Hexachlorobutadiene	<0.41		1.65	1.38		mg/Kg	☼	84	56 - 120	22	30
Naphthalene	<0.081		1.65	1.62		mg/Kg	☼	98	63 - 110	24	30
2,4-Dichlorophenol	<0.81		1.65	1.56		mg/Kg	☼	95	58 - 120	22	30
4-Chloroaniline	<1.6		1.65	0.811 J		mg/Kg	☼	49	30 - 150	29	30
2,4,6-Trichlorophenol	<0.81		1.65	1.55		mg/Kg	☼	94	57 - 120	25	30
2,4,5-Trichlorophenol	<0.81		1.65	1.66		mg/Kg	☼	101	50 - 120	28	30
Hexachlorocyclopentadiene	<1.6	F1	1.65	<1.7	F1	mg/Kg	☼	0	10 - 133	NC	30
2-Methylnaphthalene	<0.16		1.65	1.47		mg/Kg	☼	89	69 - 112	24	30
2-Nitroaniline	<0.41		1.65	1.99		mg/Kg	☼	121	57 - 124	29	30
2-Chloronaphthalene	<0.41		1.65	1.85		mg/Kg	☼	112	69 - 114	22	30
4-Chloro-3-methylphenol	<0.81	F2	1.65	1.69	F2	mg/Kg	☼	102	65 - 122	33	30
2,6-Dinitrotoluene	<0.41	F1	1.65	2.07	F1	mg/Kg	☼	126	70 - 123	23	30
2-Nitrophenol	<0.81		1.65	1.55		mg/Kg	☼	94	60 - 120	20	30
3-Nitroaniline	<0.81		1.65	1.22		mg/Kg	☼	74	40 - 122	30	30
Dimethyl phthalate	<0.41	F1	1.65	1.95	F1	mg/Kg	☼	118	69 - 116	27	30
2,4-Dinitrophenol	<1.6		3.30	2.46		mg/Kg	☼	75	10 - 100	18	30
Acenaphthylene	<0.081		1.65	1.88		mg/Kg	☼	114	68 - 120	23	30
2,4-Dinitrotoluene	<0.41	F1 F2	1.65	2.16	F1 F2	mg/Kg	☼	131	69 - 124	37	30
Acenaphthene	<0.081		1.65	1.57		mg/Kg	☼	95	65 - 124	26	30
Dibenzofuran	<0.41		1.65	1.68		mg/Kg	☼	102	66 - 115	25	30
4-Nitrophenol	<1.6	F2	3.30	2.65	F2	mg/Kg	☼	80	30 - 122	37	30
Fluorene	<0.081		1.65	1.60		mg/Kg	☼	97	62 - 120	29	30
4-Nitroaniline	<0.81	F1	1.65	1.18		mg/Kg	☼	71	60 - 160	25	30
4-Bromophenyl phenyl ether	<0.41		1.65	1.95		mg/Kg	☼	118	68 - 118	23	30
Hexachlorobenzene	<0.16		1.65	2.01		mg/Kg	☼	122	63 - 124	23	30
Diethyl phthalate	<0.41	F2	1.65	1.72	F2	mg/Kg	☼	104	58 - 120	32	30
4-Chlorophenyl phenyl ether	<0.41		1.65	1.63		mg/Kg	☼	99	62 - 119	26	30
Pentachlorophenol	<1.6	F1	3.30	<1.7	F1	mg/Kg	☼	0	13 - 112	NC	30
N-Nitrosodiphenylamine	<0.41		1.65	1.58		mg/Kg	☼	96	65 - 112	26	30
4,6-Dinitro-2-methylphenol	<1.6		3.30	2.96		mg/Kg	☼	90	10 - 110	17	30
Phenanthrene	0.065	J	1.65	1.86		mg/Kg	☼	109	62 - 120	26	30
Anthracene	0.036	J	1.65	1.81		mg/Kg	☼	107	70 - 114	28	30
Carbazole	<0.41		1.65	1.54		mg/Kg	☼	93	65 - 142	27	30
Di-n-butyl phthalate	<0.41		1.65	1.57		mg/Kg	☼	95	65 - 120	28	30
Fluoranthene	0.12		1.65	1.87		mg/Kg	☼	106	62 - 120	27	30
Pyrene	0.098		1.65	2.17		mg/Kg	☼	126	61 - 128	26	30
Butyl benzyl phthalate	<0.41	*-	1.65	1.77		mg/Kg	☼	107	71 - 129	28	30
Benzo[a]anthracene	0.056	J F1 F2	1.65	2.28	F1 F2	mg/Kg	☼	135	67 - 122	34	30
Chrysene	0.076	J F1 F2	1.65	2.22	F1 F2	mg/Kg	☼	130	63 - 120	33	30
3,3'-Dichlorobenzidine	<0.41	F2	1.65	1.15	F2	mg/Kg	☼	70	35 - 128	35	30

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-225076-1 MSD

Matrix: Solid

Analysis Batch: 688441

Client Sample ID: 1401V3-16-B04 (0-5)

Prep Type: Total/NA

Prep Batch: 685446

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
Bis(2-ethylhexyl) phthalate	<0.41	*- F1	1.65	1.59		mg/Kg	☼	96	72 - 131	30	30
Di-n-octyl phthalate	<0.41	F1 F2	1.65	1.43	F2	mg/Kg	☼	87	68 - 134	32	30
Benzo[b]fluoranthene	0.11		1.65	2.02		mg/Kg	☼	116	69 - 129	30	30
Benzo[k]fluoranthene	0.038	J F2	1.65	1.89	F2	mg/Kg	☼	112	68 - 127	32	30
Benzo[a]pyrene	0.078	J	1.65	1.93		mg/Kg	☼	112	65 - 133	26	30
Indeno[1,2,3-cd]pyrene	0.054	J	1.65	1.63		mg/Kg	☼	96	68 - 130	16	30
Dibenz(a,h)anthracene	0.018	J	1.65	1.54		mg/Kg	☼	92	64 - 131	16	30
Benzo[g,h,i]perylene	0.061	J	1.65	1.45		mg/Kg	☼	84	72 - 131	13	30
3 & 4 Methylphenol	<0.41		1.65	1.87		mg/Kg	☼	113	57 - 120	13	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorophenol	139		31 - 166
Phenol-d5	124		30 - 153
Nitrobenzene-d5 (Surr)	93		37 - 147
2-Fluorobiphenyl (Surr)	97		43 - 145
2,4,6-Tribromophenol	114		31 - 143
Terphenyl-d14 (Surr)	124		42 - 157

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-685153/1-A

Matrix: Solid

Analysis Batch: 685514

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 685153

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		11/15/22 17:16	11/16/22 15:35	1
Arsenic	<1.0		1.0	0.34	mg/Kg		11/15/22 17:16	11/16/22 15:35	1
Barium	<1.0		1.0	0.11	mg/Kg		11/15/22 17:16	11/16/22 15:35	1
Beryllium	<0.40		0.40	0.093	mg/Kg		11/15/22 17:16	11/16/22 15:35	1
Boron	<5.0		5.0	0.47	mg/Kg		11/15/22 17:16	11/16/22 15:35	1
Cadmium	<0.20		0.20	0.036	mg/Kg		11/15/22 17:16	11/16/22 15:35	1
Calcium	5.02	J	20	3.4	mg/Kg		11/15/22 17:16	11/16/22 15:35	1
Chromium	<1.0		1.0	0.50	mg/Kg		11/15/22 17:16	11/16/22 15:35	1
Cobalt	<0.50		0.50	0.13	mg/Kg		11/15/22 17:16	11/16/22 15:35	1
Copper	<1.0		1.0	0.28	mg/Kg		11/15/22 17:16	11/16/22 15:35	1
Iron	15.2	J	20	10	mg/Kg		11/15/22 17:16	11/16/22 15:35	1
Lead	<0.50		0.50	0.23	mg/Kg		11/15/22 17:16	11/16/22 15:35	1
Magnesium	<10		10	5.0	mg/Kg		11/15/22 17:16	11/16/22 15:35	1
Manganese	0.390	J	1.0	0.15	mg/Kg		11/15/22 17:16	11/16/22 15:35	1
Nickel	<1.0		1.0	0.29	mg/Kg		11/15/22 17:16	11/16/22 15:35	1
Potassium	<50		50	18	mg/Kg		11/15/22 17:16	11/16/22 15:35	1
Selenium	<1.0		1.0	0.59	mg/Kg		11/15/22 17:16	11/16/22 15:35	1
Silver	<0.50		0.50	0.13	mg/Kg		11/15/22 17:16	11/16/22 15:35	1
Sodium	<100		100	15	mg/Kg		11/15/22 17:16	11/16/22 15:35	1
Thallium	<1.0		1.0	0.50	mg/Kg		11/15/22 17:16	11/16/22 15:35	1
Vanadium	<0.50		0.50	0.12	mg/Kg		11/15/22 17:16	11/16/22 15:35	1
Zinc	<2.0		2.0	0.88	mg/Kg		11/15/22 17:16	11/16/22 15:35	1

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-685153/2-A
Matrix: Solid
Analysis Batch: 685514

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685153

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	44.4		mg/Kg		89	80 - 120
Arsenic	10.0	8.80		mg/Kg		88	80 - 120
Barium	200	192		mg/Kg		96	80 - 120
Beryllium	5.00	4.58		mg/Kg		92	80 - 120
Boron	100	81.2		mg/Kg		81	80 - 120
Cadmium	5.00	4.46		mg/Kg		89	80 - 120
Calcium	1000	954		mg/Kg		95	80 - 120
Chromium	20.0	18.8		mg/Kg		94	80 - 120
Cobalt	50.0	48.1		mg/Kg		96	80 - 120
Copper	25.0	24.2		mg/Kg		97	80 - 120
Iron	100	101		mg/Kg		101	80 - 120
Lead	10.0	8.91		mg/Kg		89	80 - 120
Magnesium	1000	936		mg/Kg		94	80 - 120
Manganese	50.0	47.0		mg/Kg		94	80 - 120
Nickel	50.0	46.6		mg/Kg		93	80 - 120
Potassium	1000	975		mg/Kg		98	80 - 120
Selenium	10.0	8.42		mg/Kg		84	80 - 120
Silver	5.00	4.01		mg/Kg		80	80 - 120
Sodium	1000	982		mg/Kg		98	80 - 120
Thallium	10.0	8.60		mg/Kg		86	80 - 120
Vanadium	50.0	48.1		mg/Kg		96	80 - 120
Zinc	50.0	46.4		mg/Kg		93	80 - 120

Lab Sample ID: 500-225076-1 MS
Matrix: Solid
Analysis Batch: 685514

Client Sample ID: 1401V3-16-B04 (0-5)
Prep Type: Total/NA
Prep Batch: 685153

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.38	J F1	29.9	6.15	F1	mg/Kg	✱	19	75 - 125
Arsenic	9.1	F1	5.98	12.1	F1	mg/Kg	✱	50	75 - 125
Barium	74		120	186		mg/Kg	✱	93	75 - 125
Beryllium	0.90		2.99	3.44		mg/Kg	✱	85	75 - 125
Boron	7.1	F1	59.8	44.9	F1	mg/Kg	✱	63	75 - 125
Cadmium	0.32		2.99	2.62		mg/Kg	✱	77	75 - 125
Calcium	19000	B	598	16300	4	mg/Kg	✱	-431	75 - 125
Chromium	18		12.0	28.5		mg/Kg	✱	91	75 - 125
Cobalt	11		29.9	41.4		mg/Kg	✱	100	75 - 125
Copper	25	F1	14.9	34.7	F1	mg/Kg	✱	65	75 - 125
Iron	22000	B	59.8	19700	4	mg/Kg	✱	-4188	75 - 125
Lead	90	F2	5.98	141	4	mg/Kg	✱	846	75 - 125
Magnesium	11000		598	10400	4	mg/Kg	✱	-166	75 - 125
Manganese	400	B F2	29.9	336	4	mg/Kg	✱	-207	75 - 125
Nickel	26		29.9	50.6		mg/Kg	✱	82	75 - 125
Potassium	2100	F1	598	3330	F1	mg/Kg	✱	207	75 - 125
Selenium	0.41	J F1	5.98	4.60	F1	mg/Kg	✱	70	75 - 125
Silver	0.22	J	2.99	2.47		mg/Kg	✱	75	75 - 125
Sodium	370		598	934		mg/Kg	✱	94	75 - 125
Thallium	0.38	J	5.98	4.95		mg/Kg	✱	76	75 - 125
Vanadium	23		29.9	51.7		mg/Kg	✱	95	75 - 125

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-225076-1 MS
Matrix: Solid
Analysis Batch: 685514

Client Sample ID: 1401V3-16-B04 (0-5)
Prep Type: Total/NA
Prep Batch: 685153

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	95		29.9	129		mg/Kg	⊛	117	75 - 125

Lab Sample ID: 500-225076-1 MSD
Matrix: Solid
Analysis Batch: 685514

Client Sample ID: 1401V3-16-B04 (0-5)
Prep Type: Total/NA
Prep Batch: 685153

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.38	J F1	30.5	5.65	F1	mg/Kg	⊛	17	75 - 125	8	20
Arsenic	9.1	F1	6.11	14.2		mg/Kg	⊛	84	75 - 125	16	20
Barium	74		122	185		mg/Kg	⊛	91	75 - 125	0	20
Beryllium	0.90		3.05	3.56		mg/Kg	⊛	87	75 - 125	3	20
Boron	7.1	F1	61.1	47.0	F1	mg/Kg	⊛	65	75 - 125	5	20
Cadmium	0.32		3.05	2.68		mg/Kg	⊛	77	75 - 125	3	20
Calcium	19000	B	611	17400	4	mg/Kg	⊛	-244	75 - 125	6	20
Chromium	18		12.2	29.1		mg/Kg	⊛	94	75 - 125	2	20
Cobalt	11		30.5	41.5		mg/Kg	⊛	99	75 - 125	0	20
Copper	25	F1	15.3	37.3		mg/Kg	⊛	81	75 - 125	7	20
Iron	22000	B	61.1	24000	4	mg/Kg	⊛	2940	75 - 125	20	20
Lead	90	F2	6.11	78.1	4 F2	mg/Kg	⊛	-199	75 - 125	57	20
Magnesium	11000		611	11600	4	mg/Kg	⊛	40	75 - 125	11	20
Manganese	400	B F2	30.5	461	4 F2	mg/Kg	⊛	208	75 - 125	31	20
Nickel	26		30.5	54.3		mg/Kg	⊛	92	75 - 125	7	20
Potassium	2100	F1	611	3450	F1	mg/Kg	⊛	222	75 - 125	3	20
Selenium	0.41	J F1	6.11	4.49	F1	mg/Kg	⊛	67	75 - 125	2	20
Silver	0.22	J	3.05	2.57		mg/Kg	⊛	77	75 - 125	4	20
Sodium	370		611	911		mg/Kg	⊛	89	75 - 125	2	20
Thallium	0.38	J	6.11	5.01		mg/Kg	⊛	76	75 - 125	1	20
Vanadium	23		30.5	53.1		mg/Kg	⊛	97	75 - 125	3	20
Zinc	95		30.5	126		mg/Kg	⊛	104	75 - 125	2	20

Lab Sample ID: 500-225076-1 DU
Matrix: Solid
Analysis Batch: 685514

Client Sample ID: 1401V3-16-B04 (0-5)
Prep Type: Total/NA
Prep Batch: 685153

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	0.38	J F1	0.501	J F5	mg/Kg	⊛	28	20
Arsenic	9.1	F1	9.54		mg/Kg	⊛	4	20
Barium	74		64.6		mg/Kg	⊛	14	20
Beryllium	0.90		0.796		mg/Kg	⊛	12	20
Boron	7.1	F1	8.67		mg/Kg	⊛	19	20
Cadmium	0.32		0.348		mg/Kg	⊛	8	20
Calcium	19000	B	42200	E F3	mg/Kg	⊛	76	20
Chromium	18		14.6		mg/Kg	⊛	19	20
Cobalt	11		11.7		mg/Kg	⊛	3	20
Copper	25	F1	21.6		mg/Kg	⊛	15	20
Iron	22000	B	20000		mg/Kg	⊛	10	20
Lead	90	F2	68.2	F3	mg/Kg	⊛	28	20
Magnesium	11000		25300	F3	mg/Kg	⊛	76	20
Manganese	400	B F2	508	F3	mg/Kg	⊛	24	20

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-225076-1 DU
Matrix: Solid
Analysis Batch: 685514

Client Sample ID: 1401V3-16-B04 (0-5)
Prep Type: Total/NA
Prep Batch: 685153

Analyte	Sample	Sample	DU		Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Nickel	26		24.3		mg/Kg	☼	8	20	
Potassium	2100	F1	1970		mg/Kg	☼	6	20	
Selenium	0.41	J F1	0.514	J F5	mg/Kg	☼	22	20	
Silver	0.22	J	0.212	J	mg/Kg	☼	3	20	
Sodium	370		336		mg/Kg	☼	10	20	
Thallium	0.38	J	0.335	J	mg/Kg	☼	12	20	
Vanadium	23		21.5		mg/Kg	☼	9	20	
Zinc	95		83.3		mg/Kg	☼	13	20	

Lab Sample ID: MB 500-685155/1-A
Matrix: Solid
Analysis Batch: 685530

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685155

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		11/15/22 17:19	11/16/22 21:31	1
Arsenic	<1.0		1.0	0.34	mg/Kg		11/15/22 17:19	11/16/22 21:31	1
Barium	0.114	J	1.0	0.11	mg/Kg		11/15/22 17:19	11/16/22 21:31	1
Beryllium	<0.40		0.40	0.093	mg/Kg		11/15/22 17:19	11/16/22 21:31	1
Boron	<5.0		5.0	0.47	mg/Kg		11/15/22 17:19	11/16/22 21:31	1
Cadmium	<0.20		0.20	0.036	mg/Kg		11/15/22 17:19	11/16/22 21:31	1
Calcium	6.83	J	20	3.4	mg/Kg		11/15/22 17:19	11/16/22 21:31	1
Chromium	<1.0		1.0	0.50	mg/Kg		11/15/22 17:19	11/16/22 21:31	1
Cobalt	<0.50		0.50	0.13	mg/Kg		11/15/22 17:19	11/16/22 21:31	1
Copper	<1.0		1.0	0.28	mg/Kg		11/15/22 17:19	11/16/22 21:31	1
Lead	<0.50		0.50	0.23	mg/Kg		11/15/22 17:19	11/16/22 21:31	1
Magnesium	<10		10	5.0	mg/Kg		11/15/22 17:19	11/16/22 21:31	1
Manganese	0.636	J	1.0	0.15	mg/Kg		11/15/22 17:19	11/16/22 21:31	1
Nickel	<1.0		1.0	0.29	mg/Kg		11/15/22 17:19	11/16/22 21:31	1
Potassium	<50		50	18	mg/Kg		11/15/22 17:19	11/16/22 21:31	1
Selenium	<1.0		1.0	0.59	mg/Kg		11/15/22 17:19	11/16/22 21:31	1
Silver	<0.50		0.50	0.13	mg/Kg		11/15/22 17:19	11/16/22 21:31	1
Sodium	<100		100	15	mg/Kg		11/15/22 17:19	11/16/22 21:31	1
Thallium	<1.0		1.0	0.50	mg/Kg		11/15/22 17:19	11/16/22 21:31	1
Vanadium	<0.50		0.50	0.12	mg/Kg		11/15/22 17:19	11/16/22 21:31	1
Zinc	<2.0		2.0	0.88	mg/Kg		11/15/22 17:19	11/16/22 21:31	1

Lab Sample ID: LCS 500-685155/2-A
Matrix: Solid
Analysis Batch: 685530

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685155

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Antimony	50.0	44.6		mg/Kg		89	80 - 120
Arsenic	10.0	9.00		mg/Kg		90	80 - 120
Barium	200	195		mg/Kg		98	80 - 120
Beryllium	5.00	4.62		mg/Kg		92	80 - 120
Boron	100	84.3		mg/Kg		84	80 - 120
Cadmium	5.00	4.57		mg/Kg		91	80 - 120
Calcium	1000	972		mg/Kg		97	80 - 120
Chromium	20.0	19.3		mg/Kg		97	80 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-685155/2-A
Matrix: Solid
Analysis Batch: 685530

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685155

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	50.0	48.9		mg/Kg		98	80 - 120
Copper	25.0	24.8		mg/Kg		99	80 - 120
Lead	10.0	9.32		mg/Kg		93	80 - 120
Magnesium	1000	941		mg/Kg		94	80 - 120
Manganese	50.0	48.6		mg/Kg		97	80 - 120
Nickel	50.0	47.1		mg/Kg		94	80 - 120
Potassium	1000	959		mg/Kg		96	80 - 120
Selenium	10.0	8.55		mg/Kg		86	80 - 120
Silver	5.00	4.24		mg/Kg		85	80 - 120
Sodium	1000	989		mg/Kg		99	80 - 120
Thallium	10.0	8.89		mg/Kg		89	80 - 120
Vanadium	50.0	48.9		mg/Kg		98	80 - 120
Zinc	50.0	47.5		mg/Kg		95	80 - 120

Lab Sample ID: 500-225076-2 MS
Matrix: Solid
Analysis Batch: 685530

Client Sample ID: 1401V3-16-B04 (5-9)
Prep Type: Total/NA
Prep Batch: 685155

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.58	J F1	30.5	7.25	F1	mg/Kg	✱	22	75 - 125
Arsenic	8.9	F1	6.10	17.9	F1	mg/Kg	✱	146	75 - 125
Barium	97	B	122	193		mg/Kg	✱	79	75 - 125
Beryllium	0.92		3.05	3.28		mg/Kg	✱	77	75 - 125
Boron	3.3	F1	61.0	35.8	F1	mg/Kg	✱	53	75 - 125
Cadmium	0.21	F1	3.05	2.43	F1	mg/Kg	✱	73	75 - 125
Calcium	2400	B F1	610	3140		mg/Kg	✱	121	75 - 125
Chromium	18		12.2	31.2		mg/Kg	✱	105	75 - 125
Cobalt	10		30.5	40.8		mg/Kg	✱	100	75 - 125
Copper	17		15.3	29.0		mg/Kg	✱	80	75 - 125
Lead	15	F1	6.10	23.6	F1	mg/Kg	✱	137	75 - 125
Magnesium	3400		610	4410	4	mg/Kg	✱	165	75 - 125
Manganese	350	B	30.5	351	4	mg/Kg	✱	16	75 - 125
Nickel	22		30.5	52.5		mg/Kg	✱	100	75 - 125
Potassium	1100	F1	610	2240	F1	mg/Kg	✱	184	75 - 125
Selenium	<0.63	F1	6.10	3.64	F1	mg/Kg	✱	60	75 - 125
Silver	0.40	F1	3.05	2.65	F1	mg/Kg	✱	73	75 - 125
Sodium	1100	F1	610	1630		mg/Kg	✱	84	75 - 125
Thallium	0.38	J F1	6.10	4.84	F1	mg/Kg	✱	73	75 - 125
Vanadium	26		30.5	56.4		mg/Kg	✱	98	75 - 125
Zinc	74		30.5	108		mg/Kg	✱	112	75 - 125

Lab Sample ID: 500-225076-2 MSD
Matrix: Solid
Analysis Batch: 685530

Client Sample ID: 1401V3-16-B04 (5-9)
Prep Type: Total/NA
Prep Batch: 685155

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.58	J F1	31.2	6.91	F1	mg/Kg	✱	20	75 - 125	5	20
Arsenic	8.9	F1	6.25	17.5	F1	mg/Kg	✱	138	75 - 125	2	20
Barium	97	B	125	192		mg/Kg	✱	76	75 - 125	1	20

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-225076-2 MSD
Matrix: Solid
Analysis Batch: 685530

Client Sample ID: 1401V3-16-B04 (5-9)
Prep Type: Total/NA
Prep Batch: 685155

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
Beryllium	0.92		3.12	3.34		mg/Kg	☼	77	75 - 125	2	20	
Boron	3.3	F1	62.5	37.8	F1	mg/Kg	☼	55	75 - 125	6	20	
Cadmium	0.21	F1	3.12	2.43	F1	mg/Kg	☼	71	75 - 125	0	20	
Calcium	2400	B F1	625	2810	F1	mg/Kg	☼	66	75 - 125	11	20	
Chromium	18		12.5	32.1		mg/Kg	☼	110	75 - 125	3	20	
Cobalt	10		31.2	41.0		mg/Kg	☼	99	75 - 125	0	20	
Copper	17		15.6	28.9		mg/Kg	☼	78	75 - 125	0	20	
Lead	15	F1	6.25	21.3		mg/Kg	☼	98	75 - 125	10	20	
Magnesium	3400		625	4220	4	mg/Kg	☼	132	75 - 125	4	20	
Manganese	350	B	31.2	361	4	mg/Kg	☼	46	75 - 125	3	20	
Nickel	22		31.2	53.2		mg/Kg	☼	100	75 - 125	1	20	
Potassium	1100	F1	625	2290	F1	mg/Kg	☼	188	75 - 125	2	20	
Selenium	<0.63	F1	6.25	3.45	F1	mg/Kg	☼	55	75 - 125	5	20	
Silver	0.40	F1	3.12	2.65	F1	mg/Kg	☼	72	75 - 125	0	20	
Sodium	1100	F1	625	1550	F1	mg/Kg	☼	69	75 - 125	5	20	
Thallium	0.38	J F1	6.25	5.25		mg/Kg	☼	78	75 - 125	8	20	
Vanadium	26		31.2	58.7		mg/Kg	☼	104	75 - 125	4	20	
Zinc	74		31.2	110		mg/Kg	☼	114	75 - 125	1	20	

Lab Sample ID: 500-225076-2 DU
Matrix: Solid
Analysis Batch: 685530

Client Sample ID: 1401V3-16-B04 (5-9)
Prep Type: Total/NA
Prep Batch: 685155

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	0.58	J F1	0.423	J F5	mg/Kg	☼	31	20
Arsenic	8.9	F1	9.16		mg/Kg	☼	2	20
Barium	97	B	98.8		mg/Kg	☼	2	20
Beryllium	0.92		0.866		mg/Kg	☼	6	20
Boron	3.3	F1	3.93		mg/Kg	☼	18	20
Cadmium	0.21	F1	0.198		mg/Kg	☼	8	20
Calcium	2400	B F1	3660	F3	mg/Kg	☼	42	20
Chromium	18		20.3		mg/Kg	☼	10	20
Cobalt	10		10.0		mg/Kg	☼	2	20
Copper	17		14.3		mg/Kg	☼	15	20
Lead	15	F1	13.5		mg/Kg	☼	12	20
Magnesium	3400		4210	F3	mg/Kg	☼	21	20
Manganese	350	B	318		mg/Kg	☼	9	20
Nickel	22		22.8		mg/Kg	☼	3	20
Potassium	1100	F1	1350		mg/Kg	☼	19	20
Selenium	<0.63	F1	<0.61		mg/Kg	☼	NC	20
Silver	0.40	F1	0.465		mg/Kg	☼	14	20
Sodium	1100	F1	1130		mg/Kg	☼	0.6	20
Thallium	0.38	J F1	<0.61		mg/Kg	☼	NC	20
Vanadium	26		27.0		mg/Kg	☼	2	20
Zinc	74		76.9		mg/Kg	☼	4	20

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 500-685156/1-A
Matrix: Solid
Analysis Batch: 685530

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685156

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		11/15/22 17:21	11/16/22 20:33	1
Arsenic	<1.0		1.0	0.34	mg/Kg		11/15/22 17:21	11/16/22 20:33	1
Barium	0.145	J	1.0	0.11	mg/Kg		11/15/22 17:21	11/16/22 20:33	1
Beryllium	<0.40		0.40	0.093	mg/Kg		11/15/22 17:21	11/16/22 20:33	1
Boron	<5.0		5.0	0.47	mg/Kg		11/15/22 17:21	11/16/22 20:33	1
Cadmium	<0.20		0.20	0.036	mg/Kg		11/15/22 17:21	11/16/22 20:33	1
Calcium	8.03	J	20	3.4	mg/Kg		11/15/22 17:21	11/16/22 20:33	1
Chromium	<1.0		1.0	0.50	mg/Kg		11/15/22 17:21	11/16/22 20:33	1
Cobalt	<0.50		0.50	0.13	mg/Kg		11/15/22 17:21	11/16/22 20:33	1
Copper	0.290	J	1.0	0.28	mg/Kg		11/15/22 17:21	11/16/22 20:33	1
Lead	<0.50		0.50	0.23	mg/Kg		11/15/22 17:21	11/16/22 20:33	1
Magnesium	<10		10	5.0	mg/Kg		11/15/22 17:21	11/16/22 20:33	1
Manganese	0.738	J	1.0	0.15	mg/Kg		11/15/22 17:21	11/16/22 20:33	1
Nickel	<1.0		1.0	0.29	mg/Kg		11/15/22 17:21	11/16/22 20:33	1
Potassium	<50		50	18	mg/Kg		11/15/22 17:21	11/16/22 20:33	1
Selenium	<1.0		1.0	0.59	mg/Kg		11/15/22 17:21	11/16/22 20:33	1
Silver	<0.50		0.50	0.13	mg/Kg		11/15/22 17:21	11/16/22 20:33	1
Sodium	<100		100	15	mg/Kg		11/15/22 17:21	11/16/22 20:33	1
Thallium	<1.0		1.0	0.50	mg/Kg		11/15/22 17:21	11/16/22 20:33	1
Vanadium	<0.50		0.50	0.12	mg/Kg		11/15/22 17:21	11/16/22 20:33	1
Zinc	<2.0		2.0	0.88	mg/Kg		11/15/22 17:21	11/16/22 20:33	1

Lab Sample ID: MB 500-685156/1-A
Matrix: Solid
Analysis Batch: 685624

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685156

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Iron	23.1		20	10	mg/Kg		11/15/22 17:21	11/17/22 13:27	1

Lab Sample ID: LCS 500-685156/2-A
Matrix: Solid
Analysis Batch: 685530

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685156

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Antimony	50.0	43.8		mg/Kg		88	80 - 120	
Arsenic	10.0	9.25		mg/Kg		93	80 - 120	
Barium	200	193		mg/Kg		97	80 - 120	
Beryllium	5.00	4.41		mg/Kg		88	80 - 120	
Boron	100	84.0		mg/Kg		84	80 - 120	
Cadmium	5.00	4.55		mg/Kg		91	80 - 120	
Calcium	1000	940		mg/Kg		94	80 - 120	
Chromium	20.0	19.8		mg/Kg		99	80 - 120	
Cobalt	50.0	48.6		mg/Kg		97	80 - 120	
Copper	25.0	24.1		mg/Kg		97	80 - 120	
Lead	10.0	8.95		mg/Kg		89	80 - 120	
Magnesium	1000	924		mg/Kg		92	80 - 120	
Manganese	50.0	47.5		mg/Kg		95	80 - 120	
Nickel	50.0	46.9		mg/Kg		94	80 - 120	
Potassium	1000	951		mg/Kg		95	80 - 120	

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-685156/2-A
Matrix: Solid
Analysis Batch: 685530

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685156

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	10.0	8.49		mg/Kg		85	80 - 120
Silver	5.00	4.34		mg/Kg		87	80 - 120
Sodium	1000	976		mg/Kg		98	80 - 120
Thallium	10.0	8.83		mg/Kg		88	80 - 120
Vanadium	50.0	48.4		mg/Kg		97	80 - 120
Zinc	50.0	47.3		mg/Kg		95	80 - 120

Lab Sample ID: LCS 500-685156/2-A
Matrix: Solid
Analysis Batch: 685624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685156

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	100	114		mg/Kg		114	80 - 120

Lab Sample ID: 500-225076-3 MS
Matrix: Solid
Analysis Batch: 685530

Client Sample ID: 1401V3-16-B05 (0-6)
Prep Type: Total/NA
Prep Batch: 685156

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.68	J F1	27.6	5.43	F1	mg/Kg	⊛	17	75 - 125
Arsenic	11		5.53	17.1		mg/Kg	⊛	108	75 - 125
Barium	49	B	111	142		mg/Kg	⊛	84	75 - 125
Beryllium	0.79		2.76	3.11		mg/Kg	⊛	84	75 - 125
Boron	6.1	F1	55.3	39.9	F1	mg/Kg	⊛	61	75 - 125
Cadmium	0.24		2.76	2.37		mg/Kg	⊛	77	75 - 125
Calcium	20000	B	553	13200	4	mg/Kg	⊛	-1313	75 - 125
Chromium	15		11.1	25.6		mg/Kg	⊛	93	75 - 125
Cobalt	15		27.6	40.3		mg/Kg	⊛	93	75 - 125
Copper	29	B F1	13.8	39.2	F1	mg/Kg	⊛	73	75 - 125
Lead	20	F1	5.53	30.5	F1	mg/Kg	⊛	187	75 - 125
Magnesium	13000		553	9810	4	mg/Kg	⊛	-613	75 - 125
Manganese	550	B	27.6	509	4	mg/Kg	⊛	-134	75 - 125
Nickel	32		27.6	57.7		mg/Kg	⊛	94	75 - 125
Potassium	1700	F1	553	2820	F1	mg/Kg	⊛	202	75 - 125
Selenium	<0.56	F1	5.53	3.36	F1	mg/Kg	⊛	61	75 - 125
Silver	0.27	J	2.76	2.37		mg/Kg	⊛	76	75 - 125
Sodium	250		553	713		mg/Kg	⊛	84	75 - 125
Thallium	<0.56		5.53	4.37		mg/Kg	⊛	79	75 - 125
Vanadium	18		27.6	44.0		mg/Kg	⊛	94	75 - 125
Zinc	81	F1	27.6	116	F1	mg/Kg	⊛	126	75 - 125

Lab Sample ID: 500-225076-3 MS
Matrix: Solid
Analysis Batch: 685624

Client Sample ID: 1401V3-16-B05 (0-6)
Prep Type: Total/NA
Prep Batch: 685156

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	23000	B	55.3	26000	4	mg/Kg	⊛	6083	75 - 125

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-225076-3 MSD
Matrix: Solid
Analysis Batch: 685530

Client Sample ID: 1401V3-16-B05 (0-6)
Prep Type: Total/NA
Prep Batch: 685156

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Antimony	0.68	J F1	27.1	5.07	F1	mg/Kg	⊛	16	75 - 125	7	20
Arsenic	11		5.42	15.2		mg/Kg	⊛	75	75 - 125	12	20
Barium	49	B	108	140		mg/Kg	⊛	84	75 - 125	1	20
Beryllium	0.79		2.71	3.04		mg/Kg	⊛	83	75 - 125	2	20
Boron	6.1	F1	54.2	39.8	F1	mg/Kg	⊛	62	75 - 125	0	20
Cadmium	0.24		2.71	2.35		mg/Kg	⊛	78	75 - 125	1	20
Calcium	20000	B	542	15000	4	mg/Kg	⊛	-1017	75 - 125	12	20
Chromium	15		10.8	24.8		mg/Kg	⊛	87	75 - 125	4	20
Cobalt	15		27.1	40.1		mg/Kg	⊛	94	75 - 125	0	20
Copper	29	B F1	13.5	37.2	F1	mg/Kg	⊛	59	75 - 125	5	20
Lead	20	F1	5.42	29.0	F1	mg/Kg	⊛	164	75 - 125	5	20
Magnesium	13000		542	10400	4	mg/Kg	⊛	-525	75 - 125	5	20
Manganese	550	B	27.1	573	4	mg/Kg	⊛	99	75 - 125	12	20
Nickel	32		27.1	55.5		mg/Kg	⊛	88	75 - 125	4	20
Potassium	1700	F1	542	2820	F1	mg/Kg	⊛	207	75 - 125	0	20
Selenium	<0.56	F1	5.42	3.55	F1	mg/Kg	⊛	65	75 - 125	5	20
Silver	0.27	J	2.71	2.33		mg/Kg	⊛	76	75 - 125	2	20
Sodium	250		542	701		mg/Kg	⊛	83	75 - 125	2	20
Thallium	<0.56		5.42	4.61		mg/Kg	⊛	85	75 - 125	5	20
Vanadium	18		27.1	42.2		mg/Kg	⊛	90	75 - 125	4	20
Zinc	81	F1	27.1	112		mg/Kg	⊛	113	75 - 125	4	20

Lab Sample ID: 500-225076-3 MSD
Matrix: Solid
Analysis Batch: 685624

Client Sample ID: 1401V3-16-B05 (0-6)
Prep Type: Total/NA
Prep Batch: 685156

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Iron	23000	B	54.2	22200	4	mg/Kg	⊛	-836	75 - 125	16	20

Lab Sample ID: 500-225076-3 DU
Matrix: Solid
Analysis Batch: 685530

Client Sample ID: 1401V3-16-B05 (0-6)
Prep Type: Total/NA
Prep Batch: 685156

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Antimony	0.68	J F1	0.679	J	mg/Kg	⊛	0.2	20
Arsenic	11		13.3		mg/Kg	⊛	18	20
Barium	49	B	59.0		mg/Kg	⊛	18	20
Beryllium	0.79		0.821		mg/Kg	⊛	4	20
Boron	6.1	F1	5.74		mg/Kg	⊛	6	20
Cadmium	0.24		0.238		mg/Kg	⊛	2	20
Calcium	20000	B	10300	F3	mg/Kg	⊛	66	20
Chromium	15		16.2		mg/Kg	⊛	5	20
Cobalt	15		14.6		mg/Kg	⊛	0.5	20
Copper	29	B F1	28.6		mg/Kg	⊛	2	20
Lead	20	F1	21.4		mg/Kg	⊛	6	20
Magnesium	13000		7930	F3	mg/Kg	⊛	50	20
Manganese	550	B	725	F3	mg/Kg	⊛	28	20
Nickel	32		31.7		mg/Kg	⊛	0.09	20
Potassium	1700	F1	1790		mg/Kg	⊛	5	20

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-225076-3 DU
Matrix: Solid
Analysis Batch: 685530

Client Sample ID: 1401V3-16-B05 (0-6)
Prep Type: Total/NA
Prep Batch: 685156

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Selenium	<0.56	F1	<0.57		mg/Kg	✱	NC	20
Silver	0.27	J	0.266	J	mg/Kg	✱	2	20
Sodium	250		261		mg/Kg	✱	4	20
Thallium	<0.56		<0.57		mg/Kg	✱	NC	20
Vanadium	18		20.4		mg/Kg	✱	13	20
Zinc	81	F1	84.3		mg/Kg	✱	4	20

Lab Sample ID: 500-225076-3 DU
Matrix: Solid
Analysis Batch: 685624

Client Sample ID: 1401V3-16-B05 (0-6)
Prep Type: Total/NA
Prep Batch: 685156

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	23000	B	24800		mg/Kg	✱	9	20

Lab Sample ID: LCS 500-685167/2-A
Matrix: Solid
Analysis Batch: 685532

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685167

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.496	J	mg/L		99	80 - 120
Beryllium	0.0500	0.0463		mg/L		93	80 - 120
Boron	1.00	0.932		mg/L		93	80 - 120
Cadmium	0.0500	0.0505		mg/L		101	80 - 120
Chromium	0.200	0.182		mg/L		91	80 - 120
Cobalt	0.500	0.485		mg/L		97	80 - 120
Iron	1.00	0.884		mg/L		88	80 - 120
Lead	0.100	0.0905		mg/L		90	80 - 120
Manganese	0.500	0.454		mg/L		91	80 - 120
Nickel	0.500	0.470		mg/L		94	80 - 120
Selenium	0.100	0.102		mg/L		102	80 - 120
Silver	0.0500	0.0514		mg/L		103	80 - 120
Zinc	0.500	0.476	J	mg/L		95	80 - 120

Lab Sample ID: LCS 500-685169/2-A
Matrix: Solid
Analysis Batch: 685803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685169

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.500	0.490		mg/L		98	80 - 120

Lab Sample ID: MB 500-685701/1-A
Matrix: Solid
Analysis Batch: 686365

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685701

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<20		20	10	mg/Kg		11/17/22 17:44	11/21/22 11:08	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-685701/2-A
Matrix: Solid
Analysis Batch: 686365

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685701

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	100	92.5		mg/Kg		93	80 - 120

Lab Sample ID: LB 500-684867/1-B
Matrix: Solid
Analysis Batch: 685532

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685167

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 21:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/22 19:01	11/16/22 21:28	1
Boron	<0.50		0.50	0.050	mg/L		11/15/22 19:01	11/16/22 21:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/22 19:01	11/16/22 21:28	1
Chromium	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:28	1
Cobalt	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:28	1
Iron	<0.40		0.40	0.20	mg/L		11/15/22 19:01	11/16/22 21:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/15/22 19:01	11/16/22 21:28	1
Manganese	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:28	1
Nickel	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:28	1
Selenium	<0.050		0.050	0.020	mg/L		11/15/22 19:01	11/16/22 21:28	1
Silver	<0.025		0.025	0.010	mg/L		11/15/22 19:01	11/16/22 21:28	1
Zinc	<0.50		0.50	0.020	mg/L		11/15/22 19:01	11/16/22 21:28	1

Lab Sample ID: 500-225076-3 MS
Matrix: Solid
Analysis Batch: 685532

Client Sample ID: 1401V3-16-B05 (0-6)
Prep Type: TCLP
Prep Batch: 685167

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.58		0.500	1.09		mg/L		101	75 - 125
Beryllium	<0.0040		0.0500	0.0485		mg/L		97	75 - 125
Boron	0.68		1.00	1.67		mg/L		99	75 - 125
Cadmium	<0.0050		0.0500	0.0539		mg/L		108	75 - 125
Chromium	<0.025		0.200	0.182		mg/L		91	75 - 125
Cobalt	<0.025		0.500	0.498		mg/L		100	75 - 125
Iron	0.36	J	1.00	1.35		mg/L		99	75 - 125
Lead	<0.0075		0.100	0.0993		mg/L		99	75 - 125
Manganese	0.34		0.500	0.804		mg/L		93	75 - 125
Nickel	<0.025		0.500	0.484		mg/L		97	75 - 125
Selenium	<0.050		0.100	0.109		mg/L		109	75 - 125
Silver	<0.025		0.0500	0.0535		mg/L		107	75 - 125
Zinc	0.039	J	0.500	0.506		mg/L		93	75 - 125

Lab Sample ID: 500-225076-3 DU
Matrix: Solid
Analysis Batch: 685532

Client Sample ID: 1401V3-16-B05 (0-6)
Prep Type: TCLP
Prep Batch: 685167

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Barium	0.58		0.574		mg/L		1	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	0.68		0.679		mg/L		0.6	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-225076-3 DU
Matrix: Solid
Analysis Batch: 685532

Client Sample ID: 1401V3-16-B05 (0-6)
Prep Type: TCLP
Prep Batch: 685167

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	<0.025		<0.025		mg/L		NC	20
Iron	0.36	J	0.292	J F5	mg/L		22	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	0.34		0.339		mg/L		0.7	20
Nickel	<0.025		<0.025		mg/L		NC	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	0.039	J	0.0390	J	mg/L		1	20

Lab Sample ID: LB 500-684882/1-B
Matrix: Solid
Analysis Batch: 685803

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 685169

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Manganese	<0.025		0.025	0.010	mg/L		11/15/22 19:05	11/17/22 18:30	1

Lab Sample ID: 500-225076-1 MS
Matrix: Solid
Analysis Batch: 685803

Client Sample ID: 1401V3-16-B04 (0-5)
Prep Type: SPLP East
Prep Batch: 685169

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec	Limits
	Result	Qualifier		Result	Qualifier					
Manganese	0.013	J	0.500	0.491		mg/L		96	75 - 125	

Lab Sample ID: 500-225076-1 DU
Matrix: Solid
Analysis Batch: 685803

Client Sample ID: 1401V3-16-B04 (0-5)
Prep Type: SPLP East
Prep Batch: 685169

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Manganese	0.013	J	0.0119	J	mg/L		5	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-685167/2-A
Matrix: Solid
Analysis Batch: 685882

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685167

Analyte	Spike	LCS		Unit	D	%Rec	%Rec	Limits
		Added	Result					
Antimony	0.500	0.509		mg/L		102	80 - 120	
Thallium	0.100	0.103		mg/L		103	80 - 120	

Lab Sample ID: LB 500-684867/1-B
Matrix: Solid
Analysis Batch: 685882

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685167

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		11/15/22 19:01	11/17/22 19:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/15/22 19:01	11/17/22 19:57	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-225076-3 MS
Matrix: Solid
Analysis Batch: 685882

Client Sample ID: 1401V3-16-B05 (0-6)
Prep Type: TCLP
Prep Batch: 685167

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0060		0.500	0.491		mg/L		98	75 - 125
Thallium	<0.0020		0.100	0.104		mg/L		104	75 - 125

Lab Sample ID: 500-225076-3 DU
Matrix: Solid
Analysis Batch: 685882

Client Sample ID: 1401V3-16-B05 (0-6)
Prep Type: TCLP
Prep Batch: 685167

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-685346/12-A
Matrix: Solid
Analysis Batch: 685588

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685346

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/16/22 11:50	11/17/22 10:26	1

Lab Sample ID: LCS 500-685346/14-A
Matrix: Solid
Analysis Batch: 685588

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685346

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00198	0.00178		mg/L		90	80 - 120

Lab Sample ID: LB 500-684867/1-C
Matrix: Solid
Analysis Batch: 685588

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685346

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/16/22 11:50	11/17/22 10:28	1

Lab Sample ID: 500-225076-3 MS
Matrix: Solid
Analysis Batch: 685588

Client Sample ID: 1401V3-16-B05 (0-6)
Prep Type: TCLP
Prep Batch: 685346

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000945		mg/L		95	75 - 125

Lab Sample ID: 500-225076-3 DU
Matrix: Solid
Analysis Batch: 685588

Client Sample ID: 1401V3-16-B05 (0-6)
Prep Type: TCLP
Prep Batch: 685346

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-685367/12-A
Matrix: Solid
Analysis Batch: 685535

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685367

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		11/16/22 16:15	11/17/22 07:00	1

Lab Sample ID: LCS 500-685367/13-A
Matrix: Solid
Analysis Batch: 685535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685367

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.165		mg/Kg		100	80 - 120



Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Client Sample ID: 1401V3-16-B04 (0-5)

Lab Sample ID: 500-225076-1

Date Collected: 11/08/22 10:45

Matrix: Solid

Date Received: 11/09/22 17:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			684882	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
SPLP East	Prep	3010A			685169	LMB	EET CHI	11/15/22 19:05 - 11/15/22 19:35 ¹
SPLP East	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 18:36
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6010B		1	685532	JJB	EET CHI	11/16/22 21:35
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6020A		1	685882	FXG	EET CHI	11/17/22 20:04
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	7470A			685346	MJG	EET CHI	11/16/22 11:50 - 11/16/22 13:50 ¹
TCLP	Analysis	7470A		1	685588	MJG	EET CHI	11/17/22 10:32
Total/NA	Analysis	9045D		1	684430	EH	EET CHI	11/11/22 08:22 - 11/11/22 08:22 ¹
Total/NA	Analysis	Moisture		1	684356	LWN	EET CHI	11/10/22 17:52

Client Sample ID: 1401V3-16-B04 (0-5)

Lab Sample ID: 500-225076-1

Date Collected: 11/08/22 10:45

Matrix: Solid

Date Received: 11/09/22 17:09

Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684629	WRE	EET CHI	11/09/22 18:36
Total/NA	Analysis	8260B		1	684607	W1T	EET CHI	11/12/22 13:26
Total/NA	Prep	3541			685446	KN	EET CHI	11/17/22 07:24 - 11/17/22 15:30 ¹
Total/NA	Analysis	8270D		2	688441	SS	EET CHI	12/06/22 13:05
Total/NA	Prep	3050B			685153	LMB	EET CHI	11/15/22 17:16 - 11/15/22 17:46 ¹
Total/NA	Analysis	6010B		1	685514	JJB	EET CHI	11/16/22 15:41
Total/NA	Prep	7471B			685367	MJG	EET CHI	11/16/22 16:15
Total/NA	Analysis	7471B		1	685535	MJG	EET CHI	11/17/22 07:50

Client Sample ID: 1401V3-16-B04 (5-9)

Lab Sample ID: 500-225076-2

Date Collected: 11/08/22 10:48

Matrix: Solid

Date Received: 11/09/22 17:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6010B		1	685532	JJB	EET CHI	11/16/22 21:38
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6020A		1	685882	FXG	EET CHI	11/17/22 20:07
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	7470A			685346	MJG	EET CHI	11/16/22 11:50 - 11/16/22 13:50 ¹
TCLP	Analysis	7470A		1	685588	MJG	EET CHI	11/17/22 10:38
Total/NA	Analysis	9045D		1	684430	EH	EET CHI	11/11/22 08:22 - 11/11/22 08:22 ¹
Total/NA	Analysis	Moisture		1	684356	LWN	EET CHI	11/10/22 17:52

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Client Sample ID: 1401V3-16-B04 (5-9)

Lab Sample ID: 500-225076-2

Date Collected: 11/08/22 10:48

Matrix: Solid

Date Received: 11/09/22 17:09

Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684629	WRE	EET CHI	11/09/22 18:36
Total/NA	Analysis	8260B		1	684607	W1T	EET CHI	11/12/22 13:51
Total/NA	Prep	3541			685446	KN	EET CHI	11/17/22 07:24 - 11/17/22 15:30 ¹
Total/NA	Analysis	8270D		1	688192	SS	EET CHI	12/06/22 02:45
Total/NA	Prep	3050B			685155	LMB	EET CHI	11/15/22 17:19 - 11/15/22 17:49 ¹
Total/NA	Analysis	6010B		1	685530	JJB	EET CHI	11/16/22 21:48
Total/NA	Prep	3050B			685701	LMB	EET CHI	11/17/22 17:44 - 11/17/22 18:14 ¹
Total/NA	Analysis	6010B		1	686365	JJB	EET CHI	11/21/22 12:58
Total/NA	Prep	7471B			685367	MJG	EET CHI	11/16/22 16:15
Total/NA	Analysis	7471B		1	685535	MJG	EET CHI	11/17/22 07:53

Client Sample ID: 1401V3-16-B05 (0-6)

Lab Sample ID: 500-225076-3

Date Collected: 11/08/22 11:00

Matrix: Solid

Date Received: 11/09/22 17:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			684882	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
SPLP East	Prep	3010A			685169	LMB	EET CHI	11/15/22 19:05 - 11/15/22 19:35 ¹
SPLP East	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 18:49
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6010B		1	685532	JJB	EET CHI	11/16/22 21:41
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	3010A			685167	LMB	EET CHI	11/15/22 19:01 - 11/15/22 19:31 ¹
TCLP	Analysis	6020A		1	685882	FXG	EET CHI	11/17/22 20:11
TCLP	Leach	1311			684867	EA	EET CHI	11/14/22 12:07 - 11/15/22 06:07 ¹
TCLP	Prep	7470A			685346	MJG	EET CHI	11/16/22 11:50 - 11/16/22 13:50 ¹
TCLP	Analysis	7470A		1	685588	MJG	EET CHI	11/17/22 10:41
Total/NA	Analysis	9045D		1	684430	EH	EET CHI	11/11/22 08:22 - 11/11/22 08:22 ¹
Total/NA	Analysis	Moisture		1	684356	LWN	EET CHI	11/10/22 17:52

Client Sample ID: 1401V3-16-B05 (0-6)

Lab Sample ID: 500-225076-3

Date Collected: 11/08/22 11:00

Matrix: Solid

Date Received: 11/09/22 17:09

Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684629	WRE	EET CHI	11/09/22 18:36
Total/NA	Analysis	8260B		1	684607	W1T	EET CHI	11/12/22 14:15
Total/NA	Prep	3541			685446	KN	EET CHI	11/17/22 07:24 - 11/17/22 15:30 ¹
Total/NA	Analysis	8270D		1	686118	SS	EET CHI	11/20/22 22:08
Total/NA	Prep	3050B			685156	LMB	EET CHI	11/15/22 17:21 - 11/15/22 17:51 ¹
Total/NA	Analysis	6010B		1	685530	JJB	EET CHI	11/16/22 20:40
Total/NA	Prep	3050B			685156	LMB	EET CHI	11/15/22 17:21 - 11/15/22 17:51 ¹
Total/NA	Analysis	6010B		1	685624	JJB	EET CHI	11/17/22 13:34

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Client Sample ID: 1401V3-16-B05 (0-6)

Lab Sample ID: 500-225076-3

Date Collected: 11/08/22 11:00

Matrix: Solid

Date Received: 11/09/22 17:09

Percent Solids: 87.7

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Prep	7471B			685367	MJG	EET CHI	11/16/22 16:15
Total/NA	Analysis	7471B		1	685535	MJG	EET CHI	11/17/22 07:55

[†] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225076-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Chain of Custody Record

522917



Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact

Company Name WSP

Address 30 N. LaSalle

City/State/Zip Chicago, IL 500-225076 CCC

Phone _____

Fax DOT

Project Name W03 Butterfield Ed

Site IN 31403035.015

P O # _____



Project Manager D. Tiebout Site Contact A. Hoppel Date 11/08/2022 COC No _____

Tel/Email _____ Lab Contact R. Wright Carrier _____ of 4 COCs

Analysis Turnaround Time

CALENDAR DAYS WORKING DAYS

TAT if different from Below _____

2 weeks

1 week

2 days

1 day

Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Other
VOC15		
SVE15		
Total Metals		
TCLP*		
PH		
4 Solids		

For Lab Use Only

Walk-in Client _____

Lab Sampling _____

Job / SDG No 500-225076

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.
<u>1401V3-16-B04 (0-5)</u>	<u>11/8/22</u>	<u>10:45</u>	<u>C</u>	<u>S</u>	<u>2</u>
<u>1401V3-16-B04 (5-9)</u>	<u>11/8/22</u>	<u>10:48</u>	<u>C</u>	<u>S</u>	<u>2</u>
<u>1401V3-16-B05 (0-6)</u>	<u>11/8/22</u>	<u>11:00</u>	<u>C</u>	<u>S</u>	<u>2</u>

X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X

Sample Specific Notes

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other _____

Possible Hazard Identification

Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return to Client Disposal by Lab Archive for _____ Months

Special Instructions/QC Requirements & Comments: * SPLP dependent on TCLP results 3.3 -> 35, 4.8 -> 50

Custody Seals Intact Yes No Custody Seal No _____ Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____

Relinquished by <u>Carla Cooper</u>	Company <u>WSP</u>	Date/Time <u>11/8/22 1542</u>	Received by <u>A. J. Elias</u>	Company <u>EETA</u>	Date/Time <u>11/8/22 1542</u>
Relinquished by <u>A. J. Elias</u>	Company <u>EETA</u>	Date/Time <u>11/8/22 1742</u>	Received by _____	Company _____	Date/Time _____
Relinquished by _____	Company _____	Date/Time _____	Received by Laboratory by <u>Alan Smith</u>	Company <u>BBTA</u>	Date/Time <u>11/9/22 0740</u>

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225076-1

Login Number: 225076

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5,5.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

PREPARED FOR

Attn: Dean Tiebot
WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602
Generated 12/13/2022 3:37:18 PM

JOB DESCRIPTION

IDOT - 196-002-WO 13 IL 56

JOB NUMBER

500-225247-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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12/13/2022 3:37:18 PM

Authorized for release by
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Richard.Wright@et.eurofinsus.com
(708)746-0045

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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Job ID: 500-225247-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225247-1

Receipt

The samples were received on 11/10/2022 5:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.8° C, 4.5° C and 5.7° C.

GC/MS VOA

Methods 8260B, 8260D: Methylene chloride was detected in the following items: 1401V3-16-B02 (0-7) (500-225247-1), 1401V3-16-B03 (0-5) (500-225247-2), 1401V3-16-B03 (5-9) (500-225247-3), 1401V3-16-B03 (5-9)D (500-225247-4), 1401V3-16-B01 (0-7) (500-225247-5), 1401V3-16-B01 (7-14) (500-225247-6) and (MB 500-685183/8). Methylene chloride is a known lab contaminant; therefore all low level detects for this compound could be suspected as lab contamination.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-686896 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-686896 was outside the method criteria for the following analyte(s): Di-n-octyl phthalate and Phenol-d5. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The laboratory control sample (LCS) for preparation batch 500-686132 and analytical batch 500-686896 recovered outside control limits for the following analytes: 2,6-Dinitrotoluene, 2-Chlorophenol and Bis(2-chloroethyl)ether. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270D: Perylene-d12 Internal standard (ISTD) response for the following samples was outside of acceptance limits: 1401V3-16-B02 (0-7) (500-225247-1), 1401V3-16-B03 (0-5) (500-225247-2), 1401V3-16-B03 (5-9) (500-225247-3), 1401V3-16-B03 (5-9)D (500-225247-4) and 1401V3-16-B01 (0-7) (500-225247-5). Analytes associated to this internal standard were non-detect and/or below the reporting limit; therefore, re-analysis was not performed.

Method 8270D: Perylene-d12 Internal standard (ISTD) response for the following sample and associated MS/MSD was outside of acceptance limits. No further corrective action was required as the matrix effect was confirmed on the parent sample from the subsequent MS/MSD analysis. 1401V3-16-B01 (7-14) (500-225247-6), (500-225247-E-6-H MS) and (500-225247-E-6-I MSD).

Method 8270D: The following samples contained one acid surrogate outside acceptance limits: (MB 500-686132/1-A). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method 8270D: The following samples contained one base surrogate outside acceptance limits: 1401V3-16-B01 (0-7) (500-225247-5), 1401V3-16-B01 (7-14) (500-225247-6) and (500-225247-E-6-I MSD). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 500-686132 and analytical batch 500-686896 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Job ID: 500-225247-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

General Chemistry

Method 9045D: Reanalysis of the following samples were performed outside of the analytical holding time to confirm results from the first analysis: 1401V3-16-B03 (0-5) (500-225247-2) and 1401V3-16-B03 (5-9) (500-225247-3).

Method 9045D: The CCV(pH4standard) following these samples was outside control limits. The samples were reanalyzed outside hold time and confirmed the original analysis. 1401V3-16-B03 (0-5) (500-225247-2) and 1401V3-16-B03 (5-9) (500-225247-3)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B02 (0-7)

Lab Sample ID: 500-225247-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0030	J B	0.0051	0.0020	mg/Kg	1	✳	8260B	Total/NA
Pyrene	0.0084	J	0.038	0.0076	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.27	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	10		0.56	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	64		0.56	0.064	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.78		0.22	0.052	mg/Kg	1	✳	6010B	Total/NA
Boron	4.3	B	2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.26	B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	9400		11	1.9	mg/Kg	1	✳	6010B	Total/NA
Chromium	15		0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	14		0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Copper	25		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	22000		11	5.8	mg/Kg	1	✳	6010B	Total/NA
Lead	21		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	6800		5.6	2.8	mg/Kg	1	✳	6010B	Total/NA
Manganese	520		0.56	0.081	mg/Kg	1	✳	6010B	Total/NA
Nickel	30		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	1400		28	9.9	mg/Kg	1	✳	6010B	Total/NA
Silver	0.30		0.28	0.072	mg/Kg	1	✳	6010B	Total/NA
Sodium	63		56	8.3	mg/Kg	1	✳	6010B	Total/NA
Vanadium	21		0.28	0.066	mg/Kg	1	✳	6010B	Total/NA
Zinc	74		1.1	0.49	mg/Kg	1	✳	6010B	Total/NA
Barium	0.54		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.060	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.43		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.62		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.038		0.018	0.0059	mg/Kg	1	✳	7471B	Total/NA
pH	7.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-16-B03 (0-5)

Lab Sample ID: 500-225247-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0049	J B	0.0064	0.0025	mg/Kg	1	✳	8260B	Total/NA
Antimony	0.23	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	7.6		0.60	0.21	mg/Kg	1	✳	6010B	Total/NA
Barium	92		0.60	0.069	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.68		0.24	0.056	mg/Kg	1	✳	6010B	Total/NA
Boron	4.2	B	3.0	0.28	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.19	B	0.12	0.022	mg/Kg	1	✳	6010B	Total/NA
Calcium	34000		12	2.0	mg/Kg	1	✳	6010B	Total/NA
Chromium	13		0.60	0.30	mg/Kg	1	✳	6010B	Total/NA
Cobalt	10		0.30	0.079	mg/Kg	1	✳	6010B	Total/NA
Copper	16		0.60	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	17000		12	6.3	mg/Kg	1	✳	6010B	Total/NA
Lead	51		0.30	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	20000		6.0	3.0	mg/Kg	1	✳	6010B	Total/NA
Manganese	620		0.60	0.087	mg/Kg	1	✳	6010B	Total/NA
Nickel	18		0.60	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	1400		30	11	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.43	J	0.60	0.35	mg/Kg	1	✳	6010B	Total/NA
Silver	0.31		0.30	0.078	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B03 (0-5) (Continued)

Lab Sample ID: 500-225247-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	170		60	8.9	mg/Kg	1	✳	6010B	Total/NA
Vanadium	21		0.30	0.071	mg/Kg	1	✳	6010B	Total/NA
Zinc	68		1.2	0.53	mg/Kg	1	✳	6010B	Total/NA
Barium	0.41	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.078	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.022	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.046		0.020	0.0066	mg/Kg	1	✳	7471B	Total/NA
pH	7.6	^+	0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-16-B03 (5-9)

Lab Sample ID: 500-225247-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0034	J B	0.0053	0.0021	mg/Kg	1	✳	8260B	Total/NA
Antimony	0.23	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	8.9		0.59	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	110		0.59	0.068	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.92		0.24	0.055	mg/Kg	1	✳	6010B	Total/NA
Boron	3.1	B	3.0	0.28	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.16	B	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	1700		12	2.0	mg/Kg	1	✳	6010B	Total/NA
Chromium	20		0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	12		0.30	0.078	mg/Kg	1	✳	6010B	Total/NA
Copper	17		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	25000		12	6.2	mg/Kg	1	✳	6010B	Total/NA
Lead	17		0.30	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	3500		5.9	2.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	320		0.59	0.086	mg/Kg	1	✳	6010B	Total/NA
Nickel	22		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	1200		30	10	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.50	J	0.59	0.35	mg/Kg	1	✳	6010B	Total/NA
Silver	0.37		0.30	0.076	mg/Kg	1	✳	6010B	Total/NA
Sodium	140		59	8.8	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.39	J	0.59	0.30	mg/Kg	1	✳	6010B	Total/NA
Vanadium	28		0.30	0.070	mg/Kg	1	✳	6010B	Total/NA
Zinc	77		1.2	0.52	mg/Kg	1	✳	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.054	J	0.50	0.050	mg/L	1		6010B	TCLP
Mercury	0.037		0.019	0.0064	mg/Kg	1	✳	7471B	Total/NA
pH	6.9	^+	0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-16-B03 (5-9)D

Lab Sample ID: 500-225247-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0033	J B	0.0050	0.0020	mg/Kg	1	✳	8260B	Total/NA
Antimony	0.23	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	8.4		0.58	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	120		0.58	0.066	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.88		0.23	0.054	mg/Kg	1	✳	6010B	Total/NA
Boron	2.8	J B	2.9	0.27	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.15	B	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	1800		12	2.0	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B03 (5-9)D (Continued)

Lab Sample ID: 500-225247-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	18		0.58	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	12		0.29	0.076	mg/Kg	1	✳	6010B	Total/NA
Copper	16		0.58	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	23000		12	6.0	mg/Kg	1	✳	6010B	Total/NA
Lead	16		0.29	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	3500		5.8	2.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	290		0.58	0.084	mg/Kg	1	✳	6010B	Total/NA
Nickel	22		0.58	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	1200		29	10	mg/Kg	1	✳	6010B	Total/NA
Silver	0.37		0.29	0.075	mg/Kg	1	✳	6010B	Total/NA
Sodium	130		58	8.6	mg/Kg	1	✳	6010B	Total/NA
Vanadium	25		0.29	0.068	mg/Kg	1	✳	6010B	Total/NA
Zinc	79		1.2	0.51	mg/Kg	1	✳	6010B	Total/NA
Barium	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.021	J	0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.051		0.019	0.0062	mg/Kg	1	✳	7471B	Total/NA
pH	6.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-16-B01 (0-7)

Lab Sample ID: 500-225247-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0042	J B	0.0049	0.0019	mg/Kg	1	✳	8260B	Total/NA
Phenanthrene	0.0089	J	0.040	0.0056	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.019	J	0.040	0.0075	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.025	J	0.040	0.0080	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.012	J	0.040	0.0054	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.016	J	0.040	0.011	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.38	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	10		0.59	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	59		0.59	0.067	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.79		0.24	0.055	mg/Kg	1	✳	6010B	Total/NA
Boron	5.8	B	2.9	0.27	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.22	B	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	31000		12	2.0	mg/Kg	1	✳	6010B	Total/NA
Chromium	14		0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	12		0.29	0.077	mg/Kg	1	✳	6010B	Total/NA
Copper	25		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	20000		12	6.1	mg/Kg	1	✳	6010B	Total/NA
Lead	31		0.29	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	17000		5.9	2.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	530		0.59	0.086	mg/Kg	1	✳	6010B	Total/NA
Nickel	27		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	1600		29	10	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.42	J	0.59	0.35	mg/Kg	1	✳	6010B	Total/NA
Silver	0.26	J	0.29	0.076	mg/Kg	1	✳	6010B	Total/NA
Sodium	380		59	8.7	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.41	J	0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Vanadium	21		0.29	0.070	mg/Kg	1	✳	6010B	Total/NA
Zinc	81		1.2	0.52	mg/Kg	1	✳	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B01 (0-7) (Continued)

Lab Sample ID: 500-225247-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.068	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.54		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.94		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.038		0.019	0.0064	mg/Kg	1	⊛	7471B	Total/NA
pH	7.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-16-B01 (7-14)

Lab Sample ID: 500-225247-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0032	J B	0.0045	0.0018	mg/Kg	1	⊛	8260B	Total/NA
Antimony	0.46	J	1.1	0.22	mg/Kg	1	⊛	6010B	Total/NA
Arsenic	9.3		0.56	0.19	mg/Kg	1	⊛	6010B	Total/NA
Barium	27		0.56	0.064	mg/Kg	1	⊛	6010B	Total/NA
Beryllium	0.70		0.22	0.052	mg/Kg	1	⊛	6010B	Total/NA
Boron	9.5	B	2.8	0.26	mg/Kg	1	⊛	6010B	Total/NA
Cadmium	0.21	B	0.11	0.020	mg/Kg	1	⊛	6010B	Total/NA
Calcium	50000		56	9.5	mg/Kg	5	⊛	6010B	Total/NA
Chromium	14		0.56	0.28	mg/Kg	1	⊛	6010B	Total/NA
Cobalt	12		0.28	0.073	mg/Kg	1	⊛	6010B	Total/NA
Copper	26		0.56	0.16	mg/Kg	1	⊛	6010B	Total/NA
Iron	21000		11	5.8	mg/Kg	1	⊛	6010B	Total/NA
Lead	15		0.28	0.13	mg/Kg	1	⊛	6010B	Total/NA
Magnesium	24000		5.6	2.8	mg/Kg	1	⊛	6010B	Total/NA
Manganese	430		0.56	0.081	mg/Kg	1	⊛	6010B	Total/NA
Nickel	30		0.56	0.16	mg/Kg	1	⊛	6010B	Total/NA
Potassium	2200		28	9.9	mg/Kg	1	⊛	6010B	Total/NA
Silver	0.30		0.28	0.072	mg/Kg	1	⊛	6010B	Total/NA
Sodium	570		56	8.3	mg/Kg	1	⊛	6010B	Total/NA
Thallium	0.28	J	0.56	0.28	mg/Kg	1	⊛	6010B	Total/NA
Vanadium	16		0.28	0.066	mg/Kg	1	⊛	6010B	Total/NA
Zinc	68		1.1	0.49	mg/Kg	1	⊛	6010B	Total/NA
Barium	0.31	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.050	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	0.67		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.84		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.023		0.019	0.0063	mg/Kg	1	⊛	7471B	Total/NA
pH	8.7		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010B	Metals (ICP)	SW846	EET CHI
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225247-1	1401V3-16-B02 (0-7)	Solid	11/10/22 15:15	11/10/22 17:50
500-225247-2	1401V3-16-B03 (0-5)	Solid	11/10/22 15:30	11/10/22 17:50
500-225247-3	1401V3-16-B03 (5-9)	Solid	11/10/22 15:35	11/10/22 17:50
500-225247-4	1401V3-16-B03 (5-9)D	Solid	11/10/22 15:40	11/10/22 17:50
500-225247-5	1401V3-16-B01 (0-7)	Solid	11/10/22 15:55	11/10/22 17:50
500-225247-6	1401V3-16-B01 (7-14)	Solid	11/10/22 16:00	11/10/22 17:50

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B02 (0-7)

Lab Sample ID: 500-225247-1

Date Collected: 11/10/22 15:15

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.4

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0088	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
Benzene	<0.0020		0.0020	0.00052	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
Bromoform	<0.0020		0.0020	0.00059	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
2-Butanone (MEK)	<0.0051		0.0051	0.0022	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
Carbon disulfide	<0.0051		0.0051	0.0011	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
Carbon tetrachloride	<0.0020		0.0020	0.00059	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
Chlorobenzene	<0.0020		0.0020	0.00075	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
Chloroethane	<0.0051		0.0051	0.0015	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
Chloroform	<0.0020		0.0020	0.00070	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
Chloromethane	<0.0051		0.0051	0.0020	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00057	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00061	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
Dibromochloromethane	<0.0020		0.0020	0.00066	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
1,1-Dichloroethene	<0.0020		0.0020	0.00070	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00071	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
Ethylbenzene	<0.0020		0.0020	0.00097	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
Methylene Chloride	0.0030	J B	0.0051	0.0020	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0015	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
Styrene	<0.0020		0.0020	0.00061	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00065	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
Tetrachloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00090	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00071	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00087	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
Vinyl acetate	<0.0051		0.0051	0.0018	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
Vinyl chloride	<0.0020		0.0020	0.00090	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1
Xylenes, Total	<0.0040		0.0040	0.00065	mg/Kg	☼	11/11/22 10:37	11/16/22 11:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		75 - 131	11/11/22 10:37	11/16/22 11:59	1
Dibromofluoromethane	86		75 - 126	11/11/22 10:37	11/16/22 11:59	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	11/11/22 10:37	11/16/22 11:59	1
Toluene-d8 (Surr)	88		75 - 124	11/11/22 10:37	11/16/22 11:59	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Bis(2-chloroethyl)ether	<0.19	*+	0.19	0.057	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B02 (0-7)

Lab Sample ID: 500-225247-1

Date Collected: 11/10/22 15:15

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
2-Chlorophenol	<0.19	+	0.19	0.065	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
2,6-Dinitrotoluene	<0.19	+	0.19	0.075	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Pyrene	0.0084	J	0.038	0.0076	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B02 (0-7)

Lab Sample ID: 500-225247-1

Date Collected: 11/10/22 15:15

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Benzo[b]fluoranthene	<0.038	*3	0.038	0.0082	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Benzo[k]fluoranthene	<0.038	*3	0.038	0.011	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Benzo[a]pyrene	<0.038	*3	0.038	0.0074	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Indeno[1,2,3-cd]pyrene	<0.038	*3	0.038	0.0099	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Dibenz(a,h)anthracene	<0.038	*3	0.038	0.0074	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
Benzo[g,h,i]perylene	<0.038	*3	0.038	0.012	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	11/20/22 10:56	11/26/22 13:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	124		31 - 166	11/20/22 10:56	11/26/22 13:13	1
Phenol-d5	110		30 - 153	11/20/22 10:56	11/26/22 13:13	1
Nitrobenzene-d5 (Surr)	81		37 - 147	11/20/22 10:56	11/26/22 13:13	1
2-Fluorobiphenyl (Surr)	89		43 - 145	11/20/22 10:56	11/26/22 13:13	1
2,4,6-Tribromophenol	80		31 - 143	11/20/22 10:56	11/26/22 13:13	1
Terphenyl-d14 (Surr)	128		42 - 157	11/20/22 10:56	11/26/22 13:13	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.27	J	1.1	0.22	mg/Kg	☼	11/17/22 17:44	11/21/22 12:40	1
Arsenic	10		0.56	0.19	mg/Kg	☼	11/17/22 17:44	11/21/22 12:40	1
Barium	64		0.56	0.064	mg/Kg	☼	11/17/22 17:44	11/21/22 12:40	1
Beryllium	0.78		0.22	0.052	mg/Kg	☼	11/17/22 17:44	11/21/22 12:40	1
Boron	4.3	B	2.8	0.26	mg/Kg	☼	11/17/22 17:44	11/21/22 12:40	1
Cadmium	0.26	B	0.11	0.020	mg/Kg	☼	11/17/22 17:44	11/21/22 12:40	1
Calcium	9400		11	1.9	mg/Kg	☼	11/17/22 17:44	11/21/22 12:40	1
Chromium	15		0.56	0.28	mg/Kg	☼	11/17/22 17:44	11/21/22 12:40	1
Cobalt	14		0.28	0.073	mg/Kg	☼	11/17/22 17:44	11/21/22 12:40	1
Copper	25		0.56	0.16	mg/Kg	☼	11/17/22 17:44	11/21/22 12:40	1
Iron	22000		11	5.8	mg/Kg	☼	11/17/22 17:44	11/21/22 12:40	1
Lead	21		0.28	0.13	mg/Kg	☼	11/17/22 17:44	11/21/22 12:40	1
Magnesium	6800		5.6	2.8	mg/Kg	☼	11/17/22 17:44	11/21/22 12:40	1
Manganese	520		0.56	0.081	mg/Kg	☼	11/17/22 17:44	11/21/22 12:40	1
Nickel	30		0.56	0.16	mg/Kg	☼	11/17/22 17:44	11/21/22 12:40	1
Potassium	1400		28	9.9	mg/Kg	☼	11/17/22 17:44	11/21/22 12:40	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	11/17/22 17:44	11/21/22 12:40	1
Silver	0.30		0.28	0.072	mg/Kg	☼	11/17/22 17:44	11/21/22 12:40	1
Sodium	63		56	8.3	mg/Kg	☼	11/17/22 17:44	11/21/22 12:40	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	11/17/22 17:44	11/21/22 12:40	1
Vanadium	21		0.28	0.066	mg/Kg	☼	11/17/22 17:44	11/21/22 12:40	1
Zinc	74		1.1	0.49	mg/Kg	☼	11/17/22 17:44	11/21/22 12:40	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.54		0.50	0.050	mg/L		11/17/22 19:49	11/18/22 15:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/17/22 19:49	11/18/22 15:55	1
Boron	0.060	J	0.50	0.050	mg/L		11/17/22 19:49	11/18/22 15:55	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B02 (0-7)

Lab Sample ID: 500-225247-1

Date Collected: 11/10/22 15:15

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.4

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/17/22 19:49	11/18/22 15:55	1
Chromium	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 15:55	1
Cobalt	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 15:55	1
Iron	<0.40		0.40	0.20	mg/L		11/17/22 19:49	11/18/22 15:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 19:49	11/18/22 15:55	1
Manganese	0.43		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 15:55	1
Nickel	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 15:55	1
Selenium	<0.050		0.050	0.020	mg/L		11/17/22 19:49	11/18/22 15:55	1
Silver	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 15:55	1
Zinc	<0.50		0.50	0.020	mg/L		11/17/22 19:49	11/18/22 15:55	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.62		0.025	0.010	mg/L		11/17/22 20:01	11/21/22 18:06	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/17/22 19:49	11/18/22 23:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/17/22 19:49	11/18/22 23:11	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/17/22 12:30	11/18/22 11:38	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.018	0.0059	mg/Kg	☆	11/17/22 15:25	11/18/22 07:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.4		0.2	0.2	SU			11/17/22 16:21	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B03 (0-5)

Lab Sample ID: 500-225247-2

Date Collected: 11/10/22 15:30

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 81.1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.025		0.025	0.011	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
Benzene	<0.0025		0.0025	0.00065	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
Bromodichloromethane	<0.0025		0.0025	0.00052	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
Bromoform	<0.0025		0.0025	0.00074	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
Bromomethane	<0.0064		0.0064	0.0024	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
2-Butanone (MEK)	<0.0064		0.0064	0.0028	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
Carbon disulfide	<0.0064		0.0064	0.0013	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
Carbon tetrachloride	<0.0025		0.0025	0.00074	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
Chlorobenzene	<0.0025		0.0025	0.00094	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
Chloroethane	<0.0064		0.0064	0.0019	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
Chloroform	<0.0025		0.0025	0.00088	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
Chloromethane	<0.0064		0.0064	0.0026	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
cis-1,2-Dichloroethene	<0.0025		0.0025	0.00071	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
cis-1,3-Dichloropropene	<0.0025		0.0025	0.00077	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
Dibromochloromethane	<0.0025		0.0025	0.00083	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
1,1-Dichloroethane	<0.0025		0.0025	0.00087	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
1,2-Dichloroethane	<0.0064		0.0064	0.0020	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
1,1-Dichloroethene	<0.0025		0.0025	0.00087	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
1,2-Dichloropropane	<0.0025		0.0025	0.00066	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
1,3-Dichloropropane, Total	<0.0025		0.0025	0.00089	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
Ethylbenzene	<0.0025		0.0025	0.0012	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
2-Hexanone	<0.0064		0.0064	0.0020	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
Methylene Chloride	0.0049	J B	0.0064	0.0025	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
4-Methyl-2-pentanone (MIBK)	<0.0064		0.0064	0.0019	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
Methyl tert-butyl ether	<0.0025		0.0025	0.00075	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
Styrene	<0.0025		0.0025	0.00077	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
1,1,2,2-Tetrachloroethane	<0.0025		0.0025	0.00081	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
Tetrachloroethene	<0.0025		0.0025	0.00087	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
Toluene	<0.0025		0.0025	0.00064	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
trans-1,2-Dichloroethene	<0.0025		0.0025	0.0011	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
trans-1,3-Dichloropropene	<0.0025		0.0025	0.00089	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
1,1,1-Trichloroethane	<0.0025		0.0025	0.00085	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
1,1,2-Trichloroethane	<0.0025		0.0025	0.0011	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
Trichloroethene	<0.0025		0.0025	0.00086	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
Vinyl acetate	<0.0064		0.0064	0.0022	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
Vinyl chloride	<0.0025		0.0025	0.0011	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1
Xylenes, Total	<0.0051		0.0051	0.00081	mg/Kg	☼	11/11/22 10:37	11/16/22 12:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		75 - 131	11/11/22 10:37	11/16/22 12:25	1
Dibromofluoromethane	89		75 - 126	11/11/22 10:37	11/16/22 12:25	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	11/11/22 10:37	11/16/22 12:25	1
Toluene-d8 (Surr)	88		75 - 124	11/11/22 10:37	11/16/22 12:25	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.091	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Bis(2-chloroethyl)ether	<0.21	*+	0.21	0.061	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B03 (0-5)

Lab Sample ID: 500-225247-2

Date Collected: 11/10/22 15:30

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 81.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
2-Chlorophenol	<0.21	+	0.21	0.070	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
2-Methylnaphthalene	<0.083		0.083	0.0075	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
2,6-Dinitrotoluene	<0.21	+	0.21	0.081	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Phenanthrene	<0.041		0.041	0.0057	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Anthracene	<0.041		0.041	0.0068	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Pyrene	<0.041		0.041	0.0081	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B03 (0-5)

Lab Sample ID: 500-225247-2

Date Collected: 11/10/22 15:30

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 81.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Benzo[b]fluoranthene	<0.041	*3	0.041	0.0088	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Benzo[k]fluoranthene	<0.041	*3	0.041	0.012	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Benzo[a]pyrene	<0.041	*3	0.041	0.0079	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Indeno[1,2,3-cd]pyrene	<0.041	*3	0.041	0.011	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Dibenz(a,h)anthracene	<0.041	*3	0.041	0.0079	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
Benzo[g,h,i]perylene	<0.041	*3	0.041	0.013	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	11/20/22 10:56	11/26/22 13:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	132		31 - 166	11/20/22 10:56	11/26/22 13:36	1
Phenol-d5	101		30 - 153	11/20/22 10:56	11/26/22 13:36	1
Nitrobenzene-d5 (Surr)	90		37 - 147	11/20/22 10:56	11/26/22 13:36	1
2-Fluorobiphenyl (Surr)	94		43 - 145	11/20/22 10:56	11/26/22 13:36	1
2,4,6-Tribromophenol	106		31 - 143	11/20/22 10:56	11/26/22 13:36	1
Terphenyl-d14 (Surr)	139		42 - 157	11/20/22 10:56	11/26/22 13:36	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.23	J	1.2	0.23	mg/Kg	☼	11/17/22 17:44	11/21/22 12:43	1
Arsenic	7.6		0.60	0.21	mg/Kg	☼	11/17/22 17:44	11/21/22 12:43	1
Barium	92		0.60	0.069	mg/Kg	☼	11/17/22 17:44	11/21/22 12:43	1
Beryllium	0.68		0.24	0.056	mg/Kg	☼	11/17/22 17:44	11/21/22 12:43	1
Boron	4.2	B	3.0	0.28	mg/Kg	☼	11/17/22 17:44	11/21/22 12:43	1
Cadmium	0.19	B	0.12	0.022	mg/Kg	☼	11/17/22 17:44	11/21/22 12:43	1
Calcium	34000		12	2.0	mg/Kg	☼	11/17/22 17:44	11/21/22 12:43	1
Chromium	13		0.60	0.30	mg/Kg	☼	11/17/22 17:44	11/21/22 12:43	1
Cobalt	10		0.30	0.079	mg/Kg	☼	11/17/22 17:44	11/21/22 12:43	1
Copper	16		0.60	0.17	mg/Kg	☼	11/17/22 17:44	11/21/22 12:43	1
Iron	17000		12	6.3	mg/Kg	☼	11/17/22 17:44	11/21/22 12:43	1
Lead	51		0.30	0.14	mg/Kg	☼	11/17/22 17:44	11/21/22 12:43	1
Magnesium	20000		6.0	3.0	mg/Kg	☼	11/17/22 17:44	11/21/22 12:43	1
Manganese	620		0.60	0.087	mg/Kg	☼	11/17/22 17:44	11/21/22 12:43	1
Nickel	18		0.60	0.17	mg/Kg	☼	11/17/22 17:44	11/21/22 12:43	1
Potassium	1400		30	11	mg/Kg	☼	11/17/22 17:44	11/21/22 12:43	1
Selenium	0.43	J	0.60	0.35	mg/Kg	☼	11/17/22 17:44	11/21/22 12:43	1
Silver	0.31		0.30	0.078	mg/Kg	☼	11/17/22 17:44	11/21/22 12:43	1
Sodium	170		60	8.9	mg/Kg	☼	11/17/22 17:44	11/21/22 12:43	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	11/17/22 17:44	11/21/22 12:43	1
Vanadium	21		0.30	0.071	mg/Kg	☼	11/17/22 17:44	11/21/22 12:43	1
Zinc	68		1.2	0.53	mg/Kg	☼	11/17/22 17:44	11/21/22 12:43	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.41	J	0.50	0.050	mg/L		11/17/22 19:49	11/18/22 15:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/17/22 19:49	11/18/22 15:58	1
Boron	0.078	J	0.50	0.050	mg/L		11/17/22 19:49	11/18/22 15:58	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B03 (0-5)

Lab Sample ID: 500-225247-2

Date Collected: 11/10/22 15:30

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 81.1

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/17/22 19:49	11/18/22 15:58	1
Chromium	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 15:58	1
Cobalt	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 15:58	1
Iron	<0.40		0.40	0.20	mg/L		11/17/22 19:49	11/18/22 15:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 19:49	11/18/22 15:58	1
Manganese	0.023	J	0.025	0.010	mg/L		11/17/22 19:49	11/18/22 15:58	1
Nickel	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 15:58	1
Selenium	<0.050		0.050	0.020	mg/L		11/17/22 19:49	11/18/22 15:58	1
Silver	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 15:58	1
Zinc	0.022	J	0.50	0.020	mg/L		11/17/22 19:49	11/18/22 15:58	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/17/22 19:49	11/18/22 23:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/17/22 19:49	11/18/22 23:15	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/17/22 12:30	11/18/22 11:41	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046		0.020	0.0066	mg/Kg	☼	11/17/22 15:25	11/18/22 07:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.6	^+	0.2	0.2	SU			11/16/22 22:04	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B03 (5-9)

Lab Sample ID: 500-225247-3

Date Collected: 11/10/22 15:35

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 82.8

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0092	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
Benzene	<0.0021		0.0021	0.00054	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
Bromodichloromethane	<0.0021		0.0021	0.00043	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
Bromoform	<0.0021		0.0021	0.00062	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
Bromomethane	<0.0053		0.0053	0.0020	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
2-Butanone (MEK)	<0.0053		0.0053	0.0023	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
Carbon disulfide	<0.0053		0.0053	0.0011	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
Carbon tetrachloride	<0.0021		0.0021	0.00061	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
Chlorobenzene	<0.0021		0.0021	0.00078	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
Chloroethane	<0.0053		0.0053	0.0016	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
Chloroform	<0.0021		0.0021	0.00073	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
Chloromethane	<0.0053		0.0053	0.0021	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00059	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00064	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
Dibromochloromethane	<0.0021		0.0021	0.00069	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
1,1-Dichloroethane	<0.0021		0.0021	0.00072	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
1,2-Dichloroethane	<0.0053		0.0053	0.0016	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
1,1-Dichloroethene	<0.0021		0.0021	0.00072	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
1,2-Dichloropropane	<0.0021		0.0021	0.00054	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
1,3-Dichloropropane, Total	<0.0021		0.0021	0.00074	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
2-Hexanone	<0.0053		0.0053	0.0016	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
Methylene Chloride	0.0034	J B	0.0053	0.0021	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0016	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00062	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
Styrene	<0.0021		0.0021	0.00064	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00067	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
Tetrachloroethene	<0.0021		0.0021	0.00072	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
Toluene	<0.0021		0.0021	0.00053	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00093	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00074	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00071	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00090	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
Trichloroethene	<0.0021		0.0021	0.00071	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
Vinyl acetate	<0.0053		0.0053	0.0018	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
Vinyl chloride	<0.0021		0.0021	0.00093	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1
Xylenes, Total	<0.0042		0.0042	0.00067	mg/Kg	✳	11/11/22 10:37	11/16/22 12:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 131	11/11/22 10:37	11/16/22 12:50	1
Dibromofluoromethane	90		75 - 126	11/11/22 10:37	11/16/22 12:50	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	11/11/22 10:37	11/16/22 12:50	1
Toluene-d8 (Surr)	88		75 - 124	11/11/22 10:37	11/16/22 12:50	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	✳	11/20/22 10:56	11/26/22 13:59	1
Bis(2-chloroethyl)ether	<0.20	*+	0.20	0.059	mg/Kg	✳	11/20/22 10:56	11/26/22 13:59	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	✳	11/20/22 10:56	11/26/22 13:59	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	✳	11/20/22 10:56	11/26/22 13:59	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B03 (5-9)

Lab Sample ID: 500-225247-3

Date Collected: 11/10/22 15:35

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 82.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
2-Chlorophenol	<0.20	+	0.20	0.067	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
2,6-Dinitrotoluene	<0.20	+	0.20	0.078	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B03 (5-9)

Lab Sample ID: 500-225247-3

Date Collected: 11/10/22 15:35

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 82.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Benzo[b]fluoranthene	<0.039	*3	0.039	0.0085	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Benzo[k]fluoranthene	<0.039	*3	0.039	0.012	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Benzo[a]pyrene	<0.039	*3	0.039	0.0077	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Indeno[1,2,3-cd]pyrene	<0.039	*3	0.039	0.010	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Dibenz(a,h)anthracene	<0.039	*3	0.039	0.0076	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Benzo[g,h,i]perylene	<0.039	*3	0.039	0.013	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	11/20/22 10:56	11/26/22 13:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	137		31 - 166				11/20/22 10:56	11/26/22 13:59	1
Phenol-d5	123		30 - 153				11/20/22 10:56	11/26/22 13:59	1
Nitrobenzene-d5 (Surr)	91		37 - 147				11/20/22 10:56	11/26/22 13:59	1
2-Fluorobiphenyl (Surr)	92		43 - 145				11/20/22 10:56	11/26/22 13:59	1
2,4,6-Tribromophenol	106		31 - 143				11/20/22 10:56	11/26/22 13:59	1
Terphenyl-d14 (Surr)	146		42 - 157				11/20/22 10:56	11/26/22 13:59	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.23	J	1.2	0.23	mg/Kg	☼	11/17/22 17:44	11/21/22 12:46	1
Arsenic	8.9		0.59	0.20	mg/Kg	☼	11/17/22 17:44	11/21/22 12:46	1
Barium	110		0.59	0.068	mg/Kg	☼	11/17/22 17:44	11/21/22 12:46	1
Beryllium	0.92		0.24	0.055	mg/Kg	☼	11/17/22 17:44	11/21/22 12:46	1
Boron	3.1	B	3.0	0.28	mg/Kg	☼	11/17/22 17:44	11/21/22 12:46	1
Cadmium	0.16	B	0.12	0.021	mg/Kg	☼	11/17/22 17:44	11/21/22 12:46	1
Calcium	1700		12	2.0	mg/Kg	☼	11/17/22 17:44	11/21/22 12:46	1
Chromium	20		0.59	0.29	mg/Kg	☼	11/17/22 17:44	11/21/22 12:46	1
Cobalt	12		0.30	0.078	mg/Kg	☼	11/17/22 17:44	11/21/22 12:46	1
Copper	17		0.59	0.17	mg/Kg	☼	11/17/22 17:44	11/21/22 12:46	1
Iron	25000		12	6.2	mg/Kg	☼	11/17/22 17:44	11/21/22 12:46	1
Lead	17		0.30	0.14	mg/Kg	☼	11/17/22 17:44	11/21/22 12:46	1
Magnesium	3500		5.9	2.9	mg/Kg	☼	11/17/22 17:44	11/21/22 12:46	1
Manganese	320		0.59	0.086	mg/Kg	☼	11/17/22 17:44	11/21/22 12:46	1
Nickel	22		0.59	0.17	mg/Kg	☼	11/17/22 17:44	11/21/22 12:46	1
Potassium	1200		30	10	mg/Kg	☼	11/17/22 17:44	11/21/22 12:46	1
Selenium	0.50	J	0.59	0.35	mg/Kg	☼	11/17/22 17:44	11/21/22 12:46	1
Silver	0.37		0.30	0.076	mg/Kg	☼	11/17/22 17:44	11/21/22 12:46	1
Sodium	140		59	8.8	mg/Kg	☼	11/17/22 17:44	11/21/22 12:46	1
Thallium	0.39	J	0.59	0.30	mg/Kg	☼	11/17/22 17:44	11/21/22 12:46	1
Vanadium	28		0.30	0.070	mg/Kg	☼	11/17/22 17:44	11/21/22 12:46	1
Zinc	77		1.2	0.52	mg/Kg	☼	11/17/22 17:44	11/21/22 12:46	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.47	J	0.50	0.050	mg/L		11/17/22 19:49	11/18/22 16:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/17/22 19:49	11/18/22 16:01	1
Boron	0.054	J	0.50	0.050	mg/L		11/17/22 19:49	11/18/22 16:01	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B03 (5-9)

Lab Sample ID: 500-225247-3

Date Collected: 11/10/22 15:35

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 82.8

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/17/22 19:49	11/18/22 16:01	1
Chromium	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 16:01	1
Cobalt	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 16:01	1
Iron	<0.40		0.40	0.20	mg/L		11/17/22 19:49	11/18/22 16:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 19:49	11/18/22 16:01	1
Manganese	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 16:01	1
Nickel	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 16:01	1
Selenium	<0.050		0.050	0.020	mg/L		11/17/22 19:49	11/18/22 16:01	1
Silver	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 16:01	1
Zinc	<0.50		0.50	0.020	mg/L		11/17/22 19:49	11/18/22 16:01	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/17/22 19:49	11/18/22 23:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/17/22 19:49	11/18/22 23:18	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/17/22 12:30	11/18/22 11:43	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.019	0.0064	mg/Kg	☼	11/17/22 15:25	11/18/22 07:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.9	^+	0.2	0.2	SU			11/16/22 22:06	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B03 (5-9)D

Lab Sample ID: 500-225247-4

Date Collected: 11/10/22 15:40

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 84.2

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0086	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
Benzene	<0.0020		0.0020	0.00050	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
Carbon tetrachloride	<0.0020		0.0020	0.00057	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
Chlorobenzene	<0.0020		0.0020	0.00073	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
1,2-Dichloroethane	<0.0050		0.0050	0.0015	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
1,1-Dichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
Ethylbenzene	<0.0020		0.0020	0.00095	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
Methylene Chloride	0.0033	J B	0.0050	0.0020	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00063	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
Tetrachloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00088	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00066	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00085	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
Trichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
Vinyl chloride	<0.0020		0.0020	0.00088	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1
Xylenes, Total	<0.0040		0.0040	0.00063	mg/Kg	☼	11/11/22 10:37	11/16/22 13:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		75 - 131	11/11/22 10:37	11/16/22 13:15	1
Dibromofluoromethane	87		75 - 126	11/11/22 10:37	11/16/22 13:15	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	11/11/22 10:37	11/16/22 13:15	1
Toluene-d8 (Surr)	90		75 - 124	11/11/22 10:37	11/16/22 13:15	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Bis(2-chloroethyl)ether	<0.20	*+	0.20	0.058	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B03 (5-9D)

Lab Sample ID: 500-225247-4

Date Collected: 11/10/22 15:40

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 84.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
2-Chlorophenol	<0.20	+	0.20	0.066	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
2,6-Dinitrotoluene	<0.20	+	0.20	0.076	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B03 (5-9D)

Lab Sample ID: 500-225247-4

Date Collected: 11/10/22 15:40

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 84.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Benzo[b]fluoranthene	<0.039	*3	0.039	0.0084	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Benzo[k]fluoranthene	<0.039	*3	0.039	0.011	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Benzo[a]pyrene	<0.039	*3	0.039	0.0075	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Indeno[1,2,3-cd]pyrene	<0.039	*3	0.039	0.010	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Dibenz(a,h)anthracene	<0.039	*3	0.039	0.0075	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
Benzo[g,h,i]perylene	<0.039	*3	0.039	0.013	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	11/20/22 10:56	11/26/22 14:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	110		31 - 166	11/20/22 10:56	11/26/22 14:22	1
Phenol-d5	96		30 - 153	11/20/22 10:56	11/26/22 14:22	1
Nitrobenzene-d5 (Surr)	75		37 - 147	11/20/22 10:56	11/26/22 14:22	1
2-Fluorobiphenyl (Surr)	78		43 - 145	11/20/22 10:56	11/26/22 14:22	1
2,4,6-Tribromophenol	83		31 - 143	11/20/22 10:56	11/26/22 14:22	1
Terphenyl-d14 (Surr)	132		42 - 157	11/20/22 10:56	11/26/22 14:22	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.23	J	1.2	0.23	mg/Kg	☼	11/17/22 17:44	11/21/22 12:49	1
Arsenic	8.4		0.58	0.20	mg/Kg	☼	11/17/22 17:44	11/21/22 12:49	1
Barium	120		0.58	0.066	mg/Kg	☼	11/17/22 17:44	11/21/22 12:49	1
Beryllium	0.88		0.23	0.054	mg/Kg	☼	11/17/22 17:44	11/21/22 12:49	1
Boron	2.8	J B	2.9	0.27	mg/Kg	☼	11/17/22 17:44	11/21/22 12:49	1
Cadmium	0.15	B	0.12	0.021	mg/Kg	☼	11/17/22 17:44	11/21/22 12:49	1
Calcium	1800		12	2.0	mg/Kg	☼	11/17/22 17:44	11/21/22 12:49	1
Chromium	18		0.58	0.29	mg/Kg	☼	11/17/22 17:44	11/21/22 12:49	1
Cobalt	12		0.29	0.076	mg/Kg	☼	11/17/22 17:44	11/21/22 12:49	1
Copper	16		0.58	0.16	mg/Kg	☼	11/17/22 17:44	11/21/22 12:49	1
Iron	23000		12	6.0	mg/Kg	☼	11/17/22 17:44	11/21/22 12:49	1
Lead	16		0.29	0.13	mg/Kg	☼	11/17/22 17:44	11/21/22 12:49	1
Magnesium	3500		5.8	2.9	mg/Kg	☼	11/17/22 17:44	11/21/22 12:49	1
Manganese	290		0.58	0.084	mg/Kg	☼	11/17/22 17:44	11/21/22 12:49	1
Nickel	22		0.58	0.17	mg/Kg	☼	11/17/22 17:44	11/21/22 12:49	1
Potassium	1200		29	10	mg/Kg	☼	11/17/22 17:44	11/21/22 12:49	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	11/17/22 17:44	11/21/22 12:49	1
Silver	0.37		0.29	0.075	mg/Kg	☼	11/17/22 17:44	11/21/22 12:49	1
Sodium	130		58	8.6	mg/Kg	☼	11/17/22 17:44	11/21/22 12:49	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	11/17/22 17:44	11/21/22 12:49	1
Vanadium	25		0.29	0.068	mg/Kg	☼	11/17/22 17:44	11/21/22 12:49	1
Zinc	79		1.2	0.51	mg/Kg	☼	11/17/22 17:44	11/21/22 12:49	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.40	J	0.50	0.050	mg/L		11/17/22 19:49	11/18/22 16:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/17/22 19:49	11/18/22 16:04	1
Boron	<0.50		0.50	0.050	mg/L		11/17/22 19:49	11/18/22 16:04	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B03 (5-9)D

Lab Sample ID: 500-225247-4

Date Collected: 11/10/22 15:40

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 84.2

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/17/22 19:49	11/18/22 16:04	1
Chromium	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 16:04	1
Cobalt	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 16:04	1
Iron	<0.40		0.40	0.20	mg/L		11/17/22 19:49	11/18/22 16:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 19:49	11/18/22 16:04	1
Manganese	0.021	J	0.025	0.010	mg/L		11/17/22 19:49	11/18/22 16:04	1
Nickel	0.011	J	0.025	0.010	mg/L		11/17/22 19:49	11/18/22 16:04	1
Selenium	<0.050		0.050	0.020	mg/L		11/17/22 19:49	11/18/22 16:04	1
Silver	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 16:04	1
Zinc	<0.50		0.50	0.020	mg/L		11/17/22 19:49	11/18/22 16:04	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/17/22 19:49	11/18/22 23:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/17/22 19:49	11/18/22 23:22	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/17/22 12:30	11/18/22 11:45	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051		0.019	0.0062	mg/Kg	☼	11/17/22 15:25	11/18/22 08:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.4		0.2	0.2	SU			11/17/22 16:31	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B01 (0-7)

Lab Sample ID: 500-225247-5

Date Collected: 11/10/22 15:55

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 81.7

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0086	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
Benzene	<0.0020		0.0020	0.00050	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
Bromoform	<0.0020		0.0020	0.00057	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
Bromomethane	<0.0049		0.0049	0.0019	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
Carbon tetrachloride	<0.0020		0.0020	0.00057	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
Chlorobenzene	<0.0020		0.0020	0.00073	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
Chloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
Chloroform	<0.0020		0.0020	0.00068	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00059	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
Dibromochloromethane	<0.0020		0.0020	0.00064	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
1,1-Dichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
1,1-Dichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00069	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
Ethylbenzene	<0.0020		0.0020	0.00094	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
Methylene Chloride	0.0042	J B	0.0049	0.0019	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0015	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
Styrene	<0.0020		0.0020	0.00059	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00063	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
Tetrachloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00087	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00069	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00066	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00084	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
Trichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
Vinyl acetate	<0.0049		0.0049	0.0017	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
Vinyl chloride	<0.0020		0.0020	0.00087	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1
Xylenes, Total	<0.0039		0.0039	0.00063	mg/Kg	☼	11/11/22 10:37	11/16/22 13:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		75 - 131	11/11/22 10:37	11/16/22 13:41	1
Dibromofluoromethane	88		75 - 126	11/11/22 10:37	11/16/22 13:41	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	11/11/22 10:37	11/16/22 13:41	1
Toluene-d8 (Surr)	87		75 - 124	11/11/22 10:37	11/16/22 13:41	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Bis(2-chloroethyl)ether	<0.20	+	0.20	0.060	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B01 (0-7)

Lab Sample ID: 500-225247-5

Date Collected: 11/10/22 15:55

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 81.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
2-Chlorophenol	<0.20	+	0.20	0.069	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
2,6-Dinitrotoluene	<0.20	+	0.20	0.079	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Phenanthrene	0.0089	J	0.040	0.0056	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Fluoranthene	0.019	J	0.040	0.0075	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Pyrene	0.025	J	0.040	0.0080	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Benzo[a]anthracene	0.012	J	0.040	0.0054	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B01 (0-7)

Lab Sample ID: 500-225247-5

Date Collected: 11/10/22 15:55

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 81.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.016	J	0.040	0.011	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Benzo[b]fluoranthene	<0.040	*3	0.040	0.0087	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Benzo[k]fluoranthene	<0.040	*3	0.040	0.012	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Benzo[a]pyrene	<0.040	*3	0.040	0.0078	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Indeno[1,2,3-cd]pyrene	<0.040	*3	0.040	0.010	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Dibenz(a,h)anthracene	<0.040	*3	0.040	0.0078	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
Benzo[g,h,i]perylene	<0.040	*3	0.040	0.013	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	11/20/22 10:56	11/26/22 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	119		31 - 166	11/20/22 10:56	11/26/22 14:45	1
Phenol-d5	85		30 - 153	11/20/22 10:56	11/26/22 14:45	1
Nitrobenzene-d5 (Surr)	80		37 - 147	11/20/22 10:56	11/26/22 14:45	1
2-Fluorobiphenyl (Surr)	87		43 - 145	11/20/22 10:56	11/26/22 14:45	1
2,4,6-Tribromophenol	92		31 - 143	11/20/22 10:56	11/26/22 14:45	1
Terphenyl-d14 (Surr)	161	S1+	42 - 157	11/20/22 10:56	11/26/22 14:45	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.38	J	1.2	0.23	mg/Kg	☼	11/17/22 17:44	11/21/22 12:52	1
Arsenic	10		0.59	0.20	mg/Kg	☼	11/17/22 17:44	11/21/22 12:52	1
Barium	59		0.59	0.067	mg/Kg	☼	11/17/22 17:44	11/21/22 12:52	1
Beryllium	0.79		0.24	0.055	mg/Kg	☼	11/17/22 17:44	11/21/22 12:52	1
Boron	5.8	B	2.9	0.27	mg/Kg	☼	11/17/22 17:44	11/21/22 12:52	1
Cadmium	0.22	B	0.12	0.021	mg/Kg	☼	11/17/22 17:44	11/21/22 12:52	1
Calcium	31000		12	2.0	mg/Kg	☼	11/17/22 17:44	11/21/22 12:52	1
Chromium	14		0.59	0.29	mg/Kg	☼	11/17/22 17:44	11/21/22 12:52	1
Cobalt	12		0.29	0.077	mg/Kg	☼	11/17/22 17:44	11/21/22 12:52	1
Copper	25		0.59	0.17	mg/Kg	☼	11/17/22 17:44	11/21/22 12:52	1
Iron	20000		12	6.1	mg/Kg	☼	11/17/22 17:44	11/21/22 12:52	1
Lead	31		0.29	0.14	mg/Kg	☼	11/17/22 17:44	11/21/22 12:52	1
Magnesium	17000		5.9	2.9	mg/Kg	☼	11/17/22 17:44	11/21/22 12:52	1
Manganese	530		0.59	0.086	mg/Kg	☼	11/17/22 17:44	11/21/22 12:52	1
Nickel	27		0.59	0.17	mg/Kg	☼	11/17/22 17:44	11/21/22 12:52	1
Potassium	1600		29	10	mg/Kg	☼	11/17/22 17:44	11/21/22 12:52	1
Selenium	0.42	J	0.59	0.35	mg/Kg	☼	11/17/22 17:44	11/21/22 12:52	1
Silver	0.26	J	0.29	0.076	mg/Kg	☼	11/17/22 17:44	11/21/22 12:52	1
Sodium	380		59	8.7	mg/Kg	☼	11/17/22 17:44	11/21/22 12:52	1
Thallium	0.41	J	0.59	0.29	mg/Kg	☼	11/17/22 17:44	11/21/22 12:52	1
Vanadium	21		0.29	0.070	mg/Kg	☼	11/17/22 17:44	11/21/22 12:52	1
Zinc	81		1.2	0.52	mg/Kg	☼	11/17/22 17:44	11/21/22 12:52	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.47	J	0.50	0.050	mg/L		11/17/22 19:49	11/18/22 16:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/17/22 19:49	11/18/22 16:08	1
Boron	0.068	J	0.50	0.050	mg/L		11/17/22 19:49	11/18/22 16:08	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B01 (0-7)

Lab Sample ID: 500-225247-5

Date Collected: 11/10/22 15:55

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 81.7

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/17/22 19:49	11/18/22 16:08	1
Chromium	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 16:08	1
Cobalt	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 16:08	1
Iron	<0.40		0.40	0.20	mg/L		11/17/22 19:49	11/18/22 16:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 19:49	11/18/22 16:08	1
Manganese	0.54		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 16:08	1
Nickel	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 16:08	1
Selenium	<0.050		0.050	0.020	mg/L		11/17/22 19:49	11/18/22 16:08	1
Silver	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 16:08	1
Zinc	<0.50		0.50	0.020	mg/L		11/17/22 19:49	11/18/22 16:08	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.94		0.025	0.010	mg/L		11/17/22 20:01	11/21/22 18:09	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/17/22 19:49	11/18/22 23:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/17/22 19:49	11/18/22 23:25	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/17/22 12:30	11/18/22 11:47	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.019	0.0064	mg/Kg	☆	11/17/22 15:25	11/18/22 08:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.1		0.2	0.2	SU			11/17/22 16:33	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B01 (7-14)

Lab Sample ID: 500-225247-6

Date Collected: 11/10/22 16:00

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.0

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0078	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
Methylene Chloride	0.0032	J B	0.0045	0.0018	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	11/11/22 10:37	11/16/22 14:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 131	11/11/22 10:37	11/16/22 14:06	1
Dibromofluoromethane	85		75 - 126	11/11/22 10:37	11/16/22 14:06	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	11/11/22 10:37	11/16/22 14:06	1
Toluene-d8 (Surr)	87		75 - 124	11/11/22 10:37	11/16/22 14:06	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Bis(2-chloroethyl)ether	<0.19	F1 *+	0.19	0.057	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B01 (7-14)

Lab Sample ID: 500-225247-6

Date Collected: 11/10/22 16:00

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
2-Chlorophenol	<0.19	+	0.19	0.065	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
2,4-Dimethylphenol	<0.38	F2 F1	0.38	0.14	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
2,4,5-Trichlorophenol	<0.38	F2 F1	0.38	0.087	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Hexachlorocyclopentadiene	<0.77	F1	0.77	0.22	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
4-Chloro-3-methylphenol	<0.38	F2	0.38	0.13	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
2,6-Dinitrotoluene	<0.19	+	0.19	0.075	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
2,4-Dinitrophenol	<0.77	F1	0.77	0.67	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
4-Nitrophenol	<0.77	F2	0.77	0.36	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Pentachlorophenol	<0.77	F1	0.77	0.61	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Pyrene	<0.038	F1	0.038	0.0075	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Butyl benzyl phthalate	<0.19	F1	0.19	0.072	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B01 (7-14)

Lab Sample ID: 500-225247-6

Date Collected: 11/10/22 16:00

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Bis(2-ethylhexyl) phthalate	<0.19	F1	0.19	0.069	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Benzo[b]fluoranthene	<0.038	*3	0.038	0.0082	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Benzo[k]fluoranthene	<0.038	*3	0.038	0.011	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Benzo[a]pyrene	<0.038	*3	0.038	0.0074	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Indeno[1,2,3-cd]pyrene	<0.038	*3	0.038	0.0098	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Dibenz(a,h)anthracene	<0.038	*3	0.038	0.0073	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Benzo[g,h,i]perylene	<0.038	F1 *3	0.038	0.012	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	11/20/22 10:56	11/26/22 18:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	148		31 - 166				11/20/22 10:56	11/26/22 18:13	1
Phenol-d5	116		30 - 153				11/20/22 10:56	11/26/22 18:13	1
Nitrobenzene-d5 (Surr)	91		37 - 147				11/20/22 10:56	11/26/22 18:13	1
2-Fluorobiphenyl (Surr)	97		43 - 145				11/20/22 10:56	11/26/22 18:13	1
2,4,6-Tribromophenol	83		31 - 143				11/20/22 10:56	11/26/22 18:13	1
Terphenyl-d14 (Surr)	167	S1+	42 - 157				11/20/22 10:56	11/26/22 18:13	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.46	J	1.1	0.22	mg/Kg	☼	11/17/22 17:44	11/21/22 12:55	1
Arsenic	9.3		0.56	0.19	mg/Kg	☼	11/17/22 17:44	11/21/22 12:55	1
Barium	27		0.56	0.064	mg/Kg	☼	11/17/22 17:44	11/21/22 12:55	1
Beryllium	0.70		0.22	0.052	mg/Kg	☼	11/17/22 17:44	11/21/22 12:55	1
Boron	9.5	B	2.8	0.26	mg/Kg	☼	11/17/22 17:44	11/21/22 12:55	1
Cadmium	0.21	B	0.11	0.020	mg/Kg	☼	11/17/22 17:44	11/21/22 12:55	1
Calcium	50000		56	9.5	mg/Kg	☼	11/17/22 17:44	11/22/22 11:47	5
Chromium	14		0.56	0.28	mg/Kg	☼	11/17/22 17:44	11/21/22 12:55	1
Cobalt	12		0.28	0.073	mg/Kg	☼	11/17/22 17:44	11/21/22 12:55	1
Copper	26		0.56	0.16	mg/Kg	☼	11/17/22 17:44	11/21/22 12:55	1
Iron	21000		11	5.8	mg/Kg	☼	11/17/22 17:44	11/21/22 12:55	1
Lead	15		0.28	0.13	mg/Kg	☼	11/17/22 17:44	11/21/22 12:55	1
Magnesium	24000		5.6	2.8	mg/Kg	☼	11/17/22 17:44	11/21/22 12:55	1
Manganese	430		0.56	0.081	mg/Kg	☼	11/17/22 17:44	11/21/22 12:55	1
Nickel	30		0.56	0.16	mg/Kg	☼	11/17/22 17:44	11/21/22 12:55	1
Potassium	2200		28	9.9	mg/Kg	☼	11/17/22 17:44	11/21/22 12:55	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	11/17/22 17:44	11/21/22 12:55	1
Silver	0.30		0.28	0.072	mg/Kg	☼	11/17/22 17:44	11/21/22 12:55	1
Sodium	570		56	8.3	mg/Kg	☼	11/17/22 17:44	11/21/22 12:55	1
Thallium	0.28	J	0.56	0.28	mg/Kg	☼	11/17/22 17:44	11/21/22 12:55	1
Vanadium	16		0.28	0.066	mg/Kg	☼	11/17/22 17:44	11/21/22 12:55	1
Zinc	68		1.1	0.49	mg/Kg	☼	11/17/22 17:44	11/21/22 12:55	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.31	J	0.50	0.050	mg/L		11/17/22 19:49	11/18/22 16:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/17/22 19:49	11/18/22 16:11	1
Boron	0.050	J	0.50	0.050	mg/L		11/17/22 19:49	11/18/22 16:11	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B01 (7-14)

Lab Sample ID: 500-225247-6

Date Collected: 11/10/22 16:00

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.0

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0021	J	0.0050	0.0020	mg/L		11/17/22 19:49	11/18/22 16:11	1
Chromium	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 16:11	1
Cobalt	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 16:11	1
Iron	<0.40		0.40	0.20	mg/L		11/17/22 19:49	11/18/22 16:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 19:49	11/18/22 16:11	1
Manganese	0.67		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 16:11	1
Nickel	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 16:11	1
Selenium	<0.050		0.050	0.020	mg/L		11/17/22 19:49	11/18/22 16:11	1
Silver	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 16:11	1
Zinc	<0.50		0.50	0.020	mg/L		11/17/22 19:49	11/18/22 16:11	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.84		0.025	0.010	mg/L		11/17/22 20:01	11/21/22 18:13	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/17/22 19:49	11/18/22 23:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/17/22 19:49	11/18/22 23:29	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/17/22 12:30	11/18/22 11:49	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.019	0.0063	mg/Kg	☆	11/17/22 15:25	11/18/22 08:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.7		0.2	0.2	SU			11/17/22 16:36	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*3	ISTD response or retention time outside acceptable limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

GC/MS VOA

Prep Batch: 684699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225247-1	1401V3-16-B02 (0-7)	Total/NA	Solid	5035	
500-225247-2	1401V3-16-B03 (0-5)	Total/NA	Solid	5035	
500-225247-3	1401V3-16-B03 (5-9)	Total/NA	Solid	5035	
500-225247-4	1401V3-16-B03 (5-9)D	Total/NA	Solid	5035	
500-225247-5	1401V3-16-B01 (0-7)	Total/NA	Solid	5035	
500-225247-6	1401V3-16-B01 (7-14)	Total/NA	Solid	5035	

Analysis Batch: 685183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225247-1	1401V3-16-B02 (0-7)	Total/NA	Solid	8260B	684699
500-225247-2	1401V3-16-B03 (0-5)	Total/NA	Solid	8260B	684699
500-225247-3	1401V3-16-B03 (5-9)	Total/NA	Solid	8260B	684699
500-225247-4	1401V3-16-B03 (5-9)D	Total/NA	Solid	8260B	684699
500-225247-5	1401V3-16-B01 (0-7)	Total/NA	Solid	8260B	684699
500-225247-6	1401V3-16-B01 (7-14)	Total/NA	Solid	8260B	684699
MB 500-685183/8	Method Blank	Total/NA	Solid	8260B	
LCS 500-685183/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-685183/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 686132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225247-1	1401V3-16-B02 (0-7)	Total/NA	Solid	3541	
500-225247-2	1401V3-16-B03 (0-5)	Total/NA	Solid	3541	
500-225247-3	1401V3-16-B03 (5-9)	Total/NA	Solid	3541	
500-225247-4	1401V3-16-B03 (5-9)D	Total/NA	Solid	3541	
500-225247-5	1401V3-16-B01 (0-7)	Total/NA	Solid	3541	
500-225247-6	1401V3-16-B01 (7-14)	Total/NA	Solid	3541	
MB 500-686132/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-686132/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-225247-6 MS	1401V3-16-B01 (7-14)	Total/NA	Solid	3541	
500-225247-6 MSD	1401V3-16-B01 (7-14)	Total/NA	Solid	3541	

Analysis Batch: 686896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225247-1	1401V3-16-B02 (0-7)	Total/NA	Solid	8270D	686132
500-225247-2	1401V3-16-B03 (0-5)	Total/NA	Solid	8270D	686132
500-225247-3	1401V3-16-B03 (5-9)	Total/NA	Solid	8270D	686132
500-225247-4	1401V3-16-B03 (5-9)D	Total/NA	Solid	8270D	686132
500-225247-5	1401V3-16-B01 (0-7)	Total/NA	Solid	8270D	686132
500-225247-6	1401V3-16-B01 (7-14)	Total/NA	Solid	8270D	686132
MB 500-686132/1-A	Method Blank	Total/NA	Solid	8270D	686132
LCS 500-686132/2-A	Lab Control Sample	Total/NA	Solid	8270D	686132
500-225247-6 MS	1401V3-16-B01 (7-14)	Total/NA	Solid	8270D	686132
500-225247-6 MSD	1401V3-16-B01 (7-14)	Total/NA	Solid	8270D	686132

Metals

Leach Batch: 685347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225247-1	1401V3-16-B02 (0-7)	SPLP East	Solid	1312	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Metals (Continued)

Leach Batch: 685347 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225247-5	1401V3-16-B01 (0-7)	SPLP East	Solid	1312	
500-225247-6	1401V3-16-B01 (7-14)	SPLP East	Solid	1312	
LB 500-685347/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 685355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225247-1	1401V3-16-B02 (0-7)	TCLP	Solid	1311	
500-225247-2	1401V3-16-B03 (0-5)	TCLP	Solid	1311	
500-225247-3	1401V3-16-B03 (5-9)	TCLP	Solid	1311	
500-225247-4	1401V3-16-B03 (5-9)D	TCLP	Solid	1311	
500-225247-5	1401V3-16-B01 (0-7)	TCLP	Solid	1311	
500-225247-6	1401V3-16-B01 (7-14)	TCLP	Solid	1311	
LB 500-685355/1-B	Method Blank	TCLP	Solid	1311	
LB 500-685355/2-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 685601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225247-1	1401V3-16-B02 (0-7)	TCLP	Solid	7470A	685355
500-225247-2	1401V3-16-B03 (0-5)	TCLP	Solid	7470A	685355
500-225247-3	1401V3-16-B03 (5-9)	TCLP	Solid	7470A	685355
500-225247-4	1401V3-16-B03 (5-9)D	TCLP	Solid	7470A	685355
500-225247-5	1401V3-16-B01 (0-7)	TCLP	Solid	7470A	685355
500-225247-6	1401V3-16-B01 (7-14)	TCLP	Solid	7470A	685355
LB 500-685355/2-B	Method Blank	TCLP	Solid	7470A	685355
MB 500-685601/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-685601/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 685603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225247-1	1401V3-16-B02 (0-7)	Total/NA	Solid	7471B	
500-225247-2	1401V3-16-B03 (0-5)	Total/NA	Solid	7471B	
500-225247-3	1401V3-16-B03 (5-9)	Total/NA	Solid	7471B	
500-225247-4	1401V3-16-B03 (5-9)D	Total/NA	Solid	7471B	
500-225247-5	1401V3-16-B01 (0-7)	Total/NA	Solid	7471B	
500-225247-6	1401V3-16-B01 (7-14)	Total/NA	Solid	7471B	
MB 500-685603/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-685603/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-225247-4 MS	1401V3-16-B03 (5-9)D	Total/NA	Solid	7471B	
500-225247-4 MSD	1401V3-16-B03 (5-9)D	Total/NA	Solid	7471B	
500-225247-4 DU	1401V3-16-B03 (5-9)D	Total/NA	Solid	7471B	

Prep Batch: 685701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225247-1	1401V3-16-B02 (0-7)	Total/NA	Solid	3050B	
500-225247-2	1401V3-16-B03 (0-5)	Total/NA	Solid	3050B	
500-225247-3	1401V3-16-B03 (5-9)	Total/NA	Solid	3050B	
500-225247-4	1401V3-16-B03 (5-9)D	Total/NA	Solid	3050B	
500-225247-5	1401V3-16-B01 (0-7)	Total/NA	Solid	3050B	
500-225247-6	1401V3-16-B01 (7-14)	Total/NA	Solid	3050B	
MB 500-685701/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-685701/2-A	Lab Control Sample	Total/NA	Solid	3050B	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Metals

Prep Batch: 685724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225247-1	1401V3-16-B02 (0-7)	TCLP	Solid	3010A	685355
500-225247-2	1401V3-16-B03 (0-5)	TCLP	Solid	3010A	685355
500-225247-3	1401V3-16-B03 (5-9)	TCLP	Solid	3010A	685355
500-225247-4	1401V3-16-B03 (5-9)D	TCLP	Solid	3010A	685355
500-225247-5	1401V3-16-B01 (0-7)	TCLP	Solid	3010A	685355
500-225247-6	1401V3-16-B01 (7-14)	TCLP	Solid	3010A	685355
LB 500-685355/1-B	Method Blank	TCLP	Solid	3010A	685355
LCS 500-685724/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 685727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225247-1	1401V3-16-B02 (0-7)	SPLP East	Solid	3010A	685347
500-225247-5	1401V3-16-B01 (0-7)	SPLP East	Solid	3010A	685347
500-225247-6	1401V3-16-B01 (7-14)	SPLP East	Solid	3010A	685347
LB 500-685347/1-B	Method Blank	SPLP East	Solid	3010A	685347
LCS 500-685727/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 685886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225247-1	1401V3-16-B02 (0-7)	Total/NA	Solid	7471B	685603
500-225247-2	1401V3-16-B03 (0-5)	Total/NA	Solid	7471B	685603
500-225247-3	1401V3-16-B03 (5-9)	Total/NA	Solid	7471B	685603
500-225247-4	1401V3-16-B03 (5-9)D	Total/NA	Solid	7471B	685603
500-225247-5	1401V3-16-B01 (0-7)	Total/NA	Solid	7471B	685603
500-225247-6	1401V3-16-B01 (7-14)	Total/NA	Solid	7471B	685603
MB 500-685603/12-A	Method Blank	Total/NA	Solid	7471B	685603
LCS 500-685603/13-A	Lab Control Sample	Total/NA	Solid	7471B	685603
500-225247-4 MS	1401V3-16-B03 (5-9)D	Total/NA	Solid	7471B	685603
500-225247-4 MSD	1401V3-16-B03 (5-9)D	Total/NA	Solid	7471B	685603
500-225247-4 DU	1401V3-16-B03 (5-9)D	Total/NA	Solid	7471B	685603

Analysis Batch: 685896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225247-1	1401V3-16-B02 (0-7)	TCLP	Solid	7470A	685601
500-225247-2	1401V3-16-B03 (0-5)	TCLP	Solid	7470A	685601
500-225247-3	1401V3-16-B03 (5-9)	TCLP	Solid	7470A	685601
500-225247-4	1401V3-16-B03 (5-9)D	TCLP	Solid	7470A	685601
500-225247-5	1401V3-16-B01 (0-7)	TCLP	Solid	7470A	685601
500-225247-6	1401V3-16-B01 (7-14)	TCLP	Solid	7470A	685601
LB 500-685355/2-B	Method Blank	TCLP	Solid	7470A	685601
MB 500-685601/12-A	Method Blank	Total/NA	Solid	7470A	685601
LCS 500-685601/14-A	Lab Control Sample	Total/NA	Solid	7470A	685601

Analysis Batch: 686064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225247-1	1401V3-16-B02 (0-7)	TCLP	Solid	6020A	685724
500-225247-2	1401V3-16-B03 (0-5)	TCLP	Solid	6020A	685724
500-225247-3	1401V3-16-B03 (5-9)	TCLP	Solid	6020A	685724
500-225247-4	1401V3-16-B03 (5-9)D	TCLP	Solid	6020A	685724
500-225247-5	1401V3-16-B01 (0-7)	TCLP	Solid	6020A	685724
500-225247-6	1401V3-16-B01 (7-14)	TCLP	Solid	6020A	685724

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Metals (Continued)

Analysis Batch: 686064 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-685355/1-B	Method Blank	TCLP	Solid	6020A	685724
LCS 500-685724/2-A	Lab Control Sample	Total/NA	Solid	6020A	685724

Analysis Batch: 686271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225247-1	1401V3-16-B02 (0-7)	TCLP	Solid	6010B	685724
500-225247-2	1401V3-16-B03 (0-5)	TCLP	Solid	6010B	685724
500-225247-3	1401V3-16-B03 (5-9)	TCLP	Solid	6010B	685724
500-225247-4	1401V3-16-B03 (5-9)D	TCLP	Solid	6010B	685724
500-225247-5	1401V3-16-B01 (0-7)	TCLP	Solid	6010B	685724
500-225247-6	1401V3-16-B01 (7-14)	TCLP	Solid	6010B	685724
LB 500-685355/1-B	Method Blank	TCLP	Solid	6010B	685724
LCS 500-685724/2-A	Lab Control Sample	Total/NA	Solid	6010B	685724

Analysis Batch: 686365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225247-1	1401V3-16-B02 (0-7)	Total/NA	Solid	6010B	685701
500-225247-2	1401V3-16-B03 (0-5)	Total/NA	Solid	6010B	685701
500-225247-3	1401V3-16-B03 (5-9)	Total/NA	Solid	6010B	685701
500-225247-4	1401V3-16-B03 (5-9)D	Total/NA	Solid	6010B	685701
500-225247-5	1401V3-16-B01 (0-7)	Total/NA	Solid	6010B	685701
500-225247-6	1401V3-16-B01 (7-14)	Total/NA	Solid	6010B	685701
MB 500-685701/1-A	Method Blank	Total/NA	Solid	6010B	685701
LCS 500-685701/2-A	Lab Control Sample	Total/NA	Solid	6010B	685701

Analysis Batch: 686463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225247-1	1401V3-16-B02 (0-7)	SPLP East	Solid	6010B	685727
500-225247-5	1401V3-16-B01 (0-7)	SPLP East	Solid	6010B	685727
500-225247-6	1401V3-16-B01 (7-14)	SPLP East	Solid	6010B	685727
LB 500-685347/1-B	Method Blank	SPLP East	Solid	6010B	685727
LCS 500-685727/2-A	Lab Control Sample	Total/NA	Solid	6010B	685727

Analysis Batch: 686571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225247-6	1401V3-16-B01 (7-14)	Total/NA	Solid	6010B	685701

General Chemistry

Analysis Batch: 685344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225247-1	1401V3-16-B02 (0-7)	Total/NA	Solid	Moisture	
500-225247-2	1401V3-16-B03 (0-5)	Total/NA	Solid	Moisture	
500-225247-3	1401V3-16-B03 (5-9)	Total/NA	Solid	Moisture	
500-225247-4	1401V3-16-B03 (5-9)D	Total/NA	Solid	Moisture	
500-225247-5	1401V3-16-B01 (0-7)	Total/NA	Solid	Moisture	
500-225247-6	1401V3-16-B01 (7-14)	Total/NA	Solid	Moisture	
500-225247-4 DU	1401V3-16-B03 (5-9)D	Total/NA	Solid	Moisture	

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

General Chemistry

Analysis Batch: 685439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225247-2	1401V3-16-B03 (0-5)	Total/NA	Solid	9045D	
500-225247-3	1401V3-16-B03 (5-9)	Total/NA	Solid	9045D	

Analysis Batch: 685788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225247-1	1401V3-16-B02 (0-7)	Total/NA	Solid	9045D	
500-225247-4	1401V3-16-B03 (5-9)D	Total/NA	Solid	9045D	
500-225247-5	1401V3-16-B01 (0-7)	Total/NA	Solid	9045D	
500-225247-6	1401V3-16-B01 (7-14)	Total/NA	Solid	9045D	
LCS 500-685788/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-685788/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 689376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-689376/5	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-689376/6	Lab Control Sample Dup	Total/NA	Solid	9045D	

Surrogate Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-225247-1	1401V3-16-B02 (0-7)	100	86	89	88
500-225247-2	1401V3-16-B03 (0-5)	94	89	93	88
500-225247-3	1401V3-16-B03 (5-9)	95	90	90	88
500-225247-4	1401V3-16-B03 (5-9)D	94	87	90	90
500-225247-5	1401V3-16-B01 (0-7)	99	88	92	87
500-225247-6	1401V3-16-B01 (7-14)	97	85	92	87
LCS 500-685183/5	Lab Control Sample	92	84	85	89
LCSD 500-685183/6	Lab Control Sample Dup	94	83	86	91
MB 500-685183/8	Method Blank	96	86	82	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (31-166)	PHL (30-153)	NBZ (37-147)	FBP (43-145)	TBP (31-143)	TPHL (42-157)
500-225247-1	1401V3-16-B02 (0-7)	124	110	81	89	80	128
500-225247-2	1401V3-16-B03 (0-5)	132	101	90	94	106	139
500-225247-3	1401V3-16-B03 (5-9)	137	123	91	92	106	146
500-225247-4	1401V3-16-B03 (5-9)D	110	96	75	78	83	132
500-225247-5	1401V3-16-B01 (0-7)	119	85	80	87	92	161 S1+
500-225247-6	1401V3-16-B01 (7-14)	148	116	91	97	83	167 S1+
500-225247-6 MS	1401V3-16-B01 (7-14)	126	115	94	93	95	157
500-225247-6 MSD	1401V3-16-B01 (7-14)	140	94	92	96	84	172 S1+
LCS 500-686132/2-A	Lab Control Sample	146	127	101	109	115	108
MB 500-686132/1-A	Method Blank	169 S1+	119	89	111	119	119

Surrogate Legend

2FP = 2-Fluorophenol
PHL = Phenol-d5
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol
TPHL = Terphenyl-d14 (Surr)

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-685183/8
Matrix: Solid
Analysis Batch: 685183

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			11/16/22 11:09	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			11/16/22 11:09	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			11/16/22 11:09	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			11/16/22 11:09	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			11/16/22 11:09	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			11/16/22 11:09	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			11/16/22 11:09	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			11/16/22 11:09	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			11/16/22 11:09	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			11/16/22 11:09	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			11/16/22 11:09	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			11/16/22 11:09	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			11/16/22 11:09	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			11/16/22 11:09	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			11/16/22 11:09	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			11/16/22 11:09	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			11/16/22 11:09	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			11/16/22 11:09	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			11/16/22 11:09	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			11/16/22 11:09	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			11/16/22 11:09	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			11/16/22 11:09	1
Methylene Chloride	0.00593		0.0050	0.0020	mg/Kg			11/16/22 11:09	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			11/16/22 11:09	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			11/16/22 11:09	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			11/16/22 11:09	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			11/16/22 11:09	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/16/22 11:09	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			11/16/22 11:09	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			11/16/22 11:09	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			11/16/22 11:09	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			11/16/22 11:09	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			11/16/22 11:09	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/16/22 11:09	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			11/16/22 11:09	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			11/16/22 11:09	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			11/16/22 11:09	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	96		75 - 131		11/16/22 11:09	1
Dibromofluoromethane	86		75 - 126		11/16/22 11:09	1
1,2-Dichloroethane-d4 (Surr)	82		70 - 134		11/16/22 11:09	1
Toluene-d8 (Surr)	90		75 - 124		11/16/22 11:09	1

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-685183/5
Matrix: Solid
Analysis Batch: 685183

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0500	0.0423		mg/Kg		85	40 - 150
Benzene	0.0500	0.0458		mg/Kg		92	70 - 125
Bromodichloromethane	0.0500	0.0485		mg/Kg		97	67 - 129
Bromoform	0.0500	0.0480		mg/Kg		96	68 - 136
Bromomethane	0.0500	0.0524		mg/Kg		105	70 - 130
2-Butanone (MEK)	0.0500	0.0451		mg/Kg		90	47 - 138
Carbon disulfide	0.0500	0.0476		mg/Kg		95	70 - 129
Carbon tetrachloride	0.0500	0.0490		mg/Kg		98	75 - 125
Chlorobenzene	0.0500	0.0484		mg/Kg		97	50 - 150
Chloroethane	0.0500	0.0500		mg/Kg		100	75 - 125
Chloroform	0.0500	0.0498		mg/Kg		100	57 - 135
Chloromethane	0.0500	0.0511		mg/Kg		102	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0482		mg/Kg		96	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0450		mg/Kg		90	70 - 125
Dibromochloromethane	0.0500	0.0488		mg/Kg		98	69 - 125
1,1-Dichloroethane	0.0500	0.0467		mg/Kg		93	70 - 125
1,2-Dichloroethane	0.0500	0.0490		mg/Kg		98	70 - 130
1,1-Dichloroethene	0.0500	0.0487		mg/Kg		97	70 - 120
1,2-Dichloropropane	0.0500	0.0456		mg/Kg		91	70 - 125
Ethylbenzene	0.0500	0.0473		mg/Kg		95	61 - 136
2-Hexanone	0.0500	0.0517		mg/Kg		103	48 - 146
Methylene Chloride	0.0500	0.0562		mg/Kg		112	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0472		mg/Kg		94	50 - 148
Methyl tert-butyl ether	0.0500	0.0470		mg/Kg		94	50 - 140
Styrene	0.0500	0.0479		mg/Kg		96	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0538		mg/Kg		108	70 - 122
Tetrachloroethene	0.0500	0.0456		mg/Kg		91	70 - 124
Toluene	0.0500	0.0451		mg/Kg		90	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0498		mg/Kg		100	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0466		mg/Kg		93	70 - 125
1,1,1-Trichloroethane	0.0500	0.0488		mg/Kg		98	70 - 128
1,1,2-Trichloroethane	0.0500	0.0496		mg/Kg		99	70 - 125
Trichloroethene	0.0500	0.0467		mg/Kg		93	70 - 125
Vinyl acetate	0.0500	0.0320		mg/Kg		64	40 - 153
Vinyl chloride	0.0500	0.0507		mg/Kg		101	70 - 125
Xylenes, Total	0.100	0.0952		mg/Kg		95	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	92		75 - 131
Dibromofluoromethane	84		75 - 126
1,2-Dichloroethane-d4 (Surr)	85		70 - 134
Toluene-d8 (Surr)	89		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-685183/6
Matrix: Solid
Analysis Batch: 685183

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.0500	0.0415		mg/Kg		83	40 - 150	2	30
Benzene	0.0500	0.0521		mg/Kg		104	70 - 125	13	30
Bromodichloromethane	0.0500	0.0554		mg/Kg		111	67 - 129	13	30
Bromoform	0.0500	0.0544		mg/Kg		109	68 - 136	12	30
Bromomethane	0.0500	0.0547		mg/Kg		109	70 - 130	4	30
2-Butanone (MEK)	0.0500	0.0485		mg/Kg		97	47 - 138	7	30
Carbon disulfide	0.0500	0.0544		mg/Kg		109	70 - 129	13	30
Carbon tetrachloride	0.0500	0.0556		mg/Kg		111	75 - 125	12	30
Chlorobenzene	0.0500	0.0552		mg/Kg		110	50 - 150	13	30
Chloroethane	0.0500	0.0528		mg/Kg		106	75 - 125	5	30
Chloroform	0.0500	0.0553		mg/Kg		111	57 - 135	11	30
Chloromethane	0.0500	0.0538		mg/Kg		108	70 - 125	5	30
cis-1,2-Dichloroethene	0.0500	0.0546		mg/Kg		109	70 - 125	12	30
cis-1,3-Dichloropropene	0.0500	0.0522		mg/Kg		104	70 - 125	15	30
Dibromochloromethane	0.0500	0.0563		mg/Kg		113	69 - 125	14	30
1,1-Dichloroethane	0.0500	0.0541		mg/Kg		108	70 - 125	15	30
1,2-Dichloroethane	0.0500	0.0555		mg/Kg		111	70 - 130	13	30
1,1-Dichloroethene	0.0500	0.0562		mg/Kg		112	70 - 120	14	30
1,2-Dichloropropane	0.0500	0.0517		mg/Kg		103	70 - 125	13	30
Ethylbenzene	0.0500	0.0545		mg/Kg		109	61 - 136	14	30
2-Hexanone	0.0500	0.0558		mg/Kg		112	48 - 146	8	30
Methylene Chloride	0.0500	0.0615		mg/Kg		123	70 - 126	9	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0516		mg/Kg		103	50 - 148	9	30
Methyl tert-butyl ether	0.0500	0.0529		mg/Kg		106	50 - 140	12	30
Styrene	0.0500	0.0543		mg/Kg		109	70 - 125	13	30
1,1,2,2-Tetrachloroethane	0.0500	0.0607		mg/Kg		121	70 - 122	12	30
Tetrachloroethene	0.0500	0.0536		mg/Kg		107	70 - 124	16	30
Toluene	0.0500	0.0534		mg/Kg		107	70 - 125	17	30
trans-1,2-Dichloroethene	0.0500	0.0555		mg/Kg		111	70 - 125	11	30
trans-1,3-Dichloropropene	0.0500	0.0540		mg/Kg		108	70 - 125	15	30
1,1,1-Trichloroethane	0.0500	0.0549		mg/Kg		110	70 - 128	12	30
1,1,2-Trichloroethane	0.0500	0.0564		mg/Kg		113	70 - 125	13	30
Trichloroethene	0.0500	0.0524		mg/Kg		105	70 - 125	11	30
Vinyl acetate	0.0500	0.0344		mg/Kg		69	40 - 153	7	30
Vinyl chloride	0.0500	0.0541		mg/Kg		108	70 - 125	7	30
Xylenes, Total	0.100	0.108		mg/Kg		108	53 - 147	13	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	94		75 - 131
Dibromofluoromethane	83		75 - 126
1,2-Dichloroethane-d4 (Surr)	86		70 - 134
Toluene-d8 (Surr)	91		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-686132/1-A
Matrix: Solid
Analysis Batch: 686896

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686132

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Isophorone	<0.17		0.17	0.037	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Carbazole	<0.17		0.17	0.083	mg/Kg		11/20/22 10:56	11/26/22 10:08	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-686132/1-A
Matrix: Solid
Analysis Batch: 686896

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686132

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		11/20/22 10:56	11/26/22 10:08	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		11/20/22 10:56	11/26/22 10:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	169	S1+	31 - 166	11/20/22 10:56	11/26/22 10:08	1
Phenol-d5	119		30 - 153	11/20/22 10:56	11/26/22 10:08	1
Nitrobenzene-d5 (Surr)	89		37 - 147	11/20/22 10:56	11/26/22 10:08	1
2-Fluorobiphenyl (Surr)	111		43 - 145	11/20/22 10:56	11/26/22 10:08	1
2,4,6-Tribromophenol	119		31 - 143	11/20/22 10:56	11/26/22 10:08	1
Terphenyl-d14 (Surr)	119		42 - 157	11/20/22 10:56	11/26/22 10:08	1

Lab Sample ID: LCS 500-686132/2-A
Matrix: Solid
Analysis Batch: 686896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686132

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.53		mg/Kg		115	56 - 122
Bis(2-chloroethyl)ether	1.33	1.64	*+	mg/Kg		123	55 - 111
1,3-Dichlorobenzene	1.33	1.24		mg/Kg		93	65 - 124
1,4-Dichlorobenzene	1.33	1.28		mg/Kg		96	61 - 110
1,2-Dichlorobenzene	1.33	1.30		mg/Kg		97	62 - 110
2-Methylphenol	1.33	1.46		mg/Kg		109	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.31		mg/Kg		98	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.33		mg/Kg		100	56 - 118
Hexachloroethane	1.33	1.23		mg/Kg		92	60 - 114
2-Chlorophenol	1.33	1.52	*+	mg/Kg		114	64 - 110
Nitrobenzene	1.33	1.32		mg/Kg		99	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.32		mg/Kg		99	60 - 112
1,2,4-Trichlorobenzene	1.33	1.37		mg/Kg		102	66 - 117
Isophorone	1.33	1.28		mg/Kg		96	55 - 110
2,4-Dimethylphenol	1.33	1.35		mg/Kg		102	60 - 110
Hexachlorobutadiene	1.33	1.30		mg/Kg		98	56 - 120
Naphthalene	1.33	1.28		mg/Kg		96	63 - 110
2,4-Dichlorophenol	1.33	1.38		mg/Kg		104	58 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-686132/2-A
Matrix: Solid
Analysis Batch: 686896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686132

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloroaniline	1.33	0.649	J	mg/Kg		49	30 - 150
2,4,6-Trichlorophenol	1.33	1.51		mg/Kg		113	57 - 120
2,4,5-Trichlorophenol	1.33	1.51		mg/Kg		114	50 - 120
Hexachlorocyclopentadiene	1.33	0.487	J	mg/Kg		37	10 - 133
2-Methylnaphthalene	1.33	1.29		mg/Kg		97	69 - 112
2-Nitroaniline	1.33	1.54		mg/Kg		116	57 - 124
2-Chloronaphthalene	1.33	1.52		mg/Kg		114	69 - 114
4-Chloro-3-methylphenol	1.33	1.48		mg/Kg		111	65 - 122
2,6-Dinitrotoluene	1.33	1.67	*+	mg/Kg		125	70 - 123
2-Nitrophenol	1.33	1.46		mg/Kg		109	60 - 120
3-Nitroaniline	1.33	0.914		mg/Kg		69	40 - 122
Dimethyl phthalate	1.33	1.52		mg/Kg		114	69 - 116
2,4-Dinitrophenol	2.67	0.846		mg/Kg		32	10 - 100
Acenaphthylene	1.33	1.55		mg/Kg		116	68 - 120
2,4-Dinitrotoluene	1.33	1.40		mg/Kg		105	69 - 124
Acenaphthene	1.33	1.33		mg/Kg		99	65 - 124
Dibenzofuran	1.33	1.35		mg/Kg		101	66 - 115
4-Nitrophenol	2.67	2.34		mg/Kg		88	30 - 122
Fluorene	1.33	1.33		mg/Kg		99	62 - 120
4-Nitroaniline	1.33	1.29		mg/Kg		96	60 - 160
4-Bromophenyl phenyl ether	1.33	1.28		mg/Kg		96	68 - 118
Hexachlorobenzene	1.33	1.26		mg/Kg		94	63 - 124
Diethyl phthalate	1.33	1.30		mg/Kg		97	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.35		mg/Kg		101	62 - 119
Pentachlorophenol	2.67	1.60		mg/Kg		60	13 - 112
N-Nitrosodiphenylamine	1.33	1.28		mg/Kg		96	65 - 112
4,6-Dinitro-2-methylphenol	2.67	1.42		mg/Kg		53	10 - 110
Phenanthrene	1.33	1.26		mg/Kg		94	62 - 120
Anthracene	1.33	1.30		mg/Kg		97	70 - 114
Carbazole	1.33	1.44		mg/Kg		108	65 - 142
Di-n-butyl phthalate	1.33	1.32		mg/Kg		99	65 - 120
Fluoranthene	1.33	1.35		mg/Kg		101	62 - 120
Pyrene	1.33	1.45		mg/Kg		109	61 - 128
Butyl benzyl phthalate	1.33	1.43		mg/Kg		108	71 - 129
Benzo[a]anthracene	1.33	1.46		mg/Kg		109	67 - 122
Chrysene	1.33	1.41		mg/Kg		106	63 - 120
3,3'-Dichlorobenzidine	1.33	1.08		mg/Kg		81	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.51		mg/Kg		113	72 - 131
Di-n-octyl phthalate	1.33	1.54		mg/Kg		115	68 - 134
Benzo[b]fluoranthene	1.33	1.37		mg/Kg		102	69 - 129
Benzo[k]fluoranthene	1.33	1.28		mg/Kg		96	68 - 127
Benzo[a]pyrene	1.33	1.40		mg/Kg		105	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.57		mg/Kg		118	68 - 130
Dibenz(a,h)anthracene	1.33	1.48		mg/Kg		111	64 - 131
Benzo[g,h,i]perylene	1.33	1.51		mg/Kg		113	72 - 131
3 & 4 Methylphenol	1.33	1.50		mg/Kg		113	57 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-686132/2-A
Matrix: Solid
Analysis Batch: 686896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686132

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	146		31 - 166
Phenol-d5	127		30 - 153
Nitrobenzene-d5 (Surr)	101		37 - 147
2-Fluorobiphenyl (Surr)	109		43 - 145
2,4,6-Tribromophenol	115		31 - 143
Terphenyl-d14 (Surr)	108		42 - 157

Lab Sample ID: 500-225247-6 MS
Matrix: Solid
Analysis Batch: 686896

Client Sample ID: 1401V3-16-B01 (7-14)
Prep Type: Total/NA
Prep Batch: 686132

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
Phenol	<0.19		1.51	1.57		mg/Kg	☼	104	56 - 122
Bis(2-chloroethyl)ether	<0.19	F1 *+	1.51	1.53		mg/Kg	☼	101	55 - 111
1,3-Dichlorobenzene	<0.19		1.51	1.13		mg/Kg	☼	75	60 - 110
1,4-Dichlorobenzene	<0.19		1.51	1.15		mg/Kg	☼	76	61 - 110
1,2-Dichlorobenzene	<0.19		1.51	1.18		mg/Kg	☼	78	62 - 110
2-Methylphenol	<0.19		1.51	1.56		mg/Kg	☼	103	60 - 120
2,2'-oxybis[1-chloropropane]	<0.19		1.51	1.36		mg/Kg	☼	90	40 - 124
N-Nitrosodi-n-propylamine	<0.077		1.51	1.46		mg/Kg	☼	97	56 - 118
Hexachloroethane	<0.19		1.51	0.961		mg/Kg	☼	64	60 - 114
2-Chlorophenol	<0.19	*+	1.51	1.61		mg/Kg	☼	107	64 - 110
Nitrobenzene	<0.038		1.51	1.49		mg/Kg	☼	99	60 - 116
Bis(2-chloroethoxy)methane	<0.19		1.51	1.49		mg/Kg	☼	99	60 - 112
1,2,4-Trichlorobenzene	<0.19		1.51	1.36		mg/Kg	☼	90	66 - 117
Isophorone	<0.19		1.51	1.45		mg/Kg	☼	96	55 - 110
2,4-Dimethylphenol	<0.38	F2 F1	1.51	1.42		mg/Kg	☼	94	60 - 110
Hexachlorobutadiene	<0.19		1.51	1.28		mg/Kg	☼	85	56 - 120
Naphthalene	<0.038		1.51	1.33		mg/Kg	☼	88	63 - 110
2,4-Dichlorophenol	<0.38		1.51	1.54		mg/Kg	☼	102	58 - 120
4-Chloroaniline	<0.77		1.51	1.06		mg/Kg	☼	70	30 - 150
2,4,6-Trichlorophenol	<0.38		1.51	1.28		mg/Kg	☼	85	57 - 120
2,4,5-Trichlorophenol	<0.38	F2 F1	1.51	0.798		mg/Kg	☼	53	50 - 120
Hexachlorocyclopentadiene	<0.77	F1	1.51	<0.76	F1	mg/Kg	☼	0	10 - 133
2-Methylnaphthalene	<0.077		1.51	1.44		mg/Kg	☼	95	69 - 112
2-Nitroaniline	<0.19		1.51	1.70		mg/Kg	☼	112	57 - 124
2-Chloronaphthalene	<0.19		1.51	1.52		mg/Kg	☼	101	69 - 114
4-Chloro-3-methylphenol	<0.38	F2	1.51	1.69		mg/Kg	☼	112	65 - 122
2,6-Dinitrotoluene	<0.19	*+	1.51	1.72		mg/Kg	☼	114	70 - 123
2-Nitrophenol	<0.38		1.51	1.59		mg/Kg	☼	105	60 - 120
3-Nitroaniline	<0.38		1.51	1.33		mg/Kg	☼	88	40 - 122
Dimethyl phthalate	<0.19		1.51	1.57		mg/Kg	☼	104	69 - 116
2,4-Dinitrophenol	<0.77	F1	3.02	<0.76	F1	mg/Kg	☼	0	10 - 100
Acenaphthylene	<0.038		1.51	1.56		mg/Kg	☼	103	68 - 120
2,4-Dinitrotoluene	<0.19		1.51	1.54		mg/Kg	☼	102	69 - 124
Acenaphthene	<0.038		1.51	1.55		mg/Kg	☼	102	65 - 124
Dibenzofuran	<0.19		1.51	1.56		mg/Kg	☼	103	66 - 115
4-Nitrophenol	<0.77	F2	3.02	2.70		mg/Kg	☼	90	30 - 122

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-225247-6 MS

Matrix: Solid

Analysis Batch: 686896

Client Sample ID: 1401V3-16-B01 (7-14)

Prep Type: Total/NA

Prep Batch: 686132

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result			Result	Qualifier				
Fluorene	<0.038		1.51	1.57		mg/Kg	☼	104	62 - 120
4-Nitroaniline	<0.38		1.51	1.58		mg/Kg	☼	105	60 - 160
4-Bromophenyl phenyl ether	<0.19		1.51	1.52		mg/Kg	☼	101	68 - 118
Hexachlorobenzene	<0.077		1.51	1.46		mg/Kg	☼	97	63 - 124
Diethyl phthalate	<0.19		1.51	1.56		mg/Kg	☼	103	58 - 120
4-Chlorophenyl phenyl ether	<0.19		1.51	1.60		mg/Kg	☼	106	62 - 119
Pentachlorophenol	<0.77	F1	3.02	0.622	J	mg/Kg	☼	21	13 - 112
N-Nitrosodiphenylamine	<0.19		1.51	1.46		mg/Kg	☼	96	65 - 112
4,6-Dinitro-2-methylphenol	<0.77		3.02	0.376	J	mg/Kg	☼	12	10 - 110
Phenanthrene	<0.038		1.51	1.47		mg/Kg	☼	97	62 - 120
Anthracene	<0.038		1.51	1.56		mg/Kg	☼	103	70 - 114
Carbazole	<0.19		1.51	1.69		mg/Kg	☼	112	65 - 142
Di-n-butyl phthalate	<0.19		1.51	1.62		mg/Kg	☼	107	65 - 120
Fluoranthene	<0.038		1.51	1.51		mg/Kg	☼	100	62 - 120
Pyrene	<0.038	F1	1.51	2.24	F1	mg/Kg	☼	148	61 - 128
Butyl benzyl phthalate	<0.19	F1	1.51	2.32	F1	mg/Kg	☼	154	71 - 129
Benzo[a]anthracene	<0.038		1.51	1.70		mg/Kg	☼	112	67 - 122
Chrysene	<0.038		1.51	1.64		mg/Kg	☼	108	63 - 120
3,3'-Dichlorobenzidine	<0.19		1.51	1.04		mg/Kg	☼	69	35 - 128
Bis(2-ethylhexyl) phthalate	<0.19	F1	1.51	2.44	F1	mg/Kg	☼	162	72 - 131
Di-n-octyl phthalate	<0.19		1.51	1.45		mg/Kg	☼	96	68 - 134
Benzo[b]fluoranthene	<0.038	*3	1.51	1.79	*3	mg/Kg	☼	118	69 - 129
Benzo[k]fluoranthene	<0.038	*3	1.51	1.74	*3	mg/Kg	☼	115	68 - 127
Benzo[a]pyrene	<0.038	*3	1.51	1.63	*3	mg/Kg	☼	108	65 - 133
Indeno[1,2,3-cd]pyrene	<0.038	*3	1.51	1.09	*3	mg/Kg	☼	72	68 - 130
Dibenz(a,h)anthracene	<0.038	*3	1.51	1.10	*3	mg/Kg	☼	73	64 - 131
Benzo[g,h,i]perylene	<0.038	F1 *3	1.51	0.866	F1 *3	mg/Kg	☼	57	72 - 131
3 & 4 Methylphenol	<0.19		1.51	1.79		mg/Kg	☼	118	57 - 120

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	126		31 - 166
Phenol-d5	115		30 - 153
Nitrobenzene-d5 (Surr)	94		37 - 147
2-Fluorobiphenyl (Surr)	93		43 - 145
2,4,6-Tribromophenol	95		31 - 143
Terphenyl-d14 (Surr)	157		42 - 157

Lab Sample ID: 500-225247-6 MSD

Matrix: Solid

Analysis Batch: 686896

Client Sample ID: 1401V3-16-B01 (7-14)

Prep Type: Total/NA

Prep Batch: 686132

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	
	Result			Result	Qualifier					RPD	Limit
Phenol	<0.19		1.50	1.23		mg/Kg	☼	82	56 - 122	24	30
Bis(2-chloroethyl)ether	<0.19	F1 *+	1.50	1.80	F1	mg/Kg	☼	120	55 - 111	16	30
1,3-Dichlorobenzene	<0.19		1.50	1.18		mg/Kg	☼	79	60 - 110	5	30
1,4-Dichlorobenzene	<0.19		1.50	1.22		mg/Kg	☼	81	61 - 110	6	30
1,2-Dichlorobenzene	<0.19		1.50	1.24		mg/Kg	☼	83	62 - 110	5	30
2-Methylphenol	<0.19		1.50	1.46		mg/Kg	☼	97	60 - 120	7	30

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-225247-6 MSD

Matrix: Solid

Analysis Batch: 686896

Client Sample ID: 1401V3-16-B01 (7-14)

Prep Type: Total/NA

Prep Batch: 686132

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
2,2'-oxybis[1-chloropropane]	<0.19		1.50	1.27		mg/Kg	☼	85	40 - 124	7	30
N-Nitrosodi-n-propylamine	<0.077		1.50	1.39		mg/Kg	☼	93	56 - 118	5	30
Hexachloroethane	<0.19		1.50	1.02		mg/Kg	☼	68	60 - 114	6	30
2-Chlorophenol	<0.19	*+	1.50	1.59		mg/Kg	☼	106	64 - 110	1	30
Nitrobenzene	<0.038		1.50	1.39		mg/Kg	☼	93	60 - 116	7	30
Bis(2-chloroethoxy)methane	<0.19		1.50	1.45		mg/Kg	☼	97	60 - 112	3	30
1,2,4-Trichlorobenzene	<0.19		1.50	1.38		mg/Kg	☼	92	66 - 117	2	30
Isophorone	<0.19		1.50	1.38		mg/Kg	☼	92	55 - 110	5	30
2,4-Dimethylphenol	<0.38	F2 F1	1.50	0.843	F2 F1	mg/Kg	☼	56	60 - 110	51	30
Hexachlorobutadiene	<0.19		1.50	1.31		mg/Kg	☼	88	56 - 120	3	30
Naphthalene	<0.038		1.50	1.36		mg/Kg	☼	91	63 - 110	2	30
2,4-Dichlorophenol	<0.38		1.50	1.58		mg/Kg	☼	105	58 - 120	2	30
4-Chloroaniline	<0.77		1.50	0.934		mg/Kg	☼	62	30 - 150	12	30
2,4,6-Trichlorophenol	<0.38		1.50	1.20		mg/Kg	☼	80	57 - 120	6	30
2,4,5-Trichlorophenol	<0.38	F2 F1	1.50	0.496	F2 F1	mg/Kg	☼	33	50 - 120	47	30
Hexachlorocyclopentadiene	<0.77	F1	1.50	<0.75	F1	mg/Kg	☼	0	10 - 133	NC	30
2-Methylnaphthalene	<0.077		1.50	1.37		mg/Kg	☼	92	69 - 112	4	30
2-Nitroaniline	<0.19		1.50	1.58		mg/Kg	☼	105	57 - 124	7	30
2-Chloronaphthalene	<0.19		1.50	1.51		mg/Kg	☼	101	69 - 114	1	30
4-Chloro-3-methylphenol	<0.38	F2	1.50	1.19	F2	mg/Kg	☼	79	65 - 122	35	30
2,6-Dinitrotoluene	<0.19	*+	1.50	1.70		mg/Kg	☼	114	70 - 123	1	30
2-Nitrophenol	<0.38		1.50	1.55		mg/Kg	☼	103	60 - 120	2	30
3-Nitroaniline	<0.38		1.50	1.34		mg/Kg	☼	89	40 - 122	0	30
Dimethyl phthalate	<0.19		1.50	1.56		mg/Kg	☼	104	69 - 116	0	30
2,4-Dinitrophenol	<0.77	F1	3.00	<0.75	F1	mg/Kg	☼	0	10 - 100	NC	30
Acenaphthylene	<0.038		1.50	1.55		mg/Kg	☼	104	68 - 120	1	30
2,4-Dinitrotoluene	<0.19		1.50	1.54		mg/Kg	☼	103	69 - 124	0	30
Acenaphthene	<0.038		1.50	1.52		mg/Kg	☼	101	65 - 124	2	30
Dibenzofuran	<0.19		1.50	1.55		mg/Kg	☼	103	66 - 115	1	30
4-Nitrophenol	<0.77	F2	3.00	1.74	F2	mg/Kg	☼	58	30 - 122	43	30
Fluorene	<0.038		1.50	1.53		mg/Kg	☼	102	62 - 120	3	30
4-Nitroaniline	<0.38		1.50	1.56		mg/Kg	☼	104	60 - 160	1	30
4-Bromophenyl phenyl ether	<0.19		1.50	1.57		mg/Kg	☼	105	68 - 118	3	30
Hexachlorobenzene	<0.077		1.50	1.51		mg/Kg	☼	101	63 - 124	3	30
Diethyl phthalate	<0.19		1.50	1.50		mg/Kg	☼	100	58 - 120	4	30
4-Chlorophenyl phenyl ether	<0.19		1.50	1.55		mg/Kg	☼	104	62 - 119	3	30
Pentachlorophenol	<0.77	F1	3.00	<0.75	F1	mg/Kg	☼	0	13 - 112	NC	30
N-Nitrosodiphenylamine	<0.19		1.50	1.53		mg/Kg	☼	102	65 - 112	5	30
4,6-Dinitro-2-methylphenol	<0.77		3.00	0.396	J	mg/Kg	☼	13	10 - 110	5	30
Phenanthrene	<0.038		1.50	1.51		mg/Kg	☼	101	62 - 120	3	30
Anthracene	<0.038		1.50	1.54		mg/Kg	☼	103	70 - 114	1	30
Carbazole	<0.19		1.50	1.71		mg/Kg	☼	114	65 - 142	1	30
Di-n-butyl phthalate	<0.19		1.50	1.60		mg/Kg	☼	107	65 - 120	1	30
Fluoranthene	<0.038		1.50	1.53		mg/Kg	☼	102	62 - 120	1	30
Pyrene	<0.038	F1	1.50	2.47	F1	mg/Kg	☼	165	61 - 128	10	30
Butyl benzyl phthalate	<0.19	F1	1.50	2.55	F1	mg/Kg	☼	170	71 - 129	9	30
Benzo[a]anthracene	<0.038		1.50	1.72		mg/Kg	☼	115	67 - 122	1	30
Chrysene	<0.038		1.50	1.68		mg/Kg	☼	112	63 - 120	2	30
3,3'-Dichlorobenzidine	<0.19		1.50	1.18		mg/Kg	☼	79	35 - 128	13	30

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-225247-6 MSD

Client Sample ID: 1401V3-16-B01 (7-14)

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 686896

Prep Batch: 686132

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
Bis(2-ethylhexyl) phthalate	<0.19	F1	1.50	2.38	F1	mg/Kg	☼	159	72 - 131	2	30	
Di-n-octyl phthalate	<0.19		1.50	1.31		mg/Kg	☼	88	68 - 134	10	30	
Benzo[b]fluoranthene	<0.038	*3	1.50	1.87	*3	mg/Kg	☼	125	69 - 129	4	30	
Benzo[k]fluoranthene	<0.038	*3	1.50	1.79	*3	mg/Kg	☼	120	68 - 127	3	30	
Benzo[a]pyrene	<0.038	*3	1.50	1.69	*3	mg/Kg	☼	113	65 - 133	3	30	
Indeno[1,2,3-cd]pyrene	<0.038	*3	1.50	1.15	*3	mg/Kg	☼	77	68 - 130	5	30	
Dibenz(a,h)anthracene	<0.038	*3	1.50	1.16	*3	mg/Kg	☼	77	64 - 131	6	30	
Benzo[g,h,i]perylene	<0.038	F1 *3	1.50	0.933	*3 F1	mg/Kg	☼	62	72 - 131	7	30	
3 & 4 Methylphenol	<0.19		1.50	1.57		mg/Kg	☼	105	57 - 120	13	30	

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorophenol	140		31 - 166
Phenol-d5	94		30 - 153
Nitrobenzene-d5 (Surr)	92		37 - 147
2-Fluorobiphenyl (Surr)	96		43 - 145
2,4,6-Tribromophenol	84		31 - 143
Terphenyl-d14 (Surr)	172	S1+	42 - 157

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-685701/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 686365

Prep Batch: 685701

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Arsenic	<1.0		1.0	0.34	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Barium	<1.0		1.0	0.11	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Beryllium	<0.40		0.40	0.093	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Boron	0.632	J	5.0	0.47	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Cadmium	0.0763	J	0.20	0.036	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Calcium	<20		20	3.4	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Chromium	<1.0		1.0	0.50	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Cobalt	<0.50		0.50	0.13	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Copper	<1.0		1.0	0.28	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Iron	<20		20	10	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Lead	<0.50		0.50	0.23	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Magnesium	<10		10	5.0	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Manganese	<1.0		1.0	0.15	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Nickel	<1.0		1.0	0.29	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Potassium	<50		50	18	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Selenium	<1.0		1.0	0.59	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Silver	<0.50		0.50	0.13	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Sodium	<100		100	15	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Thallium	<1.0		1.0	0.50	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Vanadium	<0.50		0.50	0.12	mg/Kg		11/17/22 17:44	11/21/22 11:08	1
Zinc	<2.0		2.0	0.88	mg/Kg		11/17/22 17:44	11/21/22 11:08	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-685701/2-A
Matrix: Solid
Analysis Batch: 686365

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685701

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	45.8		mg/Kg		92	80 - 120
Arsenic	10.0	9.12		mg/Kg		91	80 - 120
Barium	200	200		mg/Kg		100	80 - 120
Beryllium	5.00	4.57		mg/Kg		91	80 - 120
Boron	100	86.0		mg/Kg		86	80 - 120
Cadmium	5.00	4.68		mg/Kg		94	80 - 120
Calcium	1000	912		mg/Kg		91	80 - 120
Chromium	20.0	19.5		mg/Kg		97	80 - 120
Cobalt	50.0	48.8		mg/Kg		98	80 - 120
Copper	25.0	24.5		mg/Kg		98	80 - 120
Iron	100	92.5		mg/Kg		93	80 - 120
Lead	10.0	9.13		mg/Kg		91	80 - 120
Magnesium	1000	931		mg/Kg		93	80 - 120
Manganese	50.0	47.5		mg/Kg		95	80 - 120
Nickel	50.0	47.3		mg/Kg		95	80 - 120
Potassium	1000	959		mg/Kg		96	80 - 120
Selenium	10.0	8.54		mg/Kg		85	80 - 120
Silver	5.00	4.26		mg/Kg		85	80 - 120
Sodium	1000	996		mg/Kg		100	80 - 120
Thallium	10.0	9.20		mg/Kg		92	80 - 120
Vanadium	50.0	48.2		mg/Kg		96	80 - 120
Zinc	50.0	47.1		mg/Kg		94	80 - 120

Lab Sample ID: LCS 500-685724/2-A
Matrix: Solid
Analysis Batch: 686271

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685724

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.509		mg/L		102	80 - 120
Beryllium	0.0500	0.0493		mg/L		99	80 - 120
Boron	1.00	0.934		mg/L		93	80 - 120
Cadmium	0.0500	0.0529		mg/L		106	80 - 120
Chromium	0.200	0.194		mg/L		97	80 - 120
Cobalt	0.500	0.513		mg/L		103	80 - 120
Iron	1.00	0.956		mg/L		96	80 - 120
Lead	0.100	0.0978		mg/L		98	80 - 120
Manganese	0.500	0.491		mg/L		98	80 - 120
Nickel	0.500	0.503		mg/L		101	80 - 120
Selenium	0.100	0.114		mg/L		114	80 - 120
Silver	0.0500	0.0535		mg/L		107	80 - 120
Zinc	0.500	0.533		mg/L		107	80 - 120

Lab Sample ID: LCS 500-685727/2-A
Matrix: Solid
Analysis Batch: 686463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685727

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.500	0.499		mg/L		100	80 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-685355/1-B
Matrix: Solid
Analysis Batch: 686271

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685724

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		11/17/22 19:49	11/18/22 13:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/17/22 19:49	11/18/22 13:49	1
Boron	<0.50		0.50	0.050	mg/L		11/17/22 19:49	11/18/22 13:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/17/22 19:49	11/18/22 13:49	1
Chromium	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 13:49	1
Cobalt	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 13:49	1
Iron	<0.40		0.40	0.20	mg/L		11/17/22 19:49	11/18/22 13:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/17/22 19:49	11/18/22 13:49	1
Manganese	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 13:49	1
Nickel	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 13:49	1
Selenium	<0.050		0.050	0.020	mg/L		11/17/22 19:49	11/18/22 13:49	1
Silver	<0.025		0.025	0.010	mg/L		11/17/22 19:49	11/18/22 13:49	1
Zinc	<0.50		0.50	0.020	mg/L		11/17/22 19:49	11/18/22 13:49	1

Lab Sample ID: LB 500-685347/1-B
Matrix: Solid
Analysis Batch: 686463

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 685727

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Manganese	<0.025		0.025	0.010	mg/L		11/17/22 20:01	11/21/22 17:28	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-685724/2-A
Matrix: Solid
Analysis Batch: 686064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685724

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Antimony	0.500	0.465		mg/L		93	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: LB 500-685355/1-B
Matrix: Solid
Analysis Batch: 686064

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685724

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		11/17/22 19:49	11/18/22 22:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/17/22 19:49	11/18/22 22:09	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-685601/12-A
Matrix: Solid
Analysis Batch: 685896

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685601

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		11/17/22 12:30	11/18/22 11:07	1

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LCS 500-685601/14-A
Matrix: Solid
Analysis Batch: 685896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685601

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00180		mg/L		91	80 - 120

Lab Sample ID: LB 500-685355/2-B
Matrix: Solid
Analysis Batch: 685896

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685601

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/17/22 12:30	11/18/22 11:09	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-685603/12-A
Matrix: Solid
Analysis Batch: 685886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685603

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		11/17/22 15:25	11/18/22 07:38	1

Lab Sample ID: LCS 500-685603/13-A
Matrix: Solid
Analysis Batch: 685886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685603

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.153		mg/Kg		93	80 - 120

Lab Sample ID: 500-225247-4 MS
Matrix: Solid
Analysis Batch: 685886

Client Sample ID: 1401V3-16-B03 (5-9)D
Prep Type: Total/NA
Prep Batch: 685603

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.051		0.0924	0.140		mg/Kg	☼	97	75 - 125

Lab Sample ID: 500-225247-4 MSD
Matrix: Solid
Analysis Batch: 685886

Client Sample ID: 1401V3-16-B03 (5-9)D
Prep Type: Total/NA
Prep Batch: 685603

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.051		0.0921	0.145		mg/Kg	☼	102	75 - 125	3	20

Lab Sample ID: 500-225247-4 DU
Matrix: Solid
Analysis Batch: 685886

Client Sample ID: 1401V3-16-B03 (5-9)D
Prep Type: Total/NA
Prep Batch: 685603

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.051		0.0921	0.0489		mg/Kg	☼			4	20

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B02 (0-7)

Lab Sample ID: 500-225247-1

Date Collected: 11/10/22 15:15

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685347	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
SPLP East	Prep	3010A			685727	LMB	EET CHI	11/17/22 20:01 - 11/17/22 20:31 ¹
SPLP East	Analysis	6010B		1	686463	JJB	EET CHI	11/21/22 18:06
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	3010A			685724	LMB	EET CHI	11/17/22 19:49 - 11/17/22 20:19 ¹
TCLP	Analysis	6010B		1	686271	JJB	EET CHI	11/18/22 15:55
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	3010A			685724	LMB	EET CHI	11/17/22 19:49 - 11/17/22 20:19 ¹
TCLP	Analysis	6020A		1	686064	FXG	EET CHI	11/18/22 23:11
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	7470A			685601	MJG	EET CHI	11/17/22 12:30 - 11/17/22 14:30 ¹
TCLP	Analysis	7470A		1	685896	MJG	EET CHI	11/18/22 11:38
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 16:21
Total/NA	Analysis	Moisture		1	685344	LWN	EET CHI	11/16/22 14:12

Client Sample ID: 1401V3-16-B02 (0-7)

Lab Sample ID: 500-225247-1

Date Collected: 11/10/22 15:15

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684699	WRE	EET CHI	11/11/22 10:37
Total/NA	Analysis	8260B		1	685183	W1T	EET CHI	11/16/22 11:59
Total/NA	Prep	3541			686132	DAK	EET CHI	11/20/22 10:56 - 11/20/22 16:20 ¹
Total/NA	Analysis	8270D		1	686896	SS	EET CHI	11/26/22 13:13
Total/NA	Prep	3050B			685701	LMB	EET CHI	11/17/22 17:44 - 11/17/22 18:14 ¹
Total/NA	Analysis	6010B		1	686365	JJB	EET CHI	11/21/22 12:40
Total/NA	Prep	7471B			685603	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 07:54

Client Sample ID: 1401V3-16-B03 (0-5)

Lab Sample ID: 500-225247-2

Date Collected: 11/10/22 15:30

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	3010A			685724	LMB	EET CHI	11/17/22 19:49 - 11/17/22 20:19 ¹
TCLP	Analysis	6010B		1	686271	JJB	EET CHI	11/18/22 15:58
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	3010A			685724	LMB	EET CHI	11/17/22 19:49 - 11/17/22 20:19 ¹
TCLP	Analysis	6020A		1	686064	FXG	EET CHI	11/18/22 23:15
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	7470A			685601	MJG	EET CHI	11/17/22 12:30 - 11/17/22 14:30 ¹
TCLP	Analysis	7470A		1	685896	MJG	EET CHI	11/18/22 11:41
Total/NA	Analysis	9045D		1	685439	LWN	EET CHI	11/16/22 22:04
Total/NA	Analysis	Moisture		1	685344	LWN	EET CHI	11/16/22 14:12

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B03 (0-5)

Lab Sample ID: 500-225247-2

Date Collected: 11/10/22 15:30

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684699	WRE	EET CHI	11/11/22 10:37
Total/NA	Analysis	8260B		1	685183	W1T	EET CHI	11/16/22 12:25
Total/NA	Prep	3541			686132	DAK	EET CHI	11/20/22 10:56 - 11/20/22 16:20 ¹
Total/NA	Analysis	8270D		1	686896	SS	EET CHI	11/26/22 13:36
Total/NA	Prep	3050B			685701	LMB	EET CHI	11/17/22 17:44 - 11/17/22 18:14 ¹
Total/NA	Analysis	6010B		1	686365	JJB	EET CHI	11/21/22 12:43
Total/NA	Prep	7471B			685603	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 07:56

Client Sample ID: 1401V3-16-B03 (5-9)

Lab Sample ID: 500-225247-3

Date Collected: 11/10/22 15:35

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	3010A			685724	LMB	EET CHI	11/17/22 19:49 - 11/17/22 20:19 ¹
TCLP	Analysis	6010B		1	686271	JJB	EET CHI	11/18/22 16:01
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	3010A			685724	LMB	EET CHI	11/17/22 19:49 - 11/17/22 20:19 ¹
TCLP	Analysis	6020A		1	686064	FXG	EET CHI	11/18/22 23:18
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	7470A			685601	MJG	EET CHI	11/17/22 12:30 - 11/17/22 14:30 ¹
TCLP	Analysis	7470A		1	685896	MJG	EET CHI	11/18/22 11:43
Total/NA	Analysis	9045D		1	685439	LWN	EET CHI	11/16/22 22:06
Total/NA	Analysis	Moisture		1	685344	LWN	EET CHI	11/16/22 14:12

Client Sample ID: 1401V3-16-B03 (5-9)

Lab Sample ID: 500-225247-3

Date Collected: 11/10/22 15:35

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684699	WRE	EET CHI	11/11/22 10:37
Total/NA	Analysis	8260B		1	685183	W1T	EET CHI	11/16/22 12:50
Total/NA	Prep	3541			686132	DAK	EET CHI	11/20/22 10:56 - 11/20/22 16:20 ¹
Total/NA	Analysis	8270D		1	686896	SS	EET CHI	11/26/22 13:59
Total/NA	Prep	3050B			685701	LMB	EET CHI	11/17/22 17:44 - 11/17/22 18:14 ¹
Total/NA	Analysis	6010B		1	686365	JJB	EET CHI	11/21/22 12:46
Total/NA	Prep	7471B			685603	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 07:58

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B03 (5-9D)

Lab Sample ID: 500-225247-4

Date Collected: 11/10/22 15:40

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	3010A			685724	LMB	EET CHI	11/17/22 19:49 - 11/17/22 20:19 ¹
TCLP	Analysis	6010B		1	686271	JJJ	EET CHI	11/18/22 16:04
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	3010A			685724	LMB	EET CHI	11/17/22 19:49 - 11/17/22 20:19 ¹
TCLP	Analysis	6020A		1	686064	FXG	EET CHI	11/18/22 23:22
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	7470A			685601	MJG	EET CHI	11/17/22 12:30 - 11/17/22 14:30 ¹
TCLP	Analysis	7470A		1	685896	MJG	EET CHI	11/18/22 11:45
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 16:31
Total/NA	Analysis	Moisture		1	685344	LWN	EET CHI	11/16/22 14:12

Client Sample ID: 1401V3-16-B03 (5-9D)

Lab Sample ID: 500-225247-4

Date Collected: 11/10/22 15:40

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684699	WRE	EET CHI	11/11/22 10:37
Total/NA	Analysis	8260B		1	685183	W1T	EET CHI	11/16/22 13:15
Total/NA	Prep	3541			686132	DAK	EET CHI	11/20/22 10:56 - 11/20/22 16:20 ¹
Total/NA	Analysis	8270D		1	686896	SS	EET CHI	11/26/22 14:22
Total/NA	Prep	3050B			685701	LMB	EET CHI	11/17/22 17:44 - 11/17/22 18:14 ¹
Total/NA	Analysis	6010B		1	686365	JJJ	EET CHI	11/21/22 12:49
Total/NA	Prep	7471B			685603	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 08:00

Client Sample ID: 1401V3-16-B01 (0-7)

Lab Sample ID: 500-225247-5

Date Collected: 11/10/22 15:55

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685347	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
SPLP East	Prep	3010A			685727	LMB	EET CHI	11/17/22 20:01 - 11/17/22 20:31 ¹
SPLP East	Analysis	6010B		1	686463	JJJ	EET CHI	11/21/22 18:09
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	3010A			685724	LMB	EET CHI	11/17/22 19:49 - 11/17/22 20:19 ¹
TCLP	Analysis	6010B		1	686271	JJJ	EET CHI	11/18/22 16:08
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	3010A			685724	LMB	EET CHI	11/17/22 19:49 - 11/17/22 20:19 ¹
TCLP	Analysis	6020A		1	686064	FXG	EET CHI	11/18/22 23:25
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	7470A			685601	MJG	EET CHI	11/17/22 12:30 - 11/17/22 14:30 ¹
TCLP	Analysis	7470A		1	685896	MJG	EET CHI	11/18/22 11:47
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 16:33
Total/NA	Analysis	Moisture		1	685344	LWN	EET CHI	11/16/22 14:12

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Client Sample ID: 1401V3-16-B01 (0-7)

Lab Sample ID: 500-225247-5

Date Collected: 11/10/22 15:55

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684699	WRE	EET CHI	11/11/22 10:37
Total/NA	Analysis	8260B		1	685183	W1T	EET CHI	11/16/22 13:41
Total/NA	Prep	3541			686132	DAK	EET CHI	11/20/22 10:56 - 11/20/22 16:20 ¹
Total/NA	Analysis	8270D		1	686896	SS	EET CHI	11/26/22 14:45
Total/NA	Prep	3050B			685701	LMB	EET CHI	11/17/22 17:44 - 11/17/22 18:14 ¹
Total/NA	Analysis	6010B		1	686365	JJB	EET CHI	11/21/22 12:52
Total/NA	Prep	7471B			685603	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 08:12

Client Sample ID: 1401V3-16-B01 (7-14)

Lab Sample ID: 500-225247-6

Date Collected: 11/10/22 16:00

Matrix: Solid

Date Received: 11/10/22 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			685347	AW	EET CHI	11/16/22 12:14 - 11/17/22 06:14 ¹
SPLP East	Prep	3010A			685727	LMB	EET CHI	11/17/22 20:01 - 11/17/22 20:31 ¹
SPLP East	Analysis	6010B		1	686463	JJB	EET CHI	11/21/22 18:13
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	3010A			685724	LMB	EET CHI	11/17/22 19:49 - 11/17/22 20:19 ¹
TCLP	Analysis	6010B		1	686271	JJB	EET CHI	11/18/22 16:11
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	3010A			685724	LMB	EET CHI	11/17/22 19:49 - 11/17/22 20:19 ¹
TCLP	Analysis	6020A		1	686064	FXG	EET CHI	11/18/22 23:29
TCLP	Leach	1311			685355	AW	EET CHI	11/16/22 14:38 - 11/17/22 08:38 ¹
TCLP	Prep	7470A			685601	MJG	EET CHI	11/17/22 12:30 - 11/17/22 14:30 ¹
TCLP	Analysis	7470A		1	685896	MJG	EET CHI	11/18/22 11:49
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 16:36
Total/NA	Analysis	Moisture		1	685344	LWN	EET CHI	11/16/22 14:12

Client Sample ID: 1401V3-16-B01 (7-14)

Lab Sample ID: 500-225247-6

Date Collected: 11/10/22 16:00

Matrix: Solid

Date Received: 11/10/22 17:50

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684699	WRE	EET CHI	11/11/22 10:37
Total/NA	Analysis	8260B		1	685183	W1T	EET CHI	11/16/22 14:06
Total/NA	Prep	3541			686132	DAK	EET CHI	11/20/22 10:56 - 11/20/22 16:20 ¹
Total/NA	Analysis	8270D		1	686896	SS	EET CHI	11/26/22 18:13
Total/NA	Prep	3050B			685701	LMB	EET CHI	11/17/22 17:44 - 11/17/22 18:14 ¹
Total/NA	Analysis	6010B		1	686365	JJB	EET CHI	11/21/22 12:55
Total/NA	Prep	3050B			685701	LMB	EET CHI	11/17/22 17:44 - 11/17/22 18:14 ¹
Total/NA	Analysis	6010B		5	686571	JJB	EET CHI	11/22/22 11:47
Total/NA	Prep	7471B			685603	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 08:14

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225247-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

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Chain of Custody Record

522936



Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager D. TIEBOUT		Site Contact D. HAPPEL		Date 11/10/22		COC No 8			
Company Name WSP		Tel/Email		Lab Contact R. WRIGHT		Carrier		8 of 8 COCs			
Address 30 N LASALLE		Analysis Turnaround Time									
City/State/Zip CHICAGO, IL		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below: _____ <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day									
Phone		Project Name DOT W013 Butterfield Rd.		Filtered Sample (Y/N) Perform MS/MSD (Y/N) pH SO SOLIDS TOTAL METALS VOC'S SVOC'S TCLP#		 500-225247 COC		Sampler			
Fax		Site						For Lab Use Only		Waik-in Client	
Project Name		P.O.# PN 31403035.013						Job / SDG No		Lab Sampling	
Site								500-225247			
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.	Sample Specific Notes				
1 1401V3-16-B02 (0-7)		11/10/20	1515	C	S	2	X X X X X X				
2 1401V3-16-B03 (0-5)		11/10/20	1530	C	S	2	X X X X X X				
3 1401V3-16-P03 (5-a)		11/10/20	1535	C	S	2	X X X X X X				
4 1401V3-16-P03 (5-a)-DUP		11/10/20	1540	C	S	2	X X X X X X				
5 1401V3-16-B01 (0-7)		11/10/20	1555	C	S	2	X X X X X X				
6 1401V3-16-B01 (7-14)		11/10/20	1600	C	S	2	X X X X X X				
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other											
Possible Hazard Identification:					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample					<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months						
<input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown											
Special Instructions/QC Requirements & Comments:											
* SLP dependent on TCLP Results 55 → 5.7, 4.3 → 4.5, 3.6 → 3.8											
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd		Corr'd		Therm ID No			
Relinquished by Cathy Cooper		Company WSP		Date/Time 11/10/22 1635		Received by R. J. Ellis		Company GETA			
Relinquished by R. J. Ellis		Company GETA		Date/Time 11/10/22 1750		Received by		Company			
Relinquished by		Company		Date/Time		Received in Laboratory by John Smith		Company GETA			
								Date/Time 11/10/22 1750			

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225247-1

Login Number: 225247

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.7,4.5,3.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 365 & FAP 870 (Butterfield Road) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

3 S 010 IL 53 (ISGS #1401V3-17)

City: Glen Ellyn State: IL Zip Code: 60137

County: DuPage Township: Milton

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.82981 Longitude: -88.05508
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): _____ Approximate End Date (mm/dd/yyyy): _____

Estimated Volume of debris (cu. Yd.): 392

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov



This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Analytical Data Summary
PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

Key to Data Tables

- MAC = Maximum Allowable Concentration of Chemical Constituent in Uncontaminated Soil Used as Fill Material At Regulated Fill Operations
- mg/kg = Milligrams per kilogram.
- mg/L = Milligrams per liter.
- MSA = Metropolitan Statistical Area
- TACO = Tiered Approach to Corrective Action Objectives
- TCLP = Toxicity Characteristic Leaching Procedure.
- SCGIER = Soil Component of the Groundwater Ingestion Exposure Route
- SPLP = Synthetic Precipitation Leaching Procedure.
- ND = Not detected.
- NA = Not analyzed or not applicable.
- J = Estimated value.
- U = Analyte was analyzed for but not detected.
- PID = Photoionization detector.
- = No PID readings detected above background (within instrument margin of error).

Criteria Qualifiers and Shading

- # = pH is less than 6.25 or greater than 9.0 standard units.
- † = Concentration exceeds the most stringent MAC.
- m = Concentration exceeds the MAC for an MSA.
- * = Concentration exceeds the MAC for Chicago corporate limits.
- c = Concentration exceeds a TACO Tier 1 RO for the Construction Worker Exposure Route.
- r = Concentration exceeds a TACO Tier 1 soil RO for residential properties.
- L = The detected TCLP/SPLP concentration exceeds the TACO Tier 1 RO for the SCGIER.
-  = Concentration exceeds the most stringent MAC, but is below the MAC for an MSA.
-  = Concentration exceeds applicable comparison criteria.

PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

CONTAMINANTS OF CONCERN

SITE	ISGS #1401V3-17 (McDonalds)		Comparison Criteria					
BORING	1401V3-17-B01		MACs			TACO		
SAMPLE	1401V3-17-B01 (0-5)	1401V3-17-B01 (5-9)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
MATRIX	Soil	Soil						
DEPTH (feet)	0-5	5-9						
pH	7.5	6.7						
PID (meter units)	--	--						
VOCs (mg/kg)								
2-Butanone (MEK)	0.024	ND U	--	--	--	--	--	--
Acetone	0.099	ND U	25	--	--	70,000	100,000	--
SVOCs (mg/kg)								
Benzo(a)anthracene	0.028 J	0.033 J	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	0.036 J	0.049	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	0.051	0.056	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	0.023 J	0.032 J	--	--	4.4	--	--	--
Benzo(k)fluoranthene	0.013 J	0.027 J	9	--	8.1	9	1,700	--
Chrysene	0.042 J	0.047	88	--	11	88	17,000	--
Fluoranthene	0.050 J	0.088	3,100	--	28	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.024 J	0.031 J	0.9	1.6	5.8	1.6	170	--
Phenanthrene	0.023 J	0.031 J	--	--	15	--	--	--
Pyrene	0.044 J	0.067	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)								
Antimony	0.35 J	0.42 J	5	--	--	31	82	--
Arsenic	10	11	11.3	13	--	13	61	--
Barium	120	77	1,500	--	--	5,500	14,000	--
Beryllium	1.1	0.86	22	--	--	160	410	--
Boron	7.9	6.9	40	--	--	16,000	41,000	--
Cadmium	0.41	ND U	5.2	--	--	78	200	--
Calcium	5,700	20,000	--	--	--	--	--	--
Chromium	19	15	21	--	--	230	690	--
Cobalt	12	11	20	--	--	4,700	12,000	--
Copper	22	21	2,900	--	--	2,900	8,200	--
Iron	23,000 †m	22,000 †m	15,000	15,900	--	--	--	--
Lead	51	23	107	--	--	400	700	--
Magnesium	4,000	12,000	325,000	--	--	--	730,000	--
Manganese	630	490	630	636	--	1,600	4,100	--
Mercury	0.044	0.033	0.89	--	--	10	0.1	--
Nickel	26	24	100	--	--	1,600	4,100	--
Potassium	2,500	1,900	--	--	--	--	--	--
Selenium	0.63 J	ND U	1.3	--	--	390	1,000	--
Silver	0.41	0.30	4.4	--	--	390	1,000	--
Sodium	97	110	--	--	--	--	--	--
Vanadium	30	23	550	--	--	550	1,400	--
Zinc	110	76	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)								
Barium	0.29 J	0.54	--	--	--	--	--	2
Boron	0.11 J	0.067 J	--	--	--	--	--	2
Iron	0.29 J	0.20 J	--	--	--	--	--	5
Manganese	1.4 L	0.92 L	--	--	--	--	--	0.15
Zinc	0.040 J	0.022 J	--	--	--	--	--	5
SPLP Metals (mg/L)								
Manganese	0.39 L	0.49 L	--	--	--	--	--	0.15

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Dean Tiebot
WSP USA Inc.
30 North LaSalle Street
Chicago Illinois 60602
Generated 11/23/2022 5:24:55 PM

JOB DESCRIPTION

IDOT - 196-002-WO 13 IL 56

JOB NUMBER

500-225077-1



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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Job ID: 500-225077-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225077-1

Receipt

The samples were received on 11/8/2022 5:09 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.5° C and 5.0° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The laboratory control sample (LCS) for preparation batch 500-685247 and analytical batch 500-686244 recovered outside control limits for the following analytes: 2-Chlorophenol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-686244 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-686244 was outside the method criteria for the following analyte(s): Benzo[g,h,i]perylene, Di-n-octyl phthalate, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-686476 was outside the method criteria for the following analyte(s): 4,6-Dinitro-2-methylphenol and Dibenz(a,h)anthracene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 500-685247 and analytical batch 500-686476 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8270D: The following sample was diluted due to the nature of the sample matrix: 1401V3-17-B01 (0-5) (500-225077-1). Elevated reporting limits (RLs) are provided.

Method 8270D: The following sample contained one acid surrogate outside acceptance limits: 1401V3-17-B01 (0-5) (500-225077-1). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method 8270D: Acenaphthene-d10 and Phenanthrene-d10 internal standard responses was outside of acceptance limits for the following sample: 1401V3-17-B01 (0-5) (500-225077-1). The sample(s) was analyzed at a dilution with acceptable internal standard recoveries. The undiluted analysis was reported to obtain lower reporting limits except for detections affected by the low recoveries.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010B: The continuing calibration verification (CCV) at line 13 was outside the control limits for Beryllium bracketing the method blank (MB) and laboratory control sample (LCS). The MB and LCS was within the method control limits. The associated sample 1401V3-17-B01 (0-5) (500-225077-1) and 1401V3-17-B01 (5-9) (500-225077-2) was bracketed with continuing calibration verifications that were within control limits, therefore the data has been reported.

1401V3-17-B01 (0-5) (500-225077-1) and 1401V3-17-B01 (5-9) (500-225077-2)

Method 6010B: The method blank for preparation batch 500-684800 and analytical batch 500-685232 contained Calcium and Magnesium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the

Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Job ID: 500-225077-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

value found in the method blank.

Method Moisture: I had to homogenize the sample due to a color variation throughout the sample. 1401V3-17-B01 (0-5) (500-225077-1)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Client Sample ID: 1401V3-17-B01 (0-5)

Lab Sample ID: 500-225077-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.099		0.025	0.011	mg/Kg	1	✳	8260B	Total/NA
2-Butanone (MEK)	0.024		0.0063	0.0028	mg/Kg	1	✳	8260B	Total/NA
Pyrene	0.044	J F1	0.045	0.0091	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.028	J F1	0.045	0.0061	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.042	J	0.045	0.012	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.051		0.045	0.0099	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.013	J F1	0.045	0.013	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.036	J	0.045	0.0088	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.024	J F1	0.045	0.012	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.023	J F1	0.045	0.015	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene - DL	0.023	J	0.091	0.013	mg/Kg	2	✳	8270D	Total/NA
Fluoranthene - DL	0.050	J	0.091	0.017	mg/Kg	2	✳	8270D	Total/NA
Antimony	0.35	J	1.4	0.27	mg/Kg	1	✳	6010B	Total/NA
Arsenic	10		0.69	0.24	mg/Kg	1	✳	6010B	Total/NA
Barium	120		0.69	0.079	mg/Kg	1	✳	6010B	Total/NA
Beryllium	1.1		0.28	0.064	mg/Kg	1	✳	6010B	Total/NA
Boron	7.9		3.4	0.32	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.41	B	0.14	0.025	mg/Kg	1	✳	6010B	Total/NA
Calcium	5700	B	14	2.3	mg/Kg	1	✳	6010B	Total/NA
Chromium	19		0.69	0.34	mg/Kg	1	✳	6010B	Total/NA
Cobalt	12		0.34	0.090	mg/Kg	1	✳	6010B	Total/NA
Copper	22		0.69	0.19	mg/Kg	1	✳	6010B	Total/NA
Iron	23000	B	14	7.2	mg/Kg	1	✳	6010B	Total/NA
Lead	51		0.34	0.16	mg/Kg	1	✳	6010B	Total/NA
Magnesium	4000	B	6.9	3.4	mg/Kg	1	✳	6010B	Total/NA
Manganese	630	B	0.69	0.10	mg/Kg	1	✳	6010B	Total/NA
Nickel	26		0.69	0.20	mg/Kg	1	✳	6010B	Total/NA
Potassium	2500		34	12	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.63	J	0.69	0.41	mg/Kg	1	✳	6010B	Total/NA
Silver	0.41		0.34	0.089	mg/Kg	1	✳	6010B	Total/NA
Sodium	97		69	10	mg/Kg	1	✳	6010B	Total/NA
Vanadium	30		0.34	0.081	mg/Kg	1	✳	6010B	Total/NA
Zinc	110		1.4	0.61	mg/Kg	1	✳	6010B	Total/NA
Barium	0.29	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.11	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.29	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.040	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.39		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.044		0.022	0.0072	mg/Kg	1	✳	7471B	Total/NA
pH	7.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-17-B01 (5-9)

Lab Sample ID: 500-225077-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.031	J	0.041	0.0057	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.088		0.041	0.0076	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.067		0.041	0.0082	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.033	J	0.041	0.0055	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.047		0.041	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.056		0.041	0.0089	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Client Sample ID: 1401V3-17-B01 (5-9) (Continued)

Lab Sample ID: 500-225077-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[k]fluoranthene	0.027	J	0.041	0.012	mg/Kg	1	✳		8270D	Total/NA
Benzo[a]pyrene	0.049		0.041	0.0079	mg/Kg	1	✳		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.031	J	0.041	0.011	mg/Kg	1	✳		8270D	Total/NA
Benzo[g,h,i]perylene	0.032	J	0.041	0.013	mg/Kg	1	✳		8270D	Total/NA
Antimony	0.42	J	1.2	0.23	mg/Kg	1	✳		6010B	Total/NA
Arsenic	11		0.59	0.20	mg/Kg	1	✳		6010B	Total/NA
Barium	77		0.59	0.068	mg/Kg	1	✳		6010B	Total/NA
Beryllium	0.86		0.24	0.055	mg/Kg	1	✳		6010B	Total/NA
Boron	6.9		3.0	0.28	mg/Kg	1	✳		6010B	Total/NA
Cadmium	0.26	B	0.12	0.021	mg/Kg	1	✳		6010B	Total/NA
Calcium	20000	B	12	2.0	mg/Kg	1	✳		6010B	Total/NA
Chromium	15		0.59	0.29	mg/Kg	1	✳		6010B	Total/NA
Cobalt	11		0.30	0.078	mg/Kg	1	✳		6010B	Total/NA
Copper	21		0.59	0.17	mg/Kg	1	✳		6010B	Total/NA
Iron	22000	B	12	6.2	mg/Kg	1	✳		6010B	Total/NA
Lead	23		0.30	0.14	mg/Kg	1	✳		6010B	Total/NA
Magnesium	12000	B	5.9	2.9	mg/Kg	1	✳		6010B	Total/NA
Manganese	490	B	0.59	0.086	mg/Kg	1	✳		6010B	Total/NA
Nickel	24		0.59	0.17	mg/Kg	1	✳		6010B	Total/NA
Potassium	1900		30	10	mg/Kg	1	✳		6010B	Total/NA
Silver	0.30		0.30	0.076	mg/Kg	1	✳		6010B	Total/NA
Sodium	110		59	8.8	mg/Kg	1	✳		6010B	Total/NA
Vanadium	23		0.30	0.070	mg/Kg	1	✳		6010B	Total/NA
Zinc	76		1.2	0.52	mg/Kg	1	✳		6010B	Total/NA
Barium	0.54		0.50	0.050	mg/L	1			6010B	TCLP
Boron	0.067	J	0.50	0.050	mg/L	1			6010B	TCLP
Iron	0.20	J	0.40	0.20	mg/L	1			6010B	TCLP
Manganese	0.92		0.025	0.010	mg/L	1			6010B	TCLP
Zinc	0.022	J	0.50	0.020	mg/L	1			6010B	TCLP
Manganese	0.49		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.033		0.019	0.0065	mg/Kg	1	✳		7471B	Total/NA
pH	6.7		0.2	0.2	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010B	Metals (ICP)	SW846	EET CHI
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225077-1	1401V3-17-B01 (0-5)	Solid	11/08/22 11:05	11/08/22 17:09
500-225077-2	1401V3-17-B01 (5-9)	Solid	11/08/22 11:08	11/08/22 17:09

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Client Sample ID: 1401V3-17-B01 (0-5)

Lab Sample ID: 500-225077-1

Date Collected: 11/08/22 11:05

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 72.4

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.099		0.025	0.011	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
Benzene	<0.0025		0.0025	0.00065	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
Bromodichloromethane	<0.0025		0.0025	0.00052	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
Bromoform	<0.0025		0.0025	0.00074	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
Bromomethane	<0.0063		0.0063	0.0024	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
2-Butanone (MEK)	0.024		0.0063	0.0028	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
Carbon disulfide	<0.0063		0.0063	0.0013	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
Carbon tetrachloride	<0.0025		0.0025	0.00074	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
Chlorobenzene	<0.0025		0.0025	0.00094	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
Chloroethane	<0.0063		0.0063	0.0019	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
Chloroform	<0.0025		0.0025	0.00088	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
Chloromethane	<0.0063		0.0063	0.0025	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
cis-1,2-Dichloroethene	<0.0025		0.0025	0.00071	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
cis-1,3-Dichloropropene	<0.0025		0.0025	0.00076	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
Dibromochloromethane	<0.0025		0.0025	0.00083	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
1,1-Dichloroethane	<0.0025		0.0025	0.00087	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
1,2-Dichloroethane	<0.0063		0.0063	0.0020	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
1,1-Dichloroethene	<0.0025		0.0025	0.00087	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
1,2-Dichloropropane	<0.0025		0.0025	0.00066	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
1,3-Dichloropropane, Total	<0.0025		0.0025	0.00089	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
Ethylbenzene	<0.0025		0.0025	0.0012	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
2-Hexanone	<0.0063		0.0063	0.0020	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
Methylene Chloride	<0.0063		0.0063	0.0025	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
4-Methyl-2-pentanone (MIBK)	<0.0063		0.0063	0.0019	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
Methyl tert-butyl ether	<0.0025		0.0025	0.00074	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
Styrene	<0.0025		0.0025	0.00077	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
1,1,2,2-Tetrachloroethane	<0.0025		0.0025	0.00081	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
Tetrachloroethene	<0.0025		0.0025	0.00086	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
Toluene	<0.0025		0.0025	0.00064	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
trans-1,2-Dichloroethene	<0.0025		0.0025	0.0011	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
trans-1,3-Dichloropropene	<0.0025		0.0025	0.00089	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
1,1,1-Trichloroethane	<0.0025		0.0025	0.00085	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
1,1,2-Trichloroethane	<0.0025		0.0025	0.0011	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
Trichloroethene	<0.0025		0.0025	0.00086	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
Vinyl acetate	<0.0063		0.0063	0.0022	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
Vinyl chloride	<0.0025		0.0025	0.0011	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1
Xylenes, Total	<0.0051		0.0051	0.00081	mg/Kg	☼	11/09/22 18:36	11/12/22 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		75 - 131	11/09/22 18:36	11/12/22 14:40	1
Dibromofluoromethane	101		75 - 126	11/09/22 18:36	11/12/22 14:40	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	11/09/22 18:36	11/12/22 14:40	1
Toluene-d8 (Surr)	100		75 - 124	11/09/22 18:36	11/12/22 14:40	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.23		0.23	0.10	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
Bis(2-chloroethyl)ether	<0.23		0.23	0.068	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
1,3-Dichlorobenzene	<0.23		0.23	0.051	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
1,4-Dichlorobenzene	<0.23		0.23	0.059	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Client Sample ID: 1401V3-17-B01 (0-5)

Lab Sample ID: 500-225077-1

Date Collected: 11/08/22 11:05

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 72.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.23		0.23	0.055	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
2-Methylphenol	<0.23		0.23	0.073	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
2,2'-oxybis[1-chloropropane]	<0.23		0.23	0.053	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
N-Nitrosodi-n-propylamine	<0.092		0.092	0.056	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
Hexachloroethane	<0.23		0.23	0.069	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
2-Chlorophenol	<0.23	+	0.23	0.078	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
Nitrobenzene	<0.045		0.045	0.011	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
Bis(2-chloroethoxy)methane	<0.23		0.23	0.047	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
1,2,4-Trichlorobenzene	<0.23		0.23	0.049	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
Isophorone	<0.23		0.23	0.051	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
2,4-Dimethylphenol	<0.45		0.45	0.17	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
Hexachlorobutadiene	<0.23		0.23	0.072	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
Naphthalene	<0.045		0.045	0.0070	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
2,4-Dichlorophenol	<0.45		0.45	0.11	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
4-Chloroaniline	<0.92	F2	0.92	0.21	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
2,4,6-Trichlorophenol	<0.45	*3	0.45	0.16	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
2,4,5-Trichlorophenol	<0.45	*3	0.45	0.10	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
Hexachlorocyclopentadiene	<0.92	F1 *3	0.92	0.26	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
2-Methylnaphthalene	<0.092		0.092	0.0084	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
2-Nitroaniline	<0.23	*3	0.23	0.061	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
2-Chloronaphthalene	<0.23	*3	0.23	0.050	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
4-Chloro-3-methylphenol	<0.45		0.45	0.16	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
2,6-Dinitrotoluene	<0.23	*3	0.23	0.090	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
2-Nitrophenol	<0.45		0.45	0.11	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
3-Nitroaniline	<0.45	*3	0.45	0.14	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
Dimethyl phthalate	<0.23	*3	0.23	0.060	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
2,4-Dinitrophenol	<0.92	*3	0.92	0.80	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
Acenaphthylene	<0.045	*3	0.045	0.0060	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
2,4-Dinitrotoluene	<0.23	*3	0.23	0.073	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
Acenaphthene	<0.045	*3	0.045	0.0082	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
Dibenzofuran	<0.23	*3	0.23	0.053	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
4-Nitrophenol	<0.92	F2 *3	0.92	0.43	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
Fluorene	<0.045	*3	0.045	0.0064	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
4-Nitroaniline	<0.45	*3	0.45	0.19	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
4-Bromophenyl phenyl ether	<0.23	*3	0.23	0.060	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
Hexachlorobenzene	<0.092	*3	0.092	0.011	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
Diethyl phthalate	<0.23	*3	0.23	0.077	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
4-Chlorophenyl phenyl ether	<0.23	*3	0.23	0.053	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
Pentachlorophenol	<0.92	F2 *3	0.92	0.73	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
N-Nitrosodiphenylamine	<0.23	*3	0.23	0.054	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
4,6-Dinitro-2-methylphenol	<0.92	F2 *3	0.92	0.37	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
Anthracene	<0.045	*3	0.045	0.0076	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
Carbazole	<0.23	*3	0.23	0.11	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
Di-n-butyl phthalate	<0.23	*3	0.23	0.070	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
Pyrene	0.044	J F1	0.045	0.0091	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
Butyl benzyl phthalate	<0.23	F1	0.23	0.087	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
Benzo[a]anthracene	0.028	J F1	0.045	0.0061	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
Chrysene	0.042	J	0.045	0.012	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
3,3'-Dichlorobenzidine	<0.23		0.23	0.064	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Client Sample ID: 1401V3-17-B01 (0-5)

Lab Sample ID: 500-225077-1

Date Collected: 11/08/22 11:05

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 72.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<0.23	F1	0.23	0.083	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
Di-n-octyl phthalate	<0.23	*3	0.23	0.075	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
Benzo[b]fluoranthene	0.051		0.045	0.0099	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
Benzo[k]fluoranthene	0.013	J F1	0.045	0.013	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
Benzo[a]pyrene	0.036	J	0.045	0.0088	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
Indeno[1,2,3-cd]pyrene	0.024	J F1	0.045	0.012	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
Dibenz(a,h)anthracene	<0.045		0.045	0.0088	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
Benzo[g,h,i]perylene	0.023	J F1	0.045	0.015	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
3 & 4 Methylphenol	<0.23		0.23	0.076	mg/Kg	☼	11/16/22 08:57	11/21/22 14:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	113		31 - 166				11/16/22 08:57	11/21/22 14:12	1
Phenol-d5	68		30 - 153				11/16/22 08:57	11/21/22 14:12	1
Nitrobenzene-d5 (Surr)	85		37 - 147				11/16/22 08:57	11/21/22 14:12	1
2-Fluorobiphenyl (Surr)	61	*3	43 - 145				11/16/22 08:57	11/21/22 14:12	1
2,4,6-Tribromophenol	176	S1+ *3	31 - 143				11/16/22 08:57	11/21/22 14:12	1
Terphenyl-d14 (Surr)	87		42 - 157				11/16/22 08:57	11/21/22 14:12	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	0.023	J	0.091	0.013	mg/Kg	☼	11/16/22 08:57	11/22/22 20:10	2
Fluoranthene	0.050	J	0.091	0.017	mg/Kg	☼	11/16/22 08:57	11/22/22 20:10	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	115		31 - 166				11/16/22 08:57	11/22/22 20:10	2
Phenol-d5	82		30 - 153				11/16/22 08:57	11/22/22 20:10	2
Nitrobenzene-d5 (Surr)	90		37 - 147				11/16/22 08:57	11/22/22 20:10	2
2-Fluorobiphenyl (Surr)	85		43 - 145				11/16/22 08:57	11/22/22 20:10	2
2,4,6-Tribromophenol	63		31 - 143				11/16/22 08:57	11/22/22 20:10	2
Terphenyl-d14 (Surr)	124		42 - 157				11/16/22 08:57	11/22/22 20:10	2

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.35	J	1.4	0.27	mg/Kg	☼	11/14/22 09:30	11/15/22 22:51	1
Arsenic	10		0.69	0.24	mg/Kg	☼	11/14/22 09:30	11/15/22 22:51	1
Barium	120		0.69	0.079	mg/Kg	☼	11/14/22 09:30	11/15/22 22:51	1
Beryllium	1.1		0.28	0.064	mg/Kg	☼	11/14/22 09:30	11/15/22 22:51	1
Boron	7.9		3.4	0.32	mg/Kg	☼	11/14/22 09:30	11/15/22 22:51	1
Cadmium	0.41	B	0.14	0.025	mg/Kg	☼	11/14/22 09:30	11/15/22 22:51	1
Calcium	5700	B	14	2.3	mg/Kg	☼	11/14/22 09:30	11/15/22 22:51	1
Chromium	19		0.69	0.34	mg/Kg	☼	11/14/22 09:30	11/15/22 22:51	1
Cobalt	12		0.34	0.090	mg/Kg	☼	11/14/22 09:30	11/15/22 22:51	1
Copper	22		0.69	0.19	mg/Kg	☼	11/14/22 09:30	11/15/22 22:51	1
Iron	23000	B	14	7.2	mg/Kg	☼	11/14/22 09:30	11/15/22 22:51	1
Lead	51		0.34	0.16	mg/Kg	☼	11/14/22 09:30	11/15/22 22:51	1
Magnesium	4000	B	6.9	3.4	mg/Kg	☼	11/14/22 09:30	11/15/22 22:51	1
Manganese	630	B	0.69	0.10	mg/Kg	☼	11/14/22 09:30	11/15/22 22:51	1
Nickel	26		0.69	0.20	mg/Kg	☼	11/14/22 09:30	11/15/22 22:51	1
Potassium	2500		34	12	mg/Kg	☼	11/14/22 09:30	11/15/22 22:51	1
Selenium	0.63	J	0.69	0.41	mg/Kg	☼	11/14/22 09:30	11/16/22 12:46	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Client Sample ID: 1401V3-17-B01 (0-5)

Lab Sample ID: 500-225077-1

Date Collected: 11/08/22 11:05

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 72.4

Method: SW846 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.41		0.34	0.089	mg/Kg	☼	11/14/22 09:30	11/15/22 22:51	1
Sodium	97		69	10	mg/Kg	☼	11/14/22 09:30	11/15/22 22:51	1
Thallium	<0.69		0.69	0.34	mg/Kg	☼	11/14/22 09:30	11/15/22 22:51	1
Vanadium	30		0.34	0.081	mg/Kg	☼	11/14/22 09:30	11/15/22 22:51	1
Zinc	110		1.4	0.61	mg/Kg	☼	11/14/22 09:30	11/16/22 12:46	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.29	J	0.50	0.050	mg/L		11/14/22 08:37	11/15/22 18:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/14/22 08:37	11/15/22 18:06	1
Boron	0.11	J	0.50	0.050	mg/L		11/14/22 08:37	11/15/22 18:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/14/22 08:37	11/15/22 18:06	1
Chromium	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:06	1
Cobalt	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:06	1
Iron	0.29	J	0.40	0.20	mg/L		11/14/22 08:37	11/15/22 18:06	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/14/22 08:37	11/15/22 18:06	1
Manganese	1.4		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:06	1
Nickel	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:06	1
Selenium	<0.050		0.050	0.020	mg/L		11/14/22 08:37	11/15/22 18:06	1
Silver	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:06	1
Zinc	0.040	J	0.50	0.020	mg/L		11/14/22 08:37	11/15/22 18:06	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.39		0.025	0.010	mg/L		11/14/22 08:41	11/16/22 18:32	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/14/22 08:37	11/14/22 16:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/14/22 08:37	11/14/22 16:45	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/15/22 14:35	11/16/22 11:36	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.022	0.0072	mg/Kg	☼	11/16/22 16:15	11/17/22 07:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.5		0.2	0.2	SU			11/16/22 11:03	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Client Sample ID: 1401V3-17-B01 (5-9)

Lab Sample ID: 500-225077-2

Date Collected: 11/08/22 11:08

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 80.6

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.024		0.024	0.010	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
Benzene	<0.0024		0.0024	0.00061	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
Bromodichloromethane	<0.0024		0.0024	0.00049	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
Bromoform	<0.0024		0.0024	0.00070	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
Bromomethane	<0.0060		0.0060	0.0023	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
2-Butanone (MEK)	<0.0060		0.0060	0.0027	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
Carbon disulfide	<0.0060		0.0060	0.0012	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
Carbon tetrachloride	<0.0024		0.0024	0.00069	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
Chlorobenzene	<0.0024		0.0024	0.00088	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
Chloroethane	<0.0060		0.0060	0.0018	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
Chloroform	<0.0024		0.0024	0.00083	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
Chloromethane	<0.0060		0.0060	0.0024	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
cis-1,2-Dichloroethene	<0.0024		0.0024	0.00067	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
cis-1,3-Dichloropropene	<0.0024		0.0024	0.00072	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
Dibromochloromethane	<0.0024		0.0024	0.00078	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
1,1-Dichloroethane	<0.0024		0.0024	0.00082	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
1,2-Dichloroethane	<0.0060		0.0060	0.0019	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
1,1-Dichloroethene	<0.0024		0.0024	0.00082	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
1,2-Dichloropropane	<0.0024		0.0024	0.00062	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
1,3-Dichloropropane, Total	<0.0024		0.0024	0.00084	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
Ethylbenzene	<0.0024		0.0024	0.0011	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
2-Hexanone	<0.0060		0.0060	0.0019	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
Methylene Chloride	<0.0060		0.0060	0.0024	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
4-Methyl-2-pentanone (MIBK)	<0.0060		0.0060	0.0018	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
Methyl tert-butyl ether	<0.0024		0.0024	0.00070	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
Styrene	<0.0024		0.0024	0.00072	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
1,1,2,2-Tetrachloroethane	<0.0024		0.0024	0.00076	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
Tetrachloroethene	<0.0024		0.0024	0.00081	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
Toluene	<0.0024		0.0024	0.00060	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
trans-1,2-Dichloroethene	<0.0024		0.0024	0.0011	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
trans-1,3-Dichloropropene	<0.0024		0.0024	0.00084	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
1,1,1-Trichloroethane	<0.0024		0.0024	0.00080	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
1,1,2-Trichloroethane	<0.0024		0.0024	0.0010	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
Trichloroethene	<0.0024		0.0024	0.00081	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
Vinyl acetate	<0.0060		0.0060	0.0021	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
Vinyl chloride	<0.0024		0.0024	0.0011	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1
Xylenes, Total	<0.0048		0.0048	0.00076	mg/Kg	☼	11/09/22 18:36	11/12/22 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		75 - 131	11/09/22 18:36	11/12/22 15:05	1
Dibromofluoromethane	98		75 - 126	11/09/22 18:36	11/12/22 15:05	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	11/09/22 18:36	11/12/22 15:05	1
Toluene-d8 (Surr)	95		75 - 124	11/09/22 18:36	11/12/22 15:05	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.091	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Client Sample ID: 1401V3-17-B01 (5-9)

Lab Sample ID: 500-225077-2

Date Collected: 11/08/22 11:08

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 80.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
2-Chlorophenol	<0.21	+	0.21	0.070	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Phenanthrene	0.031	J	0.041	0.0057	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Fluoranthene	0.088		0.041	0.0076	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Pyrene	0.067		0.041	0.0082	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Benzo[a]anthracene	0.033	J	0.041	0.0055	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Client Sample ID: 1401V3-17-B01 (5-9)

Lab Sample ID: 500-225077-2

Date Collected: 11/08/22 11:08

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 80.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.047		0.041	0.011	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Benzo[b]fluoranthene	0.056		0.041	0.0089	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Benzo[k]fluoranthene	0.027 J		0.041	0.012	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Benzo[a]pyrene	0.049		0.041	0.0079	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Indeno[1,2,3-cd]pyrene	0.031 J		0.041	0.011	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
Benzo[g,h,i]perylene	0.032 J		0.041	0.013	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	11/16/22 08:57	11/21/22 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	118		31 - 166	11/16/22 08:57	11/21/22 16:59	1
Phenol-d5	102		30 - 153	11/16/22 08:57	11/21/22 16:59	1
Nitrobenzene-d5 (Surr)	72		37 - 147	11/16/22 08:57	11/21/22 16:59	1
2-Fluorobiphenyl (Surr)	81		43 - 145	11/16/22 08:57	11/21/22 16:59	1
2,4,6-Tribromophenol	101		31 - 143	11/16/22 08:57	11/21/22 16:59	1
Terphenyl-d14 (Surr)	98		42 - 157	11/16/22 08:57	11/21/22 16:59	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.42 J		1.2	0.23	mg/Kg	☼	11/14/22 09:30	11/15/22 22:54	1
Arsenic	11		0.59	0.20	mg/Kg	☼	11/14/22 09:30	11/15/22 22:54	1
Barium	77		0.59	0.068	mg/Kg	☼	11/14/22 09:30	11/15/22 22:54	1
Beryllium	0.86		0.24	0.055	mg/Kg	☼	11/14/22 09:30	11/15/22 22:54	1
Boron	6.9		3.0	0.28	mg/Kg	☼	11/14/22 09:30	11/15/22 22:54	1
Cadmium	0.26 B		0.12	0.021	mg/Kg	☼	11/14/22 09:30	11/15/22 22:54	1
Calcium	20000 B		12	2.0	mg/Kg	☼	11/14/22 09:30	11/15/22 22:54	1
Chromium	15		0.59	0.29	mg/Kg	☼	11/14/22 09:30	11/15/22 22:54	1
Cobalt	11		0.30	0.078	mg/Kg	☼	11/14/22 09:30	11/15/22 22:54	1
Copper	21		0.59	0.17	mg/Kg	☼	11/14/22 09:30	11/15/22 22:54	1
Iron	22000 B		12	6.2	mg/Kg	☼	11/14/22 09:30	11/15/22 22:54	1
Lead	23		0.30	0.14	mg/Kg	☼	11/14/22 09:30	11/15/22 22:54	1
Magnesium	12000 B		5.9	2.9	mg/Kg	☼	11/14/22 09:30	11/15/22 22:54	1
Manganese	490 B		0.59	0.086	mg/Kg	☼	11/14/22 09:30	11/15/22 22:54	1
Nickel	24		0.59	0.17	mg/Kg	☼	11/14/22 09:30	11/15/22 22:54	1
Potassium	1900		30	10	mg/Kg	☼	11/14/22 09:30	11/15/22 22:54	1
Selenium	<0.59		0.59	0.35	mg/Kg	☼	11/14/22 09:30	11/16/22 12:55	1
Silver	0.30		0.30	0.076	mg/Kg	☼	11/14/22 09:30	11/15/22 22:54	1
Sodium	110		59	8.8	mg/Kg	☼	11/14/22 09:30	11/15/22 22:54	1
Thallium	<0.59		0.59	0.30	mg/Kg	☼	11/14/22 09:30	11/15/22 22:54	1
Vanadium	23		0.30	0.070	mg/Kg	☼	11/14/22 09:30	11/15/22 22:54	1
Zinc	76		1.2	0.52	mg/Kg	☼	11/14/22 09:30	11/16/22 12:55	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.54		0.50	0.050	mg/L		11/14/22 08:37	11/15/22 18:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/14/22 08:37	11/15/22 18:09	1
Boron	0.067 J		0.50	0.050	mg/L		11/14/22 08:37	11/15/22 18:09	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Client Sample ID: 1401V3-17-B01 (5-9)

Lab Sample ID: 500-225077-2

Date Collected: 11/08/22 11:08

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 80.6

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/14/22 08:37	11/15/22 18:09	1
Chromium	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:09	1
Cobalt	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:09	1
Iron	0.20	J	0.40	0.20	mg/L		11/14/22 08:37	11/15/22 18:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/14/22 08:37	11/15/22 18:09	1
Manganese	0.92		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:09	1
Nickel	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:09	1
Selenium	<0.050		0.050	0.020	mg/L		11/14/22 08:37	11/15/22 18:09	1
Silver	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:09	1
Zinc	0.022	J	0.50	0.020	mg/L		11/14/22 08:37	11/15/22 18:09	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.49		0.025	0.010	mg/L		11/14/22 08:41	11/16/22 18:35	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/14/22 08:37	11/14/22 16:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/14/22 08:37	11/14/22 16:47	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/15/22 14:35	11/16/22 11:39	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.019	0.0065	mg/Kg	☆	11/16/22 16:15	11/17/22 07:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.7		0.2	0.2	SU			11/15/22 19:19	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*3	ISTD response or retention time outside acceptable limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

GC/MS VOA

Analysis Batch: 684607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225077-1	1401V3-17-B01 (0-5)	Total/NA	Solid	8260B	684629
500-225077-2	1401V3-17-B01 (5-9)	Total/NA	Solid	8260B	684629
MB 500-684607/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-684607/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-684607/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 684629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225077-1	1401V3-17-B01 (0-5)	Total/NA	Solid	5035	
500-225077-2	1401V3-17-B01 (5-9)	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 685247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225077-1 - DL	1401V3-17-B01 (0-5)	Total/NA	Solid	3541	
500-225077-1	1401V3-17-B01 (0-5)	Total/NA	Solid	3541	
500-225077-2	1401V3-17-B01 (5-9)	Total/NA	Solid	3541	
MB 500-685247/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-685247/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-225077-1 MS	1401V3-17-B01 (0-5)	Total/NA	Solid	3541	
500-225077-1 MSD	1401V3-17-B01 (0-5)	Total/NA	Solid	3541	

Analysis Batch: 686244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225077-1	1401V3-17-B01 (0-5)	Total/NA	Solid	8270D	685247
500-225077-2	1401V3-17-B01 (5-9)	Total/NA	Solid	8270D	685247
MB 500-685247/1-A	Method Blank	Total/NA	Solid	8270D	685247
LCS 500-685247/2-A	Lab Control Sample	Total/NA	Solid	8270D	685247

Analysis Batch: 686476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225077-1 - DL	1401V3-17-B01 (0-5)	Total/NA	Solid	8270D	685247
500-225077-1 MS	1401V3-17-B01 (0-5)	Total/NA	Solid	8270D	685247
500-225077-1 MSD	1401V3-17-B01 (0-5)	Total/NA	Solid	8270D	685247

Metals

Leach Batch: 684530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225077-1	1401V3-17-B01 (0-5)	TCLP	Solid	1311	
500-225077-2	1401V3-17-B01 (5-9)	TCLP	Solid	1311	
LB 500-684530/1-B	Method Blank	TCLP	Solid	1311	
LB 500-684530/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 684557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225077-1	1401V3-17-B01 (0-5)	SPLP East	Solid	1312	
500-225077-2	1401V3-17-B01 (5-9)	SPLP East	Solid	1312	
LB 500-684557/1-B	Method Blank	SPLP East	Solid	1312	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Metals

Prep Batch: 684787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225077-1	1401V3-17-B01 (0-5)	TCLP	Solid	3010A	684530
500-225077-2	1401V3-17-B01 (5-9)	TCLP	Solid	3010A	684530
LB 500-684530/1-B	Method Blank	TCLP	Solid	3010A	684530
LCS 500-684787/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 684789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225077-1	1401V3-17-B01 (0-5)	SPLP East	Solid	3010A	684557
500-225077-2	1401V3-17-B01 (5-9)	SPLP East	Solid	3010A	684557
LB 500-684557/1-B	Method Blank	SPLP East	Solid	3010A	684557
LCS 500-684789/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 684800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225077-1	1401V3-17-B01 (0-5)	Total/NA	Solid	3050B	
500-225077-2	1401V3-17-B01 (5-9)	Total/NA	Solid	3050B	
MB 500-684800/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-684800/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCS 500-684800/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 685028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225077-1	1401V3-17-B01 (0-5)	TCLP	Solid	6020A	684787
500-225077-2	1401V3-17-B01 (5-9)	TCLP	Solid	6020A	684787
LB 500-684530/1-B	Method Blank	TCLP	Solid	6020A	684787
LCS 500-684787/2-A	Lab Control Sample	Total/NA	Solid	6020A	684787

Prep Batch: 685091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225077-1	1401V3-17-B01 (0-5)	TCLP	Solid	7470A	684530
500-225077-2	1401V3-17-B01 (5-9)	TCLP	Solid	7470A	684530
LB 500-684530/1-C	Method Blank	TCLP	Solid	7470A	684530
MB 500-685091/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-685091/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 685232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225077-1	1401V3-17-B01 (0-5)	Total/NA	Solid	6010B	684800
500-225077-2	1401V3-17-B01 (5-9)	Total/NA	Solid	6010B	684800
MB 500-684800/1-A	Method Blank	Total/NA	Solid	6010B	684800
LCS 500-684800/2-A	Lab Control Sample	Total/NA	Solid	6010B	684800

Analysis Batch: 685243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225077-1	1401V3-17-B01 (0-5)	TCLP	Solid	6010B	684787
500-225077-2	1401V3-17-B01 (5-9)	TCLP	Solid	6010B	684787
LB 500-684530/1-B	Method Blank	TCLP	Solid	6010B	684787
LCS 500-684787/2-A	Lab Control Sample	Total/NA	Solid	6010B	684787

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Metals

Analysis Batch: 685348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225077-1	1401V3-17-B01 (0-5)	TCLP	Solid	7470A	685091
500-225077-2	1401V3-17-B01 (5-9)	TCLP	Solid	7470A	685091
LB 500-684530/1-C	Method Blank	TCLP	Solid	7470A	685091
MB 500-685091/12-A	Method Blank	Total/NA	Solid	7470A	685091
LCS 500-685091/14-A	Lab Control Sample	Total/NA	Solid	7470A	685091

Prep Batch: 685367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225077-1	1401V3-17-B01 (0-5)	Total/NA	Solid	7471B	
500-225077-2	1401V3-17-B01 (5-9)	Total/NA	Solid	7471B	
MB 500-685367/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-685367/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 685514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225077-1	1401V3-17-B01 (0-5)	Total/NA	Solid	6010B	684800
500-225077-2	1401V3-17-B01 (5-9)	Total/NA	Solid	6010B	684800
LCS 500-684800/2-A ^2	Lab Control Sample	Total/NA	Solid	6010B	684800

Analysis Batch: 685530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225077-1	1401V3-17-B01 (0-5)	SPLP East	Solid	6010B	684789
500-225077-2	1401V3-17-B01 (5-9)	SPLP East	Solid	6010B	684789
LB 500-684557/1-B	Method Blank	SPLP East	Solid	6010B	684789
LCS 500-684789/2-A	Lab Control Sample	Total/NA	Solid	6010B	684789

Analysis Batch: 685535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225077-1	1401V3-17-B01 (0-5)	Total/NA	Solid	7471B	685367
500-225077-2	1401V3-17-B01 (5-9)	Total/NA	Solid	7471B	685367
MB 500-685367/12-A	Method Blank	Total/NA	Solid	7471B	685367
LCS 500-685367/13-A	Lab Control Sample	Total/NA	Solid	7471B	685367

General Chemistry

Analysis Batch: 684487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225077-1	1401V3-17-B01 (0-5)	Total/NA	Solid	Moisture	
500-225077-2	1401V3-17-B01 (5-9)	Total/NA	Solid	Moisture	

Analysis Batch: 685174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225077-2	1401V3-17-B01 (5-9)	Total/NA	Solid	9045D	
LCS 500-685174/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-685174/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-225077-E-1 DU	500-225077-E-1 DU	Total/NA	Solid	9045D	

Analysis Batch: 685250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225077-1	1401V3-17-B01 (0-5)	Total/NA	Solid	9045D	
LCS 500-685250/5	Lab Control Sample	Total/NA	Solid	9045D	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

General Chemistry (Continued)

Analysis Batch: 685250 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 500-685250/6	Lab Control Sample Dup	Total/NA	Solid	9045D	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Surrogate Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(75-131)	(75-126)	(70-134)	(75-124)
500-225077-1	1401V3-17-B01 (0-5)	102	101	106	100
500-225077-2	1401V3-17-B01 (5-9)	99	98	106	95
LCS 500-684607/3	Lab Control Sample	106	93	96	103
LCS 500-684607/4	Lab Control Sample Dup	98	94	99	104
MB 500-684607/6	Method Blank	97	99	98	102

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP	PHL	NBZ	FBP	TBP	TPHL
		(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-225077-1	1401V3-17-B01 (0-5)	113	68	85	61 *3	176 S1+ *3	87
500-225077-1 - DL	1401V3-17-B01 (0-5)	115	82	90	85	63	124
500-225077-1 MS	1401V3-17-B01 (0-5)	87	83	82	80	75	129
500-225077-1 MSD	1401V3-17-B01 (0-5)	95	87	92	91	85	146
500-225077-2	1401V3-17-B01 (5-9)	118	102	72	81	101	98
LCS 500-685247/2-A	Lab Control Sample	138	119	95	97	113	104
MB 500-685247/1-A	Method Blank	164	136	89	104	105	114

Surrogate Legend

2FP = 2-Fluorophenol
PHL = Phenol-d5
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol
TPHL = Terphenyl-d14 (Surr)

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-684607/6
Matrix: Solid
Analysis Batch: 684607

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			11/12/22 10:34	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			11/12/22 10:34	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			11/12/22 10:34	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			11/12/22 10:34	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			11/12/22 10:34	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			11/12/22 10:34	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			11/12/22 10:34	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			11/12/22 10:34	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			11/12/22 10:34	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			11/12/22 10:34	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			11/12/22 10:34	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			11/12/22 10:34	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			11/12/22 10:34	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			11/12/22 10:34	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			11/12/22 10:34	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			11/12/22 10:34	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			11/12/22 10:34	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			11/12/22 10:34	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			11/12/22 10:34	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			11/12/22 10:34	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			11/12/22 10:34	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			11/12/22 10:34	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			11/12/22 10:34	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			11/12/22 10:34	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			11/12/22 10:34	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			11/12/22 10:34	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			11/12/22 10:34	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/12/22 10:34	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			11/12/22 10:34	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			11/12/22 10:34	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			11/12/22 10:34	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			11/12/22 10:34	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			11/12/22 10:34	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/12/22 10:34	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			11/12/22 10:34	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			11/12/22 10:34	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			11/12/22 10:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 131		11/12/22 10:34	1
Dibromofluoromethane	99		75 - 126		11/12/22 10:34	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		11/12/22 10:34	1
Toluene-d8 (Surr)	102		75 - 124		11/12/22 10:34	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-684607/3
Matrix: Solid
Analysis Batch: 684607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0400	0.0387		mg/Kg		97	40 - 150
Benzene	0.0400	0.0404		mg/Kg		101	70 - 125
Bromodichloromethane	0.0400	0.0415		mg/Kg		104	67 - 129
Bromoform	0.0400	0.0401		mg/Kg		100	68 - 136
Bromomethane	0.0400	0.0342		mg/Kg		86	70 - 130
2-Butanone (MEK)	0.0400	0.0383		mg/Kg		96	47 - 138
Carbon disulfide	0.0400	0.0373		mg/Kg		93	70 - 129
Carbon tetrachloride	0.0400	0.0373		mg/Kg		93	75 - 125
Chlorobenzene	0.0400	0.0438		mg/Kg		109	50 - 150
Chloroethane	0.0400	0.0378		mg/Kg		95	75 - 125
Chloroform	0.0400	0.0399		mg/Kg		100	57 - 135
Chloromethane	0.0400	0.0355		mg/Kg		89	70 - 125
cis-1,2-Dichloroethene	0.0400	0.0398		mg/Kg		100	70 - 125
cis-1,3-Dichloropropene	0.0400	0.0486		mg/Kg		122	70 - 125
Dibromochloromethane	0.0400	0.0423		mg/Kg		106	69 - 125
1,1-Dichloroethane	0.0400	0.0410		mg/Kg		102	70 - 125
1,2-Dichloroethane	0.0400	0.0430		mg/Kg		107	70 - 130
1,1-Dichloroethene	0.0400	0.0435		mg/Kg		109	70 - 120
1,2-Dichloropropane	0.0400	0.0390		mg/Kg		97	70 - 125
Ethylbenzene	0.0400	0.0407		mg/Kg		102	61 - 136
2-Hexanone	0.0400	0.0375		mg/Kg		94	48 - 146
Methylene Chloride	0.0400	0.0389		mg/Kg		97	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0400	0.0357		mg/Kg		89	50 - 148
Methyl tert-butyl ether	0.0400	0.0370		mg/Kg		92	50 - 140
Styrene	0.0400	0.0395		mg/Kg		99	70 - 125
1,1,2,2-Tetrachloroethane	0.0400	0.0415		mg/Kg		104	70 - 122
Tetrachloroethene	0.0400	0.0443		mg/Kg		111	70 - 124
Toluene	0.0400	0.0417		mg/Kg		104	70 - 125
trans-1,2-Dichloroethene	0.0400	0.0422		mg/Kg		105	70 - 125
trans-1,3-Dichloropropene	0.0400	0.0481		mg/Kg		120	70 - 125
1,1,1-Trichloroethane	0.0400	0.0377		mg/Kg		94	70 - 128
1,1,2-Trichloroethane	0.0400	0.0439		mg/Kg		110	70 - 125
Trichloroethene	0.0400	0.0436		mg/Kg		109	70 - 125
Vinyl acetate	0.0400	0.0407		mg/Kg		102	40 - 153
Vinyl chloride	0.0400	0.0358		mg/Kg		90	70 - 125
Xylenes, Total	0.0800	0.0765		mg/Kg		96	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	106		75 - 131
Dibromofluoromethane	93		75 - 126
1,2-Dichloroethane-d4 (Surr)	96		70 - 134
Toluene-d8 (Surr)	103		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-684607/4
Matrix: Solid
Analysis Batch: 684607

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.0400	0.0484		mg/Kg		121	40 - 150	22	30
Benzene	0.0400	0.0434		mg/Kg		108	70 - 125	7	30
Bromodichloromethane	0.0400	0.0435		mg/Kg		109	67 - 129	5	30
Bromoform	0.0400	0.0424		mg/Kg		106	68 - 136	5	30
Bromomethane	0.0400	0.0400		mg/Kg		100	70 - 130	16	30
2-Butanone (MEK)	0.0400	0.0401		mg/Kg		100	47 - 138	5	30
Carbon disulfide	0.0400	0.0432		mg/Kg		108	70 - 129	15	30
Carbon tetrachloride	0.0400	0.0420		mg/Kg		105	75 - 125	12	30
Chlorobenzene	0.0400	0.0447		mg/Kg		112	50 - 150	2	30
Chloroethane	0.0400	0.0435		mg/Kg		109	75 - 125	14	30
Chloroform	0.0400	0.0422		mg/Kg		106	57 - 135	6	30
Chloromethane	0.0400	0.0401		mg/Kg		100	70 - 125	12	30
cis-1,2-Dichloroethene	0.0400	0.0435		mg/Kg		109	70 - 125	9	30
cis-1,3-Dichloropropene	0.0400	0.0488		mg/Kg		122	70 - 125	0	30
Dibromochloromethane	0.0400	0.0439		mg/Kg		110	69 - 125	4	30
1,1-Dichloroethane	0.0400	0.0438		mg/Kg		110	70 - 125	7	30
1,2-Dichloroethane	0.0400	0.0443		mg/Kg		111	70 - 130	3	30
1,1-Dichloroethene	0.0400	0.0470		mg/Kg		117	70 - 120	8	30
1,2-Dichloropropane	0.0400	0.0413		mg/Kg		103	70 - 125	6	30
Ethylbenzene	0.0400	0.0424		mg/Kg		106	61 - 136	4	30
2-Hexanone	0.0400	0.0401		mg/Kg		100	48 - 146	7	30
Methylene Chloride	0.0400	0.0431		mg/Kg		108	70 - 126	10	30
4-Methyl-2-pentanone (MIBK)	0.0400	0.0388		mg/Kg		97	50 - 148	8	30
Methyl tert-butyl ether	0.0400	0.0409		mg/Kg		102	50 - 140	10	30
Styrene	0.0400	0.0415		mg/Kg		104	70 - 125	5	30
1,1,2,2-Tetrachloroethane	0.0400	0.0405		mg/Kg		101	70 - 122	2	30
Tetrachloroethene	0.0400	0.0469		mg/Kg		117	70 - 124	6	30
Toluene	0.0400	0.0431		mg/Kg		108	70 - 125	3	30
trans-1,2-Dichloroethene	0.0400	0.0467		mg/Kg		117	70 - 125	10	30
trans-1,3-Dichloropropene	0.0400	0.0494		mg/Kg		124	70 - 125	3	30
1,1,1-Trichloroethane	0.0400	0.0423		mg/Kg		106	70 - 128	12	30
1,1,2-Trichloroethane	0.0400	0.0453		mg/Kg		113	70 - 125	3	30
Trichloroethene	0.0400	0.0470		mg/Kg		118	70 - 125	8	30
Vinyl acetate	0.0400	0.0420		mg/Kg		105	40 - 153	3	30
Vinyl chloride	0.0400	0.0409		mg/Kg		102	70 - 125	13	30
Xylenes, Total	0.0800	0.0807		mg/Kg		101	53 - 147	5	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		75 - 131
Dibromofluoromethane	94		75 - 126
1,2-Dichloroethane-d4 (Surr)	99		70 - 134
Toluene-d8 (Surr)	104		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-685247/1-A
Matrix: Solid
Analysis Batch: 686244

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685247

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Isophorone	<0.17		0.17	0.037	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Carbazole	<0.17		0.17	0.083	mg/Kg		11/16/22 08:57	11/21/22 13:26	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-685247/1-A
Matrix: Solid
Analysis Batch: 686244

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685247

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		11/16/22 08:57	11/21/22 13:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	164		31 - 166	11/16/22 08:57	11/21/22 13:26	1
Phenol-d5	136		30 - 153	11/16/22 08:57	11/21/22 13:26	1
Nitrobenzene-d5 (Surr)	89		37 - 147	11/16/22 08:57	11/21/22 13:26	1
2-Fluorobiphenyl (Surr)	104		43 - 145	11/16/22 08:57	11/21/22 13:26	1
2,4,6-Tribromophenol	105		31 - 143	11/16/22 08:57	11/21/22 13:26	1
Terphenyl-d14 (Surr)	114		42 - 157	11/16/22 08:57	11/21/22 13:26	1

Lab Sample ID: LCS 500-685247/2-A
Matrix: Solid
Analysis Batch: 686244

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685247

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.51		mg/Kg		113	56 - 122
Bis(2-chloroethyl)ether	1.33	1.23		mg/Kg		92	55 - 111
1,3-Dichlorobenzene	1.33	1.20		mg/Kg		90	65 - 124
1,4-Dichlorobenzene	1.33	1.25		mg/Kg		93	61 - 110
1,2-Dichlorobenzene	1.33	1.25		mg/Kg		94	62 - 110
2-Methylphenol	1.33	1.40		mg/Kg		105	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.22		mg/Kg		92	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.29		mg/Kg		97	56 - 118
Hexachloroethane	1.33	1.17		mg/Kg		88	60 - 114
2-Chlorophenol	1.33	1.48	*+	mg/Kg		111	64 - 110
Nitrobenzene	1.33	1.30		mg/Kg		97	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.31		mg/Kg		98	60 - 112
1,2,4-Trichlorobenzene	1.33	1.35		mg/Kg		101	66 - 117
Isophorone	1.33	1.27		mg/Kg		96	55 - 110
2,4-Dimethylphenol	1.33	1.34		mg/Kg		100	60 - 110
Hexachlorobutadiene	1.33	1.30		mg/Kg		98	56 - 120
Naphthalene	1.33	1.29		mg/Kg		96	63 - 110
2,4-Dichlorophenol	1.33	1.39		mg/Kg		105	58 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-685247/2-A

Matrix: Solid

Analysis Batch: 686244

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 685247

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloroaniline	1.33	0.677		mg/Kg		51	30 - 150
2,4,6-Trichlorophenol	1.33	1.36		mg/Kg		102	57 - 120
2,4,5-Trichlorophenol	1.33	1.42		mg/Kg		106	50 - 120
Hexachlorocyclopentadiene	1.33	0.931		mg/Kg		70	10 - 133
2-Methylnaphthalene	1.33	1.28		mg/Kg		96	69 - 112
2-Nitroaniline	1.33	1.36		mg/Kg		102	57 - 124
2-Chloronaphthalene	1.33	1.37		mg/Kg		103	69 - 114
4-Chloro-3-methylphenol	1.33	1.48		mg/Kg		111	65 - 122
2,6-Dinitrotoluene	1.33	1.56		mg/Kg		117	70 - 123
2-Nitrophenol	1.33	1.45		mg/Kg		109	60 - 120
3-Nitroaniline	1.33	0.713		mg/Kg		53	40 - 122
Dimethyl phthalate	1.33	1.37		mg/Kg		103	69 - 116
2,4-Dinitrophenol	2.67	0.858		mg/Kg		32	10 - 100
Acenaphthylene	1.33	1.39		mg/Kg		104	68 - 120
2,4-Dinitrotoluene	1.33	1.42		mg/Kg		106	69 - 124
Acenaphthene	1.33	1.37		mg/Kg		102	65 - 124
Dibenzofuran	1.33	1.39		mg/Kg		104	66 - 115
4-Nitrophenol	2.67	2.67		mg/Kg		100	30 - 122
Fluorene	1.33	1.36		mg/Kg		102	62 - 120
4-Nitroaniline	1.33	1.20		mg/Kg		90	60 - 160
4-Bromophenyl phenyl ether	1.33	1.41		mg/Kg		105	68 - 118
Hexachlorobenzene	1.33	1.37		mg/Kg		103	63 - 124
Diethyl phthalate	1.33	1.34		mg/Kg		100	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.37		mg/Kg		103	62 - 119
Pentachlorophenol	2.67	1.93		mg/Kg		73	13 - 112
N-Nitrosodiphenylamine	1.33	1.40		mg/Kg		105	65 - 112
4,6-Dinitro-2-methylphenol	2.67	1.60		mg/Kg		60	10 - 110
Phenanthrene	1.33	1.36		mg/Kg		102	62 - 120
Anthracene	1.33	1.41		mg/Kg		106	70 - 114
Carbazole	1.33	1.55		mg/Kg		116	65 - 142
Di-n-butyl phthalate	1.33	1.44		mg/Kg		108	65 - 120
Fluoranthene	1.33	1.45		mg/Kg		109	62 - 120
Pyrene	1.33	1.38		mg/Kg		104	61 - 128
Butyl benzyl phthalate	1.33	1.37		mg/Kg		103	71 - 129
Benzo[a]anthracene	1.33	1.37		mg/Kg		103	67 - 122
Chrysene	1.33	1.36		mg/Kg		102	63 - 120
3,3'-Dichlorobenzidine	1.33	1.02		mg/Kg		76	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.45		mg/Kg		108	72 - 131
Di-n-octyl phthalate	1.33	1.65		mg/Kg		124	68 - 134
Benzo[b]fluoranthene	1.33	1.42		mg/Kg		106	69 - 129
Benzo[k]fluoranthene	1.33	1.30		mg/Kg		97	68 - 127
Benzo[a]pyrene	1.33	1.49		mg/Kg		112	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.63		mg/Kg		122	68 - 130
Dibenz(a,h)anthracene	1.33	1.57		mg/Kg		118	64 - 131
Benzo[g,h,i]perylene	1.33	1.55		mg/Kg		116	72 - 131
3 & 4 Methylphenol	1.33	1.43		mg/Kg		107	57 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-685247/2-A
Matrix: Solid
Analysis Batch: 686244

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685247

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	138		31 - 166
Phenol-d5	119		30 - 153
Nitrobenzene-d5 (Surr)	95		37 - 147
2-Fluorobiphenyl (Surr)	97		43 - 145
2,4,6-Tribromophenol	113		31 - 143
Terphenyl-d14 (Surr)	104		42 - 157

Lab Sample ID: 500-225077-1 MS
Matrix: Solid
Analysis Batch: 686476

Client Sample ID: 1401V3-17-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 685247

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Phenol	<0.23		1.76	1.85		mg/Kg	☼	106	56 - 122
Bis(2-chloroethyl)ether	<0.23		1.76	1.55		mg/Kg	☼	88	55 - 111
1,3-Dichlorobenzene	<0.23		1.76	1.34		mg/Kg	☼	76	60 - 110
1,4-Dichlorobenzene	<0.23		1.76	1.39		mg/Kg	☼	79	61 - 110
1,2-Dichlorobenzene	<0.23		1.76	1.44		mg/Kg	☼	82	62 - 110
2-Methylphenol	<0.23		1.76	1.87		mg/Kg	☼	107	60 - 120
2,2'-oxybis[1-chloropropane]	<0.23		1.76	1.74		mg/Kg	☼	99	40 - 124
N-Nitrosodi-n-propylamine	<0.092		1.76	1.81		mg/Kg	☼	103	56 - 118
Hexachloroethane	<0.23		1.76	1.07		mg/Kg	☼	61	60 - 114
2-Chlorophenol	<0.23	*+	1.76	1.76		mg/Kg	☼	100	64 - 110
Nitrobenzene	<0.045		1.76	1.68		mg/Kg	☼	96	60 - 116
Bis(2-chloroethoxy)methane	<0.23		1.76	1.67		mg/Kg	☼	95	60 - 112
1,2,4-Trichlorobenzene	<0.23		1.76	1.45		mg/Kg	☼	82	66 - 117
Isophorone	<0.23		1.76	1.64		mg/Kg	☼	93	55 - 110
2,4-Dimethylphenol	<0.45		1.76	1.68		mg/Kg	☼	96	60 - 110
Hexachlorobutadiene	<0.23		1.76	1.08		mg/Kg	☼	62	56 - 120
Naphthalene	<0.045		1.76	1.54		mg/Kg	☼	88	63 - 110
2,4-Dichlorophenol	<0.45		1.76	1.61		mg/Kg	☼	92	58 - 120
4-Chloroaniline	<0.92	F2	1.76	1.48		mg/Kg	☼	84	30 - 150
2,4,6-Trichlorophenol	<0.45	*3	1.76	1.62		mg/Kg	☼	92	57 - 120
2,4,5-Trichlorophenol	<0.45	*3	1.76	1.80		mg/Kg	☼	103	50 - 120
Hexachlorocyclopentadiene	<0.92	F1 *3	1.76	<0.88		mg/Kg	☼	0	10 - 133
2-Methylnaphthalene	<0.092		1.76	1.60		mg/Kg	☼	91	69 - 112
2-Nitroaniline	<0.23	*3	1.76	1.97		mg/Kg	☼	112	57 - 124
2-Chloronaphthalene	<0.23	*3	1.76	1.60		mg/Kg	☼	91	69 - 114
4-Chloro-3-methylphenol	<0.45		1.76	1.89		mg/Kg	☼	108	65 - 122
2,6-Dinitrotoluene	<0.23	*3	1.76	1.66		mg/Kg	☼	94	70 - 123
2-Nitrophenol	<0.45		1.76	1.57		mg/Kg	☼	89	60 - 120
3-Nitroaniline	<0.45	*3	1.76	1.55		mg/Kg	☼	88	40 - 122
Dimethyl phthalate	<0.23	*3	1.76	1.67		mg/Kg	☼	95	69 - 116
2,4-Dinitrophenol	<0.92	*3	3.51	1.05		mg/Kg	☼	30	10 - 100
Acenaphthylene	<0.045	*3	1.76	1.69		mg/Kg	☼	96	68 - 120
2,4-Dinitrotoluene	<0.23	*3	1.76	1.72		mg/Kg	☼	98	69 - 124
Acenaphthene	<0.045	*3	1.76	1.69		mg/Kg	☼	96	65 - 124
Dibenzofuran	<0.23	*3	1.76	1.72		mg/Kg	☼	98	66 - 115
4-Nitrophenol	<0.92	F2 *3	3.51	2.75		mg/Kg	☼	78	30 - 122

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-225077-1 MS
Matrix: Solid
Analysis Batch: 686476

Client Sample ID: 1401V3-17-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 685247

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Fluorene	<0.045	*3	1.76	1.71		mg/Kg	☼	97	62 - 120	
4-Nitroaniline	<0.45	*3	1.76	1.77		mg/Kg	☼	101	60 - 160	
4-Bromophenyl phenyl ether	<0.23	*3	1.76	1.74		mg/Kg	☼	99	68 - 118	
Hexachlorobenzene	<0.092	*3	1.76	1.74		mg/Kg	☼	99	63 - 124	
Diethyl phthalate	<0.23	*3	1.76	1.70		mg/Kg	☼	97	58 - 120	
4-Chlorophenyl phenyl ether	<0.23	*3	1.76	1.69		mg/Kg	☼	96	62 - 119	
Pentachlorophenol	<0.92	F2 *3	3.51	2.49		mg/Kg	☼	71	13 - 112	
N-Nitrosodiphenylamine	<0.23	*3	1.76	1.72		mg/Kg	☼	98	65 - 112	
4,6-Dinitro-2-methylphenol	<0.92	F2 *3	3.51	0.783	J	mg/Kg	☼	22	10 - 110	
Phenanthrene	0.028	J *3	1.76	1.78		mg/Kg	☼	100	62 - 120	
Anthracene	<0.045	*3	1.76	1.69		mg/Kg	☼	96	70 - 114	
Carbazole	<0.23	*3	1.76	1.96		mg/Kg	☼	112	65 - 142	
Di-n-butyl phthalate	<0.23	*3	1.76	1.82		mg/Kg	☼	104	65 - 120	
Fluoranthene	0.090	*3	1.76	1.88		mg/Kg	☼	102	62 - 120	
Pyrene	0.044	J F1	1.76	2.35		mg/Kg	☼	132	61 - 128	
Butyl benzyl phthalate	<0.23	F1	1.76	2.25		mg/Kg	☼	128	71 - 129	
Benzo[a]anthracene	0.028	J F1	1.76	1.99		mg/Kg	☼	111	67 - 122	
Chrysene	0.042	J	1.76	1.91		mg/Kg	☼	106	63 - 120	
3,3'-Dichlorobenzidine	<0.23		1.76	0.960		mg/Kg	☼	55	35 - 128	
Bis(2-ethylhexyl) phthalate	<0.23	F1	1.76	2.30		mg/Kg	☼	131	72 - 131	
Di-n-octyl phthalate	<0.23	*3	1.76	1.77		mg/Kg	☼	101	68 - 134	
Benzo[b]fluoranthene	0.051		1.76	2.09		mg/Kg	☼	116	69 - 129	
Benzo[k]fluoranthene	0.013	J F1	1.76	2.02		mg/Kg	☼	114	68 - 127	
Benzo[a]pyrene	0.036	J	1.76	1.81		mg/Kg	☼	101	65 - 133	
Indeno[1,2,3-cd]pyrene	0.024	J F1	1.76	1.20		mg/Kg	☼	67	68 - 130	
Dibenz(a,h)anthracene	<0.045		1.76	1.19		mg/Kg	☼	68	64 - 131	
Benzo[g,h,i]perylene	0.023	J F1	1.76	0.993		mg/Kg	☼	55	72 - 131	
3 & 4 Methylphenol	<0.23		1.76	1.90		mg/Kg	☼	108	57 - 120	

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	87		31 - 166
Phenol-d5	83		30 - 153
Nitrobenzene-d5 (Surr)	82		37 - 147
2-Fluorobiphenyl (Surr)	80		43 - 145
2,4,6-Tribromophenol	75		31 - 143
Terphenyl-d14 (Surr)	129		42 - 157

Lab Sample ID: 500-225077-1 MSD
Matrix: Solid
Analysis Batch: 686476

Client Sample ID: 1401V3-17-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 685247

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Phenol	<0.23		1.82	1.95		mg/Kg	☼	107	56 - 122	5	30	
Bis(2-chloroethyl)ether	<0.23		1.82	1.56		mg/Kg	☼	86	55 - 111	0	30	
1,3-Dichlorobenzene	<0.23		1.82	1.53		mg/Kg	☼	84	60 - 110	13	30	
1,4-Dichlorobenzene	<0.23		1.82	1.50		mg/Kg	☼	83	61 - 110	8	30	
1,2-Dichlorobenzene	<0.23		1.82	1.65		mg/Kg	☼	91	62 - 110	13	30	
2-Methylphenol	<0.23		1.82	1.99		mg/Kg	☼	109	60 - 120	6	30	

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-225077-1 MSD

Matrix: Solid

Analysis Batch: 686476

Client Sample ID: 1401V3-17-B01 (0-5)

Prep Type: Total/NA

Prep Batch: 685247

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
2,2'-oxybis[1-chloropropane]	<0.23		1.82	1.93		mg/Kg	☼	106	40 - 124	11	30
N-Nitrosodi-n-propylamine	<0.092		1.82	1.93		mg/Kg	☼	106	56 - 118	6	30
Hexachloroethane	<0.23		1.82	1.18		mg/Kg	☼	65	60 - 114	9	30
2-Chlorophenol	<0.23	*+	1.82	1.90		mg/Kg	☼	105	64 - 110	8	30
Nitrobenzene	<0.045		1.82	1.88		mg/Kg	☼	103	60 - 116	11	30
Bis(2-chloroethoxy)methane	<0.23		1.82	1.83		mg/Kg	☼	101	60 - 112	10	30
1,2,4-Trichlorobenzene	<0.23		1.82	1.71		mg/Kg	☼	94	66 - 117	17	30
Isophorone	<0.23		1.82	1.80		mg/Kg	☼	99	55 - 110	9	30
2,4-Dimethylphenol	<0.45		1.82	1.33		mg/Kg	☼	73	60 - 110	23	30
Hexachlorobutadiene	<0.23		1.82	1.39		mg/Kg	☼	77	56 - 120	25	30
Naphthalene	<0.045		1.82	1.73		mg/Kg	☼	95	63 - 110	11	30
2,4-Dichlorophenol	<0.45		1.82	1.78		mg/Kg	☼	98	58 - 120	10	30
4-Chloroaniline	<0.92	F2	1.82	0.989		mg/Kg	☼	54	30 - 150	40	30
2,4,6-Trichlorophenol	<0.45	*3	1.82	1.74		mg/Kg	☼	96	57 - 120	7	30
2,4,5-Trichlorophenol	<0.45	*3	1.82	2.00		mg/Kg	☼	110	50 - 120	10	30
Hexachlorocyclopentadiene	<0.92	F1 *3	1.82	<0.91		mg/Kg	☼	0	10 - 133	NC	30
2-Methylnaphthalene	<0.092		1.82	1.77		mg/Kg	☼	97	69 - 112	10	30
2-Nitroaniline	<0.23	*3	1.82	2.22		mg/Kg	☼	122	57 - 124	12	30
2-Chloronaphthalene	<0.23	*3	1.82	1.76		mg/Kg	☼	97	69 - 114	10	30
4-Chloro-3-methylphenol	<0.45		1.82	2.08		mg/Kg	☼	114	65 - 122	10	30
2,6-Dinitrotoluene	<0.23	*3	1.82	1.85		mg/Kg	☼	102	70 - 123	11	30
2-Nitrophenol	<0.45		1.82	1.69		mg/Kg	☼	93	60 - 120	7	30
3-Nitroaniline	<0.45	*3	1.82	1.88		mg/Kg	☼	104	40 - 122	20	30
Dimethyl phthalate	<0.23	*3	1.82	1.86		mg/Kg	☼	102	69 - 116	11	30
2,4-Dinitrophenol	<0.92	*3	3.64	0.810	J	mg/Kg	☼	22	10 - 100	26	30
Acenaphthylene	<0.045	*3	1.82	1.85		mg/Kg	☼	102	68 - 120	9	30
2,4-Dinitrotoluene	<0.23	*3	1.82	1.99		mg/Kg	☼	109	69 - 124	15	30
Acenaphthene	<0.045	*3	1.82	1.85		mg/Kg	☼	102	65 - 124	9	30
Dibenzofuran	<0.23	*3	1.82	1.93		mg/Kg	☼	106	66 - 115	11	30
4-Nitrophenol	<0.92	F2 *3	3.64	2.02		mg/Kg	☼	55	30 - 122	31	30
Fluorene	<0.045	*3	1.82	1.90		mg/Kg	☼	104	62 - 120	10	30
4-Nitroaniline	<0.45	*3	1.82	1.98		mg/Kg	☼	109	60 - 160	11	30
4-Bromophenyl phenyl ether	<0.23	*3	1.82	1.89		mg/Kg	☼	104	68 - 118	8	30
Hexachlorobenzene	<0.092	*3	1.82	1.91		mg/Kg	☼	105	63 - 124	9	30
Diethyl phthalate	<0.23	*3	1.82	1.90		mg/Kg	☼	105	58 - 120	11	30
4-Chlorophenyl phenyl ether	<0.23	*3	1.82	1.90		mg/Kg	☼	104	62 - 119	12	30
Pentachlorophenol	<0.92	F2 *3	3.64	1.78		mg/Kg	☼	49	13 - 112	33	30
N-Nitrosodiphenylamine	<0.23	*3	1.82	1.83		mg/Kg	☼	101	65 - 112	6	30
4,6-Dinitro-2-methylphenol	<0.92	F2 *3	3.64	0.416	J	mg/Kg	☼	11	10 - 110	61	30
Phenanthrene	0.028	J *3	1.82	1.98		mg/Kg	☼	107	62 - 120	11	30
Anthracene	<0.045	*3	1.82	1.92		mg/Kg	☼	106	70 - 114	13	30
Carbazole	<0.23	*3	1.82	2.14		mg/Kg	☼	118	65 - 142	9	30
Di-n-butyl phthalate	<0.23	*3	1.82	1.97		mg/Kg	☼	109	65 - 120	8	30
Fluoranthene	0.090	*3	1.82	2.13		mg/Kg	☼	112	62 - 120	12	30
Pyrene	0.044	J F1	1.82	2.72		mg/Kg	☼	147	61 - 128	14	30
Butyl benzyl phthalate	<0.23	F1	1.82	2.56		mg/Kg	☼	141	71 - 129	13	30
Benzo[a]anthracene	0.028	J F1	1.82	2.26		mg/Kg	☼	123	67 - 122	13	30
Chrysene	0.042	J	1.82	2.16		mg/Kg	☼	116	63 - 120	12	30
3,3'-Dichlorobenzidine	<0.23		1.82	1.21		mg/Kg	☼	66	35 - 128	23	30

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-225077-1 MSD

Matrix: Solid

Analysis Batch: 686476

Client Sample ID: 1401V3-17-B01 (0-5)

Prep Type: Total/NA

Prep Batch: 685247

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD		
Bis(2-ethylhexyl) phthalate	<0.23	F1	1.82	2.64		mg/Kg	⊛	145	72 - 131	14	30	
Di-n-octyl phthalate	<0.23	*3	1.82	1.95		mg/Kg	⊛	107	68 - 134	9	30	
Benzo[b]fluoranthene	0.051		1.82	2.37		mg/Kg	⊛	128	69 - 129	13	30	
Benzo[k]fluoranthene	0.013	J F1	1.82	2.34		mg/Kg	⊛	128	68 - 127	15	30	
Benzo[a]pyrene	0.036	J	1.82	2.06		mg/Kg	⊛	111	65 - 133	13	30	
Indeno[1,2,3-cd]pyrene	0.024	J F1	1.82	1.33		mg/Kg	⊛	72	68 - 130	10	30	
Dibenz(a,h)anthracene	<0.045		1.82	1.31		mg/Kg	⊛	72	64 - 131	9	30	
Benzo[g,h,i]perylene	0.023	J F1	1.82	1.08		mg/Kg	⊛	58	72 - 131	8	30	
3 & 4 Methylphenol	<0.23		1.82	1.96		mg/Kg	⊛	108	57 - 120	3	30	

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorophenol	95		31 - 166
Phenol-d5	87		30 - 153
Nitrobenzene-d5 (Surr)	92		37 - 147
2-Fluorobiphenyl (Surr)	91		43 - 145
2,4,6-Tribromophenol	85		31 - 143
Terphenyl-d14 (Surr)	146		42 - 157

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-684787/2-A

Matrix: Solid

Analysis Batch: 685243

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 684787

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec	
		Result	Qualifier				Limits	RPD
Barium	0.500	0.496	J	mg/L		99	80 - 120	
Beryllium	0.0500	0.0460		mg/L		92	80 - 120	
Boron	1.00	0.912		mg/L		91	80 - 120	
Cadmium	0.0500	0.0503		mg/L		101	80 - 120	
Chromium	0.200	0.189		mg/L		95	80 - 120	
Cobalt	0.500	0.490		mg/L		98	80 - 120	
Iron	1.00	1.02		mg/L		102	80 - 120	
Lead	0.100	0.0931		mg/L		93	80 - 120	
Manganese	0.500	0.475		mg/L		95	80 - 120	
Nickel	0.500	0.480		mg/L		96	80 - 120	
Selenium	0.100	0.109		mg/L		109	80 - 120	
Silver	0.0500	0.0543		mg/L		109	80 - 120	
Zinc	0.500	0.506		mg/L		101	80 - 120	

Lab Sample ID: LCS 500-684789/2-A

Matrix: Solid

Analysis Batch: 685530

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 684789

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec	
		Result	Qualifier				Limits	RPD
Manganese	0.500	0.488		mg/L		98	80 - 120	

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 500-684800/1-A
Matrix: Solid
Analysis Batch: 685232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 684800

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg		11/14/22 09:30	11/15/22 21:33	1
Arsenic	<1.0		1.0	0.34	mg/Kg		11/14/22 09:30	11/15/22 21:33	1
Barium	<1.0		1.0	0.11	mg/Kg		11/14/22 09:30	11/15/22 21:33	1
Beryllium	<0.40	^+	0.40	0.093	mg/Kg		11/14/22 09:30	11/15/22 21:33	1
Boron	<5.0		5.0	0.47	mg/Kg		11/14/22 09:30	11/15/22 21:33	1
Cadmium	0.0609	J	0.20	0.036	mg/Kg		11/14/22 09:30	11/15/22 21:33	1
Calcium	31.5		20	3.4	mg/Kg		11/14/22 09:30	11/15/22 21:33	1
Chromium	<1.0		1.0	0.50	mg/Kg		11/14/22 09:30	11/15/22 21:33	1
Cobalt	<0.50		0.50	0.13	mg/Kg		11/14/22 09:30	11/15/22 21:33	1
Copper	<1.0		1.0	0.28	mg/Kg		11/14/22 09:30	11/15/22 21:33	1
Iron	10.3	J	20	10	mg/Kg		11/14/22 09:30	11/15/22 21:33	1
Lead	<0.50		0.50	0.23	mg/Kg		11/14/22 09:30	11/15/22 21:33	1
Magnesium	12.8		10	5.0	mg/Kg		11/14/22 09:30	11/15/22 21:33	1
Manganese	0.193	J	1.0	0.15	mg/Kg		11/14/22 09:30	11/15/22 21:33	1
Nickel	<1.0		1.0	0.29	mg/Kg		11/14/22 09:30	11/15/22 21:33	1
Potassium	<50		50	18	mg/Kg		11/14/22 09:30	11/15/22 21:33	1
Selenium	<1.0		1.0	0.59	mg/Kg		11/14/22 09:30	11/15/22 21:33	1
Silver	<0.50		0.50	0.13	mg/Kg		11/14/22 09:30	11/15/22 21:33	1
Sodium	<100		100	15	mg/Kg		11/14/22 09:30	11/15/22 21:33	1
Thallium	<1.0		1.0	0.50	mg/Kg		11/14/22 09:30	11/15/22 21:33	1
Vanadium	<0.50		0.50	0.12	mg/Kg		11/14/22 09:30	11/15/22 21:33	1
Zinc	<2.0		2.0	0.88	mg/Kg		11/14/22 09:30	11/15/22 21:33	1

Lab Sample ID: LCS 500-684800/2-A
Matrix: Solid
Analysis Batch: 685232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	44.1		mg/Kg		88	80 - 120
Arsenic	10.0	8.97		mg/Kg		90	80 - 120
Barium	200	196		mg/Kg		98	80 - 120
Beryllium	5.00	4.69	^+	mg/Kg		94	80 - 120
Boron	100	80.7		mg/Kg		81	80 - 120
Cadmium	5.00	4.50		mg/Kg		90	80 - 120
Calcium	1000	928		mg/Kg		93	80 - 120
Chromium	20.0	19.2		mg/Kg		96	80 - 120
Cobalt	50.0	48.9		mg/Kg		98	80 - 120
Copper	25.0	23.9		mg/Kg		96	80 - 120
Iron	100	97.0		mg/Kg		97	80 - 120
Lead	10.0	8.93		mg/Kg		89	80 - 120
Magnesium	1000	922		mg/Kg		92	80 - 120
Manganese	50.0	46.7		mg/Kg		93	80 - 120
Nickel	50.0	47.1		mg/Kg		94	80 - 120
Potassium	1000	962		mg/Kg		96	80 - 120
Silver	5.00	4.32		mg/Kg		86	80 - 120
Sodium	1000	1020		mg/Kg		102	80 - 120
Thallium	10.0	8.61		mg/Kg		86	80 - 120
Vanadium	50.0	49.2		mg/Kg		98	80 - 120
Zinc	50.0	47.5		mg/Kg		95	80 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-684800/2-A ^2
Matrix: Solid
Analysis Batch: 685514

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	10.0	8.56		mg/Kg		86	80 - 120

Lab Sample ID: LB 500-684530/1-B
Matrix: Solid
Analysis Batch: 685243

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 684787

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		11/14/22 08:37	11/15/22 17:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/14/22 08:37	11/15/22 17:59	1
Boron	<0.50		0.50	0.050	mg/L		11/14/22 08:37	11/15/22 17:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/14/22 08:37	11/15/22 17:59	1
Chromium	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 17:59	1
Cobalt	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 17:59	1
Iron	<0.40		0.40	0.20	mg/L		11/14/22 08:37	11/15/22 17:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/14/22 08:37	11/15/22 17:59	1
Manganese	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 17:59	1
Nickel	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 17:59	1
Selenium	<0.050		0.050	0.020	mg/L		11/14/22 08:37	11/15/22 17:59	1
Silver	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 17:59	1
Zinc	<0.50		0.50	0.020	mg/L		11/14/22 08:37	11/15/22 17:59	1

Lab Sample ID: LB 500-684557/1-B
Matrix: Solid
Analysis Batch: 685530

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 684789

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		11/14/22 08:41	11/16/22 18:26	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-684787/2-A
Matrix: Solid
Analysis Batch: 685028

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684787

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.493		mg/L		99	80 - 120
Thallium	0.100	0.115		mg/L		115	80 - 120

Lab Sample ID: LB 500-684530/1-B
Matrix: Solid
Analysis Batch: 685028

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 684787

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/14/22 08:37	11/14/22 16:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/14/22 08:37	11/14/22 16:41	1

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-685091/12-A
Matrix: Solid
Analysis Batch: 685348

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685091

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/15/22 14:35	11/16/22 11:30	1

Lab Sample ID: LCS 500-685091/14-A
Matrix: Solid
Analysis Batch: 685348

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685091

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00215		mg/L		108	80 - 120

Lab Sample ID: LB 500-684530/1-C
Matrix: Solid
Analysis Batch: 685348

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685091

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/15/22 14:35	11/16/22 11:32	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-685367/12-A
Matrix: Solid
Analysis Batch: 685535

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685367

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		11/16/22 16:15	11/17/22 07:00	1

Lab Sample ID: LCS 500-685367/13-A
Matrix: Solid
Analysis Batch: 685535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685367

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.165		mg/Kg		100	80 - 120

Method: 9045D - pH

Lab Sample ID: 500-225077-E-1 DU
Matrix: Solid
Analysis Batch: 685174

Client Sample ID: 500-225077-E-1 DU
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	6.2		6.3		SU		1	

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Client Sample ID: 1401V3-17-B01 (0-5)

Lab Sample ID: 500-225077-1

Date Collected: 11/08/22 11:05

Matrix: Solid

Date Received: 11/08/22 17:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			684557	OAJ	EET CHI	11/11/22 11:34 - 11/12/22 05:34 ¹
SPLP East	Prep	3010A			684789	BDE	EET CHI	11/14/22 08:41 - 11/14/22 09:11 ¹
SPLP East	Analysis	6010B		1	685530	JJB	EET CHI	11/16/22 18:32
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6010B		1	685243	JJB	EET CHI	11/15/22 18:06
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6020A		1	685028	FXG	EET CHI	11/14/22 16:45
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	7470A			685091	MJG	EET CHI	11/15/22 14:35 - 11/15/22 16:35 ¹
TCLP	Analysis	7470A		1	685348	MJG	EET CHI	11/16/22 11:36
Total/NA	Analysis	9045D		1	685250	EH	EET CHI	11/16/22 11:03 - 11/16/22 11:14 ¹
Total/NA	Analysis	Moisture		1	684487	LWN	EET CHI	11/11/22 10:13

Client Sample ID: 1401V3-17-B01 (0-5)

Lab Sample ID: 500-225077-1

Date Collected: 11/08/22 11:05

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 72.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684629	WRE	EET CHI	11/09/22 18:36
Total/NA	Analysis	8260B		1	684607	W1T	EET CHI	11/12/22 14:40
Total/NA	Prep	3541	DL		685247	KN	EET CHI	11/16/22 08:57 - 11/16/22 15:30 ¹
Total/NA	Analysis	8270D	DL	2	686476	SS	EET CHI	11/22/22 20:10
Total/NA	Prep	3541			685247	KN	EET CHI	11/16/22 08:57 - 11/16/22 15:30 ¹
Total/NA	Analysis	8270D		1	686244	SS	EET CHI	11/21/22 14:12
Total/NA	Prep	3050B			684800	BDE	EET CHI	11/14/22 09:30 - 11/14/22 10:00 ¹
Total/NA	Analysis	6010B		1	685232	JJB	EET CHI	11/15/22 22:51
Total/NA	Prep	3050B			684800	BDE	EET CHI	11/14/22 09:30 - 11/14/22 10:00 ¹
Total/NA	Analysis	6010B		1	685514	JJB	EET CHI	11/16/22 12:46
Total/NA	Prep	7471B			685367	MJG	EET CHI	11/16/22 16:15
Total/NA	Analysis	7471B		1	685535	MJG	EET CHI	11/17/22 07:03

Client Sample ID: 1401V3-17-B01 (5-9)

Lab Sample ID: 500-225077-2

Date Collected: 11/08/22 11:08

Matrix: Solid

Date Received: 11/08/22 17:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			684557	OAJ	EET CHI	11/11/22 11:34 - 11/12/22 05:34 ¹
SPLP East	Prep	3010A			684789	BDE	EET CHI	11/14/22 08:41 - 11/14/22 09:11 ¹
SPLP East	Analysis	6010B		1	685530	JJB	EET CHI	11/16/22 18:35
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6010B		1	685243	JJB	EET CHI	11/15/22 18:09

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Client Sample ID: 1401V3-17-B01 (5-9)

Lab Sample ID: 500-225077-2

Date Collected: 11/08/22 11:08

Matrix: Solid

Date Received: 11/08/22 17:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6020A		1	685028	FXG	EET CHI	11/14/22 16:47
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	7470A			685091	MJG	EET CHI	11/15/22 14:35 - 11/15/22 16:35 ¹
TCLP	Analysis	7470A		1	685348	MJG	EET CHI	11/16/22 11:39
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 19:19
Total/NA	Analysis	Moisture		1	684487	LWN	EET CHI	11/11/22 10:13

Client Sample ID: 1401V3-17-B01 (5-9)

Lab Sample ID: 500-225077-2

Date Collected: 11/08/22 11:08

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684629	WRE	EET CHI	11/09/22 18:36
Total/NA	Analysis	8260B		1	684607	W1T	EET CHI	11/12/22 15:05
Total/NA	Prep	3541			685247	KN	EET CHI	11/16/22 08:57 - 11/16/22 15:30 ¹
Total/NA	Analysis	8270D		1	686244	SS	EET CHI	11/21/22 16:59
Total/NA	Prep	3050B			684800	BDE	EET CHI	11/14/22 09:30 - 11/14/22 10:00 ¹
Total/NA	Analysis	6010B		1	685232	JJB	EET CHI	11/15/22 22:54
Total/NA	Prep	3050B			684800	BDE	EET CHI	11/14/22 09:30 - 11/14/22 10:00 ¹
Total/NA	Analysis	6010B		1	685514	JJB	EET CHI	11/16/22 12:55
Total/NA	Prep	7471B			685367	MJG	EET CHI	11/16/22 16:15
Total/NA	Analysis	7471B		1	685535	MJG	EET CHI	11/17/22 07:06

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225077-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225077-1

Login Number: 225077

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5,5.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



Generated
11/23/2022 5:24:55 PM

Authorized for release by
Richard Wright, Senior Project Manager
Richard.Wright@et.eurofinsus.com
(708)746-0045



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 365 & FAP 870 (Butterfield Road) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

3 S 100 IL 53 (ISGS #1401V3-18)

City: Glen Ellyn State: IL Zip Code: 60137

County: DuPage Township: Milton

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.82864 Longitude: -88.05626
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: 0430455123 BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): _____ Approximate End Date (mm/dd/yyyy): _____

Estimated Volume of debris (cu. Yd.): 507

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov



This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Analytical Data Summary
PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

Key to Data Tables

- MAC = Maximum Allowable Concentration of Chemical Constituent in Uncontaminated Soil Used as Fill Material At Regulated Fill Operations
- mg/kg = Milligrams per kilogram.
- mg/L = Milligrams per liter.
- MSA = Metropolitan Statistical Area
- TACO = Tiered Approach to Corrective Action Objectives
- TCLP = Toxicity Characteristic Leaching Procedure.
- SCGIER = Soil Component of the Groundwater Ingestion Exposure Route
- SPLP = Synthetic Precipitation Leaching Procedure.
- ND = Not detected.
- NA = Not analyzed or not applicable.
- J = Estimated value.
- U = Analyte was analyzed for but not detected.
- PID = Photoionization detector.
- = No PID readings detected above background (within instrument margin of error).

Criteria Qualifiers and Shading

- # = pH is less than 6.25 or greater than 9.0 standard units.
- † = Concentration exceeds the most stringent MAC.
- m = Concentration exceeds the MAC for an MSA.
- * = Concentration exceeds the MAC for Chicago corporate limits.
- c = Concentration exceeds a TACO Tier 1 RO for the Construction Worker Exposure Route.
- r = Concentration exceeds a TACO Tier 1 soil RO for residential properties.
- L = The detected TCLP/SPLP concentration exceeds the TACO Tier 1 RO for the SCGIER.
-  = Concentration exceeds the most stringent MAC, but is below the MAC for an MSA.
-  = Concentration exceeds applicable comparison criteria.

PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

CONTAMINANTS OF CONCERN

SITE	ISGS #1401V3-18 (Walmart)		Comparison Criteria					
	1401V3-18-B02	1401V3-18-B05	MACs			TACO		
BORING	1401V3-18-B02	1401V3-18-B05	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1401V3-18-B02 (0-5)	1401V3-18-B05 (0-5)						
MATRIX	Soil	Soil						
DEPTH (feet)	0-5	0-5						
pH	6.8	7.0						
PID (meter units)	--	--						
VOCs (None Detected)								
SVOCs (None Detected)								
Inorganics (mg/kg)								
Antimony	0.49 J	ND U	5	--	--	31	82	--
Arsenic	12 †	11	11.3	13	--	13	61	--
Barium	50	82	1,500	--	--	5,500	14,000	--
Beryllium	1.0	0.91	22	--	--	160	410	--
Boron	9.2	4.4	40	--	--	16,000	41,000	--
Cadmium	0.15	0.11 J	5.2	--	--	78	200	--
Calcium	1,900	2,100	--	--	--	--	--	--
Chromium	21	20	21	--	--	230	690	--
Cobalt	12	11	20	--	--	4,700	12,000	--
Copper	32	19	2,900	--	--	2,900	8,200	--
Iron	28,000 †m	24,000 †m	15,000	15,900	--	--	--	--
Lead	18	15	107	--	--	400	700	--
Magnesium	4,500	3,600	325,000	--	--	--	730,000	--
Manganese	260	530	630	636	--	1,600	4,100	--
Mercury	0.028	0.054	0.89	--	--	10	0.1	--
Nickel	35	19	100	--	--	1,600	4,100	--
Potassium	2,600	1,400	--	--	--	--	--	--
Silver	0.41	0.32	4.4	--	--	390	1,000	--
Sodium	110	730	--	--	--	--	--	--
Thallium	0.45 J	0.40 J	2.6	--	--	6.3	160	--
Vanadium	25	36	550	--	--	550	1,400	--
Zinc	78	61	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)								
Barium	0.14 J	0.28 J	--	--	--	--	--	2
Iron	0.37 J	ND U	--	--	--	--	--	5
Manganese	0.050	0.028	--	--	--	--	--	0.15
SPLP Metals (Not Analyzed)								

ANALYTICAL REPORT

PREPARED FOR

Attn: Dean Tiebot
WSP USA Inc.
30 North LaSalle Street
Chicago Illinois 60602

Generated 11/23/2022 11:38:49 AM

JOB DESCRIPTION

IDOT - 196-002-WO 13 IL 56

JOB NUMBER

500-225078-1



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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Job ID: 500-225078-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225078-1

Receipt

The samples were received on 11/8/2022 5:09 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.5° C and 5.0° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The laboratory control sample (LCS) for preparation batch 500-685247 and analytical batch 500-686244 recovered outside control limits for the following analytes: 2-Chlorophenol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270D: Perylene-d12 Internal standard (ISTD) response for the following samples was outside of acceptance limits: 1401V3-18-B05 (0-5) (500-225078-5), 1401V3-18-B06 (0-5) (500-225078-6) and 1401V3-18-B06 (0-5)D (500-225078-7). Analytes associated to this internal standard were non-detect and/or below the reporting limit; therefore, re-analysis was not performed.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-686244 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-686244 was outside the method criteria for the following analyte(s): Benzo[g,h,i]perylene, Di-n-octyl phthalate, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-686470 was outside the method criteria for the following analyte(s): 2,4,5-Trichlorophenol, 2-Fluorobiphenyl (Surr), Acenaphthene, Benzo[g,h,i]perylene, Dibenz(a,h)anthracene, Hexachlorobutadiene and Indeno[1,2,3-cd]pyrene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-686470 was outside the method criteria for the following analyte(s): 4-Nitrophenol, Hexachlorocyclopentadiene and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The following sample was diluted due to the nature of the sample matrix: 1401V3-18-B03 (0-5) (500-225078-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

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Client Sample ID: 1401V3-18-B02 (0-5)

Lab Sample ID: 500-225078-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Antimony	0.49	J	1.2	0.23	mg/Kg	1	⊗		6010B	Total/NA
Arsenic	12		0.60	0.21	mg/Kg	1	⊗		6010B	Total/NA
Barium	50		0.60	0.069	mg/Kg	1	⊗		6010B	Total/NA
Beryllium	1.0		0.24	0.056	mg/Kg	1	⊗		6010B	Total/NA
Boron	9.2		3.0	0.28	mg/Kg	1	⊗		6010B	Total/NA
Cadmium	0.15		0.12	0.022	mg/Kg	1	⊗		6010B	Total/NA
Calcium	1900		12	2.0	mg/Kg	1	⊗		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Client Sample ID: 1401V3-18-B02 (0-5) (Continued)

Lab Sample ID: 500-225078-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	21		0.60	0.30	mg/Kg	1	✳	6010B	Total/NA
Cobalt	12		0.30	0.079	mg/Kg	1	✳	6010B	Total/NA
Copper	32		0.60	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	28000		12	6.3	mg/Kg	1	✳	6010B	Total/NA
Lead	18		0.30	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	4500		6.0	3.0	mg/Kg	1	✳	6010B	Total/NA
Manganese	260		0.60	0.087	mg/Kg	1	✳	6010B	Total/NA
Nickel	35		0.60	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	2600		30	11	mg/Kg	1	✳	6010B	Total/NA
Silver	0.41		0.30	0.078	mg/Kg	1	✳	6010B	Total/NA
Sodium	110		60	8.9	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.45	J	0.60	0.30	mg/Kg	1	✳	6010B	Total/NA
Vanadium	25		0.30	0.071	mg/Kg	1	✳	6010B	Total/NA
Zinc	78		1.2	0.53	mg/Kg	1	✳	6010B	Total/NA
Barium	0.14	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.37	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	0.050		0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.028		0.018	0.0059	mg/Kg	1	✳	7471B	Total/NA
pH	6.8		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

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Client Sample ID: 1401V3-18-B05 (0-5)

Lab Sample ID: 500-225078-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		0.59	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	82		0.59	0.067	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.91		0.24	0.055	mg/Kg	1	✳	6010B	Total/NA
Boron	4.4		2.9	0.27	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.11	J	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Client Sample ID: 1401V3-18-B05 (0-5) (Continued)

Lab Sample ID: 500-225078-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Calcium	2100		12	2.0	mg/Kg	1	✳		6010B	Total/NA
Chromium	20		0.59	0.29	mg/Kg	1	✳		6010B	Total/NA
Cobalt	11		0.29	0.077	mg/Kg	1	✳		6010B	Total/NA
Copper	19		0.59	0.16	mg/Kg	1	✳		6010B	Total/NA
Iron	24000		12	6.1	mg/Kg	1	✳		6010B	Total/NA
Lead	15		0.29	0.14	mg/Kg	1	✳		6010B	Total/NA
Magnesium	3600		5.9	2.9	mg/Kg	1	✳		6010B	Total/NA
Manganese	530		0.59	0.085	mg/Kg	1	✳		6010B	Total/NA
Nickel	19		0.59	0.17	mg/Kg	1	✳		6010B	Total/NA
Potassium	1400		29	10	mg/Kg	1	✳		6010B	Total/NA
Silver	0.32		0.29	0.076	mg/Kg	1	✳		6010B	Total/NA
Sodium	730		59	8.7	mg/Kg	1	✳		6010B	Total/NA
Thallium	0.40	J	0.59	0.29	mg/Kg	1	✳		6010B	Total/NA
Vanadium	36		0.29	0.070	mg/Kg	1	✳		6010B	Total/NA
Zinc	61		1.2	0.52	mg/Kg	1	✳		6010B	Total/NA
Barium	0.28	J	0.50	0.050	mg/L	1			6010B	TCLP
Manganese	0.028		0.025	0.010	mg/L	1			6010B	TCLP
Mercury	0.054		0.019	0.0064	mg/Kg	1	✳		7471B	Total/NA
pH	7.0		0.2	0.2	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010B	Metals (ICP)	SW846	EET CHI
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225078-2	1401V3-18-B02 (0-5)	Solid	11/08/22 12:05	11/08/22 17:09
500-225078-5	1401V3-18-B05 (0-5)	Solid	11/08/22 12:45	11/08/22 17:09

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Client Sample ID: 1401V3-18-B02 (0-5)

Lab Sample ID: 500-225078-2

Date Collected: 11/08/22 12:05

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 82.9

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0074	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	11/09/22 18:36	11/12/22 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		75 - 131	11/09/22 18:36	11/12/22 15:54	1
Dibromofluoromethane	101		75 - 126	11/09/22 18:36	11/12/22 15:54	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	11/09/22 18:36	11/12/22 15:54	1
Toluene-d8 (Surr)	96		75 - 124	11/09/22 18:36	11/12/22 15:54	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Client Sample ID: 1401V3-18-B02 (0-5)

Lab Sample ID: 500-225078-2

Date Collected: 11/08/22 12:05

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 82.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
2-Chlorophenol	<0.20	+	0.20	0.068	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Client Sample ID: 1401V3-18-B02 (0-5)

Lab Sample ID: 500-225078-2

Date Collected: 11/08/22 12:05

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 82.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	11/16/22 08:57	11/21/22 17:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	129		31 - 166	11/16/22 08:57	11/21/22 17:45	1
Phenol-d5	99		30 - 153	11/16/22 08:57	11/21/22 17:45	1
Nitrobenzene-d5 (Surr)	84		37 - 147	11/16/22 08:57	11/21/22 17:45	1
2-Fluorobiphenyl (Surr)	91		43 - 145	11/16/22 08:57	11/21/22 17:45	1
2,4,6-Tribromophenol	108		31 - 143	11/16/22 08:57	11/21/22 17:45	1
Terphenyl-d14 (Surr)	109		42 - 157	11/16/22 08:57	11/21/22 17:45	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.49	J	1.2	0.23	mg/Kg	☼	11/15/22 09:12	11/17/22 20:56	1
Arsenic	12		0.60	0.21	mg/Kg	☼	11/15/22 09:12	11/17/22 20:56	1
Barium	50		0.60	0.069	mg/Kg	☼	11/15/22 09:12	11/17/22 20:56	1
Beryllium	1.0		0.24	0.056	mg/Kg	☼	11/15/22 09:12	11/17/22 20:56	1
Boron	9.2		3.0	0.28	mg/Kg	☼	11/15/22 09:12	11/17/22 20:56	1
Cadmium	0.15		0.12	0.022	mg/Kg	☼	11/15/22 09:12	11/17/22 20:56	1
Calcium	1900		12	2.0	mg/Kg	☼	11/15/22 09:12	11/17/22 20:56	1
Chromium	21		0.60	0.30	mg/Kg	☼	11/15/22 09:12	11/17/22 20:56	1
Cobalt	12		0.30	0.079	mg/Kg	☼	11/15/22 09:12	11/17/22 20:56	1
Copper	32		0.60	0.17	mg/Kg	☼	11/15/22 09:12	11/17/22 20:56	1
Iron	28000		12	6.3	mg/Kg	☼	11/15/22 09:12	11/17/22 20:56	1
Lead	18		0.30	0.14	mg/Kg	☼	11/15/22 09:12	11/17/22 20:56	1
Magnesium	4500		6.0	3.0	mg/Kg	☼	11/15/22 09:12	11/17/22 20:56	1
Manganese	260		0.60	0.087	mg/Kg	☼	11/15/22 09:12	11/17/22 20:56	1
Nickel	35		0.60	0.17	mg/Kg	☼	11/15/22 09:12	11/17/22 20:56	1
Potassium	2600		30	11	mg/Kg	☼	11/15/22 09:12	11/17/22 20:56	1
Selenium	<0.60		0.60	0.35	mg/Kg	☼	11/15/22 09:12	11/17/22 20:56	1
Silver	0.41		0.30	0.078	mg/Kg	☼	11/15/22 09:12	11/17/22 20:56	1
Sodium	110		60	8.9	mg/Kg	☼	11/15/22 09:12	11/17/22 20:56	1
Thallium	0.45	J	0.60	0.30	mg/Kg	☼	11/15/22 09:12	11/17/22 20:56	1
Vanadium	25		0.30	0.071	mg/Kg	☼	11/15/22 09:12	11/17/22 20:56	1
Zinc	78		1.2	0.53	mg/Kg	☼	11/15/22 09:12	11/17/22 20:56	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.14	J	0.50	0.050	mg/L		11/14/22 08:37	11/15/22 18:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/14/22 08:37	11/15/22 18:15	1
Boron	<0.50		0.50	0.050	mg/L		11/14/22 08:37	11/15/22 18:15	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Client Sample ID: 1401V3-18-B02 (0-5)

Lab Sample ID: 500-225078-2

Date Collected: 11/08/22 12:05

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 82.9

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/14/22 08:37	11/15/22 18:15	1
Chromium	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:15	1
Cobalt	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:15	1
Iron	0.37	J	0.40	0.20	mg/L		11/14/22 08:37	11/15/22 18:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/14/22 08:37	11/15/22 18:15	1
Manganese	0.050		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:15	1
Nickel	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:15	1
Selenium	<0.050		0.050	0.020	mg/L		11/14/22 08:37	11/15/22 18:15	1
Silver	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:15	1
Zinc	<0.50		0.50	0.020	mg/L		11/14/22 08:37	11/15/22 18:15	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/14/22 08:37	11/14/22 16:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/14/22 08:37	11/14/22 16:51	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/15/22 14:35	11/16/22 11:43	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.018	0.0059	mg/Kg	☼	11/17/22 15:25	11/18/22 08:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.8		0.2	0.2	SU			11/15/22 19:48	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Client Sample ID: 1401V3-18-B05 (0-5)

Lab Sample ID: 500-225078-5

Date Collected: 11/08/22 12:45

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 84.8

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0072	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
Bromomethane	<0.0041		0.0041	0.0016	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
Carbon disulfide	<0.0041		0.0041	0.00086	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
Carbon tetrachloride	<0.0016		0.0016	0.00048	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
Chlorobenzene	<0.0016		0.0016	0.00061	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
Chloroform	<0.0016		0.0016	0.00057	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
Chloromethane	<0.0041		0.0041	0.0017	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00046	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00050	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
Dibromochloromethane	<0.0016		0.0016	0.00054	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
1,1-Dichloroethene	<0.0016		0.0016	0.00057	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
1,2-Dichloropropane	<0.0016		0.0016	0.00043	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00058	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
Ethylbenzene	<0.0016		0.0016	0.00079	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
Styrene	<0.0016		0.0016	0.00050	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
Tetrachloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
Toluene	<0.0016		0.0016	0.00042	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00073	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00058	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00071	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
Trichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
Vinyl acetate	<0.0041		0.0041	0.0014	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
Vinyl chloride	<0.0016		0.0016	0.00073	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	11/09/22 18:36	11/12/22 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		75 - 131	11/09/22 18:36	11/12/22 18:03	1
Dibromofluoromethane	106		75 - 126	11/09/22 18:36	11/12/22 18:03	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	11/09/22 18:36	11/12/22 18:03	1
Toluene-d8 (Surr)	106		75 - 124	11/09/22 18:36	11/12/22 18:03	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Client Sample ID: 1401V3-18-B05 (0-5)

Lab Sample ID: 500-225078-5

Date Collected: 11/08/22 12:45

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 84.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.048	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
2-Chlorophenol	<0.20	+	0.20	0.066	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
2-Methylnaphthalene	<0.078		0.078	0.0072	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Client Sample ID: 1401V3-18-B05 (0-5)

Lab Sample ID: 500-225078-5

Date Collected: 11/08/22 12:45

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 84.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Benzo[b]fluoranthene	<0.039	*3	0.039	0.0084	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Benzo[k]fluoranthene	<0.039	*3	0.039	0.011	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Benzo[a]pyrene	<0.039	*3	0.039	0.0075	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Indeno[1,2,3-cd]pyrene	<0.039	*3	0.039	0.010	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Dibenz(a,h)anthracene	<0.039	*3	0.039	0.0075	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
Benzo[g,h,i]perylene	<0.039	*3	0.039	0.013	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	11/16/22 08:57	11/21/22 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	162		31 - 166	11/16/22 08:57	11/21/22 18:54	1
Phenol-d5	104		30 - 153	11/16/22 08:57	11/21/22 18:54	1
Nitrobenzene-d5 (Surr)	85		37 - 147	11/16/22 08:57	11/21/22 18:54	1
2-Fluorobiphenyl (Surr)	95		43 - 145	11/16/22 08:57	11/21/22 18:54	1
2,4,6-Tribromophenol	115		31 - 143	11/16/22 08:57	11/21/22 18:54	1
Terphenyl-d14 (Surr)	138		42 - 157	11/16/22 08:57	11/21/22 18:54	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	11/15/22 09:12	11/17/22 21:12	1
Arsenic	11		0.59	0.20	mg/Kg	☼	11/15/22 09:12	11/17/22 21:12	1
Barium	82		0.59	0.067	mg/Kg	☼	11/15/22 09:12	11/17/22 21:12	1
Beryllium	0.91		0.24	0.055	mg/Kg	☼	11/15/22 09:12	11/17/22 21:12	1
Boron	4.4		2.9	0.27	mg/Kg	☼	11/15/22 09:12	11/17/22 21:12	1
Cadmium	0.11	J	0.12	0.021	mg/Kg	☼	11/15/22 09:12	11/17/22 21:12	1
Calcium	2100		12	2.0	mg/Kg	☼	11/15/22 09:12	11/17/22 21:12	1
Chromium	20		0.59	0.29	mg/Kg	☼	11/15/22 09:12	11/17/22 21:12	1
Cobalt	11		0.29	0.077	mg/Kg	☼	11/15/22 09:12	11/17/22 21:12	1
Copper	19		0.59	0.16	mg/Kg	☼	11/15/22 09:12	11/17/22 21:12	1
Iron	24000		12	6.1	mg/Kg	☼	11/15/22 09:12	11/17/22 21:12	1
Lead	15		0.29	0.14	mg/Kg	☼	11/15/22 09:12	11/17/22 21:12	1
Magnesium	3600		5.9	2.9	mg/Kg	☼	11/15/22 09:12	11/17/22 21:12	1
Manganese	530		0.59	0.085	mg/Kg	☼	11/15/22 09:12	11/17/22 21:12	1
Nickel	19		0.59	0.17	mg/Kg	☼	11/15/22 09:12	11/17/22 21:12	1
Potassium	1400		29	10	mg/Kg	☼	11/15/22 09:12	11/17/22 21:12	1
Selenium	<0.59		0.59	0.35	mg/Kg	☼	11/15/22 09:12	11/17/22 21:12	1
Silver	0.32		0.29	0.076	mg/Kg	☼	11/15/22 09:12	11/17/22 21:12	1
Sodium	730		59	8.7	mg/Kg	☼	11/15/22 09:12	11/17/22 21:12	1
Thallium	0.40	J	0.59	0.29	mg/Kg	☼	11/15/22 09:12	11/17/22 21:12	1
Vanadium	36		0.29	0.070	mg/Kg	☼	11/15/22 09:12	11/17/22 21:12	1
Zinc	61		1.2	0.52	mg/Kg	☼	11/15/22 09:12	11/17/22 21:12	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.28	J	0.50	0.050	mg/L		11/14/22 08:37	11/15/22 18:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/14/22 08:37	11/15/22 18:25	1
Boron	<0.50		0.50	0.050	mg/L		11/14/22 08:37	11/15/22 18:25	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Client Sample ID: 1401V3-18-B05 (0-5)

Lab Sample ID: 500-225078-5

Date Collected: 11/08/22 12:45

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 84.8

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/14/22 08:37	11/15/22 18:25	1
Chromium	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:25	1
Cobalt	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:25	1
Iron	<0.40		0.40	0.20	mg/L		11/14/22 08:37	11/15/22 18:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/14/22 08:37	11/15/22 18:25	1
Manganese	0.028		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:25	1
Nickel	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:25	1
Selenium	<0.050		0.050	0.020	mg/L		11/14/22 08:37	11/15/22 18:25	1
Silver	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:25	1
Zinc	<0.50		0.50	0.020	mg/L		11/14/22 08:37	11/15/22 18:25	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/14/22 08:37	11/14/22 16:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/14/22 08:37	11/14/22 16:57	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/15/22 14:35	11/16/22 11:59	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.054		0.019	0.0064	mg/Kg	☼	11/17/22 15:25	11/18/22 08:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.0		0.2	0.2	SU			11/15/22 19:55	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

GC/MS VOA

Analysis Batch: 684607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225078-1	1401V3-18-B01 (0-5)	Total/NA	Solid	8260B	684629
500-225078-2	1401V3-18-B02 (0-5)	Total/NA	Solid	8260B	684629
500-225078-3	1401V3-18-B03 (0-5)	Total/NA	Solid	8260B	684629
500-225078-5	1401V3-18-B05 (0-5)	Total/NA	Solid	8260B	684629
500-225078-6	1401V3-18-B06 (0-5)	Total/NA	Solid	8260B	684629
500-225078-7	1401V3-18-B06 (0-5)D	Total/NA	Solid	8260B	684629
MB 500-684607/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-684607/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-684607/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 684629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225078-1	1401V3-18-B01 (0-5)	Total/NA	Solid	5035	
500-225078-2	1401V3-18-B02 (0-5)	Total/NA	Solid	5035	
500-225078-3	1401V3-18-B03 (0-5)	Total/NA	Solid	5035	
500-225078-4	1401V3-18-B04 (0-5)	Total/NA	Solid	5035	
500-225078-5	1401V3-18-B05 (0-5)	Total/NA	Solid	5035	
500-225078-6	1401V3-18-B06 (0-5)	Total/NA	Solid	5035	
500-225078-7	1401V3-18-B06 (0-5)D	Total/NA	Solid	5035	

Analysis Batch: 684933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225078-4	1401V3-18-B04 (0-5)	Total/NA	Solid	8260B	684629
MB 500-684933/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-684933/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-684933/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 685247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225078-1	1401V3-18-B01 (0-5)	Total/NA	Solid	3541	
500-225078-2	1401V3-18-B02 (0-5)	Total/NA	Solid	3541	
500-225078-3	1401V3-18-B03 (0-5)	Total/NA	Solid	3541	
500-225078-4	1401V3-18-B04 (0-5)	Total/NA	Solid	3541	
500-225078-5	1401V3-18-B05 (0-5)	Total/NA	Solid	3541	
500-225078-6	1401V3-18-B06 (0-5)	Total/NA	Solid	3541	
500-225078-7	1401V3-18-B06 (0-5)D	Total/NA	Solid	3541	
MB 500-685247/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-685247/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 686244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225078-1	1401V3-18-B01 (0-5)	Total/NA	Solid	8270D	685247
500-225078-2	1401V3-18-B02 (0-5)	Total/NA	Solid	8270D	685247
500-225078-4	1401V3-18-B04 (0-5)	Total/NA	Solid	8270D	685247
500-225078-5	1401V3-18-B05 (0-5)	Total/NA	Solid	8270D	685247
500-225078-6	1401V3-18-B06 (0-5)	Total/NA	Solid	8270D	685247
500-225078-7	1401V3-18-B06 (0-5)D	Total/NA	Solid	8270D	685247
MB 500-685247/1-A	Method Blank	Total/NA	Solid	8270D	685247
LCS 500-685247/2-A	Lab Control Sample	Total/NA	Solid	8270D	685247

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

GC/MS Semi VOA

Analysis Batch: 686470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225078-3	1401V3-18-B03 (0-5)	Total/NA	Solid	8270D	685247

Metals

Leach Batch: 684530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225078-1	1401V3-18-B01 (0-5)	TCLP	Solid	1311	
500-225078-2	1401V3-18-B02 (0-5)	TCLP	Solid	1311	
500-225078-3	1401V3-18-B03 (0-5)	TCLP	Solid	1311	
500-225078-4	1401V3-18-B04 (0-5)	TCLP	Solid	1311	
500-225078-5	1401V3-18-B05 (0-5)	TCLP	Solid	1311	
500-225078-6	1401V3-18-B06 (0-5)	TCLP	Solid	1311	
500-225078-7	1401V3-18-B06 (0-5)D	TCLP	Solid	1311	
LB 500-684530/1-B	Method Blank	TCLP	Solid	1311	
LB 500-684530/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 684557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225078-6	1401V3-18-B06 (0-5)	SPLP East	Solid	1312	
500-225078-7	1401V3-18-B06 (0-5)D	SPLP East	Solid	1312	
LB 500-684557/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 684787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225078-1	1401V3-18-B01 (0-5)	TCLP	Solid	3010A	684530
500-225078-2	1401V3-18-B02 (0-5)	TCLP	Solid	3010A	684530
500-225078-3	1401V3-18-B03 (0-5)	TCLP	Solid	3010A	684530
500-225078-4	1401V3-18-B04 (0-5)	TCLP	Solid	3010A	684530
500-225078-5	1401V3-18-B05 (0-5)	TCLP	Solid	3010A	684530
500-225078-6	1401V3-18-B06 (0-5)	TCLP	Solid	3010A	684530
500-225078-7	1401V3-18-B06 (0-5)D	TCLP	Solid	3010A	684530
LB 500-684530/1-B	Method Blank	TCLP	Solid	3010A	684530
LCS 500-684787/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 684789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225078-6	1401V3-18-B06 (0-5)	SPLP East	Solid	3010A	684557
500-225078-7	1401V3-18-B06 (0-5)D	SPLP East	Solid	3010A	684557
LB 500-684557/1-B	Method Blank	SPLP East	Solid	3010A	684557
LCS 500-684789/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 685009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225078-1	1401V3-18-B01 (0-5)	Total/NA	Solid	3050B	
500-225078-2	1401V3-18-B02 (0-5)	Total/NA	Solid	3050B	
500-225078-3	1401V3-18-B03 (0-5)	Total/NA	Solid	3050B	
500-225078-4	1401V3-18-B04 (0-5)	Total/NA	Solid	3050B	
500-225078-5	1401V3-18-B05 (0-5)	Total/NA	Solid	3050B	
500-225078-6	1401V3-18-B06 (0-5)	Total/NA	Solid	3050B	
500-225078-7	1401V3-18-B06 (0-5)D	Total/NA	Solid	3050B	
MB 500-685009/1-A	Method Blank	Total/NA	Solid	3050B	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Metals (Continued)

Prep Batch: 685009 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-685009/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 685028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225078-1	1401V3-18-B01 (0-5)	TCLP	Solid	6020A	684787
500-225078-2	1401V3-18-B02 (0-5)	TCLP	Solid	6020A	684787
500-225078-3	1401V3-18-B03 (0-5)	TCLP	Solid	6020A	684787
500-225078-4	1401V3-18-B04 (0-5)	TCLP	Solid	6020A	684787
500-225078-5	1401V3-18-B05 (0-5)	TCLP	Solid	6020A	684787
500-225078-6	1401V3-18-B06 (0-5)	TCLP	Solid	6020A	684787
500-225078-7	1401V3-18-B06 (0-5)D	TCLP	Solid	6020A	684787
LB 500-684530/1-B	Method Blank	TCLP	Solid	6020A	684787
LCS 500-684787/2-A	Lab Control Sample	Total/NA	Solid	6020A	684787

Prep Batch: 685091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225078-1	1401V3-18-B01 (0-5)	TCLP	Solid	7470A	684530
500-225078-2	1401V3-18-B02 (0-5)	TCLP	Solid	7470A	684530
500-225078-3	1401V3-18-B03 (0-5)	TCLP	Solid	7470A	684530
500-225078-4	1401V3-18-B04 (0-5)	TCLP	Solid	7470A	684530
500-225078-5	1401V3-18-B05 (0-5)	TCLP	Solid	7470A	684530
500-225078-6	1401V3-18-B06 (0-5)	TCLP	Solid	7470A	684530
500-225078-7	1401V3-18-B06 (0-5)D	TCLP	Solid	7470A	684530
LB 500-684530/1-C	Method Blank	TCLP	Solid	7470A	684530
MB 500-685091/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-685091/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 685243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225078-1	1401V3-18-B01 (0-5)	TCLP	Solid	6010B	684787
500-225078-2	1401V3-18-B02 (0-5)	TCLP	Solid	6010B	684787
500-225078-3	1401V3-18-B03 (0-5)	TCLP	Solid	6010B	684787
500-225078-4	1401V3-18-B04 (0-5)	TCLP	Solid	6010B	684787
500-225078-5	1401V3-18-B05 (0-5)	TCLP	Solid	6010B	684787
500-225078-6	1401V3-18-B06 (0-5)	TCLP	Solid	6010B	684787
500-225078-7	1401V3-18-B06 (0-5)D	TCLP	Solid	6010B	684787
LB 500-684530/1-B	Method Blank	TCLP	Solid	6010B	684787
LCS 500-684787/2-A	Lab Control Sample	Total/NA	Solid	6010B	684787

Analysis Batch: 685348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225078-1	1401V3-18-B01 (0-5)	TCLP	Solid	7470A	685091
500-225078-2	1401V3-18-B02 (0-5)	TCLP	Solid	7470A	685091
500-225078-3	1401V3-18-B03 (0-5)	TCLP	Solid	7470A	685091
500-225078-4	1401V3-18-B04 (0-5)	TCLP	Solid	7470A	685091
500-225078-5	1401V3-18-B05 (0-5)	TCLP	Solid	7470A	685091
500-225078-6	1401V3-18-B06 (0-5)	TCLP	Solid	7470A	685091
500-225078-7	1401V3-18-B06 (0-5)D	TCLP	Solid	7470A	685091
LB 500-684530/1-C	Method Blank	TCLP	Solid	7470A	685091
MB 500-685091/12-A	Method Blank	Total/NA	Solid	7470A	685091
LCS 500-685091/14-A	Lab Control Sample	Total/NA	Solid	7470A	685091

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Metals

Analysis Batch: 685369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225078-7	1401V3-18-B06 (0-5)D	TCLP	Solid	6020A	684787

Analysis Batch: 685530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225078-6	1401V3-18-B06 (0-5)	SPLP East	Solid	6010B	684789
500-225078-7	1401V3-18-B06 (0-5)D	SPLP East	Solid	6010B	684789
LB 500-684557/1-B	Method Blank	SPLP East	Solid	6010B	684789
LCS 500-684789/2-A	Lab Control Sample	Total/NA	Solid	6010B	684789

Prep Batch: 685603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225078-1	1401V3-18-B01 (0-5)	Total/NA	Solid	7471B	
500-225078-2	1401V3-18-B02 (0-5)	Total/NA	Solid	7471B	
500-225078-3	1401V3-18-B03 (0-5)	Total/NA	Solid	7471B	
500-225078-4	1401V3-18-B04 (0-5)	Total/NA	Solid	7471B	
500-225078-5	1401V3-18-B05 (0-5)	Total/NA	Solid	7471B	
500-225078-6	1401V3-18-B06 (0-5)	Total/NA	Solid	7471B	
500-225078-7	1401V3-18-B06 (0-5)D	Total/NA	Solid	7471B	
MB 500-685603/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-685603/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 685803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225078-1	1401V3-18-B01 (0-5)	Total/NA	Solid	6010B	685009
500-225078-2	1401V3-18-B02 (0-5)	Total/NA	Solid	6010B	685009
500-225078-3	1401V3-18-B03 (0-5)	Total/NA	Solid	6010B	685009
500-225078-4	1401V3-18-B04 (0-5)	Total/NA	Solid	6010B	685009
500-225078-5	1401V3-18-B05 (0-5)	Total/NA	Solid	6010B	685009
500-225078-6	1401V3-18-B06 (0-5)	Total/NA	Solid	6010B	685009
500-225078-7	1401V3-18-B06 (0-5)D	Total/NA	Solid	6010B	685009
MB 500-685009/1-A	Method Blank	Total/NA	Solid	6010B	685009
LCS 500-685009/2-A	Lab Control Sample	Total/NA	Solid	6010B	685009

Analysis Batch: 685886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225078-1	1401V3-18-B01 (0-5)	Total/NA	Solid	7471B	685603
500-225078-2	1401V3-18-B02 (0-5)	Total/NA	Solid	7471B	685603
500-225078-3	1401V3-18-B03 (0-5)	Total/NA	Solid	7471B	685603
500-225078-4	1401V3-18-B04 (0-5)	Total/NA	Solid	7471B	685603
500-225078-5	1401V3-18-B05 (0-5)	Total/NA	Solid	7471B	685603
500-225078-6	1401V3-18-B06 (0-5)	Total/NA	Solid	7471B	685603
500-225078-7	1401V3-18-B06 (0-5)D	Total/NA	Solid	7471B	685603
MB 500-685603/12-A	Method Blank	Total/NA	Solid	7471B	685603
LCS 500-685603/13-A	Lab Control Sample	Total/NA	Solid	7471B	685603

Analysis Batch: 685898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225078-1	1401V3-18-B01 (0-5)	Total/NA	Solid	6010B	685009
500-225078-3	1401V3-18-B03 (0-5)	Total/NA	Solid	6010B	685009
500-225078-4	1401V3-18-B04 (0-5)	Total/NA	Solid	6010B	685009
500-225078-4	1401V3-18-B04 (0-5)	Total/NA	Solid	6010B	685009

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Metals

Analysis Batch: 686262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225078-6	1401V3-18-B06 (0-5)	Total/NA	Solid	6010B	685009

General Chemistry

Analysis Batch: 684929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225078-1	1401V3-18-B01 (0-5)	Total/NA	Solid	Moisture	
500-225078-2	1401V3-18-B02 (0-5)	Total/NA	Solid	Moisture	
500-225078-3	1401V3-18-B03 (0-5)	Total/NA	Solid	Moisture	
500-225078-4	1401V3-18-B04 (0-5)	Total/NA	Solid	Moisture	
500-225078-5	1401V3-18-B05 (0-5)	Total/NA	Solid	Moisture	
500-225078-6	1401V3-18-B06 (0-5)	Total/NA	Solid	Moisture	
500-225078-7	1401V3-18-B06 (0-5)D	Total/NA	Solid	Moisture	
500-225078-1 DU	1401V3-18-B01 (0-5)	Total/NA	Solid	Moisture	

Analysis Batch: 685174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225078-1	1401V3-18-B01 (0-5)	Total/NA	Solid	9045D	
500-225078-2	1401V3-18-B02 (0-5)	Total/NA	Solid	9045D	
500-225078-3	1401V3-18-B03 (0-5)	Total/NA	Solid	9045D	
500-225078-4	1401V3-18-B04 (0-5)	Total/NA	Solid	9045D	
500-225078-5	1401V3-18-B05 (0-5)	Total/NA	Solid	9045D	
500-225078-6	1401V3-18-B06 (0-5)	Total/NA	Solid	9045D	
500-225078-7	1401V3-18-B06 (0-5)D	Total/NA	Solid	9045D	
LCS 500-685174/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-685174/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Surrogate Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(75-131)	(75-126)	(70-134)	(75-124)
500-225078-1	1401V3-18-B01 (0-5)	103	101	107	97
500-225078-2	1401V3-18-B02 (0-5)	98	101	106	96
500-225078-3	1401V3-18-B03 (0-5)	98	97	109	93
500-225078-4	1401V3-18-B04 (0-5)	94	85	87	86
500-225078-5	1401V3-18-B05 (0-5)	101	106	113	106
500-225078-6	1401V3-18-B06 (0-5)	107	107	111	104
500-225078-7	1401V3-18-B06 (0-5)D	105	107	117	99
LCS 500-684607/3	Lab Control Sample	106	93	96	103
LCS 500-684933/4	Lab Control Sample	91	85	81	85
LCSD 500-684607/4	Lab Control Sample Dup	98	94	99	104
LCSD 500-684933/5	Lab Control Sample Dup	89	87	83	85
MB 500-684607/6	Method Blank	97	99	98	102
MB 500-684933/7	Method Blank	93	85	79	84

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP	PHL	NBZ	FBP	TBP	TPHL
		(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-225078-1	1401V3-18-B01 (0-5)	117	78	78	80	78	89
500-225078-2	1401V3-18-B02 (0-5)	129	99	84	91	108	109
500-225078-3	1401V3-18-B03 (0-5)	83	77	57	69	112	86
500-225078-4	1401V3-18-B04 (0-5)	111	78	71	79	80	113
500-225078-5	1401V3-18-B05 (0-5)	162	104	85	95	115	138
500-225078-6	1401V3-18-B06 (0-5)	123	108	82	87	104	132
500-225078-7	1401V3-18-B06 (0-5)D	91	81	62	69	74	111
LCS 500-685247/2-A	Lab Control Sample	138	119	95	97	113	104
MB 500-685247/1-A	Method Blank	164	136	89	104	105	114

Surrogate Legend

2FP = 2-Fluorophenol
PHL = Phenol-d5
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol
TPHL = Terphenyl-d14 (Surr)

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-684607/6
Matrix: Solid
Analysis Batch: 684607

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			11/12/22 10:34	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			11/12/22 10:34	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			11/12/22 10:34	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			11/12/22 10:34	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			11/12/22 10:34	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			11/12/22 10:34	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			11/12/22 10:34	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			11/12/22 10:34	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			11/12/22 10:34	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			11/12/22 10:34	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			11/12/22 10:34	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			11/12/22 10:34	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			11/12/22 10:34	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			11/12/22 10:34	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			11/12/22 10:34	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			11/12/22 10:34	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			11/12/22 10:34	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			11/12/22 10:34	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			11/12/22 10:34	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			11/12/22 10:34	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			11/12/22 10:34	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			11/12/22 10:34	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			11/12/22 10:34	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			11/12/22 10:34	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			11/12/22 10:34	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			11/12/22 10:34	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			11/12/22 10:34	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/12/22 10:34	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			11/12/22 10:34	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			11/12/22 10:34	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			11/12/22 10:34	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			11/12/22 10:34	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			11/12/22 10:34	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/12/22 10:34	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			11/12/22 10:34	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			11/12/22 10:34	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			11/12/22 10:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 131		11/12/22 10:34	1
Dibromofluoromethane	99		75 - 126		11/12/22 10:34	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		11/12/22 10:34	1
Toluene-d8 (Surr)	102		75 - 124		11/12/22 10:34	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-684607/3

Matrix: Solid

Analysis Batch: 684607

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0400	0.0387		mg/Kg		97	40 - 150
Benzene	0.0400	0.0404		mg/Kg		101	70 - 125
Bromodichloromethane	0.0400	0.0415		mg/Kg		104	67 - 129
Bromoform	0.0400	0.0401		mg/Kg		100	68 - 136
Bromomethane	0.0400	0.0342		mg/Kg		86	70 - 130
2-Butanone (MEK)	0.0400	0.0383		mg/Kg		96	47 - 138
Carbon disulfide	0.0400	0.0373		mg/Kg		93	70 - 129
Carbon tetrachloride	0.0400	0.0373		mg/Kg		93	75 - 125
Chlorobenzene	0.0400	0.0438		mg/Kg		109	50 - 150
Chloroethane	0.0400	0.0378		mg/Kg		95	75 - 125
Chloroform	0.0400	0.0399		mg/Kg		100	57 - 135
Chloromethane	0.0400	0.0355		mg/Kg		89	70 - 125
cis-1,2-Dichloroethene	0.0400	0.0398		mg/Kg		100	70 - 125
cis-1,3-Dichloropropene	0.0400	0.0486		mg/Kg		122	70 - 125
Dibromochloromethane	0.0400	0.0423		mg/Kg		106	69 - 125
1,1-Dichloroethane	0.0400	0.0410		mg/Kg		102	70 - 125
1,2-Dichloroethane	0.0400	0.0430		mg/Kg		107	70 - 130
1,1-Dichloroethene	0.0400	0.0435		mg/Kg		109	70 - 120
1,2-Dichloropropane	0.0400	0.0390		mg/Kg		97	70 - 125
Ethylbenzene	0.0400	0.0407		mg/Kg		102	61 - 136
2-Hexanone	0.0400	0.0375		mg/Kg		94	48 - 146
Methylene Chloride	0.0400	0.0389		mg/Kg		97	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0400	0.0357		mg/Kg		89	50 - 148
Methyl tert-butyl ether	0.0400	0.0370		mg/Kg		92	50 - 140
Styrene	0.0400	0.0395		mg/Kg		99	70 - 125
1,1,2,2-Tetrachloroethane	0.0400	0.0415		mg/Kg		104	70 - 122
Tetrachloroethene	0.0400	0.0443		mg/Kg		111	70 - 124
Toluene	0.0400	0.0417		mg/Kg		104	70 - 125
trans-1,2-Dichloroethene	0.0400	0.0422		mg/Kg		105	70 - 125
trans-1,3-Dichloropropene	0.0400	0.0481		mg/Kg		120	70 - 125
1,1,1-Trichloroethane	0.0400	0.0377		mg/Kg		94	70 - 128
1,1,2-Trichloroethane	0.0400	0.0439		mg/Kg		110	70 - 125
Trichloroethene	0.0400	0.0436		mg/Kg		109	70 - 125
Vinyl acetate	0.0400	0.0407		mg/Kg		102	40 - 153
Vinyl chloride	0.0400	0.0358		mg/Kg		90	70 - 125
Xylenes, Total	0.0800	0.0765		mg/Kg		96	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	106		75 - 131
Dibromofluoromethane	93		75 - 126
1,2-Dichloroethane-d4 (Surr)	96		70 - 134
Toluene-d8 (Surr)	103		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-684607/4
Matrix: Solid
Analysis Batch: 684607

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.0400	0.0484		mg/Kg		121	40 - 150	22	30
Benzene	0.0400	0.0434		mg/Kg		108	70 - 125	7	30
Bromodichloromethane	0.0400	0.0435		mg/Kg		109	67 - 129	5	30
Bromoform	0.0400	0.0424		mg/Kg		106	68 - 136	5	30
Bromomethane	0.0400	0.0400		mg/Kg		100	70 - 130	16	30
2-Butanone (MEK)	0.0400	0.0401		mg/Kg		100	47 - 138	5	30
Carbon disulfide	0.0400	0.0432		mg/Kg		108	70 - 129	15	30
Carbon tetrachloride	0.0400	0.0420		mg/Kg		105	75 - 125	12	30
Chlorobenzene	0.0400	0.0447		mg/Kg		112	50 - 150	2	30
Chloroethane	0.0400	0.0435		mg/Kg		109	75 - 125	14	30
Chloroform	0.0400	0.0422		mg/Kg		106	57 - 135	6	30
Chloromethane	0.0400	0.0401		mg/Kg		100	70 - 125	12	30
cis-1,2-Dichloroethene	0.0400	0.0435		mg/Kg		109	70 - 125	9	30
cis-1,3-Dichloropropene	0.0400	0.0488		mg/Kg		122	70 - 125	0	30
Dibromochloromethane	0.0400	0.0439		mg/Kg		110	69 - 125	4	30
1,1-Dichloroethane	0.0400	0.0438		mg/Kg		110	70 - 125	7	30
1,2-Dichloroethane	0.0400	0.0443		mg/Kg		111	70 - 130	3	30
1,1-Dichloroethene	0.0400	0.0470		mg/Kg		117	70 - 120	8	30
1,2-Dichloropropane	0.0400	0.0413		mg/Kg		103	70 - 125	6	30
Ethylbenzene	0.0400	0.0424		mg/Kg		106	61 - 136	4	30
2-Hexanone	0.0400	0.0401		mg/Kg		100	48 - 146	7	30
Methylene Chloride	0.0400	0.0431		mg/Kg		108	70 - 126	10	30
4-Methyl-2-pentanone (MIBK)	0.0400	0.0388		mg/Kg		97	50 - 148	8	30
Methyl tert-butyl ether	0.0400	0.0409		mg/Kg		102	50 - 140	10	30
Styrene	0.0400	0.0415		mg/Kg		104	70 - 125	5	30
1,1,2,2-Tetrachloroethane	0.0400	0.0405		mg/Kg		101	70 - 122	2	30
Tetrachloroethene	0.0400	0.0469		mg/Kg		117	70 - 124	6	30
Toluene	0.0400	0.0431		mg/Kg		108	70 - 125	3	30
trans-1,2-Dichloroethene	0.0400	0.0467		mg/Kg		117	70 - 125	10	30
trans-1,3-Dichloropropene	0.0400	0.0494		mg/Kg		124	70 - 125	3	30
1,1,1-Trichloroethane	0.0400	0.0423		mg/Kg		106	70 - 128	12	30
1,1,2-Trichloroethane	0.0400	0.0453		mg/Kg		113	70 - 125	3	30
Trichloroethene	0.0400	0.0470		mg/Kg		118	70 - 125	8	30
Vinyl acetate	0.0400	0.0420		mg/Kg		105	40 - 153	3	30
Vinyl chloride	0.0400	0.0409		mg/Kg		102	70 - 125	13	30
Xylenes, Total	0.0800	0.0807		mg/Kg		101	53 - 147	5	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		75 - 131
Dibromofluoromethane	94		75 - 126
1,2-Dichloroethane-d4 (Surr)	99		70 - 134
Toluene-d8 (Surr)	104		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-684933/7
Matrix: Solid
Analysis Batch: 684933

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			11/15/22 11:30	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			11/15/22 11:30	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			11/15/22 11:30	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			11/15/22 11:30	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			11/15/22 11:30	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			11/15/22 11:30	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			11/15/22 11:30	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			11/15/22 11:30	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			11/15/22 11:30	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			11/15/22 11:30	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			11/15/22 11:30	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			11/15/22 11:30	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			11/15/22 11:30	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			11/15/22 11:30	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			11/15/22 11:30	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			11/15/22 11:30	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			11/15/22 11:30	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			11/15/22 11:30	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			11/15/22 11:30	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			11/15/22 11:30	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			11/15/22 11:30	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			11/15/22 11:30	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			11/15/22 11:30	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			11/15/22 11:30	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			11/15/22 11:30	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			11/15/22 11:30	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			11/15/22 11:30	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/15/22 11:30	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			11/15/22 11:30	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			11/15/22 11:30	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			11/15/22 11:30	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			11/15/22 11:30	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			11/15/22 11:30	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/15/22 11:30	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			11/15/22 11:30	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			11/15/22 11:30	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			11/15/22 11:30	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	93		75 - 131		11/15/22 11:30	1
Dibromofluoromethane	85		75 - 126		11/15/22 11:30	1
1,2-Dichloroethane-d4 (Surr)	79		70 - 134		11/15/22 11:30	1
Toluene-d8 (Surr)	84		75 - 124		11/15/22 11:30	1

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-684933/4
Matrix: Solid
Analysis Batch: 684933

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0500	0.0409		mg/Kg		82	40 - 150
Benzene	0.0500	0.0461		mg/Kg		92	70 - 125
Bromodichloromethane	0.0500	0.0469		mg/Kg		94	67 - 129
Bromoform	0.0500	0.0455		mg/Kg		91	68 - 136
Bromomethane	0.0500	0.0463		mg/Kg		93	70 - 130
2-Butanone (MEK)	0.0500	0.0443		mg/Kg		89	47 - 138
Carbon disulfide	0.0500	0.0481		mg/Kg		96	70 - 129
Carbon tetrachloride	0.0500	0.0511		mg/Kg		102	75 - 125
Chlorobenzene	0.0500	0.0468		mg/Kg		94	50 - 150
Chloroethane	0.0500	0.0449		mg/Kg		90	75 - 125
Chloroform	0.0500	0.0494		mg/Kg		99	57 - 135
Chloromethane	0.0500	0.0401		mg/Kg		80	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0488		mg/Kg		98	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0411		mg/Kg		82	70 - 125
Dibromochloromethane	0.0500	0.0472		mg/Kg		94	69 - 125
1,1-Dichloroethane	0.0500	0.0463		mg/Kg		93	70 - 125
1,2-Dichloroethane	0.0500	0.0475		mg/Kg		95	70 - 130
1,1-Dichloroethene	0.0500	0.0489		mg/Kg		98	70 - 120
1,2-Dichloropropane	0.0500	0.0446		mg/Kg		89	70 - 125
Ethylbenzene	0.0500	0.0463		mg/Kg		93	61 - 136
2-Hexanone	0.0500	0.0443		mg/Kg		89	48 - 146
Methylene Chloride	0.0500	0.0476		mg/Kg		95	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0419		mg/Kg		84	50 - 148
Methyl tert-butyl ether	0.0500	0.0441		mg/Kg		88	50 - 140
Styrene	0.0500	0.0460		mg/Kg		92	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0459		mg/Kg		92	70 - 122
Tetrachloroethene	0.0500	0.0467		mg/Kg		93	70 - 124
Toluene	0.0500	0.0442		mg/Kg		88	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0493		mg/Kg		99	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0426		mg/Kg		85	70 - 125
1,1,1-Trichloroethane	0.0500	0.0500		mg/Kg		100	70 - 128
1,1,2-Trichloroethane	0.0500	0.0461		mg/Kg		92	70 - 125
Trichloroethene	0.0500	0.0473		mg/Kg		95	70 - 125
Vinyl acetate	0.0500	0.0346		mg/Kg		69	40 - 153
Vinyl chloride	0.0500	0.0391		mg/Kg		78	70 - 125
Xylenes, Total	0.100	0.0901		mg/Kg		90	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	91		75 - 131
Dibromofluoromethane	85		75 - 126
1,2-Dichloroethane-d4 (Surr)	81		70 - 134
Toluene-d8 (Surr)	85		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-684933/5
Matrix: Solid
Analysis Batch: 684933

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.0500	0.0526		mg/Kg		105	40 - 150	25	30
Benzene	0.0500	0.0510		mg/Kg		102	70 - 125	10	30
Bromodichloromethane	0.0500	0.0528		mg/Kg		106	67 - 129	12	30
Bromoform	0.0500	0.0529		mg/Kg		106	68 - 136	15	30
Bromomethane	0.0500	0.0593		mg/Kg		119	70 - 130	24	30
2-Butanone (MEK)	0.0500	0.0516		mg/Kg		103	47 - 138	15	30
Carbon disulfide	0.0500	0.0540		mg/Kg		108	70 - 129	12	30
Carbon tetrachloride	0.0500	0.0580		mg/Kg		116	75 - 125	13	30
Chlorobenzene	0.0500	0.0517		mg/Kg		103	50 - 150	10	30
Chloroethane	0.0500	0.0548		mg/Kg		110	75 - 125	20	30
Chloroform	0.0500	0.0553		mg/Kg		111	57 - 135	11	30
Chloromethane	0.0500	0.0495		mg/Kg		99	70 - 125	21	30
cis-1,2-Dichloroethene	0.0500	0.0537		mg/Kg		107	70 - 125	10	30
cis-1,3-Dichloropropene	0.0500	0.0476		mg/Kg		95	70 - 125	15	30
Dibromochloromethane	0.0500	0.0523		mg/Kg		105	69 - 125	10	30
1,1-Dichloroethane	0.0500	0.0521		mg/Kg		104	70 - 125	12	30
1,2-Dichloroethane	0.0500	0.0541		mg/Kg		108	70 - 130	13	30
1,1-Dichloroethene	0.0500	0.0551		mg/Kg		110	70 - 120	12	30
1,2-Dichloropropane	0.0500	0.0494		mg/Kg		99	70 - 125	10	30
Ethylbenzene	0.0500	0.0506		mg/Kg		101	61 - 136	9	30
2-Hexanone	0.0500	0.0538		mg/Kg		108	48 - 146	19	30
Methylene Chloride	0.0500	0.0538		mg/Kg		108	70 - 126	12	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0505		mg/Kg		101	50 - 148	19	30
Methyl tert-butyl ether	0.0500	0.0520		mg/Kg		104	50 - 140	16	30
Styrene	0.0500	0.0505		mg/Kg		101	70 - 125	9	30
1,1,2,2-Tetrachloroethane	0.0500	0.0526		mg/Kg		105	70 - 122	14	30
Tetrachloroethene	0.0500	0.0506		mg/Kg		101	70 - 124	8	30
Toluene	0.0500	0.0492		mg/Kg		98	70 - 125	11	30
trans-1,2-Dichloroethene	0.0500	0.0564		mg/Kg		113	70 - 125	13	30
trans-1,3-Dichloropropene	0.0500	0.0484		mg/Kg		97	70 - 125	13	30
1,1,1-Trichloroethane	0.0500	0.0552		mg/Kg		110	70 - 128	10	30
1,1,2-Trichloroethane	0.0500	0.0520		mg/Kg		104	70 - 125	12	30
Trichloroethene	0.0500	0.0532		mg/Kg		106	70 - 125	12	30
Vinyl acetate	0.0500	0.0407		mg/Kg		81	40 - 153	16	30
Vinyl chloride	0.0500	0.0474		mg/Kg		95	70 - 125	19	30
Xylenes, Total	0.100	0.101		mg/Kg		101	53 - 147	11	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	89		75 - 131
Dibromofluoromethane	87		75 - 126
1,2-Dichloroethane-d4 (Surr)	83		70 - 134
Toluene-d8 (Surr)	85		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-685247/1-A
Matrix: Solid
Analysis Batch: 686244

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685247

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Isophorone	<0.17		0.17	0.037	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Carbazole	<0.17		0.17	0.083	mg/Kg		11/16/22 08:57	11/21/22 13:26	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-685247/1-A
Matrix: Solid
Analysis Batch: 686244

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685247

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		11/16/22 08:57	11/21/22 13:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	164		31 - 166	11/16/22 08:57	11/21/22 13:26	1
Phenol-d5	136		30 - 153	11/16/22 08:57	11/21/22 13:26	1
Nitrobenzene-d5 (Surr)	89		37 - 147	11/16/22 08:57	11/21/22 13:26	1
2-Fluorobiphenyl (Surr)	104		43 - 145	11/16/22 08:57	11/21/22 13:26	1
2,4,6-Tribromophenol	105		31 - 143	11/16/22 08:57	11/21/22 13:26	1
Terphenyl-d14 (Surr)	114		42 - 157	11/16/22 08:57	11/21/22 13:26	1

Lab Sample ID: LCS 500-685247/2-A
Matrix: Solid
Analysis Batch: 686244

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685247

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.51		mg/Kg		113	56 - 122
Bis(2-chloroethyl)ether	1.33	1.23		mg/Kg		92	55 - 111
1,3-Dichlorobenzene	1.33	1.20		mg/Kg		90	65 - 124
1,4-Dichlorobenzene	1.33	1.25		mg/Kg		93	61 - 110
1,2-Dichlorobenzene	1.33	1.25		mg/Kg		94	62 - 110
2-Methylphenol	1.33	1.40		mg/Kg		105	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.22		mg/Kg		92	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.29		mg/Kg		97	56 - 118
Hexachloroethane	1.33	1.17		mg/Kg		88	60 - 114
2-Chlorophenol	1.33	1.48	*+	mg/Kg		111	64 - 110
Nitrobenzene	1.33	1.30		mg/Kg		97	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.31		mg/Kg		98	60 - 112
1,2,4-Trichlorobenzene	1.33	1.35		mg/Kg		101	66 - 117
Isophorone	1.33	1.27		mg/Kg		96	55 - 110
2,4-Dimethylphenol	1.33	1.34		mg/Kg		100	60 - 110
Hexachlorobutadiene	1.33	1.30		mg/Kg		98	56 - 120
Naphthalene	1.33	1.29		mg/Kg		96	63 - 110
2,4-Dichlorophenol	1.33	1.39		mg/Kg		105	58 - 120

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-685247/2-A
Matrix: Solid
Analysis Batch: 686244

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685247

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloroaniline	1.33	0.677		mg/Kg		51	30 - 150
2,4,6-Trichlorophenol	1.33	1.36		mg/Kg		102	57 - 120
2,4,5-Trichlorophenol	1.33	1.42		mg/Kg		106	50 - 120
Hexachlorocyclopentadiene	1.33	0.931		mg/Kg		70	10 - 133
2-Methylnaphthalene	1.33	1.28		mg/Kg		96	69 - 112
2-Nitroaniline	1.33	1.36		mg/Kg		102	57 - 124
2-Chloronaphthalene	1.33	1.37		mg/Kg		103	69 - 114
4-Chloro-3-methylphenol	1.33	1.48		mg/Kg		111	65 - 122
2,6-Dinitrotoluene	1.33	1.56		mg/Kg		117	70 - 123
2-Nitrophenol	1.33	1.45		mg/Kg		109	60 - 120
3-Nitroaniline	1.33	0.713		mg/Kg		53	40 - 122
Dimethyl phthalate	1.33	1.37		mg/Kg		103	69 - 116
2,4-Dinitrophenol	2.67	0.858		mg/Kg		32	10 - 100
Acenaphthylene	1.33	1.39		mg/Kg		104	68 - 120
2,4-Dinitrotoluene	1.33	1.42		mg/Kg		106	69 - 124
Acenaphthene	1.33	1.37		mg/Kg		102	65 - 124
Dibenzofuran	1.33	1.39		mg/Kg		104	66 - 115
4-Nitrophenol	2.67	2.67		mg/Kg		100	30 - 122
Fluorene	1.33	1.36		mg/Kg		102	62 - 120
4-Nitroaniline	1.33	1.20		mg/Kg		90	60 - 160
4-Bromophenyl phenyl ether	1.33	1.41		mg/Kg		105	68 - 118
Hexachlorobenzene	1.33	1.37		mg/Kg		103	63 - 124
Diethyl phthalate	1.33	1.34		mg/Kg		100	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.37		mg/Kg		103	62 - 119
Pentachlorophenol	2.67	1.93		mg/Kg		73	13 - 112
N-Nitrosodiphenylamine	1.33	1.40		mg/Kg		105	65 - 112
4,6-Dinitro-2-methylphenol	2.67	1.60		mg/Kg		60	10 - 110
Phenanthrene	1.33	1.36		mg/Kg		102	62 - 120
Anthracene	1.33	1.41		mg/Kg		106	70 - 114
Carbazole	1.33	1.55		mg/Kg		116	65 - 142
Di-n-butyl phthalate	1.33	1.44		mg/Kg		108	65 - 120
Fluoranthene	1.33	1.45		mg/Kg		109	62 - 120
Pyrene	1.33	1.38		mg/Kg		104	61 - 128
Butyl benzyl phthalate	1.33	1.37		mg/Kg		103	71 - 129
Benzo[a]anthracene	1.33	1.37		mg/Kg		103	67 - 122
Chrysene	1.33	1.36		mg/Kg		102	63 - 120
3,3'-Dichlorobenzidine	1.33	1.02		mg/Kg		76	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.45		mg/Kg		108	72 - 131
Di-n-octyl phthalate	1.33	1.65		mg/Kg		124	68 - 134
Benzo[b]fluoranthene	1.33	1.42		mg/Kg		106	69 - 129
Benzo[k]fluoranthene	1.33	1.30		mg/Kg		97	68 - 127
Benzo[a]pyrene	1.33	1.49		mg/Kg		112	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.63		mg/Kg		122	68 - 130
Dibenz(a,h)anthracene	1.33	1.57		mg/Kg		118	64 - 131
Benzo[g,h,i]perylene	1.33	1.55		mg/Kg		116	72 - 131
3 & 4 Methylphenol	1.33	1.43		mg/Kg		107	57 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-685247/2-A
Matrix: Solid
Analysis Batch: 686244

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685247

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	138		31 - 166
Phenol-d5	119		30 - 153
Nitrobenzene-d5 (Surr)	95		37 - 147
2-Fluorobiphenyl (Surr)	97		43 - 145
2,4,6-Tribromophenol	113		31 - 143
Terphenyl-d14 (Surr)	104		42 - 157

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-684787/2-A
Matrix: Solid
Analysis Batch: 685243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684787

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Barium	0.500	0.496	J	mg/L		99	80 - 120
Beryllium	0.0500	0.0460		mg/L		92	80 - 120
Boron	1.00	0.912		mg/L		91	80 - 120
Cadmium	0.0500	0.0503		mg/L		101	80 - 120
Chromium	0.200	0.189		mg/L		95	80 - 120
Cobalt	0.500	0.490		mg/L		98	80 - 120
Iron	1.00	1.02		mg/L		102	80 - 120
Lead	0.100	0.0931		mg/L		93	80 - 120
Manganese	0.500	0.475		mg/L		95	80 - 120
Nickel	0.500	0.480		mg/L		96	80 - 120
Selenium	0.100	0.109		mg/L		109	80 - 120
Silver	0.0500	0.0543		mg/L		109	80 - 120
Zinc	0.500	0.506		mg/L		101	80 - 120

Lab Sample ID: LCS 500-684789/2-A
Matrix: Solid
Analysis Batch: 685530

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684789

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Manganese	0.500	0.488		mg/L		98	80 - 120

Lab Sample ID: MB 500-685009/1-A
Matrix: Solid
Analysis Batch: 685803

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685009

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		11/15/22 09:12	11/17/22 19:53	1
Arsenic	<1.0		1.0	0.34	mg/Kg		11/15/22 09:12	11/17/22 19:53	1
Barium	<1.0		1.0	0.11	mg/Kg		11/15/22 09:12	11/17/22 19:53	1
Beryllium	<0.40		0.40	0.093	mg/Kg		11/15/22 09:12	11/17/22 19:53	1
Boron	<5.0		5.0	0.47	mg/Kg		11/15/22 09:12	11/17/22 19:53	1
Cadmium	<0.20		0.20	0.036	mg/Kg		11/15/22 09:12	11/17/22 19:53	1
Calcium	<20		20	3.4	mg/Kg		11/15/22 09:12	11/17/22 19:53	1
Chromium	<1.0		1.0	0.50	mg/Kg		11/15/22 09:12	11/17/22 19:53	1
Cobalt	<0.50		0.50	0.13	mg/Kg		11/15/22 09:12	11/17/22 19:53	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 500-685009/1-A
Matrix: Solid
Analysis Batch: 685803

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685009

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<1.0		1.0	0.28	mg/Kg		11/15/22 09:12	11/17/22 19:53	1
Iron	<20		20	10	mg/Kg		11/15/22 09:12	11/17/22 19:53	1
Lead	<0.50		0.50	0.23	mg/Kg		11/15/22 09:12	11/17/22 19:53	1
Magnesium	<10		10	5.0	mg/Kg		11/15/22 09:12	11/17/22 19:53	1
Manganese	<1.0		1.0	0.15	mg/Kg		11/15/22 09:12	11/17/22 19:53	1
Nickel	<1.0		1.0	0.29	mg/Kg		11/15/22 09:12	11/17/22 19:53	1
Potassium	<50		50	18	mg/Kg		11/15/22 09:12	11/17/22 19:53	1
Selenium	<1.0		1.0	0.59	mg/Kg		11/15/22 09:12	11/17/22 19:53	1
Silver	<0.50		0.50	0.13	mg/Kg		11/15/22 09:12	11/17/22 19:53	1
Sodium	<100		100	15	mg/Kg		11/15/22 09:12	11/17/22 19:53	1
Thallium	<1.0		1.0	0.50	mg/Kg		11/15/22 09:12	11/17/22 19:53	1
Vanadium	<0.50		0.50	0.12	mg/Kg		11/15/22 09:12	11/17/22 19:53	1
Zinc	<2.0		2.0	0.88	mg/Kg		11/15/22 09:12	11/17/22 19:53	1

Lab Sample ID: LCS 500-685009/2-A
Matrix: Solid
Analysis Batch: 685803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685009

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	46.4		mg/Kg		93	80 - 120
Arsenic	10.0	9.52		mg/Kg		95	80 - 120
Barium	200	200		mg/Kg		100	80 - 120
Beryllium	5.00	4.50		mg/Kg		90	80 - 120
Boron	100	86.5		mg/Kg		87	80 - 120
Cadmium	5.00	4.67		mg/Kg		93	80 - 120
Calcium	1000	939		mg/Kg		94	80 - 120
Chromium	20.0	20.0		mg/Kg		100	80 - 120
Cobalt	50.0	49.4		mg/Kg		99	80 - 120
Copper	25.0	24.8		mg/Kg		99	80 - 120
Iron	100	96.5		mg/Kg		97	80 - 120
Lead	10.0	9.11		mg/Kg		91	80 - 120
Magnesium	1000	927		mg/Kg		93	80 - 120
Manganese	50.0	47.6		mg/Kg		95	80 - 120
Nickel	50.0	48.0		mg/Kg		96	80 - 120
Potassium	1000	981		mg/Kg		98	80 - 120
Selenium	10.0	8.79		mg/Kg		88	80 - 120
Silver	5.00	4.37		mg/Kg		87	80 - 120
Sodium	1000	996		mg/Kg		100	80 - 120
Thallium	10.0	8.97		mg/Kg		90	80 - 120
Vanadium	50.0	49.0		mg/Kg		98	80 - 120
Zinc	50.0	47.4		mg/Kg		95	80 - 120

Lab Sample ID: LB 500-684530/1-B
Matrix: Solid
Analysis Batch: 685243

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 684787

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		11/14/22 08:37	11/15/22 17:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/14/22 08:37	11/15/22 17:59	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-684530/1-B
Matrix: Solid
Analysis Batch: 685243

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 684787

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.50		0.50	0.050	mg/L		11/14/22 08:37	11/15/22 17:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/14/22 08:37	11/15/22 17:59	1
Chromium	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 17:59	1
Cobalt	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 17:59	1
Iron	<0.40		0.40	0.20	mg/L		11/14/22 08:37	11/15/22 17:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/14/22 08:37	11/15/22 17:59	1
Manganese	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 17:59	1
Nickel	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 17:59	1
Selenium	<0.050		0.050	0.020	mg/L		11/14/22 08:37	11/15/22 17:59	1
Silver	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 17:59	1
Zinc	<0.50		0.50	0.020	mg/L		11/14/22 08:37	11/15/22 17:59	1

Lab Sample ID: LB 500-684557/1-B
Matrix: Solid
Analysis Batch: 685530

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 684789

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		11/14/22 08:41	11/16/22 18:26	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-684787/2-A
Matrix: Solid
Analysis Batch: 685028

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684787

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.493		mg/L		99	80 - 120
Thallium	0.100	0.115		mg/L		115	80 - 120

Lab Sample ID: LB 500-684530/1-B
Matrix: Solid
Analysis Batch: 685028

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 684787

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/14/22 08:37	11/14/22 16:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/14/22 08:37	11/14/22 16:41	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-685091/12-A
Matrix: Solid
Analysis Batch: 685348

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685091

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/15/22 14:35	11/16/22 11:30	1

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LCS 500-685091/14-A
Matrix: Solid
Analysis Batch: 685348

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685091

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00215		mg/L		108	80 - 120

Lab Sample ID: LB 500-684530/1-C
Matrix: Solid
Analysis Batch: 685348

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685091

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/15/22 14:35	11/16/22 11:32	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-685603/12-A
Matrix: Solid
Analysis Batch: 685886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685603

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		11/17/22 15:25	11/18/22 07:38	1

Lab Sample ID: LCS 500-685603/13-A
Matrix: Solid
Analysis Batch: 685886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685603

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.153		mg/Kg		93	80 - 120

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Client Sample ID: 1401V3-18-B01 (0-5)

Lab Sample ID: 500-225078-1

Date Collected: 11/08/22 11:35

Matrix: Solid

Date Received: 11/08/22 17:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6010B		1	685243	JJB	EET CHI	11/15/22 18:12
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6020A		1	685028	FXG	EET CHI	11/14/22 16:49
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	7470A			685091	MJG	EET CHI	11/15/22 14:35 - 11/15/22 16:35 ¹
TCLP	Analysis	7470A		1	685348	MJG	EET CHI	11/16/22 11:41
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 19:45
Total/NA	Analysis	Moisture		1	684929	LWN	EET CHI	11/15/22 08:48

Client Sample ID: 1401V3-18-B01 (0-5)

Lab Sample ID: 500-225078-1

Date Collected: 11/08/22 11:35

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 76.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684629	WRE	EET CHI	11/09/22 18:36
Total/NA	Analysis	8260B		1	684607	W1T	EET CHI	11/12/22 15:30
Total/NA	Prep	3541			685247	KN	EET CHI	11/16/22 08:57 - 11/16/22 15:30 ¹
Total/NA	Analysis	8270D		1	686244	SS	EET CHI	11/21/22 17:22
Total/NA	Prep	3050B			685009	BDE	EET CHI	11/15/22 09:12 - 11/15/22 09:42 ¹
Total/NA	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 20:53
Total/NA	Prep	3050B			685009	BDE	EET CHI	11/15/22 09:12 - 11/15/22 09:42 ¹
Total/NA	Analysis	6010B		5	685898	JJB	EET CHI	11/18/22 12:39
Total/NA	Prep	7471B			685603	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 08:30

Client Sample ID: 1401V3-18-B02 (0-5)

Lab Sample ID: 500-225078-2

Date Collected: 11/08/22 12:05

Matrix: Solid

Date Received: 11/08/22 17:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6010B		1	685243	JJB	EET CHI	11/15/22 18:15
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6020A		1	685028	FXG	EET CHI	11/14/22 16:51
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	7470A			685091	MJG	EET CHI	11/15/22 14:35 - 11/15/22 16:35 ¹
TCLP	Analysis	7470A		1	685348	MJG	EET CHI	11/16/22 11:43
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 19:48
Total/NA	Analysis	Moisture		1	684929	LWN	EET CHI	11/15/22 08:48

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Client Sample ID: 1401V3-18-B02 (0-5)

Lab Sample ID: 500-225078-2

Date Collected: 11/08/22 12:05

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684629	WRE	EET CHI	11/09/22 18:36
Total/NA	Analysis	8260B		1	684607	W1T	EET CHI	11/12/22 15:54
Total/NA	Prep	3541			685247	KN	EET CHI	11/16/22 08:57 - 11/16/22 15:30 ¹
Total/NA	Analysis	8270D		1	686244	SS	EET CHI	11/21/22 17:45
Total/NA	Prep	3050B			685009	BDE	EET CHI	11/15/22 09:12 - 11/15/22 09:42 ¹
Total/NA	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 20:56
Total/NA	Prep	7471B			685603	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 08:32

Client Sample ID: 1401V3-18-B03 (0-5)

Lab Sample ID: 500-225078-3

Date Collected: 11/08/22 12:30

Matrix: Solid

Date Received: 11/08/22 17:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6010B		1	685243	JJB	EET CHI	11/15/22 18:22
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6020A		1	685028	FXG	EET CHI	11/14/22 16:55
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	7470A			685091	MJG	EET CHI	11/15/22 14:35 - 11/15/22 16:35 ¹
TCLP	Analysis	7470A		1	685348	MJG	EET CHI	11/16/22 11:45
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 19:50
Total/NA	Analysis	Moisture		1	684929	LWN	EET CHI	11/15/22 08:48

Client Sample ID: 1401V3-18-B03 (0-5)

Lab Sample ID: 500-225078-3

Date Collected: 11/08/22 12:30

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684629	WRE	EET CHI	11/09/22 18:36
Total/NA	Analysis	8260B		1	684607	W1T	EET CHI	11/12/22 16:19
Total/NA	Prep	3541			685247	KN	EET CHI	11/16/22 08:57 - 11/16/22 15:30 ¹
Total/NA	Analysis	8270D		5	686470	SS	EET CHI	11/22/22 14:45
Total/NA	Prep	3050B			685009	BDE	EET CHI	11/15/22 09:12 - 11/15/22 09:42 ¹
Total/NA	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 21:06
Total/NA	Prep	3050B			685009	BDE	EET CHI	11/15/22 09:12 - 11/15/22 09:42 ¹
Total/NA	Analysis	6010B		2	685898	JJB	EET CHI	11/18/22 12:43
Total/NA	Prep	7471B			685603	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 08:34

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Client Sample ID: 1401V3-18-B04 (0-5)

Lab Sample ID: 500-225078-4

Date Collected: 11/08/22 12:35

Matrix: Solid

Date Received: 11/08/22 17:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6010B		1	685243	JJB	EET CHI	11/15/22 18:19
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6020A		1	685028	FXG	EET CHI	11/14/22 16:53
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	7470A			685091	MJG	EET CHI	11/15/22 14:35 - 11/15/22 16:35 ¹
TCLP	Analysis	7470A		1	685348	MJG	EET CHI	11/16/22 11:47
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 19:53
Total/NA	Analysis	Moisture		1	684929	LWN	EET CHI	11/15/22 08:48

Client Sample ID: 1401V3-18-B04 (0-5)

Lab Sample ID: 500-225078-4

Date Collected: 11/08/22 12:35

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684629	WRE	EET CHI	11/09/22 18:36
Total/NA	Analysis	8260B		1	684933	PMF	EET CHI	11/15/22 13:11
Total/NA	Prep	3541			685247	KN	EET CHI	11/16/22 08:57 - 11/16/22 15:30 ¹
Total/NA	Analysis	8270D		1	686244	SS	EET CHI	11/21/22 18:31
Total/NA	Prep	3050B			685009	BDE	EET CHI	11/15/22 09:12 - 11/15/22 09:42 ¹
Total/NA	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 21:09
Total/NA	Prep	3050B			685009	BDE	EET CHI	11/15/22 09:12 - 11/15/22 09:42 ¹
Total/NA	Analysis	6010B		2	685898	JJB	EET CHI	11/18/22 12:49
Total/NA	Prep	3050B			685009	BDE	EET CHI	11/15/22 09:12 - 11/15/22 09:42 ¹
Total/NA	Analysis	6010B		5	685898	JJB	EET CHI	11/18/22 12:52
Total/NA	Prep	7471B			685603	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 08:35

Client Sample ID: 1401V3-18-B05 (0-5)

Lab Sample ID: 500-225078-5

Date Collected: 11/08/22 12:45

Matrix: Solid

Date Received: 11/08/22 17:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6010B		1	685243	JJB	EET CHI	11/15/22 18:25
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6020A		1	685028	FXG	EET CHI	11/14/22 16:57
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	7470A			685091	MJG	EET CHI	11/15/22 14:35 - 11/15/22 16:35 ¹
TCLP	Analysis	7470A		1	685348	MJG	EET CHI	11/16/22 11:59
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 19:55

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Client Sample ID: 1401V3-18-B05 (0-5)

Lab Sample ID: 500-225078-5

Date Collected: 11/08/22 12:45

Matrix: Solid

Date Received: 11/08/22 17:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	684929	LWN	EET CHI	11/15/22 08:48

Client Sample ID: 1401V3-18-B05 (0-5)

Lab Sample ID: 500-225078-5

Date Collected: 11/08/22 12:45

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684629	WRE	EET CHI	11/09/22 18:36
Total/NA	Analysis	8260B		1	684607	W1T	EET CHI	11/12/22 18:03
Total/NA	Prep	3541			685247	KN	EET CHI	11/16/22 08:57 - 11/16/22 15:30 ¹
Total/NA	Analysis	8270D		1	686244	SS	EET CHI	11/21/22 18:54
Total/NA	Prep	3050B			685009	BDE	EET CHI	11/15/22 09:12 - 11/15/22 09:42 ¹
Total/NA	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 21:12
Total/NA	Prep	7471B			685603	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 08:37

Client Sample ID: 1401V3-18-B06 (0-5)

Lab Sample ID: 500-225078-6

Date Collected: 11/08/22 12:55

Matrix: Solid

Date Received: 11/08/22 17:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			684557	OAJ	EET CHI	11/11/22 11:34 - 11/12/22 05:34 ¹
SPLP East	Prep	3010A			684789	BDE	EET CHI	11/14/22 08:41 - 11/14/22 09:11 ¹
SPLP East	Analysis	6010B		1	685530	JJB	EET CHI	11/16/22 18:39
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6010B		1	685243	JJB	EET CHI	11/15/22 18:29
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6020A		1	685028	FXG	EET CHI	11/14/22 16:59
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	7470A			685091	MJG	EET CHI	11/15/22 14:35 - 11/15/22 16:35 ¹
TCLP	Analysis	7470A		1	685348	MJG	EET CHI	11/16/22 12:01
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 19:58
Total/NA	Analysis	Moisture		1	684929	LWN	EET CHI	11/15/22 08:48

Client Sample ID: 1401V3-18-B06 (0-5)

Lab Sample ID: 500-225078-6

Date Collected: 11/08/22 12:55

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684629	WRE	EET CHI	11/09/22 18:36
Total/NA	Analysis	8260B		1	684607	W1T	EET CHI	11/12/22 18:34
Total/NA	Prep	3541			685247	KN	EET CHI	11/16/22 08:57 - 11/16/22 15:30 ¹
Total/NA	Analysis	8270D		1	686244	SS	EET CHI	11/21/22 19:17

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Client Sample ID: 1401V3-18-B06 (0-5)

Lab Sample ID: 500-225078-6

Date Collected: 11/08/22 12:55

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			685009	BDE	EET CHI	11/15/22 09:12 - 11/15/22 09:42 ¹
Total/NA	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 21:15
Total/NA	Prep	3050B			685009	BDE	EET CHI	11/15/22 09:12 - 11/15/22 09:42 ¹
Total/NA	Analysis	6010B		2	686262	JJB	EET CHI	11/18/22 13:05
Total/NA	Prep	7471B			685603	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 08:39

Client Sample ID: 1401V3-18-B06 (0-5)D

Lab Sample ID: 500-225078-7

Date Collected: 11/08/22 12:58

Matrix: Solid

Date Received: 11/08/22 17:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			684557	OAJ	EET CHI	11/11/22 11:34 - 11/12/22 05:34 ¹
SPLP East	Prep	3010A			684789	BDE	EET CHI	11/14/22 08:41 - 11/14/22 09:11 ¹
SPLP East	Analysis	6010B		1	685530	JJB	EET CHI	11/16/22 18:42
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6010B		1	685243	JJB	EET CHI	11/15/22 18:38
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6020A		1	685028	FXG	EET CHI	11/14/22 17:05
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6020A		1	685369	FXG	EET CHI	11/16/22 01:56
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	7470A			685091	MJG	EET CHI	11/15/22 14:35 - 11/15/22 16:35 ¹
TCLP	Analysis	7470A		1	685348	MJG	EET CHI	11/16/22 12:03
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 20:00
Total/NA	Analysis	Moisture		1	684929	LWN	EET CHI	11/15/22 08:48

Client Sample ID: 1401V3-18-B06 (0-5)D

Lab Sample ID: 500-225078-7

Date Collected: 11/08/22 12:58

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684629	WRE	EET CHI	11/09/22 18:36
Total/NA	Analysis	8260B		1	684607	W1T	EET CHI	11/12/22 18:59
Total/NA	Prep	3541			685247	KN	EET CHI	11/16/22 08:57 - 11/16/22 15:30 ¹
Total/NA	Analysis	8270D		1	686244	SS	EET CHI	11/21/22 19:40
Total/NA	Prep	3050B			685009	BDE	EET CHI	11/15/22 09:12 - 11/15/22 09:42 ¹
Total/NA	Analysis	6010B		1	685803	JJB	EET CHI	11/17/22 21:18
Total/NA	Prep	7471B			685603	MJG	EET CHI	11/17/22 15:25
Total/NA	Analysis	7471B		1	685886	MJG	EET CHI	11/18/22 08:41

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

- 1
- 2
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Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225078-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

- 1
- 2
- 3
- 4
- 5
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- 11
- 12
- 13
- 14
- 15
- 16

Chain of Custody Record

522918



Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact		Project Manager D. Tiekent		Site Contact A. Happel		Date 11/8/22		COC No 3	
Company Name WSP		Tel/Email		Lab Contact R. Wright		Carrier		3 of 4 COCs	
Address 30 N. LaSalle		Analysis Turnaround Time							
City/State/Zip Chicago, IL		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS							
Phone		TAT if different from Below _____							
Fax		<input checked="" type="checkbox"/> 2 weeks							
Project Name W013-Butterfield Rd		<input type="checkbox"/> 1 week							
Site PN: 3140383-013		<input type="checkbox"/> 2 days							
PO# 1201		<input type="checkbox"/> 1 day							
						<p>500-225078 COC</p>		For Lab Use Only Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/>	
								Job / SDG No 500-225078	
								Sample Specific Notes	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	
1	1401V3-18-B01 (0-5)	11/8/22	1235	C	S	2	X	X	X
2	1401V3-18-B02 (0-5)	11/8/22	1205	C	S	2	X	X	X
3	1401V3-18-B03 (0-5)	11/8/22	1230	C	S	2	X	X	X
4	1401V3-18-B04 (0-5)	11/8/22	1235	C	S	2	X	X	X
5	1401V3-18-B05 (0-5)	11/8/22	1245	C	S	2	X	X	X
6	1401V3-18-B06 (0-5)	11/8/22	1255	C	S	2	X	X	X
7	1401V3-18-B06 (0-5)-Dup	11/8/22	1258	C	S	2	X	X	X
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown						<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months			
Special Instructions/QC Requirements & Comments: *Self dependent on TCLP results									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd		Corr'd		Therm ID No	
Relinquished by Christine Cooper		Company WSP		Date/Time 11/8/22 1542		Received by A. J. Allan		Company EETA	
Relinquished by A. J. Allan		Company EETA		Date/Time 11/8/22 1542		Received by		Company	
Relinquished by		Company		Date/Time		Received by Laboratory by Shirley Lewis		Company EETA	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225078-1

Login Number: 225078

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5,5.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



Generated
11/23/2022 11:38:49 AM

Authorized for release by
Richard Wright, Senior Project Manager
Richard.Wright@et.eurofinsus.com
(708)746-0045



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 365 & FAP 870 (Butterfield Road) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

3 S 100 block of IL 53 (ISGS #1401V3-19)

City: Downers Grove State: IL Zip Code: 60515

County: DuPage Township: Milton

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.82854 Longitude: -88.05128
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: 0430455059 BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): _____ Approximate End Date (mm/dd/yyyy): _____

Estimated Volume of debris (cu. Yd.): 4,258

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov



This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Analytical Data Summary
PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

Key to Data Tables

- MAC = Maximum Allowable Concentration of Chemical Constituent in Uncontaminated Soil Used as Fill Material At Regulated Fill Operations
- mg/kg = Milligrams per kilogram.
- mg/L = Milligrams per liter.
- MSA = Metropolitan Statistical Area
- TACO = Tiered Approach to Corrective Action Objectives
- TCLP = Toxicity Characteristic Leaching Procedure.
- SCGIER = Soil Component of the Groundwater Ingestion Exposure Route
- SPLP = Synthetic Precipitation Leaching Procedure.
- ND = Not detected.
- NA = Not analyzed or not applicable.
- J = Estimated value.
- U = Analyte was analyzed for but not detected.
- PID = Photoionization detector.
- = No PID readings detected above background (within instrument margin of error).

Criteria Qualifiers and Shading

- # = pH is less than 6.25 or greater than 9.0 standard units.
- † = Concentration exceeds the most stringent MAC.
- m = Concentration exceeds the MAC for an MSA.
- * = Concentration exceeds the MAC for Chicago corporate limits.
- c = Concentration exceeds a TACO Tier 1 RO for the Construction Worker Exposure Route.
- r = Concentration exceeds a TACO Tier 1 soil RO for residential properties.
- L = The detected TCLP/SPLP concentration exceeds the TACO Tier 1 RO for the SCGIER.
-  = Concentration exceeds the most stringent MAC, but is below the MAC for an MSA.
-  = Concentration exceeds applicable comparison criteria.

CONTAMINANTS OF CONCERN

SITE	ISGS #1401V3-19 (Hidden Lake Forest Preserve)			Comparison Criteria					
	1401V3-19-B01	1401V3-19-B03		MACs			TACO		
SAMPLE	1401V3-19-B01 (0-6)	1401V3-19-B03 (0-5)	1401V3-19-B03 (5-9)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
MATRIX	Soil	Soil	Soil						
DEPTH (feet)	0-6	0-5	5-9						
pH	8.3	6.9	6.8						
PID (meter units)	--	--	--						
VOCs (mg/kg)									
2-Butanone (MEK)	ND U	ND U	ND U	--	--	--	--	--	--
Acetone	ND U	0.059	ND U	25	--	--	70,000	100,000	--
Carbon disulfide	ND U	0.0017 J	ND U	9	--	--	720	9	--
SVOCs (mg/kg)									
Acenaphthene	0.020 J	ND U	ND UJ	570	--	0.94	4,700	120,000	--
Anthracene	0.070	ND U	ND U	12,000	--	2.6	23,000	610,000	--
Benzo(a)anthracene	0.40	0.0082 J	ND U	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	0.48 †	0.0095 J	ND U	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	0.71	0.010 J	ND U	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	0.27	ND UJ	ND UJ	--	--	4.4	--	--	--
Benzo(k)fluoranthene	0.26	ND UJ	ND U	9	--	8.1	9	1,700	--
Bis(2-ethylhexyl) phthalate	0.074 J	ND U	ND U	46	--	--	46	4,100	--
Chrysene	0.51	0.012 J	ND U	88	--	11	88	17,000	--
Dibenzo(a,h)anthracene	0.056 J	ND UJ	ND UJ	0.09	0.42	1	0.42	17	--
Fluoranthene	1.2	0.020 J	ND U	3,100	--	28	3,100	82,000	--
Fluorene	0.018 J	ND U	ND U	560	--	1.1	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.24	ND UJ	ND UJ	0.9	1.6	5.8	1.6	170	--
Naphthalene	ND U	0.0080 J	ND U	1.8	--	0.26	170	1.8	--
Phenanthrene	0.44	0.0095 J	ND U	--	--	15	--	--	--
Pyrene	0.85	0.020 J	ND U	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)									
Antimony	0.33 J	0.44 J	0.43 J	5	--	--	31	82	--
Arsenic	3.8	11	7.1 J	11.3	13	--	13	61	--
Barium	46	83	65	1,500	--	--	5,500	14,000	--
Beryllium	0.39	0.90	0.90	22	--	--	160	410	--
Boron	9.9	4.6	3.1 J	40	--	--	16,000	41,000	--
Cadmium	0.16	0.23	0.25 J	5.2	--	--	78	200	--
Calcium	140,000	6,200	2,400 J	--	--	--	--	--	--
Chromium	9.1	16	18	21	--	--	230	690	--
Cobalt	4.9	11	11 J	20	--	--	4,700	12,000	--
Copper	10	21	17	2,900	--	--	2,900	8,200	--
Iron	10,000	24,000 †m	22,000 †m	15,000	15,900	--	--	--	--
Lead	15	31	19 J	107	--	--	400	700	--
Magnesium	82,000	5,300	3,500	325,000	--	--	--	730,000	--
Manganese	330	270	280 J	630	636	--	1,600	4,100	--
Mercury	0.021	0.059	0.057	0.89	--	--	10	0.1	--
Nickel	9.9	26	24	100	--	--	1,600	4,100	--
Potassium	890	1,600	1,200 J	--	--	--	--	--	--
Selenium	ND U	0.44 J	ND UJ	1.3	--	--	390	1,000	--
Silver	ND U	0.21 J	0.26 J	4.4	--	--	390	1,000	--
Sodium	420	2,400	1,700 J	--	--	--	--	--	--
Thallium	ND U	0.35 J	ND U	2.6	--	--	6.3	160	--
Vanadium	11	23	25	550	--	--	550	1,400	--
Zinc	45	76	84	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)									
Barium	0.62	0.61	0.13 J	--	--	--	--	--	2
Boron	ND U	0.085 J	ND U	--	--	--	--	--	2
Cadmium	ND U	ND U	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	ND U	0.033	ND U	--	--	--	--	--	1
Iron	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	0.010 L	ND U	--	--	--	--	--	0.0075
Manganese	0.72 L	8.1 L	ND U	--	--	--	--	--	0.15
Nickel	ND U	0.017 J	ND U	--	--	--	--	--	0.1
Zinc	0.033 J	0.022 J	ND U	--	--	--	--	--	5
SPLP Metals (mg/L)									
Lead	NA	0.12 L	NA	--	--	--	--	--	0.0075
Manganese	0.64 L	1.5 L	NA	--	--	--	--	--	0.15

CONTAMINANTS OF CONCERN

SITE	ISGS #1401V3-19 (Hidden Lake Forest Preserve)				Comparison Criteria									
	1401V3-19-B04		1401V3-19-B05		MACs			TACO						
BORING	1401V3-19-B04 (0-5)		1401V3-19-B04 (5-9)		1401V3-19-B05 (0-5)		1401V3-19-B05 (5-9)		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	Soil	Soil	Soil	Soil										
MATRIX	0-5	5-9	0-5	5-9										
DEPTH (feet)	7.6	6.5	7.3	6.4										
pH	--	--	--	--										
PID (meter units)														
VOCs (mg/kg)														
2-Butanone (MEK)	0.0053	J	ND	U	ND	U	0.0059	J	--	--	--	--	--	--
Acetone	0.028	J	ND	U	ND	U	0.024	J	25	--	--	70,000	100,000	--
Carbon disulfide	ND	U	ND	U	ND	U	ND	U	9	--	--	720	9	--
SVOCs (mg/kg)														
Acenaphthene	ND	U	ND	U	ND	U	ND	U	570	--	0.94	4,700	120,000	--
Anthracene	ND	U	ND	U	ND	U	ND	U	12,000	--	2.6	23,000	610,000	--
Benzo(a)anthracene	ND	U	ND	U	0.017	J	ND	U	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	ND	U	ND	U	0.023	J	ND	U	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	ND	U	ND	U	0.031	J	ND	U	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	ND	UJ	ND	UJ	ND	UJ	ND	UJ	--	--	4.4	--	--	--
Benzo(k)fluoranthene	ND	U	ND	U	ND	U	ND	U	9	--	8.1	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND	U	ND	U	ND	U	ND	U	46	--	--	46	4,100	--
Chrysene	ND	U	ND	U	0.027	J	ND	U	88	--	11	88	17,000	--
Dibenzo(a,h)anthracene	ND	UJ	ND	UJ	ND	UJ	ND	UJ	0.09	0.42	1	0.42	17	--
Fluoranthene	0.0087	J	ND	U	0.036	J	ND	U	3,100	--	28	3,100	82,000	--
Fluorene	ND	U	ND	U	ND	U	ND	U	560	--	1.1	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND	UJ	ND	UJ	ND	UJ	ND	UJ	0.9	1.6	5.8	1.6	170	--
Naphthalene	ND	U	ND	U	ND	U	0.0064	J	1.8	--	0.26	170	1.8	--
Phenanthrene	ND	U	ND	U	0.015	J	ND	U	--	--	15	--	--	--
Pyrene	0.0097	J	ND	U	0.037	J	ND	U	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)														
Antimony	0.60	J	0.47	J	0.35	J	0.40	J	5	--	--	31	82	--
Arsenic	11		11		7.6		5.0		11.3	13	--	13	61	--
Barium	44		67		94		140		1,500	--	--	5,500	14,000	--
Beryllium	0.79		0.91		0.78		0.90		22	--	--	160	410	--
Boron	9.4		3.9		8.1		4.6		40	--	--	16,000	41,000	--
Cadmium	0.23		ND	U	0.28		0.22		5.2	--	--	78	200	--
Calcium	27,000		2,000		20,000		4,300		--	--	--	--	--	--
Chromium	16		19		17		18		21	--	--	230	690	--
Cobalt	13		14		12		8.9		20	--	--	4,700	12,000	--
Copper	26		19		22		17		2,900	--	--	2,900	8,200	--
Iron	21,000	†m	22,000	†m	17,000	†m	18,000	†m	15,000	15,900	--	--	--	--
Lead	28		19		69		18		107	--	--	400	700	--
Magnesium	18,000		3,500		13,000		3,400		325,000	--	--	--	730,000	--
Manganese	410		330		350		230		630	636	--	1,600	4,100	--
Mercury	0.032		0.032		0.037		0.026		0.89	--	--	10	0.1	--
Nickel	32		28		28		20		100	--	--	1,600	4,100	--
Potassium	2,100		1,300		2,000		1,300		--	--	--	--	--	--
Selenium	0.37	J	0.59		0.66		0.40	J	1.3	--	--	390	1,000	--
Silver	ND	U	ND	U	ND	U	ND	U	4.4	--	--	390	1,000	--
Sodium	1,800		660		3,300		330		--	--	--	--	--	--
Thallium	0.31	J	0.33	J	0.40	J	0.33	J	2.6	--	--	6.3	160	--
Vanadium	20		29		23		28		550	--	--	550	1,400	--
Zinc	89		63		98		86		5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)														
Barium	0.57		0.32	J	0.46	J	0.41	J	--	--	--	--	--	2
Boron	ND	U	ND	U	ND	U	ND	U	--	--	--	--	--	2
Cadmium	0.0023	J	ND	U	ND	U	ND	U	--	--	--	--	--	0.005
Chromium	ND	U	ND	U	ND	U	ND	U	--	--	--	--	--	0.1
Cobalt	0.019	J	0.031		0.022	J	0.018	J	--	--	--	--	--	1
Iron	0.46		0.27	J	ND	U	0.94		--	--	--	--	--	5
Lead	0.0078	L	ND	U	0.013	L	ND	U	--	--	--	--	--	0.0075
Manganese	9.5	L	4.5	L	5.1	L	4.4	L	--	--	--	--	--	0.15
Nickel	0.022	J	ND	U	0.015	J	ND	U	--	--	--	--	--	0.1
Zinc	0.036	J	0.022	J	0.035	J	ND	U	--	--	--	--	--	5
SPLP Metals (mg/L)														
Lead	0.20	L	NA		0.61	L	NA		--	--	--	--	--	0.0075
Manganese	2.0	L	1.1	L	2.2	L	0.52	L	--	--	--	--	--	0.15

**PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11
CONTAMINANTS OF CONCERN**

SITE	ISGS #1401V3-19 (Hidden Lake Forest Preserve)			Comparison Criteria					
	1401V3-19-B09	1401V3-19-B10	1401V3-19-B11	MACs			TACO		
BORING	1401V3-19-B09 (0-6)	1401V3-19-B10 (0-6)	1401V3-19-B11 (0-6)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1401V3-19-B09 (0-6)	1401V3-19-B10 (0-6)	1401V3-19-B11 (0-6)						
MATRIX	Soil	Soil	Soil						
DEPTH (feet)	0-6	0-6	0-6						
pH	7.1	7.2	7.1						
PID (meter units)	--	--	--						
VOCs (mg/kg)									
2-Butanone (MEK)	0.022 J	ND U	0.0046 J	--	--	--	--	--	--
Acetone	0.075	ND U	0.026 J	25	--	--	70,000	100,000	--
Carbon disulfide	ND U	ND U	ND U	9	--	--	720	9	--
SVOCs (mg/kg)									
Acenaphthene	ND U	ND U	ND U	570	--	0.94	4,700	120,000	--
Anthracene	ND U	ND U	ND U	12,000	--	2.6	23,000	610,000	--
Benzo(a)anthracene	0.0086 J	0.021 J	ND U	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	ND U	0.024 J	ND U	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	ND U	0.036 J	ND U	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	ND UJ	ND UJ	ND UJ	--	--	4.4	--	--	--
Benzo(k)fluoranthene	ND U	0.016 J	ND U	9	--	8.1	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	46	--	--	46	4,100	--
Chrysene	ND U	0.029 J	ND U	88	--	11	88	17,000	--
Dibenzo(a,h)anthracene	ND UJ	ND UJ	ND UJ	0.09	0.42	1	0.42	17	--
Fluoranthene	0.0086 J	0.043	ND U	3,100	--	28	3,100	82,000	--
Fluorene	ND U	ND U	ND U	560	--	1.1	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND UJ	ND UJ	ND UJ	0.9	1.6	5.8	1.6	170	--
Naphthalene	ND U	0.029 J	0.011 J	1.8	--	0.26	170	1.8	--
Phenanthrene	ND U	0.022 J	0.012 J	--	--	15	--	--	--
Pyrene	0.0089 J	0.037 J	0.010 J	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)									
Antimony	0.38 J	0.51 J	0.47 J	5	--	--	31	82	--
Arsenic	7.7	9.2	8.8	11.3	13	--	13	61	--
Barium	120	71	40	1,500	--	--	5,500	14,000	--
Beryllium	0.78	0.79	0.71	22	--	--	160	410	--
Boron	3.5	8.5	12	40	--	--	16,000	41,000	--
Cadmium	ND U	0.29	0.22	5.2	--	--	78	200	--
Calcium	2,700	31,000	55,000	--	--	--	--	--	--
Chromium	16	16	15	21	--	--	230	690	--
Cobalt	11	12	14	20	--	--	4,700	12,000	--
Copper	12	2,000	22	2,900	--	--	2,900	8,200	--
Iron	18,000 †m	19,000 †m	18,000 †m	15,000	15,900	--	--	--	--
Lead	15	29	13	107	--	--	400	700	--
Magnesium	2,400	18,000	27,000	325,000	--	--	--	730,000	--
Manganese	360	510	340	630	636	--	1,600	4,100	--
Mercury	0.026	0.050	0.029	0.89	--	--	10	0.1	--
Nickel	16	28	31	100	--	--	1,600	4,100	--
Potassium	850	2,000	2,500	--	--	--	--	--	--
Selenium	0.54 J	0.53 J	ND U	1.3	--	--	390	1,000	--
Silver	ND U	ND U	ND U	4.4	--	--	390	1,000	--
Sodium	2,700	1,400	910	--	--	--	--	--	--
Thallium	ND U	ND U	0.57	2.6	--	--	6.3	160	--
Vanadium	31	23	19	550	--	--	550	1,400	--
Zinc	41	140	61	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)									
Barium	0.41 J	0.51	0.56	--	--	--	--	--	2
Boron	ND U	ND U	ND U	--	--	--	--	--	2
Cadmium	ND U	ND U	0.0027 J	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	0.027	ND U	0.019 J	--	--	--	--	--	1
Iron	1.3	ND U	ND U	--	--	--	--	--	5
Lead	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	6.0 L	4.7 L	9.2 L	--	--	--	--	--	0.15
Nickel	ND U	ND U	0.012 J	--	--	--	--	--	0.1
Zinc	ND U	ND U	0.028 J	--	--	--	--	--	5
SPLP Metals (mg/L)									
Lead	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	1.1 L	0.92 L	2.1 L	--	--	--	--	--	0.15

**PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11
CONTAMINANTS OF CONCERN**

SITE	ISGS #1401V3-19 (Hidden Lake Forest Preserve)				Comparison Criteria					
	1401V3-19-B12	1401V3-19-B14	1401V3-19-B16	1401V3-19-B17	MACs			TACO		
BORING	1401V3-19-B12 (0-6)	1401V3-19-B14 (0-6)	1401V3-19-B16 (0-6)	1401V3-19-B17 (0-6)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE										
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-6	0-6	0-6	0-6						
pH	7.9	7.4	8.1	7.7 J						
PID (meter units)	--	--	--	--						
VOCs (mg/kg)										
2-Butanone (MEK)	ND U	0.016	ND U	ND U	--	--	--	--	--	--
Acetone	ND U	0.063	ND U	ND U	25	--	--	70,000	100,000	--
Carbon disulfide	ND U	ND U	ND U	ND U	9	--	--	720	9	--
SVOCs (mg/kg)										
Acenaphthene	ND U	ND U	ND U	ND U	570	--	0.94	4,700	120,000	--
Anthracene	ND U	ND U	ND U	ND U	12,000	--	2.6	23,000	610,000	--
Benzo(a)anthracene	0.014 J	0.0059 J	ND U	0.0074 J	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	0.020 J	ND UJ	ND UJ	0.011 J	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	0.028 J	ND UJ	ND UJ	0.012 J	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	ND UJ	ND UJ	ND UJ	ND UJ	--	--	4.4	--	--	--
Benzo(k)fluoranthene	ND UJ	ND UJ	ND UJ	ND UJ	9	--	8.1	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--
Chrysene	0.018 J	ND U	ND U	ND U	88	--	11	88	17,000	--
Dibenzo(a,h)anthracene	ND UJ	ND UJ	ND UJ	ND UJ	0.09	0.42	1	0.42	17	--
Fluoranthene	0.024 J	0.0081 J	ND U	0.016 J	3,100	--	28	3,100	82,000	--
Fluorene	ND U	ND U	ND U	ND U	560	--	1.1	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.010 J	ND UJ	ND UJ	ND UJ	0.9	1.6	5.8	1.6	170	--
Naphthalene	ND U	ND U	ND U	ND U	1.8	--	0.26	170	1.8	--
Phenanthrene	0.0098 J	ND U	ND U	ND U	--	--	15	--	--	--
Pyrene	0.028 J	ND U	ND U	0.014 J	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)										
Antimony	0.45 J	ND U	0.63 J	0.57 J	5	--	--	31	82	--
Arsenic	9.4	4.6	11	9.3	11.3	13	--	13	61	--
Barium	110	180	66	66	1,500	--	--	5,500	14,000	--
Beryllium	1.0	1.2	0.91	0.84	22	--	--	160	410	--
Boron	5.8	2.0 J	8.4	2.8 J	40	--	--	16,000	41,000	--
Cadmium	0.14	0.081 J	0.21	0.095 J	5.2	--	--	78	200	--
Calcium	8,800	5,000	44,000	4,500	--	--	--	--	--	--
Chromium	19	24 †	17	30 †	21	--	--	230	690	--
Cobalt	15	10	13	14	20	--	--	4,700	12,000	--
Copper	28	25	25	19	2,900	--	--	2,900	8,200	--
Iron	25,000 †m	23,000 †m	26,000 †m	22,000 †m	15,000	15,900	--	--	--	--
Lead	32	15	19	18	107	--	--	400	700	--
Magnesium	6,700	4,200	20,000	3,400	325,000	--	--	--	730,000	--
Manganese	340	140	360	840 †m	630	636	--	1,600	4,100	--
Mercury	0.052	0.070	0.046	0.062	0.89	--	--	10	0.1	--
Nickel	41	22	33	23	100	--	--	1,600	4,100	--
Potassium	1,800	1,100	2,000	910	--	--	--	--	--	--
Selenium	ND U	0.49 J	0.43 J	ND U	1.3	--	--	390	1,000	--
Silver	0.35	0.41	0.21 J	0.32	4.4	--	--	390	1,000	--
Sodium	780	1,200	2,100	740	--	--	--	--	--	--
Thallium	ND U	0.40 J	0.40 J	ND U	2.6	--	--	6.3	160	--
Vanadium	26	39	20	27	550	--	--	550	1,400	--
Zinc	75	78	71	62	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	0.57	0.49 J	0.68	0.28 J	--	--	--	--	--	2
Boron	0.070 J	ND U	ND U	ND U	--	--	--	--	--	2
Cadmium	0.0030 J	ND U	ND U	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	0.018 J	0.014 J	ND U	ND U	--	--	--	--	--	1
Iron	ND U	0.25 J	ND U	0.21 J	--	--	--	--	--	5
Lead	0.026 L	0.021 L	ND U	ND U	--	--	--	--	--	0.0075
Manganese	3.4 L	1.9 L	1.2 L	0.042	--	--	--	--	--	0.15
Nickel	0.037	ND U	ND U	ND U	--	--	--	--	--	0.1
Zinc	ND U	ND U	ND U	ND U	--	--	--	--	--	5
SPLP Metals (mg/L)										
Lead	0.20 L	0.052 L	NA	NA	--	--	--	--	--	0.0075
Manganese	0.68 L	0.44 L	0.72 L	NA	--	--	--	--	--	0.15



ANALYTICAL REPORT

PREPARED FOR

Attn: Dean Tiebot
WSP USA Inc.
30 North LaSalle Street
Chicago Illinois 60602

Generated 11/23/2022 11:40:29 AM

JOB DESCRIPTION

IDOT - 196-002-WO 13 IL 56

JOB NUMBER

500-225079-1



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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Job ID: 500-225079-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225079-1

Receipt

The samples were received on 11/8/2022 5:09 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.5° C and 5.0° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The laboratory control sample (LCS) for preparation batch 500-685247 and analytical batch 500-686244 recovered outside control limits for the following analytes: 2-Chlorophenol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270D: Perylene-d12 Internal standard (ISTD) response for the following samples was outside of acceptance limits: 1401V3-19-B18 (0-2) (500-225079-1), 1401V3-19-B17 (0-6) (500-225079-2), 1401V3-19-B16 (0-6) (500-225079-3), 1401V3-19-B15 (0-5) (500-225079-4), 1401V3-19-B15 (5-9) (500-225079-5), 1401V3-19-B14 (0-6) (500-225079-6), 1401V3-19-B13 (0-5) (500-225079-7), 1401V3-19-B13 (5-9) (500-225079-8), 1401V3-19-B12 (0-6) (500-225079-9) and 1401V3-19-B03 (0-5) (500-225079-10). Analytes associated to this internal standard were non-detect and/or below the reporting limit; therefore, re-analysis was not performed.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-686244 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-686244 was outside the method criteria for the following analyte(s): Benzo[g,h,i]perylene, Di-n-octyl phthalate, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The tailing factor for Pentachlorophenol failed in the DFTPP analysis. The tailing factor was acceptable in the CCVIS. This indicates the system was in control and no corrective action was required. (DFTPP 500-686244/1)

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-686470 was outside the method criteria for the following analyte(s): 2,4,5-Trichlorophenol, 2-Fluorobiphenyl (Surr), Acenaphthene, Benzo[g,h,i]perylene, Dibenz(a,h)anthracene, Hexachlorobutadiene and Indeno[1,2,3-cd]pyrene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-686470 was outside the method criteria for the following analyte(s): 4-Nitrophenol, Hexachlorocyclopentadiene and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

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Client Sample ID: 1401V3-19-B17 (0-6)

Lab Sample ID: 500-225079-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.016	J	0.039	0.0072	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.014	J	0.039	0.0077	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.0074	J	0.039	0.0052	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.012	J *3	0.039	0.0084	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.011	J *3	0.039	0.0075	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.57	J	1.2	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	9.3		0.58	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	66		0.58	0.066	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.84		0.23	0.054	mg/Kg	1	✳	6010B	Total/NA
Boron	2.8	J	2.9	0.27	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.095	J	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	4500	B	12	2.0	mg/Kg	1	✳	6010B	Total/NA
Chromium	30		0.58	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	14		0.29	0.076	mg/Kg	1	✳	6010B	Total/NA
Copper	19		0.58	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	22000		12	6.0	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B17 (0-6) (Continued)

Lab Sample ID: 500-225079-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	18		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3400		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	840		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	910		29	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.32		0.29	0.074	mg/Kg	1	☼	6010B	Total/NA
Sodium	740		58	8.5	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	62		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Barium	0.28	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.21	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	0.042		0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.062		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-19-B16 (0-6)

Lab Sample ID: 500-225079-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.63	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	66		0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.91		0.23	0.055	mg/Kg	1	☼	6010B	Total/NA
Boron	8.4		2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.21		0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Calcium	44000	B	59	9.9	mg/Kg	5	☼	6010B	Total/NA
Chromium	17		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	26000		12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	20000		5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	360		0.59	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		29	10	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.43	J	0.59	0.34	mg/Kg	1	☼	6010B	Total/NA
Silver	0.21	J	0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Sodium	2100		59	8.7	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.40	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	71		5.9	2.6	mg/Kg	5	☼	6010B	Total/NA
Barium	0.68		0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.72		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.046		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B14 (0-6)

Lab Sample ID: 500-225079-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.063		0.024	0.010	mg/Kg	1	✳		8260B	Total/NA
2-Butanone (MEK)	0.016		0.0060	0.0026	mg/Kg	1	✳		8260B	Total/NA
Fluoranthene	0.0081	J	0.043	0.0080	mg/Kg	1	✳		8270D	Total/NA
Benzo[a]anthracene	0.0059	J	0.043	0.0058	mg/Kg	1	✳		8270D	Total/NA
Arsenic	4.6		0.63	0.21	mg/Kg	1	✳		6010B	Total/NA
Barium	180		0.63	0.072	mg/Kg	1	✳		6010B	Total/NA
Beryllium	1.2		0.25	0.059	mg/Kg	1	✳		6010B	Total/NA
Boron	2.0	J	3.1	0.29	mg/Kg	1	✳		6010B	Total/NA
Cadmium	0.081	J	0.13	0.023	mg/Kg	1	✳		6010B	Total/NA
Calcium	5000	B	13	2.1	mg/Kg	1	✳		6010B	Total/NA
Chromium	24		0.63	0.31	mg/Kg	1	✳		6010B	Total/NA
Cobalt	10		0.31	0.082	mg/Kg	1	✳		6010B	Total/NA
Copper	25		0.63	0.18	mg/Kg	1	✳		6010B	Total/NA
Iron	23000		13	6.5	mg/Kg	1	✳		6010B	Total/NA
Lead	15		0.31	0.15	mg/Kg	1	✳		6010B	Total/NA
Magnesium	4200		6.3	3.1	mg/Kg	1	✳		6010B	Total/NA
Manganese	140		0.63	0.091	mg/Kg	1	✳		6010B	Total/NA
Nickel	22		0.63	0.18	mg/Kg	1	✳		6010B	Total/NA
Potassium	1100		31	11	mg/Kg	1	✳		6010B	Total/NA
Selenium	0.49	J	0.63	0.37	mg/Kg	1	✳		6010B	Total/NA
Silver	0.41		0.31	0.081	mg/Kg	1	✳		6010B	Total/NA
Sodium	1200		63	9.3	mg/Kg	1	✳		6010B	Total/NA
Thallium	0.40	J	0.63	0.31	mg/Kg	1	✳		6010B	Total/NA
Vanadium	39		0.31	0.074	mg/Kg	1	✳		6010B	Total/NA
Zinc	78		1.3	0.55	mg/Kg	1	✳		6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1			6010B	TCLP
Cobalt	0.014	J	0.025	0.010	mg/L	1			6010B	TCLP
Iron	0.25	J	0.40	0.20	mg/L	1			6010B	TCLP
Lead	0.021		0.0075	0.0075	mg/L	1			6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1			6010B	TCLP
Lead	0.052		0.0075	0.0075	mg/L	1			6010B	SPLP East
Manganese	0.44		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.070		0.021	0.0069	mg/Kg	1	✳		7471B	Total/NA
pH	7.4		0.2	0.2	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B12 (0-6)

Lab Sample ID: 500-225079-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0098	J	0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.024	J	0.039	0.0073	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.028	J	0.039	0.0078	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.014	J	0.039	0.0053	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.018	J	0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.028	J*3	0.039	0.0085	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.020	J*3	0.039	0.0076	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.010	J*3	0.039	0.010	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.45	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	9.4		0.56	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	110		0.56	0.064	mg/Kg	1	✳	6010B	Total/NA
Beryllium	1.0		0.22	0.052	mg/Kg	1	✳	6010B	Total/NA
Boron	5.8		2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.14		0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	8800	B	11	1.9	mg/Kg	1	✳	6010B	Total/NA
Chromium	19		0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	15		0.28	0.074	mg/Kg	1	✳	6010B	Total/NA
Copper	28		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	25000		11	5.8	mg/Kg	1	✳	6010B	Total/NA
Lead	32		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	6700		5.6	2.8	mg/Kg	1	✳	6010B	Total/NA
Manganese	340		0.56	0.081	mg/Kg	1	✳	6010B	Total/NA
Nickel	41		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	1800		28	9.9	mg/Kg	1	✳	6010B	Total/NA
Silver	0.35		0.28	0.072	mg/Kg	1	✳	6010B	Total/NA
Sodium	780		56	8.3	mg/Kg	1	✳	6010B	Total/NA
Vanadium	26		0.28	0.066	mg/Kg	1	✳	6010B	Total/NA
Zinc	75		1.1	0.49	mg/Kg	1	✳	6010B	Total/NA
Barium	0.57		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.070	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0030	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.026		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	3.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.037		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.20		0.0075	0.0075	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B12 (0-6) (Continued)

Lab Sample ID: 500-225079-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.68		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.052		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-19-B03 (0-5)

Lab Sample ID: 500-225079-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.059		0.020	0.0089	mg/Kg	1	☼	8260B	Total/NA
Carbon disulfide	0.0017	J	0.0051	0.0011	mg/Kg	1	☼	8260B	Total/NA
Naphthalene	0.0080	J	0.041	0.0063	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0095	J	0.041	0.0057	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.020	J	0.041	0.0076	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.020	J	0.041	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0082	J	0.041	0.0055	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.012	J	0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.010	J *3	0.041	0.0088	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.0095	J *3	0.041	0.0079	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.44	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		0.61	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	83		0.61	0.069	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.90		0.24	0.057	mg/Kg	1	☼	6010B	Total/NA
Boron	4.6		3.0	0.28	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.23		0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Calcium	6200	B	12	2.1	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.30	0.079	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	24000		12	6.3	mg/Kg	1	☼	6010B	Total/NA
Lead	31		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	5300		6.1	3.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	270		0.61	0.088	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.61	0.18	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		30	11	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.44	J	0.61	0.36	mg/Kg	1	☼	6010B	Total/NA
Silver	0.21	J	0.30	0.078	mg/Kg	1	☼	6010B	Total/NA
Sodium	2400		61	9.0	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.35	J	0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.30	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	76		1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Barium	0.61		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.085	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.033		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.010		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	8.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.022	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.12		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	1.5		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.059		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	6.9		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B03 (5-9)

Lab Sample ID: 500-225079-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.43	J F1	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	7.1		0.60	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	65		0.60	0.068	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.90		0.24	0.056	mg/Kg	1	✳	6010B	Total/NA
Boron	3.1	F1	3.0	0.28	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.25	F1	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	2400	B F1	12	2.0	mg/Kg	1	✳	6010B	Total/NA
Chromium	18		0.60	0.30	mg/Kg	1	✳	6010B	Total/NA
Cobalt	11		0.30	0.078	mg/Kg	1	✳	6010B	Total/NA
Copper	17		0.60	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	22000		12	6.2	mg/Kg	1	✳	6010B	Total/NA
Lead	19	F1	0.30	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	3500		6.0	3.0	mg/Kg	1	✳	6010B	Total/NA
Manganese	280		0.60	0.086	mg/Kg	1	✳	6010B	Total/NA
Nickel	24		0.60	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	1200	F1	30	11	mg/Kg	1	✳	6010B	Total/NA
Silver	0.26	J F1	0.30	0.077	mg/Kg	1	✳	6010B	Total/NA
Sodium	1700	F1	60	8.8	mg/Kg	1	✳	6010B	Total/NA
Vanadium	25		0.30	0.070	mg/Kg	1	✳	6010B	Total/NA
Zinc	84		1.2	0.52	mg/Kg	1	✳	6010B	Total/NA
Barium	0.13	J	0.50	0.050	mg/L	1		6010B	TCLP
Mercury	0.057		0.020	0.0066	mg/Kg	1	✳	7471B	Total/NA
pH	6.8		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010B	Metals (ICP)	SW846	EET CHI
6010B	SPLP Metals	SW846	EET CHI
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225079-2	1401V3-19-B17 (0-6)	Solid	11/08/22 13:18	11/08/22 17:09
500-225079-3	1401V3-19-B16 (0-6)	Solid	11/08/22 13:40	11/08/22 17:09
500-225079-6	1401V3-19-B14 (0-6)	Solid	11/08/22 14:10	11/08/22 17:09
500-225079-9	1401V3-19-B12 (0-6)	Solid	11/08/22 14:50	11/08/22 17:09
500-225079-10	1401V3-19-B03 (0-5)	Solid	11/08/22 15:15	11/08/22 17:09
500-225079-11	1401V3-19-B03 (5-9)	Solid	11/08/22 15:20	11/08/22 17:09

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B17 (0-6)

Lab Sample ID: 500-225079-2

Date Collected: 11/08/22 13:18

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 84.0

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0090	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
Benzene	<0.0021		0.0021	0.00053	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
Bromodichloromethane	<0.0021		0.0021	0.00042	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
Bromoform	<0.0021		0.0021	0.00061	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
Bromomethane	<0.0052		0.0052	0.0020	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
2-Butanone (MEK)	<0.0052		0.0052	0.0023	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
Carbon disulfide	<0.0052		0.0052	0.0011	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
Carbon tetrachloride	<0.0021		0.0021	0.00060	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
Chlorobenzene	<0.0021		0.0021	0.00076	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
Chloroethane	<0.0052		0.0052	0.0015	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
Chloroform	<0.0021		0.0021	0.00072	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
Chloromethane	<0.0052		0.0052	0.0021	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00058	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00062	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
Dibromochloromethane	<0.0021		0.0021	0.00068	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
1,1-Dichloroethane	<0.0021		0.0021	0.00071	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
1,2-Dichloroethane	<0.0052		0.0052	0.0016	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
1,1-Dichloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
1,2-Dichloropropane	<0.0021		0.0021	0.00054	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00073	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
Ethylbenzene	<0.0021		0.0021	0.00099	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
Methylene Chloride	<0.0052		0.0052	0.0020	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0015	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00061	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
Styrene	<0.0021		0.0021	0.00063	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00066	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
Tetrachloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
Toluene	<0.0021		0.0021	0.00052	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00092	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00073	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00070	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00089	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
Trichloroethene	<0.0021		0.0021	0.00070	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
Vinyl acetate	<0.0052		0.0052	0.0018	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
Vinyl chloride	<0.0021		0.0021	0.00092	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1
Xylenes, Total	<0.0041		0.0041	0.00066	mg/Kg	☼	11/09/22 18:36	11/14/22 12:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		75 - 131	11/09/22 18:36	11/14/22 12:31	1
Dibromofluoromethane	103		75 - 126	11/09/22 18:36	11/14/22 12:31	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	11/09/22 18:36	11/14/22 12:31	1
Toluene-d8 (Surr)	98		75 - 124	11/09/22 18:36	11/14/22 12:31	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B17 (0-6)

Lab Sample ID: 500-225079-2

Date Collected: 11/08/22 13:18

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 84.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
2-Chlorophenol	<0.20	+	0.20	0.066	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Pentachlorophenol	<0.79		0.79	0.62	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Fluoranthene	0.016	J	0.039	0.0072	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Pyrene	0.014	J	0.039	0.0077	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Benzo[a]anthracene	0.0074	J	0.039	0.0052	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B17 (0-6)

Lab Sample ID: 500-225079-2

Date Collected: 11/08/22 13:18

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 84.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Benzo[b]fluoranthene	0.012	J *3	0.039	0.0084	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Benzo[k]fluoranthene	<0.039	*3	0.039	0.011	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Benzo[a]pyrene	0.011	J *3	0.039	0.0075	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Indeno[1,2,3-cd]pyrene	<0.039	*3	0.039	0.010	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Dibenz(a,h)anthracene	<0.039	*3	0.039	0.0075	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
Benzo[g,h,i]perylene	<0.039	*3	0.039	0.013	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	11/16/22 08:57	11/21/22 20:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	103		31 - 166	11/16/22 08:57	11/21/22 20:26	1
Phenol-d5	93		30 - 153	11/16/22 08:57	11/21/22 20:26	1
Nitrobenzene-d5 (Surr)	58		37 - 147	11/16/22 08:57	11/21/22 20:26	1
2-Fluorobiphenyl (Surr)	64		43 - 145	11/16/22 08:57	11/21/22 20:26	1
2,4,6-Tribromophenol	98		31 - 143	11/16/22 08:57	11/21/22 20:26	1
Terphenyl-d14 (Surr)	129		42 - 157	11/16/22 08:57	11/21/22 20:26	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.57	J	1.2	0.22	mg/Kg	☼	11/14/22 17:25	11/16/22 14:37	1
Arsenic	9.3		0.58	0.20	mg/Kg	☼	11/14/22 17:25	11/16/22 14:37	1
Barium	66		0.58	0.066	mg/Kg	☼	11/14/22 17:25	11/16/22 14:37	1
Beryllium	0.84		0.23	0.054	mg/Kg	☼	11/14/22 17:25	11/16/22 14:37	1
Boron	2.8	J	2.9	0.27	mg/Kg	☼	11/14/22 17:25	11/16/22 14:37	1
Cadmium	0.095	J	0.12	0.021	mg/Kg	☼	11/14/22 17:25	11/16/22 14:37	1
Calcium	4500	B	12	2.0	mg/Kg	☼	11/14/22 17:25	11/16/22 14:37	1
Chromium	30		0.58	0.29	mg/Kg	☼	11/14/22 17:25	11/16/22 14:37	1
Cobalt	14		0.29	0.076	mg/Kg	☼	11/14/22 17:25	11/16/22 14:37	1
Copper	19		0.58	0.16	mg/Kg	☼	11/14/22 17:25	11/16/22 14:37	1
Iron	22000		12	6.0	mg/Kg	☼	11/14/22 17:25	11/16/22 14:37	1
Lead	18		0.29	0.13	mg/Kg	☼	11/14/22 17:25	11/16/22 14:37	1
Magnesium	3400		5.8	2.9	mg/Kg	☼	11/14/22 17:25	11/16/22 14:37	1
Manganese	840		0.58	0.084	mg/Kg	☼	11/14/22 17:25	11/16/22 14:37	1
Nickel	23		0.58	0.17	mg/Kg	☼	11/14/22 17:25	11/16/22 14:37	1
Potassium	910		29	10	mg/Kg	☼	11/14/22 17:25	11/16/22 14:37	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	11/14/22 17:25	11/16/22 14:37	1
Silver	0.32		0.29	0.074	mg/Kg	☼	11/14/22 17:25	11/16/22 14:37	1
Sodium	740		58	8.5	mg/Kg	☼	11/14/22 17:25	11/16/22 14:37	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	11/14/22 17:25	11/16/22 14:37	1
Vanadium	27		0.29	0.068	mg/Kg	☼	11/14/22 17:25	11/16/22 14:37	1
Zinc	62		1.2	0.51	mg/Kg	☼	11/14/22 17:25	11/17/22 16:23	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.28	J	0.50	0.050	mg/L		11/14/22 08:37	11/15/22 18:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/14/22 08:37	11/15/22 18:45	1
Boron	<0.50		0.50	0.050	mg/L		11/14/22 08:37	11/15/22 18:45	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B17 (0-6)

Lab Sample ID: 500-225079-2

Date Collected: 11/08/22 13:18

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 84.0

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/14/22 08:37	11/15/22 18:45	1
Chromium	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:45	1
Cobalt	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:45	1
Iron	0.21	J	0.40	0.20	mg/L		11/14/22 08:37	11/15/22 18:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/14/22 08:37	11/15/22 18:45	1
Manganese	0.042		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:45	1
Nickel	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:45	1
Selenium	<0.050		0.050	0.020	mg/L		11/14/22 08:37	11/15/22 18:45	1
Silver	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:45	1
Zinc	<0.50		0.50	0.020	mg/L		11/14/22 08:37	11/15/22 18:45	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/14/22 08:37	11/14/22 17:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/14/22 08:37	11/16/22 02:03	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/15/22 14:35	11/16/22 12:07	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.062		0.019	0.0065	mg/Kg	☼	11/16/22 16:15	11/17/22 08:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.7		0.2	0.2	SU			11/15/22 20:07	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B16 (0-6)

Lab Sample ID: 500-225079-3

Date Collected: 11/08/22 13:40

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 82.7

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0080	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00064	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00062	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	✳	11/09/22 18:36	11/14/22 12:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		75 - 131	11/09/22 18:36	11/14/22 12:55	1
Dibromofluoromethane	101		75 - 126	11/09/22 18:36	11/14/22 12:55	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134	11/09/22 18:36	11/14/22 12:55	1
Toluene-d8 (Surr)	102		75 - 124	11/09/22 18:36	11/14/22 12:55	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	✳	11/16/22 08:57	11/21/22 20:49	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	✳	11/16/22 08:57	11/21/22 20:49	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	✳	11/16/22 08:57	11/21/22 20:49	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	✳	11/16/22 08:57	11/21/22 20:49	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B16 (0-6)

Lab Sample ID: 500-225079-3

Date Collected: 11/08/22 13:40

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 82.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
2-Chlorophenol	<0.20	+	0.20	0.068	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
2,4-Dinitrophenol	<0.81		0.81	0.70	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
Pyrene	<0.040		0.040	0.0079	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B16 (0-6)

Lab Sample ID: 500-225079-3

Date Collected: 11/08/22 13:40

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 82.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
Benzo[b]fluoranthene	<0.040	*3	0.040	0.0086	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
Benzo[k]fluoranthene	<0.040	*3	0.040	0.012	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
Benzo[a]pyrene	<0.040	*3	0.040	0.0077	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
Indeno[1,2,3-cd]pyrene	<0.040	*3	0.040	0.010	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
Dibenz(a,h)anthracene	<0.040	*3	0.040	0.0077	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
Benzo[g,h,i]perylene	<0.040	*3	0.040	0.013	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	11/16/22 08:57	11/21/22 20:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	122		31 - 166	11/16/22 08:57	11/21/22 20:49	1
Phenol-d5	101		30 - 153	11/16/22 08:57	11/21/22 20:49	1
Nitrobenzene-d5 (Surr)	77		37 - 147	11/16/22 08:57	11/21/22 20:49	1
2-Fluorobiphenyl (Surr)	87		43 - 145	11/16/22 08:57	11/21/22 20:49	1
2,4,6-Tribromophenol	103		31 - 143	11/16/22 08:57	11/21/22 20:49	1
Terphenyl-d14 (Surr)	137		42 - 157	11/16/22 08:57	11/21/22 20:49	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.63	J	1.2	0.23	mg/Kg	☼	11/14/22 17:25	11/16/22 14:40	1
Arsenic	11		0.59	0.20	mg/Kg	☼	11/14/22 17:25	11/16/22 14:40	1
Barium	66		0.59	0.067	mg/Kg	☼	11/14/22 17:25	11/16/22 14:40	1
Beryllium	0.91		0.23	0.055	mg/Kg	☼	11/14/22 17:25	11/16/22 14:40	1
Boron	8.4		2.9	0.27	mg/Kg	☼	11/14/22 17:25	11/16/22 14:40	1
Cadmium	0.21		0.12	0.021	mg/Kg	☼	11/14/22 17:25	11/16/22 14:40	1
Calcium	44000	B	59	9.9	mg/Kg	☼	11/14/22 17:25	11/17/22 16:26	5
Chromium	17		0.59	0.29	mg/Kg	☼	11/14/22 17:25	11/16/22 14:40	1
Cobalt	13		0.29	0.077	mg/Kg	☼	11/14/22 17:25	11/16/22 14:40	1
Copper	25		0.59	0.16	mg/Kg	☼	11/14/22 17:25	11/16/22 14:40	1
Iron	26000		12	6.1	mg/Kg	☼	11/14/22 17:25	11/16/22 14:40	1
Lead	19		0.29	0.14	mg/Kg	☼	11/14/22 17:25	11/16/22 14:40	1
Magnesium	20000		5.9	2.9	mg/Kg	☼	11/14/22 17:25	11/16/22 14:40	1
Manganese	360		0.59	0.085	mg/Kg	☼	11/14/22 17:25	11/16/22 14:40	1
Nickel	33		0.59	0.17	mg/Kg	☼	11/14/22 17:25	11/16/22 14:40	1
Potassium	2000		29	10	mg/Kg	☼	11/14/22 17:25	11/16/22 14:40	1
Selenium	0.43	J	0.59	0.34	mg/Kg	☼	11/14/22 17:25	11/16/22 14:40	1
Silver	0.21	J	0.29	0.076	mg/Kg	☼	11/14/22 17:25	11/16/22 14:40	1
Sodium	2100		59	8.7	mg/Kg	☼	11/14/22 17:25	11/16/22 14:40	1
Thallium	0.40	J	0.59	0.29	mg/Kg	☼	11/14/22 17:25	11/16/22 14:40	1
Vanadium	20		0.29	0.069	mg/Kg	☼	11/14/22 17:25	11/16/22 14:40	1
Zinc	71		5.9	2.6	mg/Kg	☼	11/14/22 17:25	11/17/22 16:26	5

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.68		0.50	0.050	mg/L		11/14/22 08:37	11/15/22 18:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/14/22 08:37	11/15/22 18:48	1
Boron	<0.50		0.50	0.050	mg/L		11/14/22 08:37	11/15/22 18:48	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B16 (0-6)

Lab Sample ID: 500-225079-3

Date Collected: 11/08/22 13:40

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 82.7

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/14/22 08:37	11/15/22 18:48	1
Chromium	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:48	1
Cobalt	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:48	1
Iron	<0.40		0.40	0.20	mg/L		11/14/22 08:37	11/15/22 18:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/14/22 08:37	11/15/22 18:48	1
Manganese	1.2		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:48	1
Nickel	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:48	1
Selenium	<0.050		0.050	0.020	mg/L		11/14/22 08:37	11/15/22 18:48	1
Silver	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:48	1
Zinc	<0.50		0.50	0.020	mg/L		11/14/22 08:37	11/15/22 18:48	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.72		0.025	0.010	mg/L		11/14/22 08:41	11/16/22 18:48	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/14/22 08:37	11/14/22 17:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/14/22 08:37	11/16/22 02:06	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/15/22 14:35	11/16/22 12:09	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046		0.019	0.0062	mg/Kg	☆	11/16/22 16:15	11/17/22 08:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.1		0.2	0.2	SU			11/15/22 20:12	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B14 (0-6)

Lab Sample ID: 500-225079-6

Date Collected: 11/08/22 14:10

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 76.3

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.063		0.024	0.010	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
Benzene	<0.0024		0.0024	0.00061	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
Bromodichloromethane	<0.0024		0.0024	0.00049	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
Bromoform	<0.0024		0.0024	0.00070	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
Bromomethane	<0.0060		0.0060	0.0023	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
2-Butanone (MEK)	0.016		0.0060	0.0026	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
Carbon disulfide	<0.0060		0.0060	0.0012	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
Carbon tetrachloride	<0.0024		0.0024	0.00069	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
Chlorobenzene	<0.0024		0.0024	0.00088	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
Chloroethane	<0.0060		0.0060	0.0018	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
Chloroform	<0.0024		0.0024	0.00083	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
Chloromethane	<0.0060		0.0060	0.0024	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
cis-1,2-Dichloroethene	<0.0024		0.0024	0.00067	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
cis-1,3-Dichloropropene	<0.0024		0.0024	0.00072	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
Dibromochloromethane	<0.0024		0.0024	0.00078	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
1,1-Dichloroethane	<0.0024		0.0024	0.00082	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
1,2-Dichloroethane	<0.0060		0.0060	0.0019	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
1,1-Dichloroethene	<0.0024		0.0024	0.00082	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
1,2-Dichloropropane	<0.0024		0.0024	0.00062	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
1,3-Dichloropropane, Total	<0.0024		0.0024	0.00084	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
Ethylbenzene	<0.0024		0.0024	0.0011	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
2-Hexanone	<0.0060		0.0060	0.0019	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
Methylene Chloride	<0.0060		0.0060	0.0023	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
4-Methyl-2-pentanone (MIBK)	<0.0060		0.0060	0.0018	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
Methyl tert-butyl ether	<0.0024		0.0024	0.00070	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
Styrene	<0.0024		0.0024	0.00072	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
1,1,2,2-Tetrachloroethane	<0.0024		0.0024	0.00076	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
Tetrachloroethene	<0.0024		0.0024	0.00081	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
Toluene	<0.0024		0.0024	0.00060	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
trans-1,2-Dichloroethene	<0.0024		0.0024	0.0011	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
trans-1,3-Dichloropropene	<0.0024		0.0024	0.00084	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
1,1,1-Trichloroethane	<0.0024		0.0024	0.00080	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
1,1,2-Trichloroethane	<0.0024		0.0024	0.0010	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
Trichloroethene	<0.0024		0.0024	0.00081	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
Vinyl acetate	<0.0060		0.0060	0.0021	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
Vinyl chloride	<0.0024		0.0024	0.0011	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1
Xylenes, Total	<0.0048		0.0048	0.00076	mg/Kg	☼	11/09/22 18:36	11/14/22 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		75 - 131	11/09/22 18:36	11/14/22 14:08	1
Dibromofluoromethane	102		75 - 126	11/09/22 18:36	11/14/22 14:08	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	11/09/22 18:36	11/14/22 14:08	1
Toluene-d8 (Surr)	98		75 - 124	11/09/22 18:36	11/14/22 14:08	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.22		0.22	0.096	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.065	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
1,3-Dichlorobenzene	<0.22		0.22	0.049	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
1,4-Dichlorobenzene	<0.22		0.22	0.055	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B14 (0-6)

Lab Sample ID: 500-225079-6

Date Collected: 11/08/22 14:10

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 76.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.22		0.22	0.051	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
2-Methylphenol	<0.22		0.22	0.069	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.050	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
N-Nitrosodi-n-propylamine	<0.087		0.087	0.053	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Hexachloroethane	<0.22		0.22	0.065	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
2-Chlorophenol	<0.22	+	0.22	0.074	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Nitrobenzene	<0.043		0.043	0.011	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.044	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.046	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Isophorone	<0.22		0.22	0.048	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
2,4-Dimethylphenol	<0.43		0.43	0.16	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Hexachlorobutadiene	<0.22		0.22	0.068	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Naphthalene	<0.043		0.043	0.0066	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
2,4-Dichlorophenol	<0.43		0.43	0.10	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
4-Chloroaniline	<0.87		0.87	0.20	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
2,4,6-Trichlorophenol	<0.43		0.43	0.15	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
2,4,5-Trichlorophenol	<0.43		0.43	0.098	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Hexachlorocyclopentadiene	<0.87		0.87	0.25	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
2-Methylnaphthalene	<0.087		0.087	0.0079	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
2-Nitroaniline	<0.22		0.22	0.058	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
2-Chloronaphthalene	<0.22		0.22	0.048	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
4-Chloro-3-methylphenol	<0.43		0.43	0.15	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
2,6-Dinitrotoluene	<0.22		0.22	0.085	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
2-Nitrophenol	<0.43		0.43	0.10	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
3-Nitroaniline	<0.43		0.43	0.13	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Dimethyl phthalate	<0.22		0.22	0.056	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
2,4-Dinitrophenol	<0.87		0.87	0.76	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Acenaphthylene	<0.043		0.043	0.0057	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
2,4-Dinitrotoluene	<0.22		0.22	0.068	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Acenaphthene	<0.043		0.043	0.0077	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Dibenzofuran	<0.22		0.22	0.050	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
4-Nitrophenol	<0.87		0.87	0.41	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Fluorene	<0.043		0.043	0.0061	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
4-Nitroaniline	<0.43		0.43	0.18	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.057	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Hexachlorobenzene	<0.087		0.087	0.010	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Diethyl phthalate	<0.22		0.22	0.073	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.050	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Pentachlorophenol	<0.87		0.87	0.69	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
N-Nitrosodiphenylamine	<0.22		0.22	0.051	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
4,6-Dinitro-2-methylphenol	<0.87		0.87	0.35	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Phenanthrene	<0.043		0.043	0.0060	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Anthracene	<0.043		0.043	0.0072	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Carbazole	<0.22		0.22	0.11	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Di-n-butyl phthalate	<0.22		0.22	0.066	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Fluoranthene	0.0081	J	0.043	0.0080	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Pyrene	<0.043		0.043	0.0086	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Butyl benzyl phthalate	<0.22		0.22	0.082	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Benzo[a]anthracene	0.0059	J	0.043	0.0058	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B14 (0-6)

Lab Sample ID: 500-225079-6

Date Collected: 11/08/22 14:10

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 76.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.043		0.043	0.012	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.060	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.079	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Di-n-octyl phthalate	<0.22		0.22	0.070	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Benzo[b]fluoranthene	<0.043	*3	0.043	0.0093	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Benzo[k]fluoranthene	<0.043	*3	0.043	0.013	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Benzo[a]pyrene	<0.043	*3	0.043	0.0083	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Indeno[1,2,3-cd]pyrene	<0.043	*3	0.043	0.011	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Dibenz(a,h)anthracene	<0.043	*3	0.043	0.0083	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
Benzo[g,h,i]perylene	<0.043	*3	0.043	0.014	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1
3 & 4 Methylphenol	<0.22		0.22	0.072	mg/Kg	☼	11/16/22 08:57	11/21/22 21:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	89		31 - 166	11/16/22 08:57	11/21/22 21:58	1
Phenol-d5	82		30 - 153	11/16/22 08:57	11/21/22 21:58	1
Nitrobenzene-d5 (Surr)	67		37 - 147	11/16/22 08:57	11/21/22 21:58	1
2-Fluorobiphenyl (Surr)	73		43 - 145	11/16/22 08:57	11/21/22 21:58	1
2,4,6-Tribromophenol	77		31 - 143	11/16/22 08:57	11/21/22 21:58	1
Terphenyl-d14 (Surr)	112		42 - 157	11/16/22 08:57	11/21/22 21:58	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.24	mg/Kg	☼	11/14/22 17:25	11/16/22 14:56	1
Arsenic	4.6		0.63	0.21	mg/Kg	☼	11/14/22 17:25	11/16/22 14:56	1
Barium	180		0.63	0.072	mg/Kg	☼	11/14/22 17:25	11/16/22 14:56	1
Beryllium	1.2		0.25	0.059	mg/Kg	☼	11/14/22 17:25	11/16/22 14:56	1
Boron	2.0	J	3.1	0.29	mg/Kg	☼	11/14/22 17:25	11/16/22 14:56	1
Cadmium	0.081	J	0.13	0.023	mg/Kg	☼	11/14/22 17:25	11/16/22 14:56	1
Calcium	5000	B	13	2.1	mg/Kg	☼	11/14/22 17:25	11/16/22 14:56	1
Chromium	24		0.63	0.31	mg/Kg	☼	11/14/22 17:25	11/16/22 14:56	1
Cobalt	10		0.31	0.082	mg/Kg	☼	11/14/22 17:25	11/16/22 14:56	1
Copper	25		0.63	0.18	mg/Kg	☼	11/14/22 17:25	11/16/22 14:56	1
Iron	23000		13	6.5	mg/Kg	☼	11/14/22 17:25	11/16/22 14:56	1
Lead	15		0.31	0.15	mg/Kg	☼	11/14/22 17:25	11/16/22 14:56	1
Magnesium	4200		6.3	3.1	mg/Kg	☼	11/14/22 17:25	11/16/22 14:56	1
Manganese	140		0.63	0.091	mg/Kg	☼	11/14/22 17:25	11/16/22 14:56	1
Nickel	22		0.63	0.18	mg/Kg	☼	11/14/22 17:25	11/16/22 14:56	1
Potassium	1100		31	11	mg/Kg	☼	11/14/22 17:25	11/16/22 14:56	1
Selenium	0.49	J	0.63	0.37	mg/Kg	☼	11/14/22 17:25	11/16/22 14:56	1
Silver	0.41		0.31	0.081	mg/Kg	☼	11/14/22 17:25	11/16/22 14:56	1
Sodium	1200		63	9.3	mg/Kg	☼	11/14/22 17:25	11/16/22 14:56	1
Thallium	0.40	J	0.63	0.31	mg/Kg	☼	11/14/22 17:25	11/16/22 14:56	1
Vanadium	39		0.31	0.074	mg/Kg	☼	11/14/22 17:25	11/16/22 14:56	1
Zinc	78		1.3	0.55	mg/Kg	☼	11/14/22 17:25	11/17/22 16:39	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.49	J	0.50	0.050	mg/L		11/14/22 08:37	11/15/22 18:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/14/22 08:37	11/15/22 18:58	1
Boron	<0.50		0.50	0.050	mg/L		11/14/22 08:37	11/15/22 18:58	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B14 (0-6)

Lab Sample ID: 500-225079-6

Date Collected: 11/08/22 14:10

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 76.3

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/14/22 08:37	11/15/22 18:58	1
Chromium	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:58	1
Cobalt	0.014	J	0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:58	1
Iron	0.25	J	0.40	0.20	mg/L		11/14/22 08:37	11/15/22 18:58	1
Lead	0.021		0.0075	0.0075	mg/L		11/14/22 08:37	11/15/22 18:58	1
Manganese	1.9		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:58	1
Nickel	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:58	1
Selenium	<0.050		0.050	0.020	mg/L		11/14/22 08:37	11/15/22 18:58	1
Silver	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 18:58	1
Zinc	<0.50		0.50	0.020	mg/L		11/14/22 08:37	11/15/22 18:58	1

Method: SW846 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.052		0.0075	0.0075	mg/L		11/14/22 08:41	11/16/22 18:51	1
Manganese	0.44		0.025	0.010	mg/L		11/14/22 08:41	11/16/22 18:51	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/14/22 08:37	11/14/22 17:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/14/22 08:37	11/16/22 02:17	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/15/22 14:35	11/16/22 12:15	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.070		0.021	0.0069	mg/Kg	☼	11/16/22 16:15	11/17/22 08:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.4		0.2	0.2	SU			11/15/22 20:17	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B12 (0-6)

Lab Sample ID: 500-225079-9

Date Collected: 11/08/22 14:50

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 84.1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0081	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
Benzene	<0.0019		0.0019	0.00047	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
Bromomethane	<0.0046		0.0046	0.0018	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
2-Butanone (MEK)	<0.0046		0.0046	0.0021	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
Chlorobenzene	<0.0019		0.0019	0.00068	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
Chloroform	<0.0019		0.0019	0.00064	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
1,1-Dichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00065	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00054	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00059	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
Tetrachloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00082	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
Vinyl chloride	<0.0019		0.0019	0.00082	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	11/09/22 18:36	11/14/22 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		75 - 131	11/09/22 18:36	11/14/22 15:20	1
Dibromofluoromethane	105		75 - 126	11/09/22 18:36	11/14/22 15:20	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	11/09/22 18:36	11/14/22 15:20	1
Toluene-d8 (Surr)	100		75 - 124	11/09/22 18:36	11/14/22 15:20	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B12 (0-6)

Lab Sample ID: 500-225079-9

Date Collected: 11/08/22 14:50

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 84.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
2-Chlorophenol	<0.20	+	0.20	0.067	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Phenanthrene	0.0098	J	0.039	0.0055	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Fluoranthene	0.024	J	0.039	0.0073	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Pyrene	0.028	J	0.039	0.0078	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Benzo[a]anthracene	0.014	J	0.039	0.0053	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B12 (0-6)

Lab Sample ID: 500-225079-9

Date Collected: 11/08/22 14:50

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 84.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.018	J	0.039	0.011	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Benzo[b]fluoranthene	0.028	J *3	0.039	0.0085	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Benzo[k]fluoranthene	<0.039	*3	0.039	0.012	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Benzo[a]pyrene	0.020	J *3	0.039	0.0076	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Indeno[1,2,3-cd]pyrene	0.010	J *3	0.039	0.010	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Dibenz(a,h)anthracene	<0.039	*3	0.039	0.0076	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
Benzo[g,h,i]perylene	<0.039	*3	0.039	0.013	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	11/16/22 08:57	11/21/22 23:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	115		31 - 166	11/16/22 08:57	11/21/22 23:07	1
Phenol-d5	102		30 - 153	11/16/22 08:57	11/21/22 23:07	1
Nitrobenzene-d5 (Surr)	70		37 - 147	11/16/22 08:57	11/21/22 23:07	1
2-Fluorobiphenyl (Surr)	77		43 - 145	11/16/22 08:57	11/21/22 23:07	1
2,4,6-Tribromophenol	77		31 - 143	11/16/22 08:57	11/21/22 23:07	1
Terphenyl-d14 (Surr)	120		42 - 157	11/16/22 08:57	11/21/22 23:07	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.45	J	1.1	0.22	mg/Kg	☼	11/14/22 17:25	11/16/22 15:06	1
Arsenic	9.4		0.56	0.19	mg/Kg	☼	11/14/22 17:25	11/16/22 15:06	1
Barium	110		0.56	0.064	mg/Kg	☼	11/14/22 17:25	11/16/22 15:06	1
Beryllium	1.0		0.22	0.052	mg/Kg	☼	11/14/22 17:25	11/16/22 15:06	1
Boron	5.8		2.8	0.26	mg/Kg	☼	11/14/22 17:25	11/16/22 15:06	1
Cadmium	0.14		0.11	0.020	mg/Kg	☼	11/14/22 17:25	11/16/22 15:06	1
Calcium	8800	B	11	1.9	mg/Kg	☼	11/14/22 17:25	11/16/22 15:06	1
Chromium	19		0.56	0.28	mg/Kg	☼	11/14/22 17:25	11/16/22 15:06	1
Cobalt	15		0.28	0.074	mg/Kg	☼	11/14/22 17:25	11/16/22 15:06	1
Copper	28		0.56	0.16	mg/Kg	☼	11/14/22 17:25	11/16/22 15:06	1
Iron	25000		11	5.8	mg/Kg	☼	11/14/22 17:25	11/16/22 15:06	1
Lead	32		0.28	0.13	mg/Kg	☼	11/14/22 17:25	11/16/22 15:06	1
Magnesium	6700		5.6	2.8	mg/Kg	☼	11/14/22 17:25	11/16/22 15:06	1
Manganese	340		0.56	0.081	mg/Kg	☼	11/14/22 17:25	11/16/22 15:06	1
Nickel	41		0.56	0.16	mg/Kg	☼	11/14/22 17:25	11/16/22 15:06	1
Potassium	1800		28	9.9	mg/Kg	☼	11/14/22 17:25	11/16/22 15:06	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	11/14/22 17:25	11/16/22 15:06	1
Silver	0.35		0.28	0.072	mg/Kg	☼	11/14/22 17:25	11/16/22 15:06	1
Sodium	780		56	8.3	mg/Kg	☼	11/14/22 17:25	11/16/22 15:06	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	11/14/22 17:25	11/16/22 15:06	1
Vanadium	26		0.28	0.066	mg/Kg	☼	11/14/22 17:25	11/16/22 15:06	1
Zinc	75		1.1	0.49	mg/Kg	☼	11/14/22 17:25	11/17/22 16:59	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.57		0.50	0.050	mg/L		11/14/22 08:37	11/15/22 19:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/14/22 08:37	11/15/22 19:38	1
Boron	0.070	J	0.50	0.050	mg/L		11/14/22 08:37	11/15/22 19:38	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B12 (0-6)

Lab Sample ID: 500-225079-9

Date Collected: 11/08/22 14:50

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 84.1

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0030	J	0.0050	0.0020	mg/L		11/14/22 08:37	11/15/22 19:38	1
Chromium	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 19:38	1
Cobalt	0.018	J	0.025	0.010	mg/L		11/14/22 08:37	11/15/22 19:38	1
Iron	<0.40		0.40	0.20	mg/L		11/14/22 08:37	11/15/22 19:38	1
Lead	0.026		0.0075	0.0075	mg/L		11/14/22 08:37	11/16/22 11:45	1
Manganese	3.4		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 19:38	1
Nickel	0.037		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 19:38	1
Selenium	<0.050		0.050	0.020	mg/L		11/14/22 08:37	11/15/22 19:38	1
Silver	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 19:38	1
Zinc	<0.50		0.50	0.020	mg/L		11/14/22 08:37	11/15/22 19:38	1

Method: SW846 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.20		0.0075	0.0075	mg/L		11/14/22 08:41	11/16/22 19:07	1
Manganese	0.68		0.025	0.010	mg/L		11/14/22 08:41	11/16/22 19:07	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/14/22 08:37	11/16/22 02:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/14/22 08:37	11/16/22 02:58	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/15/22 14:35	11/16/22 12:39	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.052		0.018	0.0060	mg/Kg	☼	11/16/22 16:15	11/17/22 08:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.9		0.2	0.2	SU			11/15/22 20:25	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B03 (0-5)

Lab Sample ID: 500-225079-10

Date Collected: 11/08/22 15:15

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 79.3

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.059		0.020	0.0089	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
Benzene	<0.0020		0.0020	0.00052	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
Bromodichloromethane	<0.0020		0.0020	0.00042	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
Bromoform	<0.0020		0.0020	0.00060	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
2-Butanone (MEK)	<0.0051		0.0051	0.0023	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
Carbon disulfide	0.0017 J		0.0051	0.0011	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
Carbon tetrachloride	<0.0020		0.0020	0.00059	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
Chlorobenzene	<0.0020		0.0020	0.00075	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
Chloroethane	<0.0051		0.0051	0.0015	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
Chloroform	<0.0020		0.0020	0.00071	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
Chloromethane	<0.0051		0.0051	0.0021	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00057	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00062	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
Dibromochloromethane	<0.0020		0.0020	0.00067	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
1,1-Dichloroethane	<0.0020		0.0020	0.00070	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
1,1-Dichloroethene	<0.0020		0.0020	0.00070	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
1,2-Dichloropropane	<0.0020		0.0020	0.00053	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00072	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
Ethylbenzene	<0.0020		0.0020	0.00098	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
Methylene Chloride	<0.0051		0.0051	0.0020	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0015	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00060	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
Styrene	<0.0020		0.0020	0.00062	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00065	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
Tetrachloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
Toluene	<0.0020		0.0020	0.00052	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00090	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00072	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00088	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
Trichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
Vinyl acetate	<0.0051		0.0051	0.0018	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
Vinyl chloride	<0.0020		0.0020	0.00090	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1
Xylenes, Total	<0.0041		0.0041	0.00065	mg/Kg	☼	11/09/22 18:36	11/14/22 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		75 - 131	11/09/22 18:36	11/14/22 15:44	1
Dibromofluoromethane	109		75 - 126	11/09/22 18:36	11/14/22 15:44	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 134	11/09/22 18:36	11/14/22 15:44	1
Toluene-d8 (Surr)	108		75 - 124	11/09/22 18:36	11/14/22 15:44	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.091	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
1,4-Dichlorobenzene	<0.21		0.21	0.052	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B03 (0-5)

Lab Sample ID: 500-225079-10

Date Collected: 11/08/22 15:15

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 79.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
2-Methylphenol	<0.21		0.21	0.065	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
2-Chlorophenol	<0.21	+	0.21	0.070	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
2,4-Dimethylphenol	<0.41		0.41	0.15	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Naphthalene	0.0080	J	0.041	0.0063	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
2,4,5-Trichlorophenol	<0.41		0.41	0.093	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
2,6-Dinitrotoluene	<0.21		0.21	0.080	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
2-Nitrophenol	<0.41		0.41	0.096	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Acenaphthene	<0.041		0.041	0.0073	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Fluorene	<0.041		0.041	0.0057	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Hexachlorobenzene	<0.082		0.082	0.0095	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Phenanthrene	0.0095	J	0.041	0.0057	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Anthracene	<0.041		0.041	0.0068	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Fluoranthene	0.020	J	0.041	0.0076	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Pyrene	0.020	J	0.041	0.0081	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Benzo[a]anthracene	0.0082	J	0.041	0.0055	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B03 (0-5)

Lab Sample ID: 500-225079-10

Date Collected: 11/08/22 15:15

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 79.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.012	J	0.041	0.011	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Benzo[b]fluoranthene	0.010	J *3	0.041	0.0088	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Benzo[k]fluoranthene	<0.041	*3	0.041	0.012	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Benzo[a]pyrene	0.0095	J *3	0.041	0.0079	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Indeno[1,2,3-cd]pyrene	<0.041	*3	0.041	0.011	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Dibenz(a,h)anthracene	<0.041	*3	0.041	0.0079	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
Benzo[g,h,i]perylene	<0.041	*3	0.041	0.013	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	11/16/22 08:57	11/21/22 23:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	107		31 - 166	11/16/22 08:57	11/21/22 23:30	1
Phenol-d5	98		30 - 153	11/16/22 08:57	11/21/22 23:30	1
Nitrobenzene-d5 (Surr)	66		37 - 147	11/16/22 08:57	11/21/22 23:30	1
2-Fluorobiphenyl (Surr)	72		43 - 145	11/16/22 08:57	11/21/22 23:30	1
2,4,6-Tribromophenol	103		31 - 143	11/16/22 08:57	11/21/22 23:30	1
Terphenyl-d14 (Surr)	140		42 - 157	11/16/22 08:57	11/21/22 23:30	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J	1.2	0.24	mg/Kg	☼	11/14/22 17:25	11/16/22 15:09	1
Arsenic	11		0.61	0.21	mg/Kg	☼	11/14/22 17:25	11/16/22 15:09	1
Barium	83		0.61	0.069	mg/Kg	☼	11/14/22 17:25	11/16/22 15:09	1
Beryllium	0.90		0.24	0.057	mg/Kg	☼	11/14/22 17:25	11/16/22 15:09	1
Boron	4.6		3.0	0.28	mg/Kg	☼	11/14/22 17:25	11/16/22 15:09	1
Cadmium	0.23		0.12	0.022	mg/Kg	☼	11/14/22 17:25	11/16/22 15:09	1
Calcium	6200	B	12	2.1	mg/Kg	☼	11/14/22 17:25	11/16/22 15:09	1
Chromium	16		0.61	0.30	mg/Kg	☼	11/14/22 17:25	11/16/22 15:09	1
Cobalt	11		0.30	0.079	mg/Kg	☼	11/14/22 17:25	11/16/22 15:09	1
Copper	21		0.61	0.17	mg/Kg	☼	11/14/22 17:25	11/16/22 15:09	1
Iron	24000		12	6.3	mg/Kg	☼	11/14/22 17:25	11/16/22 15:09	1
Lead	31		0.30	0.14	mg/Kg	☼	11/14/22 17:25	11/16/22 15:09	1
Magnesium	5300		6.1	3.0	mg/Kg	☼	11/14/22 17:25	11/16/22 15:09	1
Manganese	270		0.61	0.088	mg/Kg	☼	11/14/22 17:25	11/16/22 15:09	1
Nickel	26		0.61	0.18	mg/Kg	☼	11/14/22 17:25	11/16/22 15:09	1
Potassium	1600		30	11	mg/Kg	☼	11/14/22 17:25	11/16/22 15:09	1
Selenium	0.44	J	0.61	0.36	mg/Kg	☼	11/14/22 17:25	11/16/22 15:09	1
Silver	0.21	J	0.30	0.078	mg/Kg	☼	11/14/22 17:25	11/16/22 15:09	1
Sodium	2400		61	9.0	mg/Kg	☼	11/14/22 17:25	11/16/22 15:09	1
Thallium	0.35	J	0.61	0.30	mg/Kg	☼	11/14/22 17:25	11/16/22 15:09	1
Vanadium	23		0.30	0.071	mg/Kg	☼	11/14/22 17:25	11/16/22 15:09	1
Zinc	76		1.2	0.53	mg/Kg	☼	11/14/22 17:25	11/17/22 17:02	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.61		0.50	0.050	mg/L		11/14/22 08:37	11/15/22 19:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/14/22 08:37	11/15/22 19:08	1
Boron	0.085	J	0.50	0.050	mg/L		11/14/22 08:37	11/15/22 19:08	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B03 (0-5)

Lab Sample ID: 500-225079-10

Date Collected: 11/08/22 15:15

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 79.3

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/14/22 08:37	11/15/22 19:08	1
Chromium	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 19:08	1
Cobalt	0.033		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 19:08	1
Iron	<0.40		0.40	0.20	mg/L		11/14/22 08:37	11/15/22 19:08	1
Lead	0.010		0.0075	0.0075	mg/L		11/14/22 08:37	11/15/22 19:08	1
Manganese	8.1		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 19:08	1
Nickel	0.017 J		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 19:08	1
Selenium	<0.050		0.050	0.020	mg/L		11/14/22 08:37	11/15/22 19:08	1
Silver	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 19:08	1
Zinc	0.022 J		0.50	0.020	mg/L		11/14/22 08:37	11/15/22 19:08	1

Method: SW846 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.12		0.0075	0.0075	mg/L		11/14/22 08:41	11/16/22 19:10	1
Manganese	1.5		0.025	0.010	mg/L		11/14/22 08:41	11/16/22 19:10	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/14/22 08:37	11/14/22 17:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/14/22 08:37	11/16/22 02:27	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/15/22 14:35	11/16/22 12:26	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.059		0.018	0.0061	mg/Kg	☼	11/16/22 16:15	11/17/22 09:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.9		0.2	0.2	SU			11/15/22 20:27	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B03 (5-9)

Lab Sample ID: 500-225079-11

Date Collected: 11/08/22 15:20

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 80.9

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0084	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
Carbon disulfide	<0.0048		0.0048	0.0010	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
Ethylbenzene	<0.0019		0.0019	0.00092	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00085	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
Vinyl acetate	<0.0048		0.0048	0.0017	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
Vinyl chloride	<0.0019		0.0019	0.00085	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	11/09/22 18:36	11/14/22 16:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		75 - 131	11/09/22 18:36	11/14/22 16:08	1
Dibromofluoromethane	107		75 - 126	11/09/22 18:36	11/14/22 16:08	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	11/09/22 18:36	11/14/22 16:08	1
Toluene-d8 (Surr)	96		75 - 124	11/09/22 18:36	11/14/22 16:08	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B03 (5-9)

Lab Sample ID: 500-225079-11

Date Collected: 11/08/22 15:20

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 80.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
2-Chlorophenol	<0.20	+	0.20	0.068	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B03 (5-9)

Lab Sample ID: 500-225079-11

Date Collected: 11/08/22 15:20

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 80.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	11/16/22 08:57	11/22/22 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	59		31 - 166	11/16/22 08:57	11/22/22 14:21	1
Phenol-d5	55		30 - 153	11/16/22 08:57	11/22/22 14:21	1
Nitrobenzene-d5 (Surr)	40		37 - 147	11/16/22 08:57	11/22/22 14:21	1
2-Fluorobiphenyl (Surr)	44		43 - 145	11/16/22 08:57	11/22/22 14:21	1
2,4,6-Tribromophenol	72		31 - 143	11/16/22 08:57	11/22/22 14:21	1
Terphenyl-d14 (Surr)	107		42 - 157	11/16/22 08:57	11/22/22 14:21	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J F1	1.2	0.23	mg/Kg	☼	11/14/22 17:25	11/16/22 15:12	1
Arsenic	7.1		0.60	0.20	mg/Kg	☼	11/14/22 17:25	11/16/22 15:12	1
Barium	65		0.60	0.068	mg/Kg	☼	11/14/22 17:25	11/16/22 15:12	1
Beryllium	0.90		0.24	0.056	mg/Kg	☼	11/14/22 17:25	11/16/22 15:12	1
Boron	3.1	F1	3.0	0.28	mg/Kg	☼	11/14/22 17:25	11/16/22 15:12	1
Cadmium	0.25	F1	0.12	0.021	mg/Kg	☼	11/14/22 17:25	11/16/22 15:12	1
Calcium	2400	B F1	12	2.0	mg/Kg	☼	11/14/22 17:25	11/16/22 15:12	1
Chromium	18		0.60	0.30	mg/Kg	☼	11/14/22 17:25	11/16/22 15:12	1
Cobalt	11		0.30	0.078	mg/Kg	☼	11/14/22 17:25	11/16/22 15:12	1
Copper	17		0.60	0.17	mg/Kg	☼	11/14/22 17:25	11/16/22 15:12	1
Iron	22000		12	6.2	mg/Kg	☼	11/14/22 17:25	11/16/22 15:12	1
Lead	19	F1	0.30	0.14	mg/Kg	☼	11/14/22 17:25	11/16/22 15:12	1
Magnesium	3500		6.0	3.0	mg/Kg	☼	11/14/22 17:25	11/16/22 15:12	1
Manganese	280		0.60	0.086	mg/Kg	☼	11/14/22 17:25	11/16/22 15:12	1
Nickel	24		0.60	0.17	mg/Kg	☼	11/14/22 17:25	11/16/22 15:12	1
Potassium	1200	F1	30	11	mg/Kg	☼	11/14/22 17:25	11/16/22 15:12	1
Selenium	<0.60	F1	0.60	0.35	mg/Kg	☼	11/14/22 17:25	11/16/22 15:12	1
Silver	0.26	J F1	0.30	0.077	mg/Kg	☼	11/14/22 17:25	11/16/22 15:12	1
Sodium	1700	F1	60	8.8	mg/Kg	☼	11/14/22 17:25	11/16/22 15:12	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	11/14/22 17:25	11/16/22 15:12	1
Vanadium	25		0.30	0.070	mg/Kg	☼	11/14/22 17:25	11/16/22 15:12	1
Zinc	84		1.2	0.52	mg/Kg	☼	11/14/22 17:25	11/17/22 17:05	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.13	J	0.50	0.050	mg/L		11/14/22 08:37	11/15/22 19:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/14/22 08:37	11/15/22 19:18	1
Boron	<0.50		0.50	0.050	mg/L		11/14/22 08:37	11/15/22 19:18	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B03 (5-9)

Lab Sample ID: 500-225079-11

Date Collected: 11/08/22 15:20

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 80.9

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/14/22 08:37	11/15/22 19:18	1
Chromium	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 19:18	1
Cobalt	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 19:18	1
Iron	<0.40		0.40	0.20	mg/L		11/14/22 08:37	11/15/22 19:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/14/22 08:37	11/15/22 19:18	1
Manganese	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 19:18	1
Nickel	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 19:18	1
Selenium	<0.050		0.050	0.020	mg/L		11/14/22 08:37	11/15/22 19:18	1
Silver	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 19:18	1
Zinc	<0.50		0.50	0.020	mg/L		11/14/22 08:37	11/15/22 19:18	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/14/22 08:37	11/14/22 17:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/14/22 08:37	11/16/22 02:37	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/15/22 14:35	11/16/22 12:28	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.057		0.020	0.0066	mg/Kg	☼	11/16/22 16:15	11/17/22 09:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.8		0.2	0.2	SU			11/15/22 20:29	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
♠	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

GC/MS VOA

Prep Batch: 684631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225079-1	1401V3-19-B18 (0-2)	Total/NA	Solid	5035	
500-225079-2	1401V3-19-B17 (0-6)	Total/NA	Solid	5035	
500-225079-3	1401V3-19-B16 (0-6)	Total/NA	Solid	5035	
500-225079-4	1401V3-19-B15 (0-5)	Total/NA	Solid	5035	
500-225079-5	1401V3-19-B15 (5-9)	Total/NA	Solid	5035	
500-225079-6	1401V3-19-B14 (0-6)	Total/NA	Solid	5035	
500-225079-7	1401V3-19-B13 (0-5)	Total/NA	Solid	5035	
500-225079-8	1401V3-19-B13 (5-9)	Total/NA	Solid	5035	
500-225079-9	1401V3-19-B12 (0-6)	Total/NA	Solid	5035	
500-225079-10	1401V3-19-B03 (0-5)	Total/NA	Solid	5035	
500-225079-11	1401V3-19-B03 (5-9)	Total/NA	Solid	5035	

Analysis Batch: 684731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225079-1	1401V3-19-B18 (0-2)	Total/NA	Solid	8260B	684631
500-225079-2	1401V3-19-B17 (0-6)	Total/NA	Solid	8260B	684631
500-225079-3	1401V3-19-B16 (0-6)	Total/NA	Solid	8260B	684631
500-225079-4	1401V3-19-B15 (0-5)	Total/NA	Solid	8260B	684631
500-225079-5	1401V3-19-B15 (5-9)	Total/NA	Solid	8260B	684631
500-225079-6	1401V3-19-B14 (0-6)	Total/NA	Solid	8260B	684631
500-225079-7	1401V3-19-B13 (0-5)	Total/NA	Solid	8260B	684631
500-225079-8	1401V3-19-B13 (5-9)	Total/NA	Solid	8260B	684631
500-225079-9	1401V3-19-B12 (0-6)	Total/NA	Solid	8260B	684631
500-225079-10	1401V3-19-B03 (0-5)	Total/NA	Solid	8260B	684631
500-225079-11	1401V3-19-B03 (5-9)	Total/NA	Solid	8260B	684631
MB 500-684731/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-684731/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-684731/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 685247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225079-1	1401V3-19-B18 (0-2)	Total/NA	Solid	3541	
500-225079-2	1401V3-19-B17 (0-6)	Total/NA	Solid	3541	
500-225079-3	1401V3-19-B16 (0-6)	Total/NA	Solid	3541	
500-225079-4	1401V3-19-B15 (0-5)	Total/NA	Solid	3541	
500-225079-5	1401V3-19-B15 (5-9)	Total/NA	Solid	3541	
500-225079-6	1401V3-19-B14 (0-6)	Total/NA	Solid	3541	
500-225079-7	1401V3-19-B13 (0-5)	Total/NA	Solid	3541	
500-225079-8	1401V3-19-B13 (5-9)	Total/NA	Solid	3541	
500-225079-9	1401V3-19-B12 (0-6)	Total/NA	Solid	3541	
500-225079-10	1401V3-19-B03 (0-5)	Total/NA	Solid	3541	
500-225079-11	1401V3-19-B03 (5-9)	Total/NA	Solid	3541	
MB 500-685247/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-685247/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 686244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225079-1	1401V3-19-B18 (0-2)	Total/NA	Solid	8270D	685247
500-225079-2	1401V3-19-B17 (0-6)	Total/NA	Solid	8270D	685247

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

GC/MS Semi VOA (Continued)

Analysis Batch: 686244 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225079-3	1401V3-19-B16 (0-6)	Total/NA	Solid	8270D	685247
500-225079-4	1401V3-19-B15 (0-5)	Total/NA	Solid	8270D	685247
500-225079-5	1401V3-19-B15 (5-9)	Total/NA	Solid	8270D	685247
500-225079-6	1401V3-19-B14 (0-6)	Total/NA	Solid	8270D	685247
500-225079-7	1401V3-19-B13 (0-5)	Total/NA	Solid	8270D	685247
500-225079-8	1401V3-19-B13 (5-9)	Total/NA	Solid	8270D	685247
500-225079-9	1401V3-19-B12 (0-6)	Total/NA	Solid	8270D	685247
500-225079-10	1401V3-19-B03 (0-5)	Total/NA	Solid	8270D	685247
MB 500-685247/1-A	Method Blank	Total/NA	Solid	8270D	685247
LCS 500-685247/2-A	Lab Control Sample	Total/NA	Solid	8270D	685247

Analysis Batch: 686470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225079-11	1401V3-19-B03 (5-9)	Total/NA	Solid	8270D	685247

Metals

Leach Batch: 684530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225079-1	1401V3-19-B18 (0-2)	TCLP	Solid	1311	
500-225079-2	1401V3-19-B17 (0-6)	TCLP	Solid	1311	
500-225079-3	1401V3-19-B16 (0-6)	TCLP	Solid	1311	
500-225079-4	1401V3-19-B15 (0-5)	TCLP	Solid	1311	
500-225079-5	1401V3-19-B15 (5-9)	TCLP	Solid	1311	
500-225079-6	1401V3-19-B14 (0-6)	TCLP	Solid	1311	
500-225079-7	1401V3-19-B13 (0-5)	TCLP	Solid	1311	
500-225079-8	1401V3-19-B13 (5-9)	TCLP	Solid	1311	
500-225079-10	1401V3-19-B03 (0-5)	TCLP	Solid	1311	
500-225079-11	1401V3-19-B03 (5-9)	TCLP	Solid	1311	
LB 500-684530/1-B	Method Blank	TCLP	Solid	1311	
LB 500-684530/1-C	Method Blank	TCLP	Solid	1311	
500-225079-11 MS	1401V3-19-B03 (5-9)	TCLP	Solid	1311	
500-225079-11 DU	1401V3-19-B03 (5-9)	TCLP	Solid	1311	

Leach Batch: 684547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225079-9	1401V3-19-B12 (0-6)	TCLP	Solid	1311	
LB2 500-684547/1-B	Method Blank	TCLP	Solid	1311	
LB2 500-684547/2-B	Method Blank	TCLP	Solid	1311	

Leach Batch: 684557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225079-3	1401V3-19-B16 (0-6)	SPLP East	Solid	1312	
500-225079-5	1401V3-19-B15 (5-9)	SPLP East	Solid	1312	
500-225079-6	1401V3-19-B14 (0-6)	SPLP East	Solid	1312	
500-225079-7	1401V3-19-B13 (0-5)	SPLP East	Solid	1312	
500-225079-8	1401V3-19-B13 (5-9)	SPLP East	Solid	1312	
500-225079-9	1401V3-19-B12 (0-6)	SPLP East	Solid	1312	
500-225079-10	1401V3-19-B03 (0-5)	SPLP East	Solid	1312	
LB 500-684557/1-B	Method Blank	SPLP East	Solid	1312	

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Metals

Prep Batch: 684787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225079-1	1401V3-19-B18 (0-2)	TCLP	Solid	3010A	684530
500-225079-2	1401V3-19-B17 (0-6)	TCLP	Solid	3010A	684530
500-225079-3	1401V3-19-B16 (0-6)	TCLP	Solid	3010A	684530
500-225079-4	1401V3-19-B15 (0-5)	TCLP	Solid	3010A	684530
500-225079-5	1401V3-19-B15 (5-9)	TCLP	Solid	3010A	684530
500-225079-6	1401V3-19-B14 (0-6)	TCLP	Solid	3010A	684530
500-225079-7	1401V3-19-B13 (0-5)	TCLP	Solid	3010A	684530
500-225079-8	1401V3-19-B13 (5-9)	TCLP	Solid	3010A	684530
500-225079-9	1401V3-19-B12 (0-6)	TCLP	Solid	3010A	684547
500-225079-10	1401V3-19-B03 (0-5)	TCLP	Solid	3010A	684530
500-225079-11	1401V3-19-B03 (5-9)	TCLP	Solid	3010A	684530
LB 500-684530/1-B	Method Blank	TCLP	Solid	3010A	684530
LB2 500-684547/1-B	Method Blank	TCLP	Solid	3010A	684547
LCS 500-684787/25-A	Lab Control Sample	Total/NA	Solid	3010A	
LCS 500-684787/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-225079-11 MS	1401V3-19-B03 (5-9)	TCLP	Solid	3010A	684530
500-225079-11 DU	1401V3-19-B03 (5-9)	TCLP	Solid	3010A	684530

Prep Batch: 684789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225079-3	1401V3-19-B16 (0-6)	SPLP East	Solid	3010A	684557
500-225079-5	1401V3-19-B15 (5-9)	SPLP East	Solid	3010A	684557
500-225079-6	1401V3-19-B14 (0-6)	SPLP East	Solid	3010A	684557
500-225079-7	1401V3-19-B13 (0-5)	SPLP East	Solid	3010A	684557
500-225079-8	1401V3-19-B13 (5-9)	SPLP East	Solid	3010A	684557
500-225079-9	1401V3-19-B12 (0-6)	SPLP East	Solid	3010A	684557
500-225079-10	1401V3-19-B03 (0-5)	SPLP East	Solid	3010A	684557
LB 500-684557/1-B	Method Blank	SPLP East	Solid	3010A	684557
LCS 500-684789/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 684901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225079-1	1401V3-19-B18 (0-2)	Total/NA	Solid	3050B	
MB 500-684901/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-684901/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 684903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225079-2	1401V3-19-B17 (0-6)	Total/NA	Solid	3050B	
500-225079-3	1401V3-19-B16 (0-6)	Total/NA	Solid	3050B	
500-225079-4	1401V3-19-B15 (0-5)	Total/NA	Solid	3050B	
500-225079-5	1401V3-19-B15 (5-9)	Total/NA	Solid	3050B	
500-225079-6	1401V3-19-B14 (0-6)	Total/NA	Solid	3050B	
500-225079-7	1401V3-19-B13 (0-5)	Total/NA	Solid	3050B	
500-225079-8	1401V3-19-B13 (5-9)	Total/NA	Solid	3050B	
500-225079-9	1401V3-19-B12 (0-6)	Total/NA	Solid	3050B	
500-225079-10	1401V3-19-B03 (0-5)	Total/NA	Solid	3050B	
500-225079-11	1401V3-19-B03 (5-9)	Total/NA	Solid	3050B	
MB 500-684903/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-684903/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-225079-11 MS	1401V3-19-B03 (5-9)	Total/NA	Solid	3050B	

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Metals (Continued)

Prep Batch: 684903 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225079-11 MSD	1401V3-19-B03 (5-9)	Total/NA	Solid	3050B	
500-225079-11 DU	1401V3-19-B03 (5-9)	Total/NA	Solid	3050B	

Analysis Batch: 685028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225079-1	1401V3-19-B18 (0-2)	TCLP	Solid	6020A	684787
500-225079-2	1401V3-19-B17 (0-6)	TCLP	Solid	6020A	684787
500-225079-3	1401V3-19-B16 (0-6)	TCLP	Solid	6020A	684787
500-225079-4	1401V3-19-B15 (0-5)	TCLP	Solid	6020A	684787
500-225079-5	1401V3-19-B15 (5-9)	TCLP	Solid	6020A	684787
500-225079-6	1401V3-19-B14 (0-6)	TCLP	Solid	6020A	684787
500-225079-7	1401V3-19-B13 (0-5)	TCLP	Solid	6020A	684787
500-225079-8	1401V3-19-B13 (5-9)	TCLP	Solid	6020A	684787
500-225079-10	1401V3-19-B03 (0-5)	TCLP	Solid	6020A	684787
500-225079-11	1401V3-19-B03 (5-9)	TCLP	Solid	6020A	684787
LB 500-684530/1-B	Method Blank	TCLP	Solid	6020A	684787
LCS 500-684787/2-A	Lab Control Sample	Total/NA	Solid	6020A	684787
500-225079-11 MS	1401V3-19-B03 (5-9)	TCLP	Solid	6020A	684787
500-225079-11 DU	1401V3-19-B03 (5-9)	TCLP	Solid	6020A	684787

Prep Batch: 685091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225079-1	1401V3-19-B18 (0-2)	TCLP	Solid	7470A	684530
500-225079-2	1401V3-19-B17 (0-6)	TCLP	Solid	7470A	684530
500-225079-3	1401V3-19-B16 (0-6)	TCLP	Solid	7470A	684530
500-225079-4	1401V3-19-B15 (0-5)	TCLP	Solid	7470A	684530
500-225079-5	1401V3-19-B15 (5-9)	TCLP	Solid	7470A	684530
500-225079-6	1401V3-19-B14 (0-6)	TCLP	Solid	7470A	684530
500-225079-7	1401V3-19-B13 (0-5)	TCLP	Solid	7470A	684530
500-225079-8	1401V3-19-B13 (5-9)	TCLP	Solid	7470A	684530
500-225079-9	1401V3-19-B12 (0-6)	TCLP	Solid	7470A	684547
500-225079-10	1401V3-19-B03 (0-5)	TCLP	Solid	7470A	684530
500-225079-11	1401V3-19-B03 (5-9)	TCLP	Solid	7470A	684530
LB 500-684530/1-C	Method Blank	TCLP	Solid	7470A	684530
LB2 500-684547/2-B	Method Blank	TCLP	Solid	7470A	684547
MB 500-685091/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-685091/14-A	Lab Control Sample	Total/NA	Solid	7470A	
LCS 500-685091/37-A	Lab Control Sample	Total/NA	Solid	7470A	
500-225079-11 MS	1401V3-19-B03 (5-9)	TCLP	Solid	7470A	684530
500-225079-11 DU	1401V3-19-B03 (5-9)	TCLP	Solid	7470A	684530

Analysis Batch: 685232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225079-1	1401V3-19-B18 (0-2)	Total/NA	Solid	6010B	684901
MB 500-684901/1-A	Method Blank	Total/NA	Solid	6010B	684901
LCS 500-684901/2-A	Lab Control Sample	Total/NA	Solid	6010B	684901

Analysis Batch: 685243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225079-1	1401V3-19-B18 (0-2)	TCLP	Solid	6010B	684787
500-225079-2	1401V3-19-B17 (0-6)	TCLP	Solid	6010B	684787

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Metals (Continued)

Analysis Batch: 685243 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225079-3	1401V3-19-B16 (0-6)	TCLP	Solid	6010B	684787
500-225079-4	1401V3-19-B15 (0-5)	TCLP	Solid	6010B	684787
500-225079-5	1401V3-19-B15 (5-9)	TCLP	Solid	6010B	684787
500-225079-6	1401V3-19-B14 (0-6)	TCLP	Solid	6010B	684787
500-225079-7	1401V3-19-B13 (0-5)	TCLP	Solid	6010B	684787
500-225079-8	1401V3-19-B13 (5-9)	TCLP	Solid	6010B	684787
500-225079-9	1401V3-19-B12 (0-6)	TCLP	Solid	6010B	684787
500-225079-10	1401V3-19-B03 (0-5)	TCLP	Solid	6010B	684787
500-225079-11	1401V3-19-B03 (5-9)	TCLP	Solid	6010B	684787
LB 500-684530/1-B	Method Blank	TCLP	Solid	6010B	684787
LB2 500-684547/1-B	Method Blank	TCLP	Solid	6010B	684787
LCS 500-684787/25-A	Lab Control Sample	Total/NA	Solid	6010B	684787
LCS 500-684787/2-A	Lab Control Sample	Total/NA	Solid	6010B	684787
500-225079-11 MS	1401V3-19-B03 (5-9)	TCLP	Solid	6010B	684787
500-225079-11 DU	1401V3-19-B03 (5-9)	TCLP	Solid	6010B	684787

Analysis Batch: 685348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225079-1	1401V3-19-B18 (0-2)	TCLP	Solid	7470A	685091
500-225079-2	1401V3-19-B17 (0-6)	TCLP	Solid	7470A	685091
500-225079-3	1401V3-19-B16 (0-6)	TCLP	Solid	7470A	685091
500-225079-4	1401V3-19-B15 (0-5)	TCLP	Solid	7470A	685091
500-225079-5	1401V3-19-B15 (5-9)	TCLP	Solid	7470A	685091
500-225079-6	1401V3-19-B14 (0-6)	TCLP	Solid	7470A	685091
500-225079-7	1401V3-19-B13 (0-5)	TCLP	Solid	7470A	685091
500-225079-8	1401V3-19-B13 (5-9)	TCLP	Solid	7470A	685091
500-225079-9	1401V3-19-B12 (0-6)	TCLP	Solid	7470A	685091
500-225079-10	1401V3-19-B03 (0-5)	TCLP	Solid	7470A	685091
500-225079-11	1401V3-19-B03 (5-9)	TCLP	Solid	7470A	685091
LB 500-684530/1-C	Method Blank	TCLP	Solid	7470A	685091
LB2 500-684547/2-B	Method Blank	TCLP	Solid	7470A	685091
MB 500-685091/12-A	Method Blank	Total/NA	Solid	7470A	685091
LCS 500-685091/14-A	Lab Control Sample	Total/NA	Solid	7470A	685091
LCS 500-685091/37-A	Lab Control Sample	Total/NA	Solid	7470A	685091
500-225079-11 MS	1401V3-19-B03 (5-9)	TCLP	Solid	7470A	685091
500-225079-11 DU	1401V3-19-B03 (5-9)	TCLP	Solid	7470A	685091

Analysis Batch: 685369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225079-1	1401V3-19-B18 (0-2)	TCLP	Solid	6020A	684787
500-225079-2	1401V3-19-B17 (0-6)	TCLP	Solid	6020A	684787
500-225079-3	1401V3-19-B16 (0-6)	TCLP	Solid	6020A	684787
500-225079-4	1401V3-19-B15 (0-5)	TCLP	Solid	6020A	684787
500-225079-5	1401V3-19-B15 (5-9)	TCLP	Solid	6020A	684787
500-225079-6	1401V3-19-B14 (0-6)	TCLP	Solid	6020A	684787
500-225079-7	1401V3-19-B13 (0-5)	TCLP	Solid	6020A	684787
500-225079-8	1401V3-19-B13 (5-9)	TCLP	Solid	6020A	684787
500-225079-9	1401V3-19-B12 (0-6)	TCLP	Solid	6020A	684787
500-225079-10	1401V3-19-B03 (0-5)	TCLP	Solid	6020A	684787
500-225079-11	1401V3-19-B03 (5-9)	TCLP	Solid	6020A	684787
LB2 500-684547/1-B	Method Blank	TCLP	Solid	6020A	684787

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Metals (Continued)

Analysis Batch: 685369 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-684787/25-A	Lab Control Sample	Total/NA	Solid	6020A	684787
500-225079-11 MS	1401V3-19-B03 (5-9)	TCLP	Solid	6020A	684787
500-225079-11 DU	1401V3-19-B03 (5-9)	TCLP	Solid	6020A	684787

Prep Batch: 685376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225079-1	1401V3-19-B18 (0-2)	Total/NA	Solid	7471B	
500-225079-2	1401V3-19-B17 (0-6)	Total/NA	Solid	7471B	
500-225079-3	1401V3-19-B16 (0-6)	Total/NA	Solid	7471B	
500-225079-4	1401V3-19-B15 (0-5)	Total/NA	Solid	7471B	
500-225079-5	1401V3-19-B15 (5-9)	Total/NA	Solid	7471B	
500-225079-6	1401V3-19-B14 (0-6)	Total/NA	Solid	7471B	
500-225079-7	1401V3-19-B13 (0-5)	Total/NA	Solid	7471B	
500-225079-8	1401V3-19-B13 (5-9)	Total/NA	Solid	7471B	
500-225079-9	1401V3-19-B12 (0-6)	Total/NA	Solid	7471B	
500-225079-10	1401V3-19-B03 (0-5)	Total/NA	Solid	7471B	
500-225079-11	1401V3-19-B03 (5-9)	Total/NA	Solid	7471B	
MB 500-685376/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-685376/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-225079-1 MS	1401V3-19-B18 (0-2)	Total/NA	Solid	7471B	
500-225079-1 MSD	1401V3-19-B18 (0-2)	Total/NA	Solid	7471B	
500-225079-1 DU	1401V3-19-B18 (0-2)	Total/NA	Solid	7471B	

Analysis Batch: 685514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225079-2	1401V3-19-B17 (0-6)	Total/NA	Solid	6010B	684903
500-225079-3	1401V3-19-B16 (0-6)	Total/NA	Solid	6010B	684903
500-225079-4	1401V3-19-B15 (0-5)	Total/NA	Solid	6010B	684903
500-225079-5	1401V3-19-B15 (5-9)	Total/NA	Solid	6010B	684903
500-225079-6	1401V3-19-B14 (0-6)	Total/NA	Solid	6010B	684903
500-225079-7	1401V3-19-B13 (0-5)	Total/NA	Solid	6010B	684903
500-225079-8	1401V3-19-B13 (5-9)	Total/NA	Solid	6010B	684903
500-225079-9	1401V3-19-B12 (0-6)	TCLP	Solid	6010B	684787
500-225079-9	1401V3-19-B12 (0-6)	Total/NA	Solid	6010B	684903
500-225079-10	1401V3-19-B03 (0-5)	Total/NA	Solid	6010B	684903
500-225079-11	1401V3-19-B03 (5-9)	Total/NA	Solid	6010B	684903
MB 500-684903/1-A	Method Blank	Total/NA	Solid	6010B	684903
LCS 500-684903/2-A	Lab Control Sample	Total/NA	Solid	6010B	684903
MRL 500-685514/15	Lab Control Sample	Total/NA	Solid	6010B	
500-225079-11 MS	1401V3-19-B03 (5-9)	Total/NA	Solid	6010B	684903
500-225079-11 MSD	1401V3-19-B03 (5-9)	Total/NA	Solid	6010B	684903
500-225079-11 DU	1401V3-19-B03 (5-9)	Total/NA	Solid	6010B	684903

Analysis Batch: 685530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225079-3	1401V3-19-B16 (0-6)	SPLP East	Solid	6010B	684789
500-225079-5	1401V3-19-B15 (5-9)	SPLP East	Solid	6010B	684789
500-225079-6	1401V3-19-B14 (0-6)	SPLP East	Solid	6010B	684789
500-225079-7	1401V3-19-B13 (0-5)	SPLP East	Solid	6010B	684789
500-225079-8	1401V3-19-B13 (5-9)	SPLP East	Solid	6010B	684789
500-225079-9	1401V3-19-B12 (0-6)	SPLP East	Solid	6010B	684789

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Metals (Continued)

Analysis Batch: 685530 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225079-10	1401V3-19-B03 (0-5)	SPLP East	Solid	6010B	684789
LB 500-684557/1-B	Method Blank	SPLP East	Solid	6010B	684789
LCS 500-684789/2-A	Lab Control Sample	Total/NA	Solid	6010B	684789

Analysis Batch: 685531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225079-1	1401V3-19-B18 (0-2)	Total/NA	Solid	6010B	684901
500-225079-1	1401V3-19-B18 (0-2)	Total/NA	Solid	6010B	684901
MB 500-684901/1-A	Method Blank	Total/NA	Solid	6010B	684901
LCS 500-684901/2-A	Lab Control Sample	Total/NA	Solid	6010B	684901

Analysis Batch: 685535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225079-1	1401V3-19-B18 (0-2)	Total/NA	Solid	7471B	685376
500-225079-2	1401V3-19-B17 (0-6)	Total/NA	Solid	7471B	685376
500-225079-3	1401V3-19-B16 (0-6)	Total/NA	Solid	7471B	685376
500-225079-4	1401V3-19-B15 (0-5)	Total/NA	Solid	7471B	685376
500-225079-5	1401V3-19-B15 (5-9)	Total/NA	Solid	7471B	685376
500-225079-6	1401V3-19-B14 (0-6)	Total/NA	Solid	7471B	685376
500-225079-7	1401V3-19-B13 (0-5)	Total/NA	Solid	7471B	685376
500-225079-8	1401V3-19-B13 (5-9)	Total/NA	Solid	7471B	685376
500-225079-9	1401V3-19-B12 (0-6)	Total/NA	Solid	7471B	685376
500-225079-10	1401V3-19-B03 (0-5)	Total/NA	Solid	7471B	685376
500-225079-11	1401V3-19-B03 (5-9)	Total/NA	Solid	7471B	685376
MB 500-685376/12-A	Method Blank	Total/NA	Solid	7471B	685376
LCS 500-685376/13-A	Lab Control Sample	Total/NA	Solid	7471B	685376
500-225079-1 MS	1401V3-19-B18 (0-2)	Total/NA	Solid	7471B	685376
500-225079-1 MSD	1401V3-19-B18 (0-2)	Total/NA	Solid	7471B	685376
500-225079-1 DU	1401V3-19-B18 (0-2)	Total/NA	Solid	7471B	685376

Analysis Batch: 685798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225079-2	1401V3-19-B17 (0-6)	Total/NA	Solid	6010B	684903
500-225079-3	1401V3-19-B16 (0-6)	Total/NA	Solid	6010B	684903
500-225079-4	1401V3-19-B15 (0-5)	Total/NA	Solid	6010B	684903
500-225079-5	1401V3-19-B15 (5-9)	Total/NA	Solid	6010B	684903
500-225079-5	1401V3-19-B15 (5-9)	Total/NA	Solid	6010B	684903
500-225079-6	1401V3-19-B14 (0-6)	Total/NA	Solid	6010B	684903
500-225079-7	1401V3-19-B13 (0-5)	Total/NA	Solid	6010B	684903
500-225079-8	1401V3-19-B13 (5-9)	Total/NA	Solid	6010B	684903
500-225079-9	1401V3-19-B12 (0-6)	Total/NA	Solid	6010B	684903
500-225079-10	1401V3-19-B03 (0-5)	Total/NA	Solid	6010B	684903
500-225079-11	1401V3-19-B03 (5-9)	Total/NA	Solid	6010B	684903
MB 500-684903/1-A	Method Blank	Total/NA	Solid	6010B	684903
LCS 500-684903/2-A	Lab Control Sample	Total/NA	Solid	6010B	684903
500-225079-11 MS	1401V3-19-B03 (5-9)	Total/NA	Solid	6010B	684903
500-225079-11 MSD	1401V3-19-B03 (5-9)	Total/NA	Solid	6010B	684903
500-225079-11 DU	1401V3-19-B03 (5-9)	Total/NA	Solid	6010B	684903

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

General Chemistry

Analysis Batch: 684929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225079-1	1401V3-19-B18 (0-2)	Total/NA	Solid	Moisture	
500-225079-2	1401V3-19-B17 (0-6)	Total/NA	Solid	Moisture	
500-225079-3	1401V3-19-B16 (0-6)	Total/NA	Solid	Moisture	
500-225079-4	1401V3-19-B15 (0-5)	Total/NA	Solid	Moisture	
500-225079-5	1401V3-19-B15 (5-9)	Total/NA	Solid	Moisture	
500-225079-6	1401V3-19-B14 (0-6)	Total/NA	Solid	Moisture	
500-225079-7	1401V3-19-B13 (0-5)	Total/NA	Solid	Moisture	
500-225079-8	1401V3-19-B13 (5-9)	Total/NA	Solid	Moisture	
500-225079-9	1401V3-19-B12 (0-6)	Total/NA	Solid	Moisture	
500-225079-10	1401V3-19-B03 (0-5)	Total/NA	Solid	Moisture	
500-225079-11	1401V3-19-B03 (5-9)	Total/NA	Solid	Moisture	

Analysis Batch: 684987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225079-5	1401V3-19-B15 (5-9)	Total/NA	Solid	9045D	
LCS 500-684987/5	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-684987/6	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 685174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225079-1	1401V3-19-B18 (0-2)	Total/NA	Solid	9045D	
500-225079-2	1401V3-19-B17 (0-6)	Total/NA	Solid	9045D	
500-225079-3	1401V3-19-B16 (0-6)	Total/NA	Solid	9045D	
500-225079-4	1401V3-19-B15 (0-5)	Total/NA	Solid	9045D	
500-225079-6	1401V3-19-B14 (0-6)	Total/NA	Solid	9045D	
500-225079-7	1401V3-19-B13 (0-5)	Total/NA	Solid	9045D	
500-225079-8	1401V3-19-B13 (5-9)	Total/NA	Solid	9045D	
500-225079-9	1401V3-19-B12 (0-6)	Total/NA	Solid	9045D	
500-225079-10	1401V3-19-B03 (0-5)	Total/NA	Solid	9045D	
500-225079-11	1401V3-19-B03 (5-9)	Total/NA	Solid	9045D	
LCS 500-685174/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-685174/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-225079-2 DU	1401V3-19-B17 (0-6)	Total/NA	Solid	9045D	

Surrogate Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-225079-1	1401V3-19-B18 (0-2)	105	102	109	97
500-225079-2	1401V3-19-B17 (0-6)	103	103	111	98
500-225079-3	1401V3-19-B16 (0-6)	105	101	116	102
500-225079-4	1401V3-19-B15 (0-5)	104	106	116	97
500-225079-5	1401V3-19-B15 (5-9)	106	103	108	97
500-225079-6	1401V3-19-B14 (0-6)	102	102	108	98
500-225079-7	1401V3-19-B13 (0-5)	107	105	107	99
500-225079-8	1401V3-19-B13 (5-9)	106	105	109	99
500-225079-9	1401V3-19-B12 (0-6)	100	105	110	100
500-225079-10	1401V3-19-B03 (0-5)	105	109	117	108
500-225079-11	1401V3-19-B03 (5-9)	99	107	108	96
LCS 500-684731/3	Lab Control Sample	107	94	100	98
LCS 500-684731/4	Lab Control Sample Dup	112	96	103	97
MB 500-684731/6	Method Blank	105	102	105	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (31-166)	PHL (30-153)	NBZ (37-147)	FBP (43-145)	TBP (31-143)	TPHL (42-157)
500-225079-1	1401V3-19-B18 (0-2)	109	85	73	77	89	114
500-225079-2	1401V3-19-B17 (0-6)	103	93	58	64	98	129
500-225079-3	1401V3-19-B16 (0-6)	122	101	77	87	103	137
500-225079-4	1401V3-19-B15 (0-5)	95	73	65	67	80	128
500-225079-5	1401V3-19-B15 (5-9)	93	82	67	78	65	121
500-225079-6	1401V3-19-B14 (0-6)	89	82	67	73	77	112
500-225079-7	1401V3-19-B13 (0-5)	95	100	67	80	93	150
500-225079-8	1401V3-19-B13 (5-9)	111	109	77	88	98	136
500-225079-9	1401V3-19-B12 (0-6)	115	102	70	77	77	120
500-225079-10	1401V3-19-B03 (0-5)	107	98	66	72	103	140
500-225079-11	1401V3-19-B03 (5-9)	59	55	40	44	72	107
LCS 500-685247/2-A	Lab Control Sample	138	119	95	97	113	104
MB 500-685247/1-A	Method Blank	164	136	89	104	105	114

Surrogate Legend

2FP = 2-Fluorophenol
PHL = Phenol-d5
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol
TPHL = Terphenyl-d14 (Surr)

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-684731/6
Matrix: Solid
Analysis Batch: 684731

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			11/14/22 10:54	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			11/14/22 10:54	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			11/14/22 10:54	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			11/14/22 10:54	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			11/14/22 10:54	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			11/14/22 10:54	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			11/14/22 10:54	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			11/14/22 10:54	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			11/14/22 10:54	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			11/14/22 10:54	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			11/14/22 10:54	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			11/14/22 10:54	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			11/14/22 10:54	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			11/14/22 10:54	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			11/14/22 10:54	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			11/14/22 10:54	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			11/14/22 10:54	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			11/14/22 10:54	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			11/14/22 10:54	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			11/14/22 10:54	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			11/14/22 10:54	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			11/14/22 10:54	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			11/14/22 10:54	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			11/14/22 10:54	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			11/14/22 10:54	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			11/14/22 10:54	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			11/14/22 10:54	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/14/22 10:54	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			11/14/22 10:54	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			11/14/22 10:54	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			11/14/22 10:54	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			11/14/22 10:54	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			11/14/22 10:54	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			11/14/22 10:54	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			11/14/22 10:54	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			11/14/22 10:54	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			11/14/22 10:54	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	105		75 - 131		11/14/22 10:54	1
Dibromofluoromethane	102		75 - 126		11/14/22 10:54	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		11/14/22 10:54	1
Toluene-d8 (Surr)	100		75 - 124		11/14/22 10:54	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-684731/3
Matrix: Solid
Analysis Batch: 684731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0400	0.0438		mg/Kg		110	40 - 150
Benzene	0.0400	0.0445		mg/Kg		111	70 - 125
Bromodichloromethane	0.0400	0.0470		mg/Kg		118	67 - 129
Bromoform	0.0400	0.0487		mg/Kg		122	68 - 136
Bromomethane	0.0400	0.0420		mg/Kg		105	70 - 130
2-Butanone (MEK)	0.0400	0.0465		mg/Kg		116	47 - 138
Carbon disulfide	0.0400	0.0391		mg/Kg		98	70 - 129
Carbon tetrachloride	0.0400	0.0443		mg/Kg		111	75 - 125
Chlorobenzene	0.0400	0.0466		mg/Kg		117	50 - 150
Chloroethane	0.0400	0.0448		mg/Kg		112	75 - 125
Chloroform	0.0400	0.0414		mg/Kg		103	57 - 135
Chloromethane	0.0400	0.0408		mg/Kg		102	70 - 125
cis-1,2-Dichloroethene	0.0400	0.0411		mg/Kg		103	70 - 125
cis-1,3-Dichloropropene	0.0400	0.0444		mg/Kg		111	70 - 125
Dibromochloromethane	0.0400	0.0454		mg/Kg		113	69 - 125
1,1-Dichloroethane	0.0400	0.0407		mg/Kg		102	70 - 125
1,2-Dichloroethane	0.0400	0.0470		mg/Kg		118	70 - 130
1,1-Dichloroethene	0.0400	0.0402		mg/Kg		100	70 - 120
1,2-Dichloropropane	0.0400	0.0461		mg/Kg		115	70 - 125
Ethylbenzene	0.0400	0.0444		mg/Kg		111	61 - 136
2-Hexanone	0.0400	0.0475		mg/Kg		119	48 - 146
Methylene Chloride	0.0400	0.0408		mg/Kg		102	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0400	0.0398		mg/Kg		100	50 - 148
Methyl tert-butyl ether	0.0400	0.0427		mg/Kg		107	50 - 140
Styrene	0.0400	0.0473		mg/Kg		118	70 - 125
1,1,2,2-Tetrachloroethane	0.0400	0.0416		mg/Kg		104	70 - 122
Tetrachloroethene	0.0400	0.0443		mg/Kg		111	70 - 124
Toluene	0.0400	0.0407		mg/Kg		102	70 - 125
trans-1,2-Dichloroethene	0.0400	0.0409		mg/Kg		102	70 - 125
trans-1,3-Dichloropropene	0.0400	0.0489		mg/Kg		122	70 - 125
1,1,1-Trichloroethane	0.0400	0.0435		mg/Kg		109	70 - 128
1,1,2-Trichloroethane	0.0400	0.0454		mg/Kg		114	70 - 125
Trichloroethene	0.0400	0.0466		mg/Kg		117	70 - 125
Vinyl acetate	0.0400	0.0387		mg/Kg		97	40 - 153
Vinyl chloride	0.0400	0.0429		mg/Kg		107	70 - 125
Xylenes, Total	0.0800	0.0832		mg/Kg		104	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	107		75 - 131
Dibromofluoromethane	94		75 - 126
1,2-Dichloroethane-d4 (Surr)	100		70 - 134
Toluene-d8 (Surr)	98		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-684731/4
Matrix: Solid
Analysis Batch: 684731

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.0400	0.0393		mg/Kg		98	40 - 150	11	30
Benzene	0.0400	0.0386		mg/Kg		97	70 - 125	14	30
Bromodichloromethane	0.0400	0.0402		mg/Kg		100	67 - 129	16	30
Bromoform	0.0400	0.0393		mg/Kg		98	68 - 136	22	30
Bromomethane	0.0400	0.0391		mg/Kg		98	70 - 130	7	30
2-Butanone (MEK)	0.0400	0.0356		mg/Kg		89	47 - 138	26	30
Carbon disulfide	0.0400	0.0335		mg/Kg		84	70 - 129	16	30
Carbon tetrachloride	0.0400	0.0396		mg/Kg		99	75 - 125	11	30
Chlorobenzene	0.0400	0.0401		mg/Kg		100	50 - 150	15	30
Chloroethane	0.0400	0.0402		mg/Kg		100	75 - 125	11	30
Chloroform	0.0400	0.0355		mg/Kg		89	57 - 135	15	30
Chloromethane	0.0400	0.0400		mg/Kg		100	70 - 125	2	30
cis-1,2-Dichloroethene	0.0400	0.0356		mg/Kg		89	70 - 125	14	30
cis-1,3-Dichloropropene	0.0400	0.0383		mg/Kg		96	70 - 125	15	30
Dibromochloromethane	0.0400	0.0371		mg/Kg		93	69 - 125	20	30
1,1-Dichloroethane	0.0400	0.0361		mg/Kg		90	70 - 125	12	30
1,2-Dichloroethane	0.0400	0.0391		mg/Kg		98	70 - 130	18	30
1,1-Dichloroethene	0.0400	0.0341		mg/Kg		85	70 - 120	17	30
1,2-Dichloropropane	0.0400	0.0385		mg/Kg		96	70 - 125	18	30
Ethylbenzene	0.0400	0.0382		mg/Kg		96	61 - 136	15	30
2-Hexanone	0.0400	0.0384		mg/Kg		96	48 - 146	21	30
Methylene Chloride	0.0400	0.0356		mg/Kg		89	70 - 126	14	30
4-Methyl-2-pentanone (MIBK)	0.0400	0.0330		mg/Kg		82	50 - 148	19	30
Methyl tert-butyl ether	0.0400	0.0369		mg/Kg		92	50 - 140	15	30
Styrene	0.0400	0.0402		mg/Kg		101	70 - 125	16	30
1,1,2,2-Tetrachloroethane	0.0400	0.0358		mg/Kg		89	70 - 122	15	30
Tetrachloroethene	0.0400	0.0379		mg/Kg		95	70 - 124	16	30
Toluene	0.0400	0.0358		mg/Kg		90	70 - 125	13	30
trans-1,2-Dichloroethene	0.0400	0.0354		mg/Kg		89	70 - 125	14	30
trans-1,3-Dichloropropene	0.0400	0.0415		mg/Kg		104	70 - 125	16	30
1,1,1-Trichloroethane	0.0400	0.0388		mg/Kg		97	70 - 128	11	30
1,1,2-Trichloroethane	0.0400	0.0367		mg/Kg		92	70 - 125	21	30
Trichloroethene	0.0400	0.0413		mg/Kg		103	70 - 125	12	30
Vinyl acetate	0.0400	0.0399		mg/Kg		100	40 - 153	3	30
Vinyl chloride	0.0400	0.0415		mg/Kg		104	70 - 125	3	30
Xylenes, Total	0.0800	0.0710		mg/Kg		89	53 - 147	16	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	112		75 - 131
Dibromofluoromethane	96		75 - 126
1,2-Dichloroethane-d4 (Surr)	103		70 - 134
Toluene-d8 (Surr)	97		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-685247/1-A
Matrix: Solid
Analysis Batch: 686244

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685247

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Isophorone	<0.17		0.17	0.037	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Carbazole	<0.17		0.17	0.083	mg/Kg		11/16/22 08:57	11/21/22 13:26	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-685247/1-A
Matrix: Solid
Analysis Batch: 686244

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685247

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		11/16/22 08:57	11/21/22 13:26	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		11/16/22 08:57	11/21/22 13:26	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorophenol	164		31 - 166	11/16/22 08:57	11/21/22 13:26	1
Phenol-d5	136		30 - 153	11/16/22 08:57	11/21/22 13:26	1
Nitrobenzene-d5 (Surr)	89		37 - 147	11/16/22 08:57	11/21/22 13:26	1
2-Fluorobiphenyl (Surr)	104		43 - 145	11/16/22 08:57	11/21/22 13:26	1
2,4,6-Tribromophenol	105		31 - 143	11/16/22 08:57	11/21/22 13:26	1
Terphenyl-d14 (Surr)	114		42 - 157	11/16/22 08:57	11/21/22 13:26	1

Lab Sample ID: LCS 500-685247/2-A
Matrix: Solid
Analysis Batch: 686244

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685247

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Bis(2-chloroethyl)ether	1.33	1.23		mg/Kg		92	55 - 111
1,3-Dichlorobenzene	1.33	1.20		mg/Kg		90	65 - 124
1,4-Dichlorobenzene	1.33	1.25		mg/Kg		93	61 - 110
1,2-Dichlorobenzene	1.33	1.25		mg/Kg		94	62 - 110
2-Methylphenol	1.33	1.40		mg/Kg		105	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.22		mg/Kg		92	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.29		mg/Kg		97	56 - 118
Hexachloroethane	1.33	1.17		mg/Kg		88	60 - 114
2-Chlorophenol	1.33	1.48	+	mg/Kg		111	64 - 110
Nitrobenzene	1.33	1.30		mg/Kg		97	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.31		mg/Kg		98	60 - 112
1,2,4-Trichlorobenzene	1.33	1.35		mg/Kg		101	66 - 117
Isophorone	1.33	1.27		mg/Kg		96	55 - 110
2,4-Dimethylphenol	1.33	1.34		mg/Kg		100	60 - 110
Hexachlorobutadiene	1.33	1.30		mg/Kg		98	56 - 120
Naphthalene	1.33	1.29		mg/Kg		96	63 - 110
2,4-Dichlorophenol	1.33	1.39		mg/Kg		105	58 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-685247/2-A

Matrix: Solid

Analysis Batch: 686244

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 685247

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloroaniline	1.33	0.677		mg/Kg		51	30 - 150
2,4,6-Trichlorophenol	1.33	1.36		mg/Kg		102	57 - 120
2,4,5-Trichlorophenol	1.33	1.42		mg/Kg		106	50 - 120
Hexachlorocyclopentadiene	1.33	0.931		mg/Kg		70	10 - 133
2-Methylnaphthalene	1.33	1.28		mg/Kg		96	69 - 112
2-Nitroaniline	1.33	1.36		mg/Kg		102	57 - 124
2-Chloronaphthalene	1.33	1.37		mg/Kg		103	69 - 114
4-Chloro-3-methylphenol	1.33	1.48		mg/Kg		111	65 - 122
2,6-Dinitrotoluene	1.33	1.56		mg/Kg		117	70 - 123
2-Nitrophenol	1.33	1.45		mg/Kg		109	60 - 120
3-Nitroaniline	1.33	0.713		mg/Kg		53	40 - 122
Dimethyl phthalate	1.33	1.37		mg/Kg		103	69 - 116
2,4-Dinitrophenol	2.67	0.858		mg/Kg		32	10 - 100
Acenaphthylene	1.33	1.39		mg/Kg		104	68 - 120
2,4-Dinitrotoluene	1.33	1.42		mg/Kg		106	69 - 124
Acenaphthene	1.33	1.37		mg/Kg		102	65 - 124
Dibenzofuran	1.33	1.39		mg/Kg		104	66 - 115
4-Nitrophenol	2.67	2.67		mg/Kg		100	30 - 122
Fluorene	1.33	1.36		mg/Kg		102	62 - 120
4-Nitroaniline	1.33	1.20		mg/Kg		90	60 - 160
4-Bromophenyl phenyl ether	1.33	1.41		mg/Kg		105	68 - 118
Hexachlorobenzene	1.33	1.37		mg/Kg		103	63 - 124
Diethyl phthalate	1.33	1.34		mg/Kg		100	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.37		mg/Kg		103	62 - 119
Pentachlorophenol	2.67	1.93		mg/Kg		73	13 - 112
N-Nitrosodiphenylamine	1.33	1.40		mg/Kg		105	65 - 112
4,6-Dinitro-2-methylphenol	2.67	1.60		mg/Kg		60	10 - 110
Phenanthrene	1.33	1.36		mg/Kg		102	62 - 120
Anthracene	1.33	1.41		mg/Kg		106	70 - 114
Carbazole	1.33	1.55		mg/Kg		116	65 - 142
Di-n-butyl phthalate	1.33	1.44		mg/Kg		108	65 - 120
Fluoranthene	1.33	1.45		mg/Kg		109	62 - 120
Pyrene	1.33	1.38		mg/Kg		104	61 - 128
Butyl benzyl phthalate	1.33	1.37		mg/Kg		103	71 - 129
Benzo[a]anthracene	1.33	1.37		mg/Kg		103	67 - 122
Chrysene	1.33	1.36		mg/Kg		102	63 - 120
3,3'-Dichlorobenzidine	1.33	1.02		mg/Kg		76	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.45		mg/Kg		108	72 - 131
Di-n-octyl phthalate	1.33	1.65		mg/Kg		124	68 - 134
Benzo[b]fluoranthene	1.33	1.42		mg/Kg		106	69 - 129
Benzo[k]fluoranthene	1.33	1.30		mg/Kg		97	68 - 127
Benzo[a]pyrene	1.33	1.49		mg/Kg		112	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.63		mg/Kg		122	68 - 130
Dibenz(a,h)anthracene	1.33	1.57		mg/Kg		118	64 - 131
Benzo[g,h,i]perylene	1.33	1.55		mg/Kg		116	72 - 131
3 & 4 Methylphenol	1.33	1.43		mg/Kg		107	57 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-685247/2-A
Matrix: Solid
Analysis Batch: 686244

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685247

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	138		31 - 166
Phenol-d5	119		30 - 153
Nitrobenzene-d5 (Surr)	95		37 - 147
2-Fluorobiphenyl (Surr)	97		43 - 145
2,4,6-Tribromophenol	113		31 - 143
Terphenyl-d14 (Surr)	104		42 - 157

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-684787/25-A
Matrix: Solid
Analysis Batch: 685243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684787

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Barium	0.500	0.448	J	mg/L		90	80 - 120
Beryllium	0.0500	0.0428		mg/L		86	80 - 120
Boron	1.00	0.825		mg/L		83	80 - 120
Cadmium	0.0500	0.0432		mg/L		86	80 - 120
Chromium	0.200	0.170		mg/L		85	80 - 120
Cobalt	0.500	0.428		mg/L		86	80 - 120
Iron	1.00	0.938		mg/L		94	80 - 120
Lead	0.100	0.0853		mg/L		85	80 - 120
Manganese	0.500	0.434		mg/L		87	80 - 120
Nickel	0.500	0.422		mg/L		84	80 - 120
Selenium	0.100	0.0899		mg/L		90	80 - 120
Silver	0.0500	0.0442		mg/L		88	80 - 120
Zinc	0.500	0.413	J	mg/L		83	80 - 120

Lab Sample ID: LCS 500-684787/2-A
Matrix: Solid
Analysis Batch: 685243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684787

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Barium	0.500	0.496	J	mg/L		99	80 - 120
Beryllium	0.0500	0.0460		mg/L		92	80 - 120
Boron	1.00	0.912		mg/L		91	80 - 120
Cadmium	0.0500	0.0503		mg/L		101	80 - 120
Chromium	0.200	0.189		mg/L		95	80 - 120
Cobalt	0.500	0.490		mg/L		98	80 - 120
Iron	1.00	1.02		mg/L		102	80 - 120
Lead	0.100	0.0931		mg/L		93	80 - 120
Manganese	0.500	0.475		mg/L		95	80 - 120
Nickel	0.500	0.480		mg/L		96	80 - 120
Selenium	0.100	0.109		mg/L		109	80 - 120
Silver	0.0500	0.0543		mg/L		109	80 - 120
Zinc	0.500	0.506		mg/L		101	80 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-684789/2-A
Matrix: Solid
Analysis Batch: 685530

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684789

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.100	0.0908		mg/L		91	80 - 120
Manganese	0.500	0.488		mg/L		98	80 - 120

Lab Sample ID: MB 500-684901/1-A
Matrix: Solid
Analysis Batch: 685232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 684901

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Arsenic	<1.0		1.0	0.34	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Barium	<1.0		1.0	0.11	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Beryllium	<0.40		0.40	0.093	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Boron	<5.0		5.0	0.47	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Cadmium	<0.20		0.20	0.036	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Calcium	<20		20	3.4	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Chromium	<1.0		1.0	0.50	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Cobalt	<0.50		0.50	0.13	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Copper	<1.0		1.0	0.28	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Iron	<20		20	10	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Lead	<0.50		0.50	0.23	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Magnesium	<10		10	5.0	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Manganese	<1.0		1.0	0.15	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Nickel	<1.0		1.0	0.29	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Potassium	<50		50	18	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Selenium	<1.0		1.0	0.59	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Silver	<0.50		0.50	0.13	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Sodium	<100		100	15	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Thallium	<1.0		1.0	0.50	mg/Kg		11/14/22 17:20	11/16/22 00:25	1
Vanadium	<0.50		0.50	0.12	mg/Kg		11/14/22 17:20	11/16/22 00:25	1

Lab Sample ID: MB 500-684901/1-A
Matrix: Solid
Analysis Batch: 685531

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 684901

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	<2.0		2.0	0.88	mg/Kg		11/14/22 17:20	11/16/22 13:44	1

Lab Sample ID: LCS 500-684901/2-A
Matrix: Solid
Analysis Batch: 685232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684901

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	44.6		mg/Kg		89	80 - 120
Arsenic	10.0	8.79		mg/Kg		88	80 - 120
Barium	200	198		mg/Kg		99	80 - 120
Beryllium	5.00	4.79		mg/Kg		96	80 - 120
Boron	100	81.8		mg/Kg		82	80 - 120
Cadmium	5.00	4.56		mg/Kg		91	80 - 120
Calcium	1000	932		mg/Kg		93	80 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-684901/2-A
Matrix: Solid
Analysis Batch: 685232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684901

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	20.0	18.4		mg/Kg		92	80 - 120
Cobalt	50.0	49.0		mg/Kg		98	80 - 120
Copper	25.0	23.5		mg/Kg		94	80 - 120
Iron	100	97.5		mg/Kg		98	80 - 120
Lead	10.0	9.06		mg/Kg		91	80 - 120
Magnesium	1000	906		mg/Kg		91	80 - 120
Manganese	50.0	46.5		mg/Kg		93	80 - 120
Nickel	50.0	47.5		mg/Kg		95	80 - 120
Potassium	1000	971		mg/Kg		97	80 - 120
Selenium	10.0	8.14		mg/Kg		81	80 - 120
Silver	5.00	4.03		mg/Kg		81	80 - 120
Sodium	1000	1020		mg/Kg		102	80 - 120
Thallium	10.0	8.80		mg/Kg		88	80 - 120
Vanadium	50.0	48.5		mg/Kg		97	80 - 120

Lab Sample ID: LCS 500-684901/2-A
Matrix: Solid
Analysis Batch: 685531

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684901

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	50.0	45.9		mg/Kg		92	80 - 120

Lab Sample ID: MB 500-684903/1-A
Matrix: Solid
Analysis Batch: 685514

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 684903

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg		11/14/22 17:25	11/16/22 14:31	1
Arsenic	<1.0		1.0	0.34	mg/Kg		11/14/22 17:25	11/16/22 14:31	1
Barium	<1.0		1.0	0.11	mg/Kg		11/14/22 17:25	11/16/22 14:31	1
Beryllium	<0.40		0.40	0.093	mg/Kg		11/14/22 17:25	11/16/22 14:31	1
Boron	<5.0		5.0	0.47	mg/Kg		11/14/22 17:25	11/16/22 14:31	1
Cadmium	<0.20		0.20	0.036	mg/Kg		11/14/22 17:25	11/16/22 14:31	1
Calcium	3.81	J	20	3.4	mg/Kg		11/14/22 17:25	11/16/22 14:31	1
Chromium	<1.0		1.0	0.50	mg/Kg		11/14/22 17:25	11/16/22 14:31	1
Cobalt	<0.50		0.50	0.13	mg/Kg		11/14/22 17:25	11/16/22 14:31	1
Copper	<1.0		1.0	0.28	mg/Kg		11/14/22 17:25	11/16/22 14:31	1
Iron	<20		20	10	mg/Kg		11/14/22 17:25	11/16/22 14:31	1
Lead	<0.50		0.50	0.23	mg/Kg		11/14/22 17:25	11/16/22 14:31	1
Magnesium	<10		10	5.0	mg/Kg		11/14/22 17:25	11/16/22 14:31	1
Manganese	<1.0		1.0	0.15	mg/Kg		11/14/22 17:25	11/16/22 14:31	1
Nickel	<1.0		1.0	0.29	mg/Kg		11/14/22 17:25	11/16/22 14:31	1
Potassium	<50		50	18	mg/Kg		11/14/22 17:25	11/16/22 14:31	1
Selenium	<1.0		1.0	0.59	mg/Kg		11/14/22 17:25	11/16/22 14:31	1
Silver	<0.50		0.50	0.13	mg/Kg		11/14/22 17:25	11/16/22 14:31	1
Sodium	<100		100	15	mg/Kg		11/14/22 17:25	11/16/22 14:31	1
Thallium	<1.0		1.0	0.50	mg/Kg		11/14/22 17:25	11/16/22 14:31	1
Vanadium	<0.50		0.50	0.12	mg/Kg		11/14/22 17:25	11/16/22 14:31	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 500-684903/1-A
Matrix: Solid
Analysis Batch: 685798

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 684903

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	<2.0		2.0	0.88	mg/Kg		11/14/22 17:25	11/17/22 16:16	1

Lab Sample ID: LCS 500-684903/2-A
Matrix: Solid
Analysis Batch: 685514

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684903

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	45.5		mg/Kg		91	80 - 120
Arsenic	10.0	9.34		mg/Kg		93	80 - 120
Barium	200	197		mg/Kg		99	80 - 120
Beryllium	5.00	4.63		mg/Kg		93	80 - 120
Boron	100	84.1		mg/Kg		84	80 - 120
Cadmium	5.00	4.56		mg/Kg		91	80 - 120
Calcium	1000	955		mg/Kg		95	80 - 120
Chromium	20.0	19.1		mg/Kg		95	80 - 120
Cobalt	50.0	48.7		mg/Kg		97	80 - 120
Copper	25.0	24.3		mg/Kg		97	80 - 120
Iron	100	97.9		mg/Kg		98	80 - 120
Lead	10.0	9.05		mg/Kg		91	80 - 120
Magnesium	1000	965		mg/Kg		96	80 - 120
Manganese	50.0	47.1		mg/Kg		94	80 - 120
Nickel	50.0	47.5		mg/Kg		95	80 - 120
Potassium	1000	1010		mg/Kg		101	80 - 120
Selenium	10.0	8.58		mg/Kg		86	80 - 120
Silver	5.00	4.12		mg/Kg		82	80 - 120
Sodium	1000	1020		mg/Kg		102	80 - 120
Thallium	10.0	8.94		mg/Kg		89	80 - 120
Vanadium	50.0	48.9		mg/Kg		98	80 - 120

Lab Sample ID: LCS 500-684903/2-A
Matrix: Solid
Analysis Batch: 685798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684903

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	50.0	47.1		mg/Kg		94	80 - 120

Lab Sample ID: 500-225079-11 MS
Matrix: Solid
Analysis Batch: 685514

Client Sample ID: 1401V3-19-B03 (5-9)
Prep Type: Total/NA
Prep Batch: 684903

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.43	J F1	30.5	5.98	F1	mg/Kg	☼	18	75 - 125
Arsenic	7.1		6.10	13.4		mg/Kg	☼	103	75 - 125
Barium	65		122	174		mg/Kg	☼	89	75 - 125
Beryllium	0.90		3.05	3.44		mg/Kg	☼	83	75 - 125
Boron	3.1	F1	61.0	37.0	F1	mg/Kg	☼	56	75 - 125
Cadmium	0.25	F1	3.05	2.50	F1	mg/Kg	☼	74	75 - 125
Calcium	2400	B F1	610	2770	F1	mg/Kg	☼	68	75 - 125
Chromium	18		12.2	29.7		mg/Kg	☼	100	75 - 125

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-225079-11 MS

Matrix: Solid

Analysis Batch: 685514

Client Sample ID: 1401V3-19-B03 (5-9)

Prep Type: Total/NA

Prep Batch: 684903

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Cobalt	11		30.5	44.5		mg/Kg	⊛	110		75 - 125
Copper	17		15.2	30.2		mg/Kg	⊛	84		75 - 125
Iron	22000		61.0	25500	4	mg/Kg	⊛	5687		75 - 125
Lead	19	F1	6.10	26.0		mg/Kg	⊛	108		75 - 125
Magnesium	3500		610	4490	4	mg/Kg	⊛	168		75 - 125
Manganese	280		30.5	475	4	mg/Kg	⊛	647		75 - 125
Nickel	24		30.5	56.2		mg/Kg	⊛	105		75 - 125
Potassium	1200	F1	610	2490	F1	mg/Kg	⊛	205		75 - 125
Selenium	<0.60	F1	6.10	4.01	F1	mg/Kg	⊛	66		75 - 125
Silver	0.26	J F1	3.05	2.50	F1	mg/Kg	⊛	73		75 - 125
Sodium	1700	F1	610	2160		mg/Kg	⊛	81		75 - 125
Thallium	<0.60		6.10	4.77		mg/Kg	⊛	78		75 - 125
Vanadium	25		30.5	55.5		mg/Kg	⊛	101		75 - 125

Lab Sample ID: 500-225079-11 MS

Matrix: Solid

Analysis Batch: 685798

Client Sample ID: 1401V3-19-B03 (5-9)

Prep Type: Total/NA

Prep Batch: 684903

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Zinc	84		30.5	119		mg/Kg	⊛	116		75 - 125

Lab Sample ID: 500-225079-11 MSD

Matrix: Solid

Analysis Batch: 685514

Client Sample ID: 1401V3-19-B03 (5-9)

Prep Type: Total/NA

Prep Batch: 684903

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Antimony	0.43	J F1	29.5	6.12	F1	mg/Kg	⊛	19		75 - 125	2	20
Arsenic	7.1		5.89	12.1		mg/Kg	⊛	85		75 - 125	10	20
Barium	65		118	173		mg/Kg	⊛	91		75 - 125	1	20
Beryllium	0.90		2.95	3.43		mg/Kg	⊛	86		75 - 125	0	20
Boron	3.1	F1	58.9	35.1	F1	mg/Kg	⊛	54		75 - 125	5	20
Cadmium	0.25	F1	2.95	2.43	F1	mg/Kg	⊛	74		75 - 125	3	20
Calcium	2400	B F1	589	2500	F1	mg/Kg	⊛	24		75 - 125	10	20
Chromium	18		11.8	29.9		mg/Kg	⊛	105		75 - 125	1	20
Cobalt	11		29.5	42.5		mg/Kg	⊛	108		75 - 125	4	20
Copper	17		14.7	35.4		mg/Kg	⊛	122		75 - 125	16	20
Iron	22000		58.9	24900	4	mg/Kg	⊛	4800		75 - 125	3	20
Lead	19	F1	5.89	22.2	F1	mg/Kg	⊛	47		75 - 125	16	20
Magnesium	3500		589	4430	4	mg/Kg	⊛	164		75 - 125	1	20
Manganese	280		29.5	518	4	mg/Kg	⊛	813		75 - 125	8	20
Nickel	24		29.5	57.8		mg/Kg	⊛	114		75 - 125	3	20
Potassium	1200	F1	589	2330	F1	mg/Kg	⊛	184		75 - 125	7	20
Selenium	<0.60	F1	5.89	3.86	F1	mg/Kg	⊛	65		75 - 125	4	20
Silver	0.26	J F1	2.95	2.51		mg/Kg	⊛	76		75 - 125	0	20
Sodium	1700	F1	589	2100	F1	mg/Kg	⊛	73		75 - 125	3	20
Thallium	<0.60		5.89	4.87		mg/Kg	⊛	83		75 - 125	2	20
Vanadium	25		29.5	54.3		mg/Kg	⊛	101		75 - 125	2	20

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-225079-11 MSD
Matrix: Solid
Analysis Batch: 685798

Client Sample ID: 1401V3-19-B03 (5-9)
Prep Type: Total/NA
Prep Batch: 684903

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Zinc	84		29.5	108		mg/Kg	☼	84	75 - 125	9	20

Lab Sample ID: 500-225079-11 DU
Matrix: Solid
Analysis Batch: 685514

Client Sample ID: 1401V3-19-B03 (5-9)
Prep Type: Total/NA
Prep Batch: 684903

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	0.43	J F1	0.437	J	mg/Kg	☼	1	20
Arsenic	7.1		9.07	F3	mg/Kg	☼	24	20
Barium	65		79.8		mg/Kg	☼	20	20
Beryllium	0.90		0.981		mg/Kg	☼	9	20
Boron	3.1	F1	3.47		mg/Kg	☼	12	20
Cadmium	0.25	F1	0.334	F5	mg/Kg	☼	29	20
Calcium	2400	B F1	2220		mg/Kg	☼	6	20
Chromium	18		18.2		mg/Kg	☼	4	20
Cobalt	11		16.3	F3	mg/Kg	☼	40	20
Copper	17		18.7		mg/Kg	☼	7	20
Iron	22000		24800		mg/Kg	☼	12	20
Lead	19	F1	22.5		mg/Kg	☼	14	20
Magnesium	3500		3620		mg/Kg	☼	4	20
Manganese	280		607	F3	mg/Kg	☼	74	20
Nickel	24		28.1		mg/Kg	☼	15	20
Potassium	1200	F1	1370		mg/Kg	☼	9	20
Selenium	<0.60	F1	<0.61		mg/Kg	☼	NC	20
Silver	0.26	J F1	0.331	F5	mg/Kg	☼	24	20
Sodium	1700	F1	1730		mg/Kg	☼	4	20
Thallium	<0.60		<0.61		mg/Kg	☼	NC	20
Vanadium	25		27.7		mg/Kg	☼	12	20

Lab Sample ID: 500-225079-11 DU
Matrix: Solid
Analysis Batch: 685798

Client Sample ID: 1401V3-19-B03 (5-9)
Prep Type: Total/NA
Prep Batch: 684903

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Zinc	84		87.5		mg/Kg	☼	5	20

Lab Sample ID: MRL 500-685514/15
Matrix: Solid
Analysis Batch: 685514

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0200	<0.020		mg/L		95	70 - 130
Arsenic	0.0100	<0.010		mg/L		91	70 - 130
Barium	0.0100	<0.050		mg/L		102	70 - 130
Beryllium	0.00400	0.00414		mg/L		104	70 - 130
Boron	0.0500	<0.050		mg/L		100	70 - 130
Cadmium	0.00200	0.00203		mg/L		101	70 - 130
Calcium	0.200	<0.50		mg/L		94	70 - 130
Chromium	0.0100	0.0105		mg/L		105	70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MRL 500-685514/15
Matrix: Solid
Analysis Batch: 685514

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	0.00500	<0.010		mg/L		95	70 - 130
Copper	0.0100	0.0113		mg/L		113	70 - 130
Iron	0.200	<0.20		mg/L		80	70 - 130
Lead	0.00500	0.00565		mg/L		113	70 - 130
Magnesium	0.100	<0.50		mg/L		96	70 - 130
Manganese	0.0100	<0.010		mg/L		100	70 - 130
Nickel	0.0100	0.0109		mg/L		109	70 - 130
Potassium	0.500	0.527		mg/L		105	70 - 130
Selenium	0.0100	<0.020		mg/L		111	70 - 130
Silver	0.00500	<0.010		mg/L		105	70 - 130
Sodium	1.00	1.04		mg/L		104	70 - 130
Thallium	0.0100	0.0103		mg/L		103	70 - 130
Vanadium	0.00500	<0.010		mg/L		110	70 - 130
Zinc	0.0200	0.0205		mg/L		103	70 - 130

Lab Sample ID: LB 500-684530/1-B
Matrix: Solid
Analysis Batch: 685243

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 684787

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		11/14/22 08:37	11/15/22 17:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/14/22 08:37	11/15/22 17:59	1
Boron	<0.50		0.50	0.050	mg/L		11/14/22 08:37	11/15/22 17:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/14/22 08:37	11/15/22 17:59	1
Chromium	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 17:59	1
Cobalt	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 17:59	1
Iron	<0.40		0.40	0.20	mg/L		11/14/22 08:37	11/15/22 17:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/14/22 08:37	11/15/22 17:59	1
Manganese	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 17:59	1
Nickel	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 17:59	1
Selenium	<0.050		0.050	0.020	mg/L		11/14/22 08:37	11/15/22 17:59	1
Silver	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 17:59	1
Zinc	<0.50		0.50	0.020	mg/L		11/14/22 08:37	11/15/22 17:59	1

Lab Sample ID: LB2 500-684547/1-B
Matrix: Solid
Analysis Batch: 685243

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 684787

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		11/14/22 08:37	11/15/22 19:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/14/22 08:37	11/15/22 19:31	1
Boron	<0.50		0.50	0.050	mg/L		11/14/22 08:37	11/15/22 19:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/14/22 08:37	11/15/22 19:31	1
Chromium	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 19:31	1
Cobalt	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 19:31	1
Iron	<0.40		0.40	0.20	mg/L		11/14/22 08:37	11/15/22 19:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/14/22 08:37	11/15/22 19:31	1
Manganese	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 19:31	1
Nickel	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 19:31	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB2 500-684547/1-B
Matrix: Solid
Analysis Batch: 685243

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 684787

Analyte	LB2	LB2	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Selenium	<0.050		0.050	0.020	mg/L		11/14/22 08:37	11/15/22 19:31	1
Silver	<0.025		0.025	0.010	mg/L		11/14/22 08:37	11/15/22 19:31	1
Zinc	<0.50		0.50	0.020	mg/L		11/14/22 08:37	11/15/22 19:31	1

Lab Sample ID: 500-225079-11 MS
Matrix: Solid
Analysis Batch: 685243

Client Sample ID: 1401V3-19-B03 (5-9)
Prep Type: TCLP
Prep Batch: 684787

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Barium	0.13	J	0.500	0.623		mg/L		98	75 - 125
Beryllium	<0.0040		0.0500	0.0467		mg/L		93	75 - 125
Boron	<0.50		1.00	0.924		mg/L		92	75 - 125
Cadmium	<0.0050		0.0500	0.0490		mg/L		98	75 - 125
Chromium	<0.025		0.200	0.184		mg/L		92	75 - 125
Cobalt	<0.025		0.500	0.482		mg/L		96	75 - 125
Iron	<0.40		1.00	1.10		mg/L		110	75 - 125
Lead	<0.0075		0.100	0.0925		mg/L		93	75 - 125
Manganese	<0.025		0.500	0.474		mg/L		95	75 - 125
Nickel	<0.025		0.500	0.471		mg/L		94	75 - 125
Selenium	<0.050		0.100	0.103		mg/L		103	75 - 125
Silver	<0.025		0.0500	0.0533		mg/L		107	75 - 125
Zinc	<0.50		0.500	0.491	J	mg/L		98	75 - 125

Lab Sample ID: 500-225079-11 DU
Matrix: Solid
Analysis Batch: 685243

Client Sample ID: 1401V3-19-B03 (5-9)
Prep Type: TCLP
Prep Batch: 684787

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Barium	0.13	J	0.143	J	mg/L		8	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	<0.50		<0.50		mg/L		NC	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	<0.025		<0.025		mg/L		NC	20
Iron	<0.40		0.206	J	mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	<0.025		<0.025		mg/L		NC	20
Nickel	<0.025		<0.025		mg/L		NC	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	<0.50		<0.50		mg/L		NC	20

Lab Sample ID: LB 500-684557/1-B
Matrix: Solid
Analysis Batch: 685530

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 684789

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.0075		0.0075	0.0075	mg/L		11/14/22 08:41	11/16/22 18:26	1
Manganese	<0.025		0.025	0.010	mg/L		11/14/22 08:41	11/16/22 18:26	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-684787/25-A
Matrix: Solid
Analysis Batch: 685369

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684787

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Antimony	0.500	0.410		mg/L		82	80 - 120	
Thallium	0.100	0.0929		mg/L		93	80 - 120	

Lab Sample ID: LCS 500-684787/2-A
Matrix: Solid
Analysis Batch: 685028

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684787

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Antimony	0.500	0.493		mg/L		99	80 - 120	
Thallium	0.100	0.115		mg/L		115	80 - 120	

Lab Sample ID: LB 500-684530/1-B
Matrix: Solid
Analysis Batch: 685028

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 684787

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		11/14/22 08:37	11/14/22 16:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/14/22 08:37	11/14/22 16:41	1

Lab Sample ID: LB2 500-684547/1-B
Matrix: Solid
Analysis Batch: 685369

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 684787

Analyte	LB2 LB2		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		11/14/22 08:37	11/16/22 02:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/14/22 08:37	11/16/22 02:51	1

Lab Sample ID: 500-225079-11 MS
Matrix: Solid
Analysis Batch: 685028

Client Sample ID: 1401V3-19-B03 (5-9)
Prep Type: TCLP
Prep Batch: 684787

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Antimony	<0.0060		0.500	0.416		mg/L		83	75 - 125	

Lab Sample ID: 500-225079-11 MS
Matrix: Solid
Analysis Batch: 685369

Client Sample ID: 1401V3-19-B03 (5-9)
Prep Type: TCLP
Prep Batch: 684787

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Thallium	<0.0020		0.100	0.0994		mg/L		99	75 - 125	

Lab Sample ID: 500-225079-11 DU
Matrix: Solid
Analysis Batch: 685028

Client Sample ID: 1401V3-19-B03 (5-9)
Prep Type: TCLP
Prep Batch: 684787

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit	
								RPD	Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20	

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-225079-11 DU
Matrix: Solid
Analysis Batch: 685369

Client Sample ID: 1401V3-19-B03 (5-9)
Prep Type: TCLP
Prep Batch: 684787

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Thallium	<0.0020		<0.0020		mg/L		NC	20

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-685091/12-A
Matrix: Solid
Analysis Batch: 685348

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685091

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/15/22 14:35	11/16/22 11:30	1

Lab Sample ID: LCS 500-685091/14-A
Matrix: Solid
Analysis Batch: 685348

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685091

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00215		mg/L		108	80 - 120

Lab Sample ID: LCS 500-685091/37-A
Matrix: Solid
Analysis Batch: 685348

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685091

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00222		mg/L		111	80 - 120

Lab Sample ID: LB 500-684530/1-C
Matrix: Solid
Analysis Batch: 685348

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685091

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/15/22 14:35	11/16/22 11:32	1

Lab Sample ID: LB2 500-684547/2-B
Matrix: Solid
Analysis Batch: 685348

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685091

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/15/22 14:35	11/16/22 12:35	1

Lab Sample ID: 500-225079-11 MS
Matrix: Solid
Analysis Batch: 685348

Client Sample ID: 1401V3-19-B03 (5-9)
Prep Type: TCLP
Prep Batch: 685091

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.000991	0.000976		mg/L		98	75 - 125

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: 500-225079-11 DU
Matrix: Solid
Analysis Batch: 685348

Client Sample ID: 1401V3-19-B03 (5-9)
Prep Type: TCLP
Prep Batch: 685091

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-685376/12-A
Matrix: Solid
Analysis Batch: 685535

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		11/16/22 16:15	11/17/22 07:57	1

Lab Sample ID: LCS 500-685376/13-A
Matrix: Solid
Analysis Batch: 685535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.165	0.162		mg/Kg		98	80 - 120

Lab Sample ID: 500-225079-1 MS
Matrix: Solid
Analysis Batch: 685535

Client Sample ID: 1401V3-19-B18 (0-2)
Prep Type: Total/NA
Prep Batch: 685376

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.096		0.0992	0.192		mg/Kg	⊛	96	75 - 125

Lab Sample ID: 500-225079-1 MSD
Matrix: Solid
Analysis Batch: 685535

Client Sample ID: 1401V3-19-B18 (0-2)
Prep Type: Total/NA
Prep Batch: 685376

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.096		0.0993	0.192		mg/Kg	⊛	96	75 - 125	0	20

Lab Sample ID: 500-225079-1 DU
Matrix: Solid
Analysis Batch: 685535

Client Sample ID: 1401V3-19-B18 (0-2)
Prep Type: Total/NA
Prep Batch: 685376

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.096		0.100		mg/Kg	⊛	4	20

Method: 9045D - pH

Lab Sample ID: 500-225079-2 DU
Matrix: Solid
Analysis Batch: 685174

Client Sample ID: 1401V3-19-B17 (0-6)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	7.7		7.0		SU		8	

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B18 (0-2)

Lab Sample ID: 500-225079-1

Date Collected: 11/08/22 13:15

Matrix: Solid

Date Received: 11/08/22 17:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6010B		1	685243	JJB	EET CHI	11/15/22 18:42
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6020A		1	685028	FXG	EET CHI	11/14/22 17:07
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6020A		1	685369	FXG	EET CHI	11/16/22 02:00
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	7470A			685091	MJG	EET CHI	11/15/22 14:35 - 11/15/22 16:35 ¹
TCLP	Analysis	7470A		1	685348	MJG	EET CHI	11/16/22 12:05
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 20:03
Total/NA	Analysis	Moisture		1	684929	LWN	EET CHI	11/15/22 08:48

Client Sample ID: 1401V3-19-B18 (0-2)

Lab Sample ID: 500-225079-1

Date Collected: 11/08/22 13:15

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684631	WRE	EET CHI	11/09/22 18:36
Total/NA	Analysis	8260B		1	684731	W1T	EET CHI	11/14/22 12:07
Total/NA	Prep	3541			685247	KN	EET CHI	11/16/22 08:57 - 11/16/22 15:30 ¹
Total/NA	Analysis	8270D		1	686244	SS	EET CHI	11/21/22 20:03
Total/NA	Prep	3050B			684901	LMB	EET CHI	11/14/22 17:20 - 11/14/22 17:50 ¹
Total/NA	Analysis	6010B		1	685232	JJB	EET CHI	11/16/22 02:14
Total/NA	Prep	3050B			684901	LMB	EET CHI	11/14/22 17:20 - 11/14/22 17:50 ¹
Total/NA	Analysis	6010B		2	685531	JJB	EET CHI	11/16/22 14:43
Total/NA	Prep	3050B			684901	LMB	EET CHI	11/14/22 17:20 - 11/14/22 17:50 ¹
Total/NA	Analysis	6010B		5	685531	JJB	EET CHI	11/16/22 14:46
Total/NA	Prep	7471B			685376	MJG	EET CHI	11/16/22 16:15
Total/NA	Analysis	7471B		1	685535	MJG	EET CHI	11/17/22 08:27

Client Sample ID: 1401V3-19-B17 (0-6)

Lab Sample ID: 500-225079-2

Date Collected: 11/08/22 13:18

Matrix: Solid

Date Received: 11/08/22 17:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6010B		1	685243	JJB	EET CHI	11/15/22 18:45
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6020A		1	685028	FXG	EET CHI	11/14/22 17:09

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B17 (0-6)

Lab Sample ID: 500-225079-2

Date Collected: 11/08/22 13:18

Matrix: Solid

Date Received: 11/08/22 17:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6020A		1	685369	FXG	EET CHI	11/16/22 02:03
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	7470A			685091	MJG	EET CHI	11/15/22 14:35 - 11/15/22 16:35 ¹
TCLP	Analysis	7470A		1	685348	MJG	EET CHI	11/16/22 12:07
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 20:07
Total/NA	Analysis	Moisture		1	684929	LWN	EET CHI	11/15/22 08:48

Client Sample ID: 1401V3-19-B17 (0-6)

Lab Sample ID: 500-225079-2

Date Collected: 11/08/22 13:18

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684631	WRE	EET CHI	11/09/22 18:36
Total/NA	Analysis	8260B		1	684731	W1T	EET CHI	11/14/22 12:31
Total/NA	Prep	3541			685247	KN	EET CHI	11/16/22 08:57 - 11/16/22 15:30 ¹
Total/NA	Analysis	8270D		1	686244	SS	EET CHI	11/21/22 20:26
Total/NA	Prep	3050B			684903	LMB	EET CHI	11/14/22 17:25 - 11/14/22 17:55 ¹
Total/NA	Analysis	6010B		1	685514	JJJ	EET CHI	11/16/22 14:37
Total/NA	Prep	3050B			684903	LMB	EET CHI	11/14/22 17:25 - 11/14/22 17:55 ¹
Total/NA	Analysis	6010B		1	685798	JJJ	EET CHI	11/17/22 16:23
Total/NA	Prep	7471B			685376	MJG	EET CHI	11/16/22 16:15
Total/NA	Analysis	7471B		1	685535	MJG	EET CHI	11/17/22 08:40

Client Sample ID: 1401V3-19-B16 (0-6)

Lab Sample ID: 500-225079-3

Date Collected: 11/08/22 13:40

Matrix: Solid

Date Received: 11/08/22 17:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			684557	OAJ	EET CHI	11/11/22 11:34 - 11/12/22 05:34 ¹
SPLP East	Prep	3010A			684789	BDE	EET CHI	11/14/22 08:41 - 11/14/22 09:11 ¹
SPLP East	Analysis	6010B		1	685530	JJJ	EET CHI	11/16/22 18:48
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6010B		1	685243	JJJ	EET CHI	11/15/22 18:48
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6020A		1	685028	FXG	EET CHI	11/14/22 17:11
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6020A		1	685369	FXG	EET CHI	11/16/22 02:06
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	7470A			685091	MJG	EET CHI	11/15/22 14:35 - 11/15/22 16:35 ¹
TCLP	Analysis	7470A		1	685348	MJG	EET CHI	11/16/22 12:09

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B16 (0-6)

Lab Sample ID: 500-225079-3

Date Collected: 11/08/22 13:40

Matrix: Solid

Date Received: 11/08/22 17:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 20:12
Total/NA	Analysis	Moisture		1	684929	LWN	EET CHI	11/15/22 08:48

Client Sample ID: 1401V3-19-B16 (0-6)

Lab Sample ID: 500-225079-3

Date Collected: 11/08/22 13:40

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684631	WRE	EET CHI	11/09/22 18:36
Total/NA	Analysis	8260B		1	684731	W1T	EET CHI	11/14/22 12:55
Total/NA	Prep	3541			685247	KN	EET CHI	11/16/22 08:57 - 11/16/22 15:30 ¹
Total/NA	Analysis	8270D		1	686244	SS	EET CHI	11/21/22 20:49
Total/NA	Prep	3050B			684903	LMB	EET CHI	11/14/22 17:25 - 11/14/22 17:55 ¹
Total/NA	Analysis	6010B		1	685514	JJB	EET CHI	11/16/22 14:40
Total/NA	Prep	3050B			684903	LMB	EET CHI	11/14/22 17:25 - 11/14/22 17:55 ¹
Total/NA	Analysis	6010B		5	685798	JJB	EET CHI	11/17/22 16:26
Total/NA	Prep	7471B			685376	MJG	EET CHI	11/16/22 16:15
Total/NA	Analysis	7471B		1	685535	MJG	EET CHI	11/17/22 08:42

Client Sample ID: 1401V3-19-B15 (0-5)

Lab Sample ID: 500-225079-4

Date Collected: 11/08/22 13:50

Matrix: Solid

Date Received: 11/08/22 17:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6010B		1	685243	JJB	EET CHI	11/15/22 18:52
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6020A		1	685028	FXG	EET CHI	11/14/22 17:13
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6020A		1	685369	FXG	EET CHI	11/16/22 02:10
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	7470A			685091	MJG	EET CHI	11/15/22 14:35 - 11/15/22 16:35 ¹
TCLP	Analysis	7470A		1	685348	MJG	EET CHI	11/16/22 12:11
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 20:15
Total/NA	Analysis	Moisture		1	684929	LWN	EET CHI	11/15/22 08:48

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B15 (0-5)

Lab Sample ID: 500-225079-4

Date Collected: 11/08/22 13:50

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 73.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684631	WRE	EET CHI	11/09/22 18:36
Total/NA	Analysis	8260B		1	684731	W1T	EET CHI	11/14/22 13:20
Total/NA	Prep	3541			685247	KN	EET CHI	11/16/22 08:57 - 11/16/22 15:30 ¹
Total/NA	Analysis	8270D		1	686244	SS	EET CHI	11/21/22 21:12
Total/NA	Prep	3050B			684903	LMB	EET CHI	11/14/22 17:25 - 11/14/22 17:55 ¹
Total/NA	Analysis	6010B		1	685514	JJB	EET CHI	11/16/22 14:44
Total/NA	Prep	3050B			684903	LMB	EET CHI	11/14/22 17:25 - 11/14/22 17:55 ¹
Total/NA	Analysis	6010B		2	685798	JJB	EET CHI	11/17/22 16:29
Total/NA	Prep	7471B			685376	MJG	EET CHI	11/16/22 16:15
Total/NA	Analysis	7471B		1	685535	MJG	EET CHI	11/17/22 08:44

Client Sample ID: 1401V3-19-B15 (5-9)

Lab Sample ID: 500-225079-5

Date Collected: 11/08/22 13:55

Matrix: Solid

Date Received: 11/08/22 17:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			684557	OAJ	EET CHI	11/11/22 11:34 - 11/12/22 05:34 ¹
SPLP East	Prep	3010A			684789	BDE	EET CHI	11/14/22 08:41 - 11/14/22 09:11 ¹
SPLP East	Analysis	6010B		1	685530	JJB	EET CHI	11/16/22 18:45
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6010B		1	685243	JJB	EET CHI	11/15/22 18:55
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6020A		1	685028	FXG	EET CHI	11/14/22 17:15
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6020A		1	685369	FXG	EET CHI	11/16/22 02:13
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	7470A			685091	MJG	EET CHI	11/15/22 14:35 - 11/15/22 16:35 ¹
TCLP	Analysis	7470A		1	685348	MJG	EET CHI	11/16/22 12:13
Total/NA	Analysis	9045D		1	684987	EH	EET CHI	11/15/22 13:24 - 11/15/22 13:42 ¹
Total/NA	Analysis	Moisture		1	684929	LWN	EET CHI	11/15/22 08:48

Client Sample ID: 1401V3-19-B15 (5-9)

Lab Sample ID: 500-225079-5

Date Collected: 11/08/22 13:55

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684631	WRE	EET CHI	11/09/22 18:36
Total/NA	Analysis	8260B		1	684731	W1T	EET CHI	11/14/22 13:44
Total/NA	Prep	3541			685247	KN	EET CHI	11/16/22 08:57 - 11/16/22 15:30 ¹
Total/NA	Analysis	8270D		1	686244	SS	EET CHI	11/21/22 21:35
Total/NA	Prep	3050B			684903	LMB	EET CHI	11/14/22 17:25 - 11/14/22 17:55 ¹
Total/NA	Analysis	6010B		1	685514	JJB	EET CHI	11/16/22 14:53

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B15 (5-9)

Lab Sample ID: 500-225079-5

Date Collected: 11/08/22 13:55

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			684903	LMB	EET CHI	11/14/22 17:25 - 11/14/22 17:55 ¹
Total/NA	Analysis	6010B		2	685798	JJJ	EET CHI	11/17/22 16:32
Total/NA	Prep	3050B			684903	LMB	EET CHI	11/14/22 17:25 - 11/14/22 17:55 ¹
Total/NA	Analysis	6010B		5	685798	JJJ	EET CHI	11/17/22 16:36
Total/NA	Prep	7471B			685376	MJG	EET CHI	11/16/22 16:15
Total/NA	Analysis	7471B		1	685535	MJG	EET CHI	11/17/22 08:46

Client Sample ID: 1401V3-19-B14 (0-6)

Lab Sample ID: 500-225079-6

Date Collected: 11/08/22 14:10

Matrix: Solid

Date Received: 11/08/22 17:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			684557	OAJ	EET CHI	11/11/22 11:34 - 11/12/22 05:34 ¹
SPLP East	Prep	3010A			684789	BDE	EET CHI	11/14/22 08:41 - 11/14/22 09:11 ¹
SPLP East	Analysis	6010B		1	685530	JJJ	EET CHI	11/16/22 18:51
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6010B		1	685243	JJJ	EET CHI	11/15/22 18:58
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6020A		1	685028	FXG	EET CHI	11/14/22 17:17
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6020A		1	685369	FXG	EET CHI	11/16/22 02:17
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	7470A			685091	MJG	EET CHI	11/15/22 14:35 - 11/15/22 16:35 ¹
TCLP	Analysis	7470A		1	685348	MJG	EET CHI	11/16/22 12:15
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 20:17
Total/NA	Analysis	Moisture		1	684929	LWN	EET CHI	11/15/22 08:48

Client Sample ID: 1401V3-19-B14 (0-6)

Lab Sample ID: 500-225079-6

Date Collected: 11/08/22 14:10

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 76.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684631	WRE	EET CHI	11/09/22 18:36
Total/NA	Analysis	8260B		1	684731	W1T	EET CHI	11/14/22 14:08
Total/NA	Prep	3541			685247	KN	EET CHI	11/16/22 08:57 - 11/16/22 15:30 ¹
Total/NA	Analysis	8270D		1	686244	SS	EET CHI	11/21/22 21:58
Total/NA	Prep	3050B			684903	LMB	EET CHI	11/14/22 17:25 - 11/14/22 17:55 ¹
Total/NA	Analysis	6010B		1	685514	JJJ	EET CHI	11/16/22 14:56
Total/NA	Prep	3050B			684903	LMB	EET CHI	11/14/22 17:25 - 11/14/22 17:55 ¹
Total/NA	Analysis	6010B		1	685798	JJJ	EET CHI	11/17/22 16:39
Total/NA	Prep	7471B			685376	MJG	EET CHI	11/16/22 16:15
Total/NA	Analysis	7471B		1	685535	MJG	EET CHI	11/17/22 08:48

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B13 (0-5)

Lab Sample ID: 500-225079-7

Date Collected: 11/08/22 14:20

Matrix: Solid

Date Received: 11/08/22 17:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			684557	OAJ	EET CHI	11/11/22 11:34 - 11/12/22 05:34 ¹
SPLP East	Prep	3010A			684789	BDE	EET CHI	11/14/22 08:41 - 11/14/22 09:11 ¹
SPLP East	Analysis	6010B		1	685530	JJB	EET CHI	11/16/22 18:54
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6010B		1	685243	JJB	EET CHI	11/15/22 19:02
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6020A		1	685028	FXG	EET CHI	11/14/22 17:19
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6020A		1	685369	FXG	EET CHI	11/16/22 02:20
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	7470A			685091	MJG	EET CHI	11/15/22 14:35 - 11/15/22 16:35 ¹
TCLP	Analysis	7470A		1	685348	MJG	EET CHI	11/16/22 12:18
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 20:20
Total/NA	Analysis	Moisture		1	684929	LWN	EET CHI	11/15/22 08:48

Client Sample ID: 1401V3-19-B13 (0-5)

Lab Sample ID: 500-225079-7

Date Collected: 11/08/22 14:20

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 79.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684631	WRE	EET CHI	11/09/22 18:36
Total/NA	Analysis	8260B		1	684731	W1T	EET CHI	11/14/22 14:32
Total/NA	Prep	3541			685247	KN	EET CHI	11/16/22 08:57 - 11/16/22 15:30 ¹
Total/NA	Analysis	8270D		1	686244	SS	EET CHI	11/21/22 22:21
Total/NA	Prep	3050B			684903	LMB	EET CHI	11/14/22 17:25 - 11/14/22 17:55 ¹
Total/NA	Analysis	6010B		1	685514	JJB	EET CHI	11/16/22 15:00
Total/NA	Prep	3050B			684903	LMB	EET CHI	11/14/22 17:25 - 11/14/22 17:55 ¹
Total/NA	Analysis	6010B		1	685798	JJB	EET CHI	11/17/22 16:52
Total/NA	Prep	7471B			685376	MJG	EET CHI	11/16/22 16:15
Total/NA	Analysis	7471B		1	685535	MJG	EET CHI	11/17/22 08:50

Client Sample ID: 1401V3-19-B13 (5-9)

Lab Sample ID: 500-225079-8

Date Collected: 11/08/22 14:25

Matrix: Solid

Date Received: 11/08/22 17:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			684557	OAJ	EET CHI	11/11/22 11:34 - 11/12/22 05:34 ¹
SPLP East	Prep	3010A			684789	BDE	EET CHI	11/14/22 08:41 - 11/14/22 09:11 ¹
SPLP East	Analysis	6010B		1	685530	JJB	EET CHI	11/16/22 19:04
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6010B		1	685243	JJB	EET CHI	11/15/22 19:05

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B13 (5-9)

Lab Sample ID: 500-225079-8

Date Collected: 11/08/22 14:25

Matrix: Solid

Date Received: 11/08/22 17:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6020A		1	685028	FXG	EET CHI	11/14/22 17:21
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6020A		1	685369	FXG	EET CHI	11/16/22 02:24
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	7470A			685091	MJG	EET CHI	11/15/22 14:35 - 11/15/22 16:35 ¹
TCLP	Analysis	7470A		1	685348	MJG	EET CHI	11/16/22 12:24
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 20:22
Total/NA	Analysis	Moisture		1	684929	LWN	EET CHI	11/15/22 08:48

Client Sample ID: 1401V3-19-B13 (5-9)

Lab Sample ID: 500-225079-8

Date Collected: 11/08/22 14:25

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684631	WRE	EET CHI	11/09/22 18:36
Total/NA	Analysis	8260B		1	684731	W1T	EET CHI	11/14/22 14:56
Total/NA	Prep	3541			685247	KN	EET CHI	11/16/22 08:57 - 11/16/22 15:30 ¹
Total/NA	Analysis	8270D		1	686244	SS	EET CHI	11/21/22 22:44
Total/NA	Prep	3050B			684903	LMB	EET CHI	11/14/22 17:25 - 11/14/22 17:55 ¹
Total/NA	Analysis	6010B		1	685514	JJB	EET CHI	11/16/22 15:03
Total/NA	Prep	3050B			684903	LMB	EET CHI	11/14/22 17:25 - 11/14/22 17:55 ¹
Total/NA	Analysis	6010B		1	685798	JJB	EET CHI	11/17/22 16:55
Total/NA	Prep	7471B			685376	MJG	EET CHI	11/16/22 16:15
Total/NA	Analysis	7471B		1	685535	MJG	EET CHI	11/17/22 08:52

Client Sample ID: 1401V3-19-B12 (0-6)

Lab Sample ID: 500-225079-9

Date Collected: 11/08/22 14:50

Matrix: Solid

Date Received: 11/08/22 17:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			684557	OAJ	EET CHI	11/11/22 11:34 - 11/12/22 05:34 ¹
SPLP East	Prep	3010A			684789	BDE	EET CHI	11/14/22 08:41 - 11/14/22 09:11 ¹
SPLP East	Analysis	6010B		1	685530	JJB	EET CHI	11/16/22 19:07
TCLP	Leach	1311			684547	OAJ	EET CHI	11/11/22 11:34 - 11/12/22 05:34 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6010B		1	685514	JJB	EET CHI	11/16/22 11:45
TCLP	Leach	1311			684547	OAJ	EET CHI	11/11/22 11:34 - 11/12/22 05:34 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6010B		1	685243	JJB	EET CHI	11/15/22 19:38
TCLP	Leach	1311			684547	OAJ	EET CHI	11/11/22 11:34 - 11/12/22 05:34 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6020A		1	685369	FXG	EET CHI	11/16/22 02:58

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B12 (0-6)

Lab Sample ID: 500-225079-9

Date Collected: 11/08/22 14:50

Matrix: Solid

Date Received: 11/08/22 17:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			684547	OAJ	EET CHI	11/11/22 11:34 - 11/12/22 05:34 ¹
TCLP	Prep	7470A			685091	MJG	EET CHI	11/15/22 14:35 - 11/15/22 16:35 ¹
TCLP	Analysis	7470A		1	685348	MJG	EET CHI	11/16/22 12:39
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 20:25
Total/NA	Analysis	Moisture		1	684929	LWN	EET CHI	11/15/22 08:48

Client Sample ID: 1401V3-19-B12 (0-6)

Lab Sample ID: 500-225079-9

Date Collected: 11/08/22 14:50

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684631	WRE	EET CHI	11/09/22 18:36
Total/NA	Analysis	8260B		1	684731	W1T	EET CHI	11/14/22 15:20
Total/NA	Prep	3541			685247	KN	EET CHI	11/16/22 08:57 - 11/16/22 15:30 ¹
Total/NA	Analysis	8270D		1	686244	SS	EET CHI	11/21/22 23:07
Total/NA	Prep	3050B			684903	LMB	EET CHI	11/14/22 17:25 - 11/14/22 17:55 ¹
Total/NA	Analysis	6010B		1	685514	JJB	EET CHI	11/16/22 15:06
Total/NA	Prep	3050B			684903	LMB	EET CHI	11/14/22 17:25 - 11/14/22 17:55 ¹
Total/NA	Analysis	6010B		1	685798	JJB	EET CHI	11/17/22 16:59
Total/NA	Prep	7471B			685376	MJG	EET CHI	11/16/22 16:15
Total/NA	Analysis	7471B		1	685535	MJG	EET CHI	11/17/22 08:54

Client Sample ID: 1401V3-19-B03 (0-5)

Lab Sample ID: 500-225079-10

Date Collected: 11/08/22 15:15

Matrix: Solid

Date Received: 11/08/22 17:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			684557	OAJ	EET CHI	11/11/22 11:34 - 11/12/22 05:34 ¹
SPLP East	Prep	3010A			684789	BDE	EET CHI	11/14/22 08:41 - 11/14/22 09:11 ¹
SPLP East	Analysis	6010B		1	685530	JJB	EET CHI	11/16/22 19:10
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6010B		1	685243	JJB	EET CHI	11/15/22 19:08
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6020A		1	685028	FXG	EET CHI	11/14/22 17:23
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6020A		1	685369	FXG	EET CHI	11/16/22 02:27
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	7470A			685091	MJG	EET CHI	11/15/22 14:35 - 11/15/22 16:35 ¹
TCLP	Analysis	7470A		1	685348	MJG	EET CHI	11/16/22 12:26
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 20:27
Total/NA	Analysis	Moisture		1	684929	LWN	EET CHI	11/15/22 08:48

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B03 (0-5)

Lab Sample ID: 500-225079-10

Date Collected: 11/08/22 15:15

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 79.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684631	WRE	EET CHI	11/09/22 18:36
Total/NA	Analysis	8260B		1	684731	W1T	EET CHI	11/14/22 15:44
Total/NA	Prep	3541			685247	KN	EET CHI	11/16/22 08:57 - 11/16/22 15:30 ¹
Total/NA	Analysis	8270D		1	686244	SS	EET CHI	11/21/22 23:30
Total/NA	Prep	3050B			684903	LMB	EET CHI	11/14/22 17:25 - 11/14/22 17:55 ¹
Total/NA	Analysis	6010B		1	685514	JJB	EET CHI	11/16/22 15:09
Total/NA	Prep	3050B			684903	LMB	EET CHI	11/14/22 17:25 - 11/14/22 17:55 ¹
Total/NA	Analysis	6010B		1	685798	JJB	EET CHI	11/17/22 17:02
Total/NA	Prep	7471B			685376	MJG	EET CHI	11/16/22 16:15
Total/NA	Analysis	7471B		1	685535	MJG	EET CHI	11/17/22 09:00

Client Sample ID: 1401V3-19-B03 (5-9)

Lab Sample ID: 500-225079-11

Date Collected: 11/08/22 15:20

Matrix: Solid

Date Received: 11/08/22 17:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6010B		1	685243	JJB	EET CHI	11/15/22 19:18
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6020A		1	685028	FXG	EET CHI	11/14/22 17:30
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	3010A			684787	BDE	EET CHI	11/14/22 08:37 - 11/14/22 09:07 ¹
TCLP	Analysis	6020A		1	685369	FXG	EET CHI	11/16/22 02:37
TCLP	Leach	1311			684530	OAJ	EET CHI	11/11/22 11:37 - 11/12/22 05:37 ¹
TCLP	Prep	7470A			685091	MJG	EET CHI	11/15/22 14:35 - 11/15/22 16:35 ¹
TCLP	Analysis	7470A		1	685348	MJG	EET CHI	11/16/22 12:28
Total/NA	Analysis	9045D		1	685174	LWN	EET CHI	11/15/22 20:29
Total/NA	Analysis	Moisture		1	684929	LWN	EET CHI	11/15/22 08:48

Client Sample ID: 1401V3-19-B03 (5-9)

Lab Sample ID: 500-225079-11

Date Collected: 11/08/22 15:20

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			684631	WRE	EET CHI	11/09/22 18:36
Total/NA	Analysis	8260B		1	684731	W1T	EET CHI	11/14/22 16:08
Total/NA	Prep	3541			685247	KN	EET CHI	11/16/22 08:57 - 11/16/22 15:30 ¹
Total/NA	Analysis	8270D		1	686470	SS	EET CHI	11/22/22 14:21
Total/NA	Prep	3050B			684903	LMB	EET CHI	11/14/22 17:25 - 11/14/22 17:55 ¹
Total/NA	Analysis	6010B		1	685514	JJB	EET CHI	11/16/22 15:12
Total/NA	Prep	3050B			684903	LMB	EET CHI	11/14/22 17:25 - 11/14/22 17:55 ¹
Total/NA	Analysis	6010B		1	685798	JJB	EET CHI	11/17/22 17:05

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Client Sample ID: 1401V3-19-B03 (5-9)

Lab Sample ID: 500-225079-11

Date Collected: 11/08/22 15:20

Matrix: Solid

Date Received: 11/08/22 17:09

Percent Solids: 80.9

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Prep	7471B			685376	MJG	EET CHI	11/16/22 16:15
Total/NA	Analysis	7471B		1	685535	MJG	EET CHI	11/17/22 09:02

[†] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225079-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

- 1
- 2
- 3
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- 11
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- 13
- 14
- 15
- 16

Chain of Custody Record 522919 eurofins

Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager D. Tiebont		Site Contact A. Hoppel		Date 11/8/22		COC No 4	
Company Name WSP		Tel/Email _____		Lab Contact R. Wright		Carrier _____		4 of 4 COCs	
Address 30 N LBSAIE		Analysis Turnaround Time							
City/State/Zip CHICAGO, IL		<input type="checkbox"/> CALENDAR DAYS		<input type="checkbox"/> WORKING DAYS		 500-225079 COC		Sampler: _____ For Lab Use Only Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/> Job / SDG No 500-225079	
Phone _____		TAT if different from Below _____		<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day					
Fax _____									
Project Name 1007 #013 Butterfield R.									
Site PN 31403035 013									
P O # _____									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sample Specific Notes
1	1401V3-19-B18(0-2)	11/8/22	1315	C	S	2	X	X	X
2	1401V3-19-B17(0-6)	11/8/22	1318	C	S	2	X	X	X
3	1401V3-19-B16(0-6)	11/8/22	1340	C	S	2	X	X	X
4	1401V3-19-B15(0-5)	11/8/22	1350	C	S	2	X	X	X
5	1401V3-19-B15(5-9)	11/8/22	1355	C	S	2	X	X	X
6	1401V3-19-B14(0-6)	11/8/22	1410	C	S	2	X	X	X
7	1401V3-19-B13(0-5)	11/8/22	1426	C	S	2	X	X	X
8	1401V3-19-B13(5-9)	11/8/22	1425	C	S	2	X	X	X
9	1401V3-19-B12(0-6)	11/8/22	1450	C	S	2	X	X	X
10	1401V3-19-B03(0-5)	11/8/22	1515	C	S	2	X	X	X
11	1401V3-19-B03(5-9)	11/8/22	1520	C	S	2	X	X	X
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown						<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months			
Special Instructions/QC Requirements & Comments: *SPL dependent on TCLP results									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No _____		Cooler Temp (°C) Obs'd _____		Cor'd _____		Therm ID No _____	
Received by [Signature] Company WSP Date/Time 11/8/22 15:17		Received by [Signature] Company FETA Date/Time 11/8/22 15:17		Received by [Signature] Company FETA Date/Time 11/8/22 15:17		Received by [Signature] Company FETA Date/Time 11/8/22 15:17		Received by [Signature] Company FETA Date/Time 11/8/22 15:17	
Received by [Signature] Company FETA Date/Time 11/8/22 15:17		Received by [Signature] Company FETA Date/Time 11/8/22 15:17		Received by [Signature] Company FETA Date/Time 11/8/22 15:17		Received by [Signature] Company FETA Date/Time 11/8/22 15:17		Received by [Signature] Company FETA Date/Time 11/8/22 15:17	
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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225079-1

Login Number: 225079

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5,5.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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Authorized for release by
Richard Wright, Senior Project Manager
Richard.Wright@et.eurofinsus.com
(708)746-0045



ANALYTICAL REPORT

PREPARED FOR

Attn: Dean Tiebot
WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602

Generated 12/2/2022 4:34:35 PM

JOB DESCRIPTION

IDOT - 196-002-WO 13 IL 56

JOB NUMBER

500-225418-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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Authorized for release by
Jodie Bracken, Project Management Assistant II
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Designee for
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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225418-1

Job ID: 500-225418-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225418-1

Receipt

The samples were received on 11/14/2022 5:56 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.5° C and 3.6° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-686470 was outside the method criteria for the following analyte(s): 2,4,5-Trichlorophenol, 2-Fluorobiphenyl (Surr), Acenaphthene, Benzo[g,h,i]perylene, Dibenz(a,h)anthracene, Hexachlorobutadiene and Indeno[1,2,3-cd]pyrene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-686470 was outside the method criteria for the following analyte(s): 4-Nitrophenol, Hexachlorocyclopentadiene and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The tailing factor for Benzidine failed in the DFTPP analysis. The tailing factor was acceptable in the CCVIS. This indicates the system was in control and no corrective action was required. (DFTPP 500-686697/1)

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-686697 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane], 2-Nitroaniline, Bis(2-chloroethyl)ether, Hexachlorocyclopentadiene, Phenol and Phenol-d5. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample: 1401V3-19-B01 (0-6) (500-225418-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225418-1

Client Sample ID: 1401V3-19-B01 (0-6)

Lab Sample ID: 500-225418-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.020	J	0.036	0.0066	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.018	J	0.036	0.0052	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.44		0.036	0.0051	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.070		0.036	0.0061	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	1.2		0.036	0.0068	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.85		0.036	0.0073	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.40		0.036	0.0049	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.51		0.036	0.010	mg/Kg	1	✳	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.074	J	0.18	0.067	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene - DL	0.71		0.073	0.016	mg/Kg	2	✳	8270D	Total/NA
Benzo[k]fluoranthene - DL	0.26		0.073	0.022	mg/Kg	2	✳	8270D	Total/NA
Benzo[a]pyrene - DL	0.48		0.073	0.014	mg/Kg	2	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	0.24		0.073	0.019	mg/Kg	2	✳	8270D	Total/NA
Dibenz(a,h)anthracene - DL	0.056	J	0.073	0.014	mg/Kg	2	✳	8270D	Total/NA
Benzo[g,h,i]perylene - DL	0.27		0.073	0.024	mg/Kg	2	✳	8270D	Total/NA
Antimony	0.33	J	1.1	0.21	mg/Kg	1	✳	6010B	Total/NA
Arsenic	3.8		0.55	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	46		5.5	0.62	mg/Kg	10	✳	6010B	Total/NA
Beryllium	0.39		0.22	0.051	mg/Kg	1	✳	6010B	Total/NA
Boron	9.9		2.7	0.25	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.16		0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	140000	B	110	18	mg/Kg	10	✳	6010B	Total/NA
Chromium	9.1		0.55	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	4.9		0.27	0.071	mg/Kg	1	✳	6010B	Total/NA
Copper	10		0.55	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	10000		110	57	mg/Kg	10	✳	6010B	Total/NA
Lead	15		0.27	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	82000		55	27	mg/Kg	10	✳	6010B	Total/NA
Manganese	330		0.55	0.079	mg/Kg	1	✳	6010B	Total/NA
Nickel	9.9		0.55	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	890		27	9.7	mg/Kg	1	✳	6010B	Total/NA
Sodium	420		55	8.1	mg/Kg	1	✳	6010B	Total/NA
Vanadium	11		0.27	0.064	mg/Kg	1	✳	6010B	Total/NA
Zinc	45		11	4.8	mg/Kg	10	✳	6010B	Total/NA
Barium	0.62		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.28	J B	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.72		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.033	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.64		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.021		0.017	0.0057	mg/Kg	1	✳	7471B	Total/NA
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225418-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010B	Metals (ICP)	SW846	EET CHI
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
Frozen Preserve	Freezing Samples	None	EET CF

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225418-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225418-1	1401V3-19-B01 (0-6)	Solid	11/14/22 09:42	11/14/22 17:56

1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225418-1

Client Sample ID: 1401V3-19-B01 (0-6)

Lab Sample ID: 500-225418-1

Date Collected: 11/14/22 09:42

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 87.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.081		0.081	0.015	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
Benzene	<0.0081		0.0081	0.0015	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
Bromodichloromethane	<0.0081		0.0081	0.00063	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
Bromoform	<0.016		0.016	0.0010	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
Bromomethane	<0.032		0.032	0.0026	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
2-Butanone (MEK)	<0.032		0.032	0.0024	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
Carbon disulfide	<0.0081		0.0081	0.0019	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
Carbon tetrachloride	<0.0081		0.0081	0.0023	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
Chlorobenzene	<0.0081		0.0081	0.0012	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
Chloroethane	<0.032		0.032	0.0058	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
Chloroform	<0.0081		0.0081	0.0027	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
Chloromethane	<0.032		0.032	0.0053	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
cis-1,2-Dichloroethene	<0.0081		0.0081	0.0012	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
cis-1,3-Dichloropropene	<0.0081		0.0081	0.00090	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
Dibromochloromethane	<0.0081		0.0081	0.00035	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
1,1-Dichloroethane	<0.0081		0.0081	0.00069	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
1,2-Dichloroethane	<0.0081		0.0081	0.00050	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
1,1-Dichloroethene	<0.0081		0.0081	0.0011	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
1,2-Dichloropropane	<0.0081		0.0081	0.00069	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
1,3-Dichloropropene, Total	<0.016		0.016	0.0018	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
Ethylbenzene	<0.0081		0.0081	0.0039	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
2-Hexanone	<0.032		0.032	0.0037	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
Methylene Chloride	<0.081		0.081	0.047	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
4-Methyl-2-pentanone (MIBK)	<0.032		0.032	0.0027	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
Methyl tert-butyl ether	<0.0081		0.0081	0.00035	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
Styrene	<0.0081		0.0081	0.0056	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
1,1,2,2-Tetrachloroethane	<0.0081		0.0081	0.00056	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
Tetrachloroethene	<0.0081		0.0081	0.0015	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
Toluene	<0.0081		0.0081	0.0053	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
trans-1,2-Dichloroethene	<0.0081		0.0081	0.00098	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
trans-1,3-Dichloropropene	<0.0081		0.0081	0.00089	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
1,1,1-Trichloroethane	<0.0081		0.0081	0.00074	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
1,1,2-Trichloroethane	<0.0081		0.0081	0.00052	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
Trichloroethene	<0.0081		0.0081	0.0023	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
Vinyl acetate	<0.016		0.016	0.0027	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
Vinyl chloride	<0.016		0.016	0.0056	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1
Xylenes, Total	<0.016		0.016	0.0058	mg/Kg	☼	11/21/22 08:21	11/21/22 23:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		77 - 120	11/21/22 08:21	11/21/22 23:55	1
Dibromofluoromethane (Surr)	109		80 - 123	11/21/22 08:21	11/21/22 23:55	1
Toluene-d8 (Surr)	92		76 - 120	11/21/22 08:21	11/21/22 23:55	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.081	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225418-1

Client Sample ID: 1401V3-19-B01 (0-6)

Lab Sample ID: 500-225418-1

Date Collected: 11/14/22 09:42

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 87.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
2-Chlorophenol	<0.18		0.18	0.063	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
Hexachlorobutadiene	<0.18		0.18	0.058	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
2,4,5-Trichlorophenol	<0.36		0.36	0.084	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
2-Methylnaphthalene	<0.074		0.074	0.0067	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
2-Nitrophenol	<0.36		0.36	0.087	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
Acenaphthene	0.020	J	0.036	0.0066	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
Fluorene	0.018	J	0.036	0.0052	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.29	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
Phenanthrene	0.44		0.036	0.0051	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
Anthracene	0.070		0.036	0.0061	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
Carbazole	<0.18		0.18	0.092	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
Fluoranthene	1.2		0.036	0.0068	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
Pyrene	0.85		0.036	0.0073	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
Benzo[a]anthracene	0.40		0.036	0.0049	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
Chrysene	0.51		0.036	0.010	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225418-1

Client Sample ID: 1401V3-19-B01 (0-6)

Lab Sample ID: 500-225418-1

Date Collected: 11/14/22 09:42

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 87.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
Bis(2-ethylhexyl) phthalate	0.074	J	0.18	0.067	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	11/16/22 13:40	11/22/22 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	81		31 - 166	11/16/22 13:40	11/22/22 17:56	1
Phenol-d5	76		30 - 153	11/16/22 13:40	11/22/22 17:56	1
Nitrobenzene-d5 (Surr)	65		37 - 147	11/16/22 13:40	11/22/22 17:56	1
2-Fluorobiphenyl (Surr)	80		43 - 145	11/16/22 13:40	11/22/22 17:56	1
2,4,6-Tribromophenol	63		31 - 143	11/16/22 13:40	11/22/22 17:56	1
Terphenyl-d14 (Surr)	105		42 - 157	11/16/22 13:40	11/22/22 17:56	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	0.71		0.073	0.016	mg/Kg	☼	11/16/22 13:40	11/23/22 13:58	2
Benzo[k]fluoranthene	0.26		0.073	0.022	mg/Kg	☼	11/16/22 13:40	11/23/22 13:58	2
Benzo[a]pyrene	0.48		0.073	0.014	mg/Kg	☼	11/16/22 13:40	11/23/22 13:58	2
Indeno[1,2,3-cd]pyrene	0.24		0.073	0.019	mg/Kg	☼	11/16/22 13:40	11/23/22 13:58	2
Dibenz(a,h)anthracene	0.056	J	0.073	0.014	mg/Kg	☼	11/16/22 13:40	11/23/22 13:58	2
Benzo[g,h,i]perylene	0.27		0.073	0.024	mg/Kg	☼	11/16/22 13:40	11/23/22 13:58	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	88		31 - 166	11/16/22 13:40	11/23/22 13:58	2
Phenol-d5	69		30 - 153	11/16/22 13:40	11/23/22 13:58	2
Nitrobenzene-d5 (Surr)	66		37 - 147	11/16/22 13:40	11/23/22 13:58	2
2-Fluorobiphenyl (Surr)	70		43 - 145	11/16/22 13:40	11/23/22 13:58	2
2,4,6-Tribromophenol	67		31 - 143	11/16/22 13:40	11/23/22 13:58	2
Terphenyl-d14 (Surr)	99		42 - 157	11/16/22 13:40	11/23/22 13:58	2

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.1	0.21	mg/Kg	☼	11/23/22 15:20	11/29/22 18:10	1
Arsenic	3.8		0.55	0.19	mg/Kg	☼	11/23/22 15:20	11/29/22 18:10	1
Barium	46		5.5	0.62	mg/Kg	☼	11/23/22 15:20	11/30/22 19:54	10
Beryllium	0.39		0.22	0.051	mg/Kg	☼	11/23/22 15:20	11/29/22 18:10	1
Boron	9.9		2.7	0.25	mg/Kg	☼	11/23/22 15:20	11/29/22 18:10	1
Cadmium	0.16		0.11	0.020	mg/Kg	☼	11/23/22 15:20	11/29/22 18:10	1
Calcium	140000	B	110	18	mg/Kg	☼	11/23/22 15:20	11/30/22 19:54	10
Chromium	9.1		0.55	0.27	mg/Kg	☼	11/23/22 15:20	11/29/22 18:10	1
Cobalt	4.9		0.27	0.071	mg/Kg	☼	11/23/22 15:20	11/29/22 18:10	1
Copper	10		0.55	0.15	mg/Kg	☼	11/23/22 15:20	11/29/22 18:10	1
Iron	10000		110	57	mg/Kg	☼	11/23/22 15:20	11/30/22 19:54	10
Lead	15		0.27	0.13	mg/Kg	☼	11/23/22 15:20	11/29/22 18:10	1
Magnesium	82000		55	27	mg/Kg	☼	11/23/22 15:20	11/30/22 19:54	10
Manganese	330		0.55	0.079	mg/Kg	☼	11/23/22 15:20	11/29/22 18:10	1
Nickel	9.9		0.55	0.16	mg/Kg	☼	11/23/22 15:20	11/29/22 18:10	1
Potassium	890		27	9.7	mg/Kg	☼	11/23/22 15:20	11/29/22 18:10	1
Selenium	<0.55		0.55	0.32	mg/Kg	☼	11/23/22 15:20	11/29/22 18:10	1
Silver	<0.27		0.27	0.070	mg/Kg	☼	11/23/22 15:20	11/29/22 18:10	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225418-1

Client Sample ID: 1401V3-19-B01 (0-6)

Lab Sample ID: 500-225418-1

Date Collected: 11/14/22 09:42

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 87.3

Method: SW846 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	420		55	8.1	mg/Kg	☼	11/23/22 15:20	11/29/22 18:10	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	11/23/22 15:20	11/29/22 18:10	1
Vanadium	11		0.27	0.064	mg/Kg	☼	11/23/22 15:20	11/29/22 18:10	1
Zinc	45		11	4.8	mg/Kg	☼	11/23/22 15:20	11/30/22 19:54	10

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.62		0.50	0.050	mg/L		11/22/22 18:35	11/30/22 15:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 18:35	11/30/22 15:44	1
Boron	0.28	J B	0.50	0.050	mg/L		11/22/22 18:35	11/30/22 15:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 18:35	11/30/22 15:44	1
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:44	1
Cobalt	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:44	1
Iron	<0.40		0.40	0.20	mg/L		11/22/22 18:35	11/30/22 15:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 18:35	11/30/22 15:44	1
Manganese	0.72		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:44	1
Nickel	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:44	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 18:35	11/30/22 15:44	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:44	1
Zinc	0.033	J	0.50	0.020	mg/L		11/22/22 18:35	11/30/22 15:44	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.64		0.025	0.010	mg/L		11/22/22 19:37	12/01/22 15:21	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 18:35	11/29/22 15:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 18:35	11/29/22 15:49	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 09:15	11/28/22 08:38	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.017	0.0057	mg/Kg	☼	11/28/22 16:35	11/29/22 08:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.3		0.2	0.2	SU			11/18/22 22:28	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225418-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225418-1

GC/MS VOA

Pre Prep Batch: 372631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225418-1	1401V3-19-B01 (0-6)	Total/NA	Solid	Frozen Preserve	

Prep Batch: 372633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225418-1	1401V3-19-B01 (0-6)	Total/NA	Solid	5035	372631
MB 310-372633/1-A	Method Blank	Total/NA	Solid	5035	
LCS 310-372633/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 310-372633/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 372636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225418-1	1401V3-19-B01 (0-6)	Total/NA	Solid	8260D	372633
MB 310-372633/1-A	Method Blank	Total/NA	Solid	8260D	372633
LCS 310-372633/2-A	Lab Control Sample	Total/NA	Solid	8260D	372633
LCS 310-372633/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	372633

GC/MS Semi VOA

Prep Batch: 685354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225418-1	1401V3-19-B01 (0-6)	Total/NA	Solid	3541	
500-225418-1 - DL	1401V3-19-B01 (0-6)	Total/NA	Solid	3541	
MB 500-685354/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-685354/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 686359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-685354/1-A	Method Blank	Total/NA	Solid	8270D	685354
LCS 500-685354/2-A	Lab Control Sample	Total/NA	Solid	8270D	685354

Analysis Batch: 686470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225418-1	1401V3-19-B01 (0-6)	Total/NA	Solid	8270D	685354

Analysis Batch: 686697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225418-1 - DL	1401V3-19-B01 (0-6)	Total/NA	Solid	8270D	685354

Metals

Leach Batch: 686377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225418-1	1401V3-19-B01 (0-6)	TCLP	Solid	1311	
LB 500-686377/1-B	Method Blank	TCLP	Solid	1311	
LB 500-686377/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 686388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225418-1	1401V3-19-B01 (0-6)	SPLP East	Solid	1312	
LB 500-686388/1-B	Method Blank	SPLP East	Solid	1312	

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225418-1

Metals

Prep Batch: 686617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225418-1	1401V3-19-B01 (0-6)	TCLP	Solid	3010A	686377
LB 500-686377/1-B	Method Blank	TCLP	Solid	3010A	686377
LCS 500-686617/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 686620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225418-1	1401V3-19-B01 (0-6)	SPLP East	Solid	3010A	686388
LB 500-686388/1-B	Method Blank	SPLP East	Solid	3010A	686388
LCS 500-686620/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 686728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225418-1	1401V3-19-B01 (0-6)	TCLP	Solid	7470A	686377
LB 500-686377/1-C	Method Blank	TCLP	Solid	7470A	686377
MB 500-686728/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-686728/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 686816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225418-1	1401V3-19-B01 (0-6)	Total/NA	Solid	3050B	
MB 500-686816/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-686816/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 687106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225418-1	1401V3-19-B01 (0-6)	Total/NA	Solid	7471B	
MB 500-687106/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-687106/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 687111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225418-1	1401V3-19-B01 (0-6)	TCLP	Solid	7470A	686728
LB 500-686377/1-C	Method Blank	TCLP	Solid	7470A	686728
MB 500-686728/12-A	Method Blank	Total/NA	Solid	7470A	686728
LCS 500-686728/14-A	Lab Control Sample	Total/NA	Solid	7470A	686728

Analysis Batch: 687292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225418-1	1401V3-19-B01 (0-6)	Total/NA	Solid	7471B	687106
MB 500-687106/12-A	Method Blank	Total/NA	Solid	7471B	687106
LCS 500-687106/13-A	Lab Control Sample	Total/NA	Solid	7471B	687106

Analysis Batch: 687450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225418-1	1401V3-19-B01 (0-6)	Total/NA	Solid	6010B	686816
MB 500-686816/1-A	Method Blank	Total/NA	Solid	6010B	686816
LCS 500-686816/2-A	Lab Control Sample	Total/NA	Solid	6010B	686816

Analysis Batch: 687529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225418-1	1401V3-19-B01 (0-6)	TCLP	Solid	6020A	686617

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QC Association Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225418-1

Metals (Continued)

Analysis Batch: 687529 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-686377/1-B	Method Blank	TCLP	Solid	6020A	686617
LCS 500-686617/2-A	Lab Control Sample	Total/NA	Solid	6020A	686617

Analysis Batch: 687677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225418-1	1401V3-19-B01 (0-6)	Total/NA	Solid	6010B	686816

Analysis Batch: 687706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225418-1	1401V3-19-B01 (0-6)	TCLP	Solid	6010B	686617
LB 500-686377/1-B	Method Blank	TCLP	Solid	6010B	686617
LCS 500-686617/2-A	Lab Control Sample	Total/NA	Solid	6010B	686617

Analysis Batch: 687846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225418-1	1401V3-19-B01 (0-6)	SPLP East	Solid	6010B	686620
LB 500-686388/1-B	Method Blank	SPLP East	Solid	6010B	686620
LCS 500-686620/2-A	Lab Control Sample	Total/NA	Solid	6010B	686620

General Chemistry

Analysis Batch: 686087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225418-1	1401V3-19-B01 (0-6)	Total/NA	Solid	9045D	
LCS 500-686087/2	Lab Control Sample	Total/NA	Solid	9045D	
LCS 500-686087/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 686792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225418-1	1401V3-19-B01 (0-6)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225418-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (77-120)	DBFM (80-123)	TOL (76-120)
500-225418-1	1401V3-19-B01 (0-6)	90	109	92
LCS 310-372633/2-A	Lab Control Sample	104	103	100
LCSD 310-372633/3-A	Lab Control Sample Dup	102	103	99
MB 310-372633/1-A	Method Blank	95	105	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane (Surr)
 TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP (31-166)	PHL (30-153)	NBZ (37-147)	FBP (43-145)	TBP (31-143)	TPHL (42-157)
500-225418-1	1401V3-19-B01 (0-6)	81	76	65	80	63	105
500-225418-1 - DL	1401V3-19-B01 (0-6)	88	69	66	70	67	99
LCS 500-685354/2-A	Lab Control Sample	96	87	94	91	84	97
MB 500-685354/1-A	Method Blank	83	74	81	77	47	85

Surrogate Legend

2FP = 2-Fluorophenol
 PHL = Phenol-d5
 NBZ = Nitrobenzene-d5 (Surr)
 FBP = 2-Fluorobiphenyl (Surr)
 TBP = 2,4,6-Tribromophenol
 TPHL = Terphenyl-d14 (Surr)

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225418-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-372633/1-A
Matrix: Solid
Analysis Batch: 372636

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372633

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.097		0.097	0.018	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Benzene	<0.0097		0.0097	0.0018	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Bromodichloromethane	<0.0097		0.0097	0.00076	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Bromoform	<0.019		0.019	0.0012	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Bromomethane	<0.039		0.039	0.0031	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
2-Butanone (MEK)	<0.039		0.039	0.0029	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Carbon disulfide	<0.0097		0.0097	0.0023	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Carbon tetrachloride	<0.0097		0.0097	0.0027	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Chlorobenzene	<0.0097		0.0097	0.0015	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Chloroethane	<0.039		0.039	0.0070	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Chloroform	<0.0097		0.0097	0.0033	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Chloromethane	<0.039		0.039	0.0064	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
cis-1,2-Dichloroethene	<0.0097		0.0097	0.0015	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
cis-1,3-Dichloropropene	<0.0097		0.0097	0.0011	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Dibromochloromethane	<0.0097		0.0097	0.00043	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,1-Dichloroethane	<0.0097		0.0097	0.00084	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,2-Dichloroethane	<0.0097		0.0097	0.00060	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,1-Dichloroethene	<0.0097		0.0097	0.0014	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,2-Dichloropropane	<0.0097		0.0097	0.00084	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,3-Dichloropropene, Total	<0.019		0.019	0.0021	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Ethylbenzene	<0.0097		0.0097	0.0047	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
2-Hexanone	<0.039		0.039	0.0045	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Methylene Chloride	<0.097		0.097	0.056	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
4-Methyl-2-pentanone (MIBK)	<0.039		0.039	0.0033	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Methyl tert-butyl ether	<0.0097		0.0097	0.00043	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Styrene	<0.0097		0.0097	0.0068	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,1,2,2-Tetrachloroethane	<0.0097		0.0097	0.00068	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Tetrachloroethene	<0.0097		0.0097	0.0018	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Toluene	<0.0097		0.0097	0.0064	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
trans-1,2-Dichloroethene	<0.0097		0.0097	0.0012	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
trans-1,3-Dichloropropene	<0.0097		0.0097	0.0011	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,1,1-Trichloroethane	<0.0097		0.0097	0.00089	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,1,2-Trichloroethane	<0.0097		0.0097	0.00062	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Trichloroethene	<0.0097		0.0097	0.0027	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Vinyl acetate	<0.019		0.019	0.0033	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Vinyl chloride	<0.019		0.019	0.0068	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Xylenes, Total	<0.019		0.019	0.0070	mg/Kg		11/21/22 08:21	11/21/22 20:37	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	95		77 - 120	11/21/22 08:21	11/21/22 20:37	1
Dibromofluoromethane (Surr)	105		80 - 123	11/21/22 08:21	11/21/22 20:37	1
Toluene-d8 (Surr)	94		76 - 120	11/21/22 08:21	11/21/22 20:37	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225418-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-372633/2-A
Matrix: Solid
Analysis Batch: 372636

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372633

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Acetone	0.181	0.163		mg/Kg		90	52 - 150	
Benzene	0.0906	0.0956		mg/Kg		105	77 - 134	
Bromodichloromethane	0.0906	0.0922		mg/Kg		102	78 - 122	
Bromoform	0.0906	0.0965		mg/Kg		107	72 - 122	
2-Butanone (MEK)	0.181	0.193		mg/Kg		107	60 - 150	
Carbon disulfide	0.0906	0.0853		mg/Kg		94	61 - 142	
Carbon tetrachloride	0.0906	0.0894		mg/Kg		99	77 - 127	
Chlorobenzene	0.0906	0.0862		mg/Kg		95	76 - 120	
Chloroform	0.0906	0.0876		mg/Kg		97	78 - 127	
cis-1,2-Dichloroethene	0.0906	0.0965		mg/Kg		106	74 - 136	
cis-1,3-Dichloropropene	0.0906	0.0970		mg/Kg		107	79 - 126	
Dibromochloromethane	0.0906	0.0973		mg/Kg		107	78 - 122	
1,1-Dichloroethane	0.0906	0.0981		mg/Kg		108	74 - 137	
1,2-Dichloroethane	0.0906	0.0910		mg/Kg		100	79 - 132	
1,1-Dichloroethene	0.0906	0.0850		mg/Kg		94	62 - 130	
1,2-Dichloropropane	0.0906	0.0993		mg/Kg		110	78 - 135	
Ethylbenzene	0.0906	0.0902		mg/Kg		99	78 - 122	
2-Hexanone	0.181	0.188		mg/Kg		104	73 - 134	
Methylene Chloride	0.0906	0.0974	J	mg/Kg		108	55 - 150	
4-Methyl-2-pentanone (MIBK)	0.181	0.194		mg/Kg		107	75 - 135	
Methyl tert-butyl ether	0.0906	0.0963		mg/Kg		106	73 - 135	
Styrene	0.0906	0.0914		mg/Kg		101	75 - 120	
1,1,2,2-Tetrachloroethane	0.0906	0.0938		mg/Kg		104	80 - 127	
Tetrachloroethene	0.0906	0.0804		mg/Kg		89	72 - 121	
Toluene	0.0906	0.0880		mg/Kg		97	77 - 121	
trans-1,2-Dichloroethene	0.0906	0.0950		mg/Kg		105	71 - 134	
trans-1,3-Dichloropropene	0.0906	0.0872		mg/Kg		96	77 - 122	
1,1,1-Trichloroethane	0.0906	0.0909		mg/Kg		100	79 - 132	
1,1,2-Trichloroethane	0.0906	0.0988		mg/Kg		109	80 - 124	
Trichloroethene	0.0906	0.0914		mg/Kg		101	76 - 132	
Vinyl acetate	0.181	0.132		mg/Kg		73	37 - 150	
Xylenes, Total	0.181	0.179		mg/Kg		98	76 - 124	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	104		77 - 120
Dibromofluoromethane (Surr)	103		80 - 123
Toluene-d8 (Surr)	100		76 - 120

Lab Sample ID: LCSD 310-372633/3-A
Matrix: Solid
Analysis Batch: 372636

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 372633

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Acetone	0.163	0.157		mg/Kg		96	52 - 150	4	40	
Benzene	0.0816	0.0867		mg/Kg		106	77 - 134	10	40	
Bromodichloromethane	0.0816	0.0803		mg/Kg		98	78 - 122	14	35	
Bromoform	0.0816	0.0872		mg/Kg		107	72 - 122	10	40	
2-Butanone (MEK)	0.163	0.182		mg/Kg		111	60 - 150	6	39	

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225418-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 310-372633/3-A
Matrix: Solid
Analysis Batch: 372636

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 372633

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide	0.0816	0.0779		mg/Kg		96	61 - 142	9	40
Carbon tetrachloride	0.0816	0.0798		mg/Kg		98	77 - 127	11	40
Chlorobenzene	0.0816	0.0784		mg/Kg		96	76 - 120	10	40
Chloroform	0.0816	0.0766		mg/Kg		94	78 - 127	13	34
cis-1,2-Dichloroethene	0.0816	0.0862		mg/Kg		106	74 - 136	11	36
cis-1,3-Dichloropropene	0.0816	0.0852		mg/Kg		104	79 - 126	13	39
Dibromochloromethane	0.0816	0.0855		mg/Kg		105	78 - 122	13	37
1,1-Dichloroethane	0.0816	0.0879		mg/Kg		108	74 - 137	11	33
1,2-Dichloroethane	0.0816	0.0815		mg/Kg		100	79 - 132	11	34
1,1-Dichloroethene	0.0816	0.0761		mg/Kg		93	62 - 130	11	37
1,2-Dichloropropane	0.0816	0.0901		mg/Kg		110	78 - 135	10	34
Ethylbenzene	0.0816	0.0811		mg/Kg		99	78 - 122	11	40
2-Hexanone	0.163	0.176		mg/Kg		108	73 - 134	7	40
Methylene Chloride	0.0816	0.0899	J	mg/Kg		110	55 - 150	8	35
4-Methyl-2-pentanone (MIBK)	0.163	0.180		mg/Kg		111	75 - 135	7	40
Methyl tert-butyl ether	0.0816	0.0874		mg/Kg		107	73 - 135	10	33
Styrene	0.0816	0.0826		mg/Kg		101	75 - 120	10	40
1,1,2,2-Tetrachloroethane	0.0816	0.0869		mg/Kg		106	80 - 127	8	38
Tetrachloroethene	0.0816	0.0736		mg/Kg		90	72 - 121	9	40
Toluene	0.0816	0.0799		mg/Kg		98	77 - 121	10	40
trans-1,2-Dichloroethene	0.0816	0.0835		mg/Kg		102	71 - 134	13	36
trans-1,3-Dichloropropene	0.0816	0.0775		mg/Kg		95	77 - 122	12	40
1,1,1-Trichloroethane	0.0816	0.0826		mg/Kg		101	79 - 132	10	39
1,1,2-Trichloroethane	0.0816	0.0883		mg/Kg		108	80 - 124	11	35
Trichloroethene	0.0816	0.0825		mg/Kg		101	76 - 132	10	40
Vinyl acetate	0.163	0.105		mg/Kg		64	37 - 150	23	40
Xylenes, Total	0.163	0.162		mg/Kg		99	76 - 124	10	40

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		77 - 120
Dibromofluoromethane (Surr)	103		80 - 123
Toluene-d8 (Surr)	99		76 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-685354/1-A
Matrix: Solid
Analysis Batch: 686359

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685354

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		11/16/22 13:40	11/21/22 19:34	1

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225418-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-685354/1-A
Matrix: Solid
Analysis Batch: 686359

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685354

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Isophorone	<0.17		0.17	0.037	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Carbazole	<0.17		0.17	0.083	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		11/16/22 13:40	11/21/22 19:34	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225418-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-685354/1-A
Matrix: Solid
Analysis Batch: 686359

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685354

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		11/16/22 13:40	11/21/22 19:34	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		11/16/22 13:40	11/21/22 19:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	83		31 - 166	11/16/22 13:40	11/21/22 19:34	1
Phenol-d5	74		30 - 153	11/16/22 13:40	11/21/22 19:34	1
Nitrobenzene-d5 (Surr)	81		37 - 147	11/16/22 13:40	11/21/22 19:34	1
2-Fluorobiphenyl (Surr)	77		43 - 145	11/16/22 13:40	11/21/22 19:34	1
2,4,6-Tribromophenol	47		31 - 143	11/16/22 13:40	11/21/22 19:34	1
Terphenyl-d14 (Surr)	85		42 - 157	11/16/22 13:40	11/21/22 19:34	1

Lab Sample ID: LCS 500-685354/2-A
Matrix: Solid
Analysis Batch: 686359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685354

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.10		mg/Kg		83	56 - 122
Bis(2-chloroethyl)ether	1.33	1.10		mg/Kg		82	55 - 111
1,3-Dichlorobenzene	1.33	1.10		mg/Kg		83	65 - 124
1,4-Dichlorobenzene	1.33	1.11		mg/Kg		84	61 - 110
1,2-Dichlorobenzene	1.33	1.13		mg/Kg		85	62 - 110
2-Methylphenol	1.33	1.30		mg/Kg		98	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.24		mg/Kg		93	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.14		mg/Kg		86	56 - 118
Hexachloroethane	1.33	1.07		mg/Kg		80	60 - 114
2-Chlorophenol	1.33	1.23		mg/Kg		92	64 - 110
Nitrobenzene	1.33	1.22		mg/Kg		92	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.20		mg/Kg		90	60 - 112
1,2,4-Trichlorobenzene	1.33	1.19		mg/Kg		90	66 - 117
Isophorone	1.33	1.15		mg/Kg		86	55 - 110
2,4-Dimethylphenol	1.33	1.20		mg/Kg		90	60 - 110
Hexachlorobutadiene	1.33	1.16		mg/Kg		87	56 - 120
Naphthalene	1.33	1.18		mg/Kg		88	63 - 110
2,4-Dichlorophenol	1.33	1.22		mg/Kg		91	58 - 120
4-Chloroaniline	1.33	0.919		mg/Kg		69	30 - 150
2,4,6-Trichlorophenol	1.33	1.24		mg/Kg		93	57 - 120
2,4,5-Trichlorophenol	1.33	1.21		mg/Kg		91	50 - 120
Hexachlorocyclopentadiene	1.33	0.949		mg/Kg		71	10 - 133
2-Methylnaphthalene	1.33	1.18		mg/Kg		88	69 - 112
2-Nitroaniline	1.33	1.27		mg/Kg		96	57 - 124
2-Chloronaphthalene	1.33	1.14		mg/Kg		86	69 - 114
4-Chloro-3-methylphenol	1.33	1.28		mg/Kg		96	65 - 122
2,6-Dinitrotoluene	1.33	1.20		mg/Kg		90	70 - 123
2-Nitrophenol	1.33	1.25		mg/Kg		94	60 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225418-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-685354/2-A
Matrix: Solid
Analysis Batch: 686359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685354

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
3-Nitroaniline	1.33	0.677		mg/Kg		51	40 - 122
Dimethyl phthalate	1.33	1.16		mg/Kg		87	69 - 116
2,4-Dinitrophenol	2.67	0.999		mg/Kg		37	10 - 100
Acenaphthylene	1.33	1.17		mg/Kg		88	68 - 120
2,4-Dinitrotoluene	1.33	1.27		mg/Kg		95	69 - 124
Acenaphthene	1.33	1.20		mg/Kg		90	65 - 124
Dibenzofuran	1.33	1.18		mg/Kg		89	66 - 115
4-Nitrophenol	2.67	2.45		mg/Kg		92	30 - 122
Fluorene	1.33	1.17		mg/Kg		88	62 - 120
4-Nitroaniline	1.33	1.06		mg/Kg		79	60 - 160
4-Bromophenyl phenyl ether	1.33	1.24		mg/Kg		93	68 - 118
Hexachlorobenzene	1.33	1.23		mg/Kg		92	63 - 124
Diethyl phthalate	1.33	1.16		mg/Kg		87	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.17		mg/Kg		88	62 - 119
Pentachlorophenol	2.67	1.68		mg/Kg		63	13 - 112
N-Nitrosodiphenylamine	1.33	1.22		mg/Kg		92	65 - 112
4,6-Dinitro-2-methylphenol	2.67	1.59		mg/Kg		60	10 - 110
Phenanthrene	1.33	1.23		mg/Kg		92	62 - 120
Anthracene	1.33	1.25		mg/Kg		94	70 - 114
Carbazole	1.33	1.30		mg/Kg		97	65 - 142
Di-n-butyl phthalate	1.33	1.25		mg/Kg		94	65 - 120
Fluoranthene	1.33	1.32		mg/Kg		99	62 - 120
Pyrene	1.33	1.28		mg/Kg		96	61 - 128
Butyl benzyl phthalate	1.33	1.23		mg/Kg		92	71 - 129
Benzo[a]anthracene	1.33	1.20		mg/Kg		90	67 - 122
Chrysene	1.33	1.17		mg/Kg		87	63 - 120
3,3'-Dichlorobenzidine	1.33	0.858		mg/Kg		64	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.26		mg/Kg		95	72 - 131
Di-n-octyl phthalate	1.33	1.34		mg/Kg		100	68 - 134
Benzo[b]fluoranthene	1.33	1.29		mg/Kg		97	69 - 129
Benzo[k]fluoranthene	1.33	1.18		mg/Kg		89	68 - 127
Benzo[a]pyrene	1.33	1.25		mg/Kg		94	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.42		mg/Kg		107	68 - 130
Dibenz(a,h)anthracene	1.33	1.35		mg/Kg		101	64 - 131
Benzo[g,h,i]perylene	1.33	1.33		mg/Kg		100	72 - 131
3 & 4 Methylphenol	1.33	1.28		mg/Kg		96	57 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	96		31 - 166
Phenol-d5	87		30 - 153
Nitrobenzene-d5 (Surr)	94		37 - 147
2-Fluorobiphenyl (Surr)	91		43 - 145
2,4,6-Tribromophenol	84		31 - 143
Terphenyl-d14 (Surr)	97		42 - 157

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225418-1

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-686617/2-A
Matrix: Solid
Analysis Batch: 687706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686617

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	Limits
Barium	0.500	0.512		mg/L		102		80 - 120
Beryllium	0.0500	0.0493		mg/L		99		80 - 120
Boron	1.00	1.17		mg/L		117		80 - 120
Cadmium	0.0500	0.0525		mg/L		105		80 - 120
Chromium	0.200	0.197		mg/L		98		80 - 120
Cobalt	0.500	0.519		mg/L		104		80 - 120
Iron	1.00	0.988		mg/L		99		80 - 120
Lead	0.100	0.0960		mg/L		96		80 - 120
Manganese	0.500	0.490		mg/L		98		80 - 120
Nickel	0.500	0.508		mg/L		102		80 - 120
Selenium	0.100	0.110		mg/L		110		80 - 120
Silver	0.0500	0.0533		mg/L		107		80 - 120
Zinc	0.500	0.548		mg/L		110		80 - 120

Lab Sample ID: LCS 500-686620/2-A
Matrix: Solid
Analysis Batch: 687846

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686620

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	Limits
Manganese	0.500	0.505		mg/L		101		80 - 120

Lab Sample ID: MB 500-686816/1-A
Matrix: Solid
Analysis Batch: 687450

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686816

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Arsenic	<1.0		1.0	0.34	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Barium	<1.0		1.0	0.11	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Beryllium	<0.40		0.40	0.093	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Boron	<5.0		5.0	0.47	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Cadmium	<0.20		0.20	0.036	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Calcium	6.81	J	20	3.4	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Chromium	<1.0		1.0	0.50	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Cobalt	<0.50		0.50	0.13	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Copper	<1.0		1.0	0.28	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Iron	<20		20	10	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Lead	<0.50		0.50	0.23	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Magnesium	<10		10	5.0	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Manganese	<1.0		1.0	0.15	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Nickel	<1.0		1.0	0.29	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Potassium	<50		50	18	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Selenium	<1.0		1.0	0.59	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Silver	<0.50		0.50	0.13	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Sodium	<100		100	15	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Thallium	<1.0		1.0	0.50	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Vanadium	<0.50		0.50	0.12	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Zinc	<2.0		2.0	0.88	mg/Kg		11/23/22 15:20	11/29/22 16:35	1

Eurofins Chicago

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225418-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-686816/2-A
Matrix: Solid
Analysis Batch: 687450

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686816

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	Limits
Antimony	50.0	44.3		mg/Kg		89		80 - 120
Arsenic	10.0	9.02		mg/Kg		90		80 - 120
Barium	200	198		mg/Kg		99		80 - 120
Beryllium	5.00	4.59		mg/Kg		92		80 - 120
Boron	100	83.9		mg/Kg		84		80 - 120
Cadmium	5.00	4.57		mg/Kg		91		80 - 120
Calcium	1000	1010		mg/Kg		101		80 - 120
Chromium	20.0	19.9		mg/Kg		100		80 - 120
Cobalt	50.0	49.5		mg/Kg		99		80 - 120
Copper	25.0	24.5		mg/Kg		98		80 - 120
Iron	100	101		mg/Kg		101		80 - 120
Lead	10.0	9.39		mg/Kg		94		80 - 120
Magnesium	1000	930		mg/Kg		93		80 - 120
Manganese	50.0	48.6		mg/Kg		97		80 - 120
Nickel	50.0	48.2		mg/Kg		96		80 - 120
Potassium	1000	934		mg/Kg		93		80 - 120
Selenium	10.0	8.17		mg/Kg		82		80 - 120
Silver	5.00	4.30		mg/Kg		86		80 - 120
Sodium	1000	934		mg/Kg		93		80 - 120
Thallium	10.0	9.11		mg/Kg		91		80 - 120
Vanadium	50.0	49.3		mg/Kg		99		80 - 120
Zinc	50.0	48.2		mg/Kg		96		80 - 120

Lab Sample ID: LB 500-686377/1-B
Matrix: Solid
Analysis Batch: 687706

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 686617

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		11/22/22 18:35	11/30/22 15:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 18:35	11/30/22 15:38	1
Boron	0.276	J	0.50	0.050	mg/L		11/22/22 18:35	11/30/22 15:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 18:35	11/30/22 15:38	1
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:38	1
Cobalt	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:38	1
Iron	<0.40		0.40	0.20	mg/L		11/22/22 18:35	11/30/22 15:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 18:35	11/30/22 15:38	1
Manganese	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:38	1
Nickel	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:38	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 18:35	11/30/22 15:38	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:38	1
Zinc	<0.50		0.50	0.020	mg/L		11/22/22 18:35	11/30/22 15:38	1

Lab Sample ID: LB 500-686388/1-B
Matrix: Solid
Analysis Batch: 687846

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 686620

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Manganese	<0.025		0.025	0.010	mg/L		11/22/22 19:37	12/01/22 15:14	1

Eurofins Chicago

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225418-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-686617/2-A
Matrix: Solid
Analysis Batch: 687529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686617

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.486		mg/L		97	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: LB 500-686377/1-B
Matrix: Solid
Analysis Batch: 687529

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 686617

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 18:35	11/29/22 15:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 18:35	11/29/22 15:45	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-686728/12-A
Matrix: Solid
Analysis Batch: 687111

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686728

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 09:15	11/28/22 08:32	1

Lab Sample ID: LCS 500-686728/14-A
Matrix: Solid
Analysis Batch: 687111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686728

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00191		mg/L		96	80 - 120

Lab Sample ID: LB 500-686377/1-C
Matrix: Solid
Analysis Batch: 687111

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 686728

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 09:15	11/28/22 08:34	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-687106/12-A
Matrix: Solid
Analysis Batch: 687292

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		11/28/22 16:35	11/29/22 08:01	1

Lab Sample ID: LCS 500-687106/13-A
Matrix: Solid
Analysis Batch: 687292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687106

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.159		mg/Kg		96	80 - 120

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225418-1

Client Sample ID: 1401V3-19-B01 (0-6)

Lab Sample ID: 500-225418-1

Date Collected: 11/14/22 09:42

Matrix: Solid

Date Received: 11/14/22 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686388	AW	EET CHI	11/21/22 12:03 - 11/22/22 06:03 ¹
SPLP East	Prep	3010A			686620	LMB	EET CHI	11/22/22 19:37 - 11/22/22 20:07 ¹
SPLP East	Analysis	6010B		1	687846	JJJ	EET CHI	12/01/22 15:21
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6010B		1	687706	JJJ	EET CHI	11/30/22 15:44
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 15:49
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686728	MJG	EET CHI	11/23/22 09:15 - 11/23/22 11:15 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 08:38
Total/NA	Analysis	9045D		1	686087	LWN	EET CHI	11/18/22 22:28
Total/NA	Analysis	Moisture		1	686792	LWN	EET CHI	11/23/22 14:22

Client Sample ID: 1401V3-19-B01 (0-6)

Lab Sample ID: 500-225418-1

Date Collected: 11/14/22 09:42

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372631	MZR8	EET CF	11/15/22 09:07
Total/NA	Prep	5035			372633	MZR8	EET CF	11/21/22 08:21
Total/NA	Analysis	8260D		1	372636	MZR8	EET CF	11/21/22 23:55
Total/NA	Prep	3541			685354	EK	EET CHI	11/16/22 13:40 - 11/16/22 17:30 ¹
Total/NA	Analysis	8270D		1	686470	SS	EET CHI	11/22/22 17:56
Total/NA	Prep	3541	DL		685354	EK	EET CHI	11/16/22 13:40 - 11/16/22 17:30 ¹
Total/NA	Analysis	8270D	DL	2	686697	JSB	EET CHI	11/23/22 13:58
Total/NA	Prep	3050B			686816	LMB	EET CHI	11/23/22 15:20 - 11/23/22 15:50 ¹
Total/NA	Analysis	6010B		1	687450	JJJ	EET CHI	11/29/22 18:10
Total/NA	Prep	3050B			686816	LMB	EET CHI	11/23/22 15:20 - 11/23/22 15:50 ¹
Total/NA	Analysis	6010B		10	687677	JJJ	EET CHI	11/30/22 19:54
Total/NA	Prep	7471B			687106	MJG	EET CHI	11/28/22 16:35
Total/NA	Analysis	7471B		1	687292	MJG	EET CHI	11/29/22 08:09

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225418-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

Laboratory: Eurofins Cedar Falls

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Colorado	Petroleum Storage Tank Program	IA100001 (OR)	09-29-23
Georgia	State	IA100001 (OR)	09-29-23
Illinois	NELAP	200024	11-29-22
Iowa	State	007	12-01-23
Kansas	NELAP	E-10341	01-31-23
Minnesota	NELAP	019-999-319	12-31-22
Minnesota (Petrofund)	State	3349	01-18-24
North Dakota	State	R-186	09-29-23
Oregon	NELAP	IA100001	09-29-23

Chain of Custody Record

522939




Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager D. Tiebout		Site Contact A. Hoop		Date 11/14/22		COC No 1	
Company Name WSP		Tel/Email		Lab Contact R. Wignat		Carrier		1 of 5 COCs	
Address 30N. LaSalle		Analysis Turnaround Time		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ PH _____ Pb, Cd, Cu _____ Total Metals _____ SVOCs _____ VOCs _____ TCLP* _____		 500-225418 COC		Sampler	
City/State/Zip Chicago IL		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____						For Lab Use Only	
Phone		<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Walk-in Client	
Fax								Lab Sampling	
Project Name EDS W013 - Butterfield Rd								Job / SDG No	
Site 314835013								500-225418	
PO#								Sample Specific Notes	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	
1401V3-19-B01 (0-B)		11/14/22	0942	C	S	2			
1401V3-19-B01 (7-B)		11/14/22		C	S	2			3M Retired, not sampled
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other									
Possible Hazard Identification Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments SPLP results based on TCLP results 3.3 → 3.5, 3.4 → 3.6									
Custody Seal's Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd		Corr'd		Therm ID No	
Received by [Signature]		Company WSP		Date/Time 11/14/22 1620		Received by [Signature]		Company EETA	
Requested by [Signature]		Company EETA		Date/Time 11/14/22 1756		Received by		Company	
Signed by		Company		Date/Time		Received by Laboratory		Company EETA	
						[Signature]		Date/Time 11/15/22 0715	



Environment Testing
America



500-225418 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Chicago</u>			
City/State:	CITY <u>Univ Park</u>	STATE <u>IL</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>11-18-22</u>	TIME <u>1445</u>	Received By: <u>RL</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>1</u> of <u>2</u>	
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>R</u>		Correction Factor (°C): <u>0</u>	
* Temp Blank Temperature - If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>1.9</u>		Corrected Temp (°C): <u>1.9</u>	
Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			





Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Chicago</u>			
City/State:	CITY <u>Urv Park</u>	STATE <u>IL</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>11-18-22</u>	TIME <u>1445</u>	Received By: <u>RL</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID:
Multiple Coolers?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>2</u> of <u>2</u>
Cooler Custody Seals Present?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓
<u>FW 001</u>			
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>R</u>		Correction Factor (°C): <u>0</u>	
Temp Blank Temperature - If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>0.6</u>		Corrected Temp (°C): <u>0.6</u>	
Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling?		<input type="checkbox"/> Yes	<input type="checkbox"/> No
a) If yes: Is there evidence that the chilling process began?		<input type="checkbox"/> Yes	<input type="checkbox"/> No
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?)		<input type="checkbox"/> Yes	<input type="checkbox"/> No
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



Chain of Custody Record

Client Information (Sub Contract Lab)		Sampler: Wright, Richard	Lab PM: Wright, Richard	Carrier Tracking No(s): 500-167690 1	COC No: 500-167690 1
Client Contact: Richard Wright@eurofins.com		Phone: Richard Wright@eurofins.com	E-Mail: Richard Wright@eurofins.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP - Illinois		Job #: 500-225418-1	Preservation Codes: M - Hexane N - None O - AsAcO2 P - Na2CO3 Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)
Address: 3019 Venture Way, Cedar Falls, IA, 50613		Due Date Requested: 11/29/2022	Analysis Requested		
City: Cedar Falls		TAT Requested (days):	Total Number of Containers: 4		
State, Zip: IA, 50613		PO #:	Special Instructions/Note:		
Phone: 319-277-2401(Tel) 319-277-2425(Fax)		WO #:	Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>		
Email:		Project #:	Parent MS/MSD (Yes or No) <input checked="" type="checkbox"/>		
Project Name: IDOT - 196-002-WO 13 IL 56		SSOW#:	8260Difrozan, 48Hr (MOD) Copy Analyte <input checked="" type="checkbox"/>		
Site:		Sample Date: 11/14/22	Sample Time: 09:42 Central	Sample Type (C=comp, G=grab):	Preservation Codes: Solid
Sample Identification - Client ID (Lab ID): 1401V3-19-901 (0-6) (500-225418-1)		Matrix (Water, Swab, Organic, Inorganic, Aqueous, Solid)			

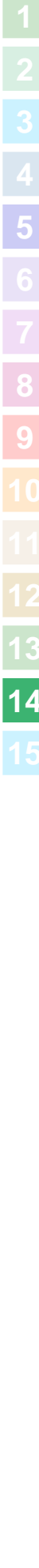
Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by
 Relinquished by
 Relinquished by
 Relinquished by
 Custody Seals Intact: Yes No
 Custody Seal No

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Dispose By Lab Archive For Months

Received by: <i>MC</i>	Date/Time: 11-18 22 1445	Company:
Received by:	Date/Time:	Company:
Received by:	Date/Time:	Company:

Method of Shipment: Cooler Temperature(s) °C and Other Remarks:



Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225418-1

Login Number: 225418

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5,3.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225418-1

Login Number: 225418

List Number: 2

Creator: Kizer, Preston V

List Source: Eurofins Cedar Falls

List Creation: 11/18/22 06:00 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Dean Tiebot
WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602
Generated 12/12/2022 2:30:47 PM

JOB DESCRIPTION

IDOT - 196-002-WO 13 IL 56

JOB NUMBER

500-225488-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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12/12/2022 2:30:47 PM

Authorized for release by
Richard Wright, Senior Project Manager
Richard.Wright@et.eurofinsus.com
(708)746-0045



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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Job ID: 500-225488-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225488-1

Receipt

The samples were received on 11/15/2022 6:26 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.4° C and 4.8° C.

GC/MS VOA

Method 8260D: The method blank for preparation batch 310-372637 and analytical batch 310-372638 contained Bromomethane above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260D: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 310-372637 and analytical batch 310-372638 recovered outside control limits for the following analyte(s): Vinyl acetate. Vinyl acetate has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not. These results have been reported and qualified.

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 310-372637 and analytical batch 310-372638 recovered outside control limits for the following analytes: Vinyl acetate.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-687960 was outside the method criteria for the following analyte(s): Pentachlorophenol and Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-687960 was outside the method criteria for the following analyte(s): 2-Fluorophenol (Surr), Benzo[g,h,i]perylene, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-686915 and analytical batch 500-687960 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

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- 14
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Client Sample ID: 1401V3-19-B04 (0-5)

Lab Sample ID: 500-225488-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.028	J	0.046	0.0084	mg/Kg	1	✳		8260D	Total/NA
2-Butanone (MEK)	0.0053	J	0.018	0.0014	mg/Kg	1	✳		8260D	Total/NA
Fluoranthene	0.0087	J	0.037	0.0069	mg/Kg	1	✳		8270D	Total/NA
Pyrene	0.0097	J	0.037	0.0074	mg/Kg	1	✳		8270D	Total/NA
Antimony	0.60	J	1.1	0.22	mg/Kg	1	✳		6010B	Total/NA
Arsenic	11		0.56	0.19	mg/Kg	1	✳		6010B	Total/NA
Barium	44		0.56	0.064	mg/Kg	1	✳		6010B	Total/NA
Beryllium	0.79		0.22	0.052	mg/Kg	1	✳		6010B	Total/NA
Boron	9.4		2.8	0.26	mg/Kg	1	✳		6010B	Total/NA
Cadmium	0.23	B	0.11	0.020	mg/Kg	1	✳		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B04 (0-5) (Continued)

Lab Sample ID: 500-225488-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	27000	B	11	1.9	mg/Kg	1	✳	6010B	Total/NA
Chromium	16		0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	13		0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Copper	26		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	21000		11	5.8	mg/Kg	1	✳	6010B	Total/NA
Lead	28		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	18000		5.6	2.8	mg/Kg	1	✳	6010B	Total/NA
Manganese	410		0.56	0.081	mg/Kg	1	✳	6010B	Total/NA
Nickel	32		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	2100		28	9.9	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.37	J	0.56	0.33	mg/Kg	1	✳	6010B	Total/NA
Silver	0.38	B	0.28	0.072	mg/Kg	1	✳	6010B	Total/NA
Sodium	1800		56	8.3	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.31	J	0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Vanadium	20		0.28	0.066	mg/Kg	1	✳	6010B	Total/NA
Zinc	89		1.1	0.49	mg/Kg	1	✳	6010B	Total/NA
Barium	0.57		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.31	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.46		0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.0078		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	9.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.036	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.20		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	2.0		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.032		0.017	0.0057	mg/Kg	1	✳	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-19-B04 (5-9)

Lab Sample ID: 500-225488-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.47	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	11		0.59	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	67		0.59	0.068	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.91		0.24	0.055	mg/Kg	1	✳	6010B	Total/NA
Boron	3.9		3.0	0.28	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.10	J B	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	2000	B	12	2.0	mg/Kg	1	✳	6010B	Total/NA
Chromium	19		0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	14		0.30	0.078	mg/Kg	1	✳	6010B	Total/NA
Copper	19		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	22000		12	6.2	mg/Kg	1	✳	6010B	Total/NA
Lead	19		0.30	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	3500		5.9	2.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	330		0.59	0.086	mg/Kg	1	✳	6010B	Total/NA
Nickel	28		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	1300		30	10	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.59		0.59	0.35	mg/Kg	1	✳	6010B	Total/NA
Silver	0.49	B	0.30	0.077	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B04 (5-9) (Continued)

Lab Sample ID: 500-225488-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	660		59	8.8	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.33	J	0.59	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29		0.30	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	63		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.31	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.031		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.27	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	4.5		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.022	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.032		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	6.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-19-B05 (0-5)

Lab Sample ID: 500-225488-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.017	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.023	J	0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.031	J	0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.027	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.036	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.015	J	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.037	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.35	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.6		0.61	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	94		0.61	0.070	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.78		0.25	0.057	mg/Kg	1	☼	6010B	Total/NA
Boron	8.1		3.1	0.29	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.28	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Calcium	20000	B	12	2.1	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.31	0.080	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		12	6.4	mg/Kg	1	☼	6010B	Total/NA
Lead	69		0.31	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	13000		6.1	3.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	350		0.61	0.089	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.61	0.18	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		31	11	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.66		0.61	0.36	mg/Kg	1	☼	6010B	Total/NA
Silver	0.41	B	0.31	0.079	mg/Kg	1	☼	6010B	Total/NA
Sodium	3300		61	9.1	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.40	J	0.61	0.31	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.31	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	98		1.2	0.54	mg/Kg	1	☼	6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.31	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.013		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	5.1		0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B05 (0-5) (Continued)

Lab Sample ID: 500-225488-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.035	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.61		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	2.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.037		0.018	0.0061	mg/Kg	1	✳	7471B	Total/NA
pH	7.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-19-B05 (5-9)

Lab Sample ID: 500-225488-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.024	J	0.057	0.010	mg/Kg	1	✳	8260D	Total/NA
2-Butanone (MEK)	0.0059	J	0.023	0.0017	mg/Kg	1	✳	8260D	Total/NA
Naphthalene	0.0064	J	0.041	0.0063	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.40	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	5.0		0.59	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	140		0.59	0.068	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.90		0.24	0.055	mg/Kg	1	✳	6010B	Total/NA
Boron	4.6		3.0	0.28	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.22	B	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	4300	B	12	2.0	mg/Kg	1	✳	6010B	Total/NA
Chromium	18		0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	8.9		0.30	0.078	mg/Kg	1	✳	6010B	Total/NA
Copper	17		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	18000		12	6.2	mg/Kg	1	✳	6010B	Total/NA
Lead	18		0.30	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	3400		5.9	2.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	230		0.59	0.086	mg/Kg	1	✳	6010B	Total/NA
Nickel	20		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	1300		30	11	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.40	J	0.59	0.35	mg/Kg	1	✳	6010B	Total/NA
Silver	0.49	B	0.30	0.077	mg/Kg	1	✳	6010B	Total/NA
Sodium	330		59	8.8	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.33	J	0.59	0.30	mg/Kg	1	✳	6010B	Total/NA
Vanadium	28		0.30	0.070	mg/Kg	1	✳	6010B	Total/NA
Zinc	86		1.2	0.52	mg/Kg	1	✳	6010B	Total/NA
Barium	0.41	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.30	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.94		0.40	0.20	mg/L	1		6010B	TCLP
Manganese	4.4		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.52		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026		0.019	0.0063	mg/Kg	1	✳	7471B	Total/NA
pH	6.4		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

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Client Sample ID: 1401V3-19-B09 (0-6)

Lab Sample ID: 500-225488-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.075		0.062	0.011	mg/Kg	1	✳		8260D	Total/NA
2-Butanone (MEK)	0.022	J	0.025	0.0019	mg/Kg	1	✳		8260D	Total/NA
Benzo[a]anthracene	0.0086	J	0.041	0.0056	mg/Kg	1	✳		8270D	Total/NA
Fluoranthene	0.0086	J	0.041	0.0077	mg/Kg	1	✳		8270D	Total/NA
Pyrene	0.0089	J	0.041	0.0083	mg/Kg	1	✳		8270D	Total/NA
Antimony	0.38	J	1.2	0.24	mg/Kg	1	✳		6010B	Total/NA
Arsenic	7.7		0.61	0.21	mg/Kg	1	✳		6010B	Total/NA
Barium	120		0.61	0.069	mg/Kg	1	✳		6010B	Total/NA
Beryllium	0.78		0.24	0.057	mg/Kg	1	✳		6010B	Total/NA
Boron	3.5		3.0	0.28	mg/Kg	1	✳		6010B	Total/NA
Cadmium	0.11	J B	0.12	0.022	mg/Kg	1	✳		6010B	Total/NA
Calcium	2700	B	12	2.1	mg/Kg	1	✳		6010B	Total/NA
Chromium	16		0.61	0.30	mg/Kg	1	✳		6010B	Total/NA
Cobalt	11		0.30	0.080	mg/Kg	1	✳		6010B	Total/NA
Copper	12		0.61	0.17	mg/Kg	1	✳		6010B	Total/NA
Iron	18000		12	6.3	mg/Kg	1	✳		6010B	Total/NA
Lead	15		0.30	0.14	mg/Kg	1	✳		6010B	Total/NA
Magnesium	2400		6.1	3.0	mg/Kg	1	✳		6010B	Total/NA
Manganese	360		0.61	0.088	mg/Kg	1	✳		6010B	Total/NA
Nickel	16		0.61	0.18	mg/Kg	1	✳		6010B	Total/NA
Potassium	850		30	11	mg/Kg	1	✳		6010B	Total/NA
Selenium	0.54	J	0.61	0.36	mg/Kg	1	✳		6010B	Total/NA
Silver	0.46	B	0.30	0.079	mg/Kg	1	✳		6010B	Total/NA
Sodium	2700		61	9.0	mg/Kg	1	✳		6010B	Total/NA
Vanadium	31		0.30	0.072	mg/Kg	1	✳		6010B	Total/NA
Zinc	41		1.2	0.53	mg/Kg	1	✳		6010B	Total/NA
Barium	0.41	J	0.50	0.050	mg/L	1			6010B	TCLP
Boron	0.30	J B	0.50	0.050	mg/L	1			6010B	TCLP
Cobalt	0.027		0.025	0.010	mg/L	1			6010B	TCLP
Iron	1.3		0.40	0.20	mg/L	1			6010B	TCLP
Manganese	6.0		0.025	0.010	mg/L	1			6010B	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B09 (0-6) (Continued)

Lab Sample ID: 500-225488-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026		0.019	0.0064	mg/Kg	1	✳	7471B	Total/NA
pH	7.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-19-B10 (0-6)

Lab Sample ID: 500-225488-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.021	J	0.039	0.0053	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.024	J	0.039	0.0076	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.036	J	0.039	0.0085	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.016	J	0.039	0.012	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.029	J	0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.043		0.039	0.0073	mg/Kg	1	✳	8270D	Total/NA
Naphthalene	0.029	J	0.039	0.0061	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.022	J	0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.037	J	0.039	0.0078	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.51	J	1.1	0.21	mg/Kg	1	✳	6010B	Total/NA
Arsenic	9.2		0.55	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	71		0.55	0.063	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.79		0.22	0.051	mg/Kg	1	✳	6010B	Total/NA
Boron	8.5		2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.29	B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	31000	B	11	1.9	mg/Kg	1	✳	6010B	Total/NA
Chromium	16		0.55	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	12		0.28	0.072	mg/Kg	1	✳	6010B	Total/NA
Copper	2000		28	7.7	mg/Kg	50	✳	6010B	Total/NA
Iron	19000		11	5.7	mg/Kg	1	✳	6010B	Total/NA
Lead	29		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	18000		5.5	2.7	mg/Kg	1	✳	6010B	Total/NA
Manganese	510		0.55	0.080	mg/Kg	1	✳	6010B	Total/NA
Nickel	28		0.55	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	2000		28	9.7	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.53	J	0.55	0.32	mg/Kg	1	✳	6010B	Total/NA
Silver	0.53	B	0.28	0.071	mg/Kg	1	✳	6010B	Total/NA
Sodium	1400		55	8.1	mg/Kg	1	✳	6010B	Total/NA
Vanadium	23		0.28	0.065	mg/Kg	1	✳	6010B	Total/NA
Zinc	140		1.1	0.48	mg/Kg	1	✳	6010B	Total/NA
Barium	0.51		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.30	J B	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	4.7		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.92		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.050		0.019	0.0064	mg/Kg	1	✳	7471B	Total/NA
pH	7.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-19-B11 (0-6)

Lab Sample ID: 500-225488-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.026	J	0.048	0.0087	mg/Kg	1	✳	8260D	Total/NA
2-Butanone (MEK)	0.0046	J	0.019	0.0014	mg/Kg	1	✳	8260D	Total/NA
Naphthalene	0.011	J	0.036	0.0056	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.012	J	0.036	0.0050	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.010	J	0.036	0.0072	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B11 (0-6) (Continued)

Lab Sample ID: 500-225488-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Antimony	0.47	J	1.1	0.21	mg/Kg	1	✳		6010B	Total/NA
Arsenic	8.8		0.54	0.19	mg/Kg	1	✳		6010B	Total/NA
Barium	40		0.54	0.062	mg/Kg	1	✳		6010B	Total/NA
Beryllium	0.71		0.22	0.051	mg/Kg	1	✳		6010B	Total/NA
Boron	12		2.7	0.25	mg/Kg	1	✳		6010B	Total/NA
Cadmium	0.22	B	0.11	0.020	mg/Kg	1	✳		6010B	Total/NA
Calcium	55000	B	22	3.7	mg/Kg	2	✳		6010B	Total/NA
Chromium	15		0.54	0.27	mg/Kg	1	✳		6010B	Total/NA
Cobalt	14		0.27	0.071	mg/Kg	1	✳		6010B	Total/NA
Copper	22		0.54	0.15	mg/Kg	1	✳		6010B	Total/NA
Iron	18000		11	5.7	mg/Kg	1	✳		6010B	Total/NA
Lead	13		0.27	0.13	mg/Kg	1	✳		6010B	Total/NA
Magnesium	27000		5.4	2.7	mg/Kg	1	✳		6010B	Total/NA
Manganese	340		0.54	0.079	mg/Kg	1	✳		6010B	Total/NA
Nickel	31		0.54	0.16	mg/Kg	1	✳		6010B	Total/NA
Potassium	2500		27	9.6	mg/Kg	1	✳		6010B	Total/NA
Silver	0.33	B	0.27	0.070	mg/Kg	1	✳		6010B	Total/NA
Sodium	910		54	8.1	mg/Kg	1	✳		6010B	Total/NA
Thallium	0.57		0.54	0.27	mg/Kg	1	✳		6010B	Total/NA
Vanadium	19		0.27	0.064	mg/Kg	1	✳		6010B	Total/NA
Zinc	61		1.1	0.48	mg/Kg	1	✳		6010B	Total/NA
Barium	0.56		0.50	0.050	mg/L	1			6010B	TCLP
Boron	0.29	J B	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Cobalt	0.019	J	0.025	0.010	mg/L	1			6010B	TCLP
Manganese	9.2		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1			6010B	TCLP
Zinc	0.028	J	0.50	0.020	mg/L	1			6010B	TCLP
Manganese	2.1		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.029		0.017	0.0057	mg/Kg	1	✳		7471B	Total/NA
pH	7.1		0.2	0.2	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010B	Metals (ICP)	SW846	EET CHI
6010B	SPLP Metals	SW846	EET CHI
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
Frozen Preserve	Freezing Samples	None	EET CF

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225488-3	1401V3-19-B04 (0-5)	Solid	11/15/22 10:35	11/15/22 18:26
500-225488-4	1401V3-19-B04 (5-9)	Solid	11/15/22 10:45	11/15/22 18:26
500-225488-5	1401V3-19-B05 (0-5)	Solid	11/15/22 11:05	11/15/22 18:26
500-225488-6	1401V3-19-B05 (5-9)	Solid	11/15/22 11:15	11/15/22 18:26
500-225488-13	1401V3-19-B09 (0-6)	Solid	11/15/22 12:10	11/15/22 18:26
500-225488-14	1401V3-19-B10 (0-6)	Solid	11/15/22 12:20	11/15/22 18:26
500-225488-15	1401V3-19-B11 (0-6)	Solid	11/15/22 12:45	11/15/22 18:26



Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B04 (0-5)

Lab Sample ID: 500-225488-3

Date Collected: 11/15/22 10:35

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 85.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.028	J	0.046	0.0084	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
Benzene	<0.0046		0.0046	0.00082	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
Bromodichloromethane	<0.0046		0.0046	0.00036	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
Bromoform	<0.0091		0.0091	0.00058	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
Bromomethane	<0.018		0.018	0.0015	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
2-Butanone (MEK)	0.0053	J	0.018	0.0014	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
Carbon disulfide	<0.0046		0.0046	0.0011	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
Carbon tetrachloride	<0.0046		0.0046	0.0013	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
Chlorobenzene	<0.0046		0.0046	0.00070	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
Chloroethane	<0.018		0.018	0.0033	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
Chloroform	<0.0046		0.0046	0.0015	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
Chloromethane	<0.018		0.018	0.0030	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00068	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00051	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
Dibromochloromethane	<0.0046		0.0046	0.00020	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
1,1-Dichloroethane	<0.0046		0.0046	0.00039	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
1,2-Dichloroethane	<0.0046		0.0046	0.00028	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
1,1-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
1,2-Dichloropropane	<0.0046		0.0046	0.00039	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
1,3-Dichloropropane, Total	<0.0091		0.0091	0.0010	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
Ethylbenzene	<0.0046		0.0046	0.0022	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
2-Hexanone	<0.018		0.018	0.0021	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
Methylene Chloride	<0.046		0.046	0.026	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
4-Methyl-2-pentanone (MIBK)	<0.018		0.018	0.0015	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00020	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
Styrene	<0.0046		0.0046	0.0032	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00032	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
Tetrachloroethene	<0.0046		0.0046	0.00087	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
Toluene	<0.0046		0.0046	0.0030	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00056	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00050	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00042	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00029	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
Trichloroethene	<0.0046		0.0046	0.0013	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
Vinyl acetate	<0.0091	*- *1	0.0091	0.0015	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
Vinyl chloride	<0.0091		0.0091	0.0032	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1
Xylenes, Total	<0.0091		0.0091	0.0033	mg/Kg	☼	11/21/22 08:33	11/22/22 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		77 - 120	11/21/22 08:33	11/22/22 14:08	1
Dibromofluoromethane (Surr)	114		80 - 123	11/21/22 08:33	11/22/22 14:08	1
Toluene-d8 (Surr)	93		76 - 120	11/21/22 08:33	11/22/22 14:08	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B04 (0-5)

Lab Sample ID: 500-225488-3

Date Collected: 11/15/22 10:35

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 85.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Fluoranthene	0.0087	J	0.037	0.0069	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Hexachlorocyclopentadiene	<0.75		0.75	0.22	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
2-Methylnaphthalene	<0.075		0.075	0.0069	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B04 (0-5)

Lab Sample ID: 500-225488-3

Date Collected: 11/15/22 10:35

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 85.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Pyrene	0.0097	J	0.037	0.0074	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	11/27/22 09:04	12/02/22 17:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	95		43 - 145				11/27/22 09:04	12/02/22 17:53	1
2-Fluorophenol (Surr)	131		31 - 166				11/27/22 09:04	12/02/22 17:53	1
Nitrobenzene-d5 (Surr)	89		37 - 147				11/27/22 09:04	12/02/22 17:53	1
Phenol-d5 (Surr)	110		30 - 153				11/27/22 09:04	12/02/22 17:53	1
Terphenyl-d14 (Surr)	125		42 - 157				11/27/22 09:04	12/02/22 17:53	1
2,4,6-Tribromophenol (Surr)	98		31 - 143				11/27/22 09:04	12/02/22 17:53	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.60	J	1.1	0.22	mg/Kg	☼	12/01/22 11:03	12/05/22 13:39	1
Arsenic	11		0.56	0.19	mg/Kg	☼	12/01/22 11:03	12/05/22 13:39	1
Barium	44		0.56	0.064	mg/Kg	☼	12/01/22 11:03	12/05/22 13:39	1
Beryllium	0.79		0.22	0.052	mg/Kg	☼	12/01/22 11:03	12/05/22 13:39	1
Boron	9.4		2.8	0.26	mg/Kg	☼	12/01/22 11:03	12/05/22 13:39	1
Cadmium	0.23	B	0.11	0.020	mg/Kg	☼	12/01/22 11:03	12/05/22 13:39	1
Calcium	27000	B	11	1.9	mg/Kg	☼	12/01/22 11:03	12/05/22 13:39	1
Chromium	16		0.56	0.28	mg/Kg	☼	12/01/22 11:03	12/05/22 13:39	1
Cobalt	13		0.28	0.073	mg/Kg	☼	12/01/22 11:03	12/05/22 13:39	1
Copper	26		0.56	0.16	mg/Kg	☼	12/01/22 11:03	12/05/22 13:39	1
Iron	21000		11	5.8	mg/Kg	☼	12/01/22 11:03	12/05/22 13:39	1
Lead	28		0.28	0.13	mg/Kg	☼	12/01/22 11:03	12/05/22 13:39	1
Magnesium	18000		5.6	2.8	mg/Kg	☼	12/01/22 11:03	12/05/22 13:39	1
Manganese	410		0.56	0.081	mg/Kg	☼	12/01/22 11:03	12/05/22 13:39	1
Nickel	32		0.56	0.16	mg/Kg	☼	12/01/22 11:03	12/05/22 13:39	1
Potassium	2100		28	9.9	mg/Kg	☼	12/01/22 11:03	12/05/22 13:39	1
Selenium	0.37	J	0.56	0.33	mg/Kg	☼	12/01/22 11:03	12/05/22 13:39	1
Silver	0.38	B	0.28	0.072	mg/Kg	☼	12/01/22 11:03	12/05/22 13:39	1
Sodium	1800		56	8.3	mg/Kg	☼	12/01/22 11:03	12/05/22 13:39	1
Thallium	0.31	J	0.56	0.28	mg/Kg	☼	12/01/22 11:03	12/05/22 13:39	1
Vanadium	20		0.28	0.066	mg/Kg	☼	12/01/22 11:03	12/05/22 13:39	1
Zinc	89		1.1	0.49	mg/Kg	☼	12/01/22 11:03	12/05/22 13:39	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.57		0.50	0.050	mg/L		11/22/22 18:39	12/01/22 15:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 18:39	12/01/22 15:53	1
Boron	0.31	J B	0.50	0.050	mg/L		11/22/22 18:39	12/01/22 15:53	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		11/22/22 18:39	12/01/22 15:53	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B04 (0-5)

Lab Sample ID: 500-225488-3

Date Collected: 11/15/22 10:35

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 85.3

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 15:53	1
Cobalt	0.019	J	0.025	0.010	mg/L		11/22/22 18:39	12/01/22 15:53	1
Iron	0.46		0.40	0.20	mg/L		11/22/22 18:39	12/01/22 15:53	1
Lead	0.0078		0.0075	0.0075	mg/L		11/22/22 18:39	12/01/22 15:53	1
Manganese	9.5		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 15:53	1
Nickel	0.022	J	0.025	0.010	mg/L		11/22/22 18:39	12/01/22 15:53	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 18:39	12/01/22 15:53	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 15:53	1
Zinc	0.036	J	0.50	0.020	mg/L		11/22/22 18:39	12/01/22 15:53	1

Method: SW846 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.20		0.0075	0.0075	mg/L		11/22/22 19:39	12/02/22 12:16	1
Manganese	2.0		0.025	0.010	mg/L		11/22/22 19:39	12/02/22 12:16	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 18:39	11/29/22 18:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 18:39	11/29/22 18:31	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 16:20	11/28/22 13:44	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.017	0.0057	mg/Kg	☆	12/02/22 15:35	12/05/22 06:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.6		0.2	0.2	SU			11/20/22 18:38	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B04 (5-9)

Lab Sample ID: 500-225488-4

Date Collected: 11/15/22 10:45

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 80.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.056		0.056	0.010	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
Benzene	<0.0056		0.0056	0.0010	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
Bromodichloromethane	<0.0056		0.0056	0.00044	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
Bromoform	<0.011		0.011	0.00072	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
Bromomethane	<0.022		0.022	0.0018	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
2-Butanone (MEK)	<0.022		0.022	0.0017	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
Carbon disulfide	<0.0056		0.0056	0.0013	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
Carbon tetrachloride	<0.0056		0.0056	0.0016	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
Chlorobenzene	<0.0056		0.0056	0.00086	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
Chloroethane	<0.022		0.022	0.0040	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
Chloroform	<0.0056		0.0056	0.0019	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
Chloromethane	<0.022		0.022	0.0037	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
cis-1,2-Dichloroethene	<0.0056		0.0056	0.00084	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
cis-1,3-Dichloropropene	<0.0056		0.0056	0.00063	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
Dibromochloromethane	<0.0056		0.0056	0.00025	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
1,1-Dichloroethane	<0.0056		0.0056	0.00048	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
1,2-Dichloroethane	<0.0056		0.0056	0.00035	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
1,1-Dichloroethene	<0.0056		0.0056	0.00078	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
1,2-Dichloropropane	<0.0056		0.0056	0.00048	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
1,3-Dichloropropene, Total	<0.011		0.011	0.0012	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
Ethylbenzene	<0.0056		0.0056	0.0027	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
2-Hexanone	<0.022		0.022	0.0026	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
Methylene Chloride	<0.056		0.056	0.032	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
4-Methyl-2-pentanone (MIBK)	<0.022		0.022	0.0019	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
Methyl tert-butyl ether	<0.0056		0.0056	0.00025	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
Styrene	<0.0056		0.0056	0.0039	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
1,1,2,2-Tetrachloroethane	<0.0056		0.0056	0.00039	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
Tetrachloroethene	<0.0056		0.0056	0.0011	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
Toluene	<0.0056		0.0056	0.0037	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
trans-1,2-Dichloroethene	<0.0056		0.0056	0.00068	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
trans-1,3-Dichloropropene	<0.0056		0.0056	0.00061	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
1,1,1-Trichloroethane	<0.0056		0.0056	0.00051	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
1,1,2-Trichloroethane	<0.0056		0.0056	0.00036	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
Trichloroethene	<0.0056		0.0056	0.0016	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
Vinyl acetate	<0.011	*- *1	0.011	0.0019	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
Vinyl chloride	<0.011		0.011	0.0039	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1
Xylenes, Total	<0.011		0.011	0.0040	mg/Kg	☼	11/21/22 08:33	11/22/22 14:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		77 - 120	11/21/22 08:33	11/22/22 14:33	1
Dibromofluoromethane (Surr)	111		80 - 123	11/21/22 08:33	11/22/22 14:33	1
Toluene-d8 (Surr)	93		76 - 120	11/21/22 08:33	11/22/22 14:33	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B04 (5-9)

Lab Sample ID: 500-225488-4

Date Collected: 11/15/22 10:45

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 80.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Benzo[g,h,i]perylene	<0.040	F1	0.040	0.013	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
2-Chlorophenol	<0.20	F1	0.20	0.069	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
4,6-Dinitro-2-methylphenol	<0.81	F1	0.81	0.32	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
2,4-Dinitrophenol	<0.81	F1	0.81	0.71	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Hexachlorobenzene	<0.081		0.081	0.0094	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Hexachlorocyclopentadiene	<0.81	F1	0.81	0.23	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Indeno[1,2,3-cd]pyrene	<0.040	F1	0.040	0.010	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
2-Methylphenol	<0.20	F1	0.20	0.065	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B04 (5-9)

Lab Sample ID: 500-225488-4

Date Collected: 11/15/22 10:45

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 80.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	11/27/22 09:04	12/02/22 18:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	88		43 - 145				11/27/22 09:04	12/02/22 18:16	1
2-Fluorophenol (Surr)	163		31 - 166				11/27/22 09:04	12/02/22 18:16	1
Nitrobenzene-d5 (Surr)	78		37 - 147				11/27/22 09:04	12/02/22 18:16	1
Phenol-d5 (Surr)	113		30 - 153				11/27/22 09:04	12/02/22 18:16	1
Terphenyl-d14 (Surr)	105		42 - 157				11/27/22 09:04	12/02/22 18:16	1
2,4,6-Tribromophenol (Surr)	79		31 - 143				11/27/22 09:04	12/02/22 18:16	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.47	J	1.2	0.23	mg/Kg	☼	12/01/22 11:03	12/05/22 13:42	1
Arsenic	11		0.59	0.20	mg/Kg	☼	12/01/22 11:03	12/05/22 13:42	1
Barium	67		0.59	0.068	mg/Kg	☼	12/01/22 11:03	12/05/22 13:42	1
Beryllium	0.91		0.24	0.055	mg/Kg	☼	12/01/22 11:03	12/05/22 13:42	1
Boron	3.9		3.0	0.28	mg/Kg	☼	12/01/22 11:03	12/05/22 13:42	1
Cadmium	0.10	J B	0.12	0.021	mg/Kg	☼	12/01/22 11:03	12/05/22 13:42	1
Calcium	2000	B	12	2.0	mg/Kg	☼	12/01/22 11:03	12/05/22 13:42	1
Chromium	19		0.59	0.29	mg/Kg	☼	12/01/22 11:03	12/05/22 13:42	1
Cobalt	14		0.30	0.078	mg/Kg	☼	12/01/22 11:03	12/05/22 13:42	1
Copper	19		0.59	0.17	mg/Kg	☼	12/01/22 11:03	12/05/22 13:42	1
Iron	22000		12	6.2	mg/Kg	☼	12/01/22 11:03	12/05/22 13:42	1
Lead	19		0.30	0.14	mg/Kg	☼	12/01/22 11:03	12/05/22 13:42	1
Magnesium	3500		5.9	2.9	mg/Kg	☼	12/01/22 11:03	12/05/22 13:42	1
Manganese	330		0.59	0.086	mg/Kg	☼	12/01/22 11:03	12/05/22 13:42	1
Nickel	28		0.59	0.17	mg/Kg	☼	12/01/22 11:03	12/05/22 13:42	1
Potassium	1300		30	10	mg/Kg	☼	12/01/22 11:03	12/05/22 13:42	1
Selenium	0.59		0.59	0.35	mg/Kg	☼	12/01/22 11:03	12/05/22 13:42	1
Silver	0.49	B	0.30	0.077	mg/Kg	☼	12/01/22 11:03	12/05/22 13:42	1
Sodium	660		59	8.8	mg/Kg	☼	12/01/22 11:03	12/05/22 13:42	1
Thallium	0.33	J	0.59	0.30	mg/Kg	☼	12/01/22 11:03	12/05/22 13:42	1
Vanadium	29		0.30	0.070	mg/Kg	☼	12/01/22 11:03	12/05/22 13:42	1
Zinc	63		1.2	0.52	mg/Kg	☼	12/01/22 11:03	12/05/22 13:42	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.32	J	0.50	0.050	mg/L		11/22/22 18:39	12/01/22 15:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 18:39	12/01/22 15:57	1
Boron	0.31	J B	0.50	0.050	mg/L		11/22/22 18:39	12/01/22 15:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 18:39	12/01/22 15:57	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B04 (5-9)

Lab Sample ID: 500-225488-4

Date Collected: 11/15/22 10:45

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 80.5

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 15:57	1
Cobalt	0.031		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 15:57	1
Iron	0.27	J	0.40	0.20	mg/L		11/22/22 18:39	12/01/22 15:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 18:39	12/01/22 15:57	1
Manganese	4.5		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 15:57	1
Nickel	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 15:57	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 18:39	12/01/22 15:57	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 15:57	1
Zinc	0.022	J	0.50	0.020	mg/L		11/22/22 18:39	12/01/22 15:57	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.1		0.025	0.010	mg/L		11/22/22 19:39	12/02/22 12:19	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 18:39	11/29/22 18:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 18:39	11/29/22 18:33	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 16:20	11/28/22 13:46	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.019	0.0065	mg/Kg	☆	12/02/22 15:35	12/05/22 06:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.5		0.2	0.2	SU			11/22/22 10:58	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B05 (0-5)

Lab Sample ID: 500-225488-5

Date Collected: 11/15/22 11:05

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 81.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.062		0.062	0.011	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
Benzene	<0.0062		0.0062	0.0011	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
Bromodichloromethane	<0.0062		0.0062	0.00048	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
Bromoform	<0.012		0.012	0.00079	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
Bromomethane	<0.025		0.025	0.0020	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
2-Butanone (MEK)	<0.025		0.025	0.0018	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
Carbon disulfide	<0.0062		0.0062	0.0015	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
Carbon tetrachloride	<0.0062		0.0062	0.0017	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
Chlorobenzene	<0.0062		0.0062	0.00095	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
Chloroethane	<0.025		0.025	0.0044	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
Chloroform	<0.0062		0.0062	0.0021	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
Chloromethane	<0.025		0.025	0.0041	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
cis-1,2-Dichloroethene	<0.0062		0.0062	0.00092	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
cis-1,3-Dichloropropene	<0.0062		0.0062	0.00069	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
Dibromochloromethane	<0.0062		0.0062	0.00027	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
1,1-Dichloroethane	<0.0062		0.0062	0.00053	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
1,2-Dichloroethane	<0.0062		0.0062	0.00038	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
1,1-Dichloroethene	<0.0062		0.0062	0.00086	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
1,2-Dichloropropane	<0.0062		0.0062	0.00053	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
1,3-Dichloropropene, Total	<0.012		0.012	0.0014	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
Ethylbenzene	<0.0062		0.0062	0.0030	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
2-Hexanone	<0.025		0.025	0.0028	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
Methylene Chloride	<0.062		0.062	0.036	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
4-Methyl-2-pentanone (MIBK)	<0.025		0.025	0.0021	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
Methyl tert-butyl ether	<0.0062		0.0062	0.00027	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
Styrene	<0.0062		0.0062	0.0043	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
1,1,2,2-Tetrachloroethane	<0.0062		0.0062	0.00043	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
Tetrachloroethene	<0.0062		0.0062	0.0012	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
Toluene	<0.0062		0.0062	0.0041	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
trans-1,2-Dichloroethene	<0.0062		0.0062	0.00075	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
trans-1,3-Dichloropropene	<0.0062		0.0062	0.00068	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
1,1,1-Trichloroethane	<0.0062		0.0062	0.00057	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
1,1,2-Trichloroethane	<0.0062		0.0062	0.00039	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
Trichloroethene	<0.0062		0.0062	0.0017	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
Vinyl acetate	<0.012	*- *1	0.012	0.0021	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
Vinyl chloride	<0.012		0.012	0.0043	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1
Xylenes, Total	<0.012		0.012	0.0044	mg/Kg	☼	11/21/22 08:33	11/22/22 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		77 - 120	11/21/22 08:33	11/22/22 14:58	1
Dibromofluoromethane (Surr)	110		80 - 123	11/21/22 08:33	11/22/22 14:58	1
Toluene-d8 (Surr)	93		76 - 120	11/21/22 08:33	11/22/22 14:58	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Benzo[a]anthracene	0.017	J	0.039	0.0052	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Benzo[a]pyrene	0.023	J	0.039	0.0075	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B05 (0-5)

Lab Sample ID: 500-225488-5

Date Collected: 11/15/22 11:05

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 81.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	0.031	J	0.039	0.0084	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Chrysene	0.027	J	0.039	0.011	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Fluoranthene	0.036	J	0.039	0.0072	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B05 (0-5)

Lab Sample ID: 500-225488-5

Date Collected: 11/15/22 11:05

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 81.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Phenanthrene	0.015	J	0.039	0.0054	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Pyrene	0.037	J	0.039	0.0077	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	11/27/22 09:04	12/02/22 19:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	94		43 - 145				11/27/22 09:04	12/02/22 19:25	1
2-Fluorophenol (Surr)	130		31 - 166				11/27/22 09:04	12/02/22 19:25	1
Nitrobenzene-d5 (Surr)	84		37 - 147				11/27/22 09:04	12/02/22 19:25	1
Phenol-d5 (Surr)	106		30 - 153				11/27/22 09:04	12/02/22 19:25	1
Terphenyl-d14 (Surr)	107		42 - 157				11/27/22 09:04	12/02/22 19:25	1
2,4,6-Tribromophenol (Surr)	91		31 - 143				11/27/22 09:04	12/02/22 19:25	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.35	J	1.2	0.24	mg/Kg	☼	12/01/22 11:03	12/05/22 13:45	1
Arsenic	7.6		0.61	0.21	mg/Kg	☼	12/01/22 11:03	12/05/22 13:45	1
Barium	94		0.61	0.070	mg/Kg	☼	12/01/22 11:03	12/05/22 13:45	1
Beryllium	0.78		0.25	0.057	mg/Kg	☼	12/01/22 11:03	12/05/22 13:45	1
Boron	8.1		3.1	0.29	mg/Kg	☼	12/01/22 11:03	12/05/22 13:45	1
Cadmium	0.28	B	0.12	0.022	mg/Kg	☼	12/01/22 11:03	12/05/22 13:45	1
Calcium	20000	B	12	2.1	mg/Kg	☼	12/01/22 11:03	12/05/22 13:45	1
Chromium	17		0.61	0.30	mg/Kg	☼	12/01/22 11:03	12/05/22 13:45	1
Cobalt	12		0.31	0.080	mg/Kg	☼	12/01/22 11:03	12/05/22 13:45	1
Copper	22		0.61	0.17	mg/Kg	☼	12/01/22 11:03	12/05/22 13:45	1
Iron	17000		12	6.4	mg/Kg	☼	12/01/22 11:03	12/05/22 13:45	1
Lead	69		0.31	0.14	mg/Kg	☼	12/01/22 11:03	12/05/22 13:45	1
Magnesium	13000		6.1	3.0	mg/Kg	☼	12/01/22 11:03	12/05/22 13:45	1
Manganese	350		0.61	0.089	mg/Kg	☼	12/01/22 11:03	12/05/22 13:45	1
Nickel	28		0.61	0.18	mg/Kg	☼	12/01/22 11:03	12/05/22 13:45	1
Potassium	2000		31	11	mg/Kg	☼	12/01/22 11:03	12/05/22 13:45	1
Selenium	0.66		0.61	0.36	mg/Kg	☼	12/01/22 11:03	12/05/22 13:45	1
Silver	0.41	B	0.31	0.079	mg/Kg	☼	12/01/22 11:03	12/05/22 13:45	1
Sodium	3300		61	9.1	mg/Kg	☼	12/01/22 11:03	12/05/22 13:45	1
Thallium	0.40	J	0.61	0.31	mg/Kg	☼	12/01/22 11:03	12/05/22 13:45	1
Vanadium	23		0.31	0.072	mg/Kg	☼	12/01/22 11:03	12/05/22 13:45	1
Zinc	98		1.2	0.54	mg/Kg	☼	12/01/22 11:03	12/05/22 13:45	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.46	J	0.50	0.050	mg/L		11/22/22 18:39	12/01/22 16:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 18:39	12/01/22 16:00	1
Boron	0.31	J B	0.50	0.050	mg/L		11/22/22 18:39	12/01/22 16:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 18:39	12/01/22 16:00	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B05 (0-5)

Lab Sample ID: 500-225488-5

Date Collected: 11/15/22 11:05

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 81.3

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:00	1
Cobalt	0.022	J	0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:00	1
Iron	<0.40		0.40	0.20	mg/L		11/22/22 18:39	12/01/22 16:00	1
Lead	0.013		0.0075	0.0075	mg/L		11/22/22 18:39	12/01/22 16:00	1
Manganese	5.1		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:00	1
Nickel	0.015	J	0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:00	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 18:39	12/01/22 16:00	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:00	1
Zinc	0.035	J	0.50	0.020	mg/L		11/22/22 18:39	12/01/22 16:00	1

Method: SW846 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.61		0.0075	0.0075	mg/L		11/22/22 19:39	12/02/22 12:22	1
Manganese	2.2		0.025	0.010	mg/L		11/22/22 19:39	12/02/22 12:22	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 18:39	11/29/22 18:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 18:39	11/29/22 18:35	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 16:20	11/28/22 13:48	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.018	0.0061	mg/Kg	☆	12/02/22 15:35	12/05/22 06:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.3		0.2	0.2	SU			11/20/22 18:43	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B05 (5-9)

Lab Sample ID: 500-225488-6

Date Collected: 11/15/22 11:15

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 80.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.024	J	0.057	0.010	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
Benzene	<0.0057		0.0057	0.0010	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
Bromodichloromethane	<0.0057		0.0057	0.00044	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
Bromoform	<0.011		0.011	0.00073	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
Bromomethane	<0.023		0.023	0.0018	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
2-Butanone (MEK)	0.0059	J	0.023	0.0017	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
Carbon disulfide	<0.0057		0.0057	0.0014	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
Carbon tetrachloride	<0.0057		0.0057	0.0016	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
Chlorobenzene	<0.0057		0.0057	0.00088	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
Chloroethane	<0.023		0.023	0.0041	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
Chloroform	<0.0057		0.0057	0.0019	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
Chloromethane	<0.023		0.023	0.0038	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
cis-1,2-Dichloroethene	<0.0057		0.0057	0.00085	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
cis-1,3-Dichloropropene	<0.0057		0.0057	0.00064	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
Dibromochloromethane	<0.0057		0.0057	0.00025	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
1,1-Dichloroethane	<0.0057		0.0057	0.00049	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
1,2-Dichloroethane	<0.0057		0.0057	0.00035	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
1,1-Dichloroethene	<0.0057		0.0057	0.00080	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
1,2-Dichloropropane	<0.0057		0.0057	0.00049	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
1,3-Dichloropropane, Total	<0.011		0.011	0.0013	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
Ethylbenzene	<0.0057		0.0057	0.0027	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
2-Hexanone	<0.023		0.023	0.0026	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
Methylene Chloride	<0.057		0.057	0.033	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
4-Methyl-2-pentanone (MIBK)	<0.023		0.023	0.0019	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
Methyl tert-butyl ether	<0.0057		0.0057	0.00025	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
Styrene	<0.0057		0.0057	0.0040	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
1,1,2,2-Tetrachloroethane	<0.0057		0.0057	0.00040	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
Tetrachloroethene	<0.0057		0.0057	0.0011	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
Toluene	<0.0057		0.0057	0.0038	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
trans-1,2-Dichloroethene	<0.0057		0.0057	0.00069	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
trans-1,3-Dichloropropene	<0.0057		0.0057	0.00063	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
1,1,1-Trichloroethane	<0.0057		0.0057	0.00052	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
1,1,2-Trichloroethane	<0.0057		0.0057	0.00036	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
Trichloroethene	<0.0057		0.0057	0.0016	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
Vinyl acetate	<0.011	*- *1	0.011	0.0019	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
Vinyl chloride	<0.011		0.011	0.0040	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1
Xylenes, Total	<0.011		0.011	0.0041	mg/Kg	☼	11/21/22 08:33	11/22/22 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		77 - 120	11/21/22 08:33	11/22/22 15:22	1
Dibromofluoromethane (Surr)	114		80 - 123	11/21/22 08:33	11/22/22 15:22	1
Toluene-d8 (Surr)	93		76 - 120	11/21/22 08:33	11/22/22 15:22	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B05 (5-9)

Lab Sample ID: 500-225488-6

Date Collected: 11/15/22 11:15

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 80.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Naphthalene	0.0064	J	0.041	0.0063	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B05 (5-9)

Lab Sample ID: 500-225488-6

Date Collected: 11/15/22 11:15

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 80.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Phenol	<0.21		0.21	0.092	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	11/27/22 09:04	12/02/22 19:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	83		43 - 145				11/27/22 09:04	12/02/22 19:48	1
2-Fluorophenol (Surr)	106		31 - 166				11/27/22 09:04	12/02/22 19:48	1
Nitrobenzene-d5 (Surr)	78		37 - 147				11/27/22 09:04	12/02/22 19:48	1
Phenol-d5 (Surr)	107		30 - 153				11/27/22 09:04	12/02/22 19:48	1
Terphenyl-d14 (Surr)	103		42 - 157				11/27/22 09:04	12/02/22 19:48	1
2,4,6-Tribromophenol (Surr)	83		31 - 143				11/27/22 09:04	12/02/22 19:48	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	J	1.2	0.23	mg/Kg	☼	12/01/22 11:03	12/05/22 13:54	1
Arsenic	5.0		0.59	0.20	mg/Kg	☼	12/01/22 11:03	12/05/22 13:54	1
Barium	140		0.59	0.068	mg/Kg	☼	12/01/22 11:03	12/05/22 13:54	1
Beryllium	0.90		0.24	0.055	mg/Kg	☼	12/01/22 11:03	12/05/22 13:54	1
Boron	4.6		3.0	0.28	mg/Kg	☼	12/01/22 11:03	12/05/22 13:54	1
Cadmium	0.22	B	0.12	0.021	mg/Kg	☼	12/01/22 11:03	12/05/22 13:54	1
Calcium	4300	B	12	2.0	mg/Kg	☼	12/01/22 11:03	12/05/22 13:54	1
Chromium	18		0.59	0.29	mg/Kg	☼	12/01/22 11:03	12/05/22 13:54	1
Cobalt	8.9		0.30	0.078	mg/Kg	☼	12/01/22 11:03	12/05/22 13:54	1
Copper	17		0.59	0.17	mg/Kg	☼	12/01/22 11:03	12/05/22 13:54	1
Iron	18000		12	6.2	mg/Kg	☼	12/01/22 11:03	12/05/22 13:54	1
Lead	18		0.30	0.14	mg/Kg	☼	12/01/22 11:03	12/05/22 13:54	1
Magnesium	3400		5.9	2.9	mg/Kg	☼	12/01/22 11:03	12/05/22 13:54	1
Manganese	230		0.59	0.086	mg/Kg	☼	12/01/22 11:03	12/05/22 13:54	1
Nickel	20		0.59	0.17	mg/Kg	☼	12/01/22 11:03	12/05/22 13:54	1
Potassium	1300		30	11	mg/Kg	☼	12/01/22 11:03	12/05/22 13:54	1
Selenium	0.40	J	0.59	0.35	mg/Kg	☼	12/01/22 11:03	12/05/22 13:54	1
Silver	0.49	B	0.30	0.077	mg/Kg	☼	12/01/22 11:03	12/05/22 13:54	1
Sodium	330		59	8.8	mg/Kg	☼	12/01/22 11:03	12/05/22 13:54	1
Thallium	0.33	J	0.59	0.30	mg/Kg	☼	12/01/22 11:03	12/05/22 13:54	1
Vanadium	28		0.30	0.070	mg/Kg	☼	12/01/22 11:03	12/05/22 13:54	1
Zinc	86		1.2	0.52	mg/Kg	☼	12/01/22 11:03	12/05/22 13:54	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.41	J	0.50	0.050	mg/L		11/22/22 18:39	12/01/22 16:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 18:39	12/01/22 16:03	1
Boron	0.30	J B	0.50	0.050	mg/L		11/22/22 18:39	12/01/22 16:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 18:39	12/01/22 16:03	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B05 (5-9)

Lab Sample ID: 500-225488-6

Date Collected: 11/15/22 11:15

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 80.1

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:03	1
Cobalt	0.018	J	0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:03	1
Iron	0.94		0.40	0.20	mg/L		11/22/22 18:39	12/01/22 16:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 18:39	12/01/22 16:03	1
Manganese	4.4		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:03	1
Nickel	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:03	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 18:39	12/01/22 16:03	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:03	1
Zinc	<0.50		0.50	0.020	mg/L		11/22/22 18:39	12/01/22 16:03	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.52		0.025	0.010	mg/L		11/22/22 19:39	12/02/22 12:25	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 18:39	11/29/22 18:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 18:39	11/29/22 18:37	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 16:20	11/28/22 13:50	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.019	0.0063	mg/Kg	☆	12/02/22 15:35	12/05/22 06:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.4		0.2	0.2	SU			11/20/22 18:46	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B09 (0-6)

Lab Sample ID: 500-225488-13

Date Collected: 11/15/22 12:10

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 79.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.075		0.062	0.011	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
Benzene	<0.0062		0.0062	0.0011	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
Bromodichloromethane	<0.0062		0.0062	0.00049	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
Bromoform	<0.012		0.012	0.00080	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
Bromomethane	<0.025		0.025	0.0020	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
2-Butanone (MEK)	0.022 J		0.025	0.0019	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
Carbon disulfide	<0.0062		0.0062	0.0015	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
Carbon tetrachloride	<0.0062		0.0062	0.0017	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
Chlorobenzene	<0.0062		0.0062	0.00096	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
Chloroethane	<0.025		0.025	0.0045	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
Chloroform	<0.0062		0.0062	0.0021	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
Chloromethane	<0.025		0.025	0.0041	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
cis-1,2-Dichloroethene	<0.0062		0.0062	0.00093	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
cis-1,3-Dichloropropene	<0.0062		0.0062	0.00070	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
Dibromochloromethane	<0.0062		0.0062	0.00027	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
1,1-Dichloroethane	<0.0062		0.0062	0.00053	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
1,2-Dichloroethane	<0.0062		0.0062	0.00039	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
1,1-Dichloroethene	<0.0062		0.0062	0.00087	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
1,2-Dichloropropane	<0.0062		0.0062	0.00053	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
1,3-Dichloropropene, Total	<0.012		0.012	0.0014	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
Ethylbenzene	<0.0062		0.0062	0.0030	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
2-Hexanone	<0.025		0.025	0.0029	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
Methylene Chloride	<0.062		0.062	0.036	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
4-Methyl-2-pentanone (MIBK)	<0.025		0.025	0.0021	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
Methyl tert-butyl ether	<0.0062		0.0062	0.00027	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
Styrene	<0.0062		0.0062	0.0044	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
1,1,2,2-Tetrachloroethane	<0.0062		0.0062	0.00044	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
Tetrachloroethene	<0.0062		0.0062	0.0012	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
Toluene	<0.0062		0.0062	0.0041	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
trans-1,2-Dichloroethene	<0.0062		0.0062	0.00076	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
trans-1,3-Dichloropropene	<0.0062		0.0062	0.00068	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
1,1,1-Trichloroethane	<0.0062		0.0062	0.00057	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
1,1,2-Trichloroethane	<0.0062		0.0062	0.00040	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
Trichloroethene	<0.0062		0.0062	0.0017	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
Vinyl acetate	<0.012		0.012	0.0021	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
Vinyl chloride	<0.012		0.012	0.0044	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1
Xylenes, Total	<0.012		0.012	0.0045	mg/Kg	☼	11/22/22 11:52	11/22/22 21:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		77 - 120	11/22/22 11:52	11/22/22 21:10	1
Dibromofluoromethane (Surr)	112		80 - 123	11/22/22 11:52	11/22/22 21:10	1
Toluene-d8 (Surr)	93		76 - 120	11/22/22 11:52	11/22/22 21:10	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Benzo[a]anthracene	0.0086 J		0.041	0.0056	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B09 (0-6)

Lab Sample ID: 500-225488-13

Date Collected: 11/15/22 12:10

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 79.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.041		0.041	0.0090	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.33	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Fluoranthene	0.0086	J	0.041	0.0077	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Hexachlorobenzene	<0.084		0.084	0.0096	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
2-Methylnaphthalene	<0.084		0.084	0.0076	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B09 (0-6)

Lab Sample ID: 500-225488-13

Date Collected: 11/15/22 12:10

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 79.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Phenol	<0.21		0.21	0.092	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Pyrene	0.0089	J	0.041	0.0083	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	11/27/22 09:04	12/02/22 22:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	65		43 - 145				11/27/22 09:04	12/02/22 22:29	1
2-Fluorophenol (Surr)	109		31 - 166				11/27/22 09:04	12/02/22 22:29	1
Nitrobenzene-d5 (Surr)	66		37 - 147				11/27/22 09:04	12/02/22 22:29	1
Phenol-d5 (Surr)	101		30 - 153				11/27/22 09:04	12/02/22 22:29	1
Terphenyl-d14 (Surr)	84		42 - 157				11/27/22 09:04	12/02/22 22:29	1
2,4,6-Tribromophenol (Surr)	48		31 - 143				11/27/22 09:04	12/02/22 22:29	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.38	J	1.2	0.24	mg/Kg	☼	12/01/22 11:03	12/05/22 14:16	1
Arsenic	7.7		0.61	0.21	mg/Kg	☼	12/01/22 11:03	12/05/22 14:16	1
Barium	120		0.61	0.069	mg/Kg	☼	12/01/22 11:03	12/05/22 14:16	1
Beryllium	0.78		0.24	0.057	mg/Kg	☼	12/01/22 11:03	12/05/22 14:16	1
Boron	3.5		3.0	0.28	mg/Kg	☼	12/01/22 11:03	12/05/22 14:16	1
Cadmium	0.11	J B	0.12	0.022	mg/Kg	☼	12/01/22 11:03	12/05/22 14:16	1
Calcium	2700	B	12	2.1	mg/Kg	☼	12/01/22 11:03	12/05/22 14:16	1
Chromium	16		0.61	0.30	mg/Kg	☼	12/01/22 11:03	12/05/22 14:16	1
Cobalt	11		0.30	0.080	mg/Kg	☼	12/01/22 11:03	12/05/22 14:16	1
Copper	12		0.61	0.17	mg/Kg	☼	12/01/22 11:03	12/05/22 14:16	1
Iron	18000		12	6.3	mg/Kg	☼	12/01/22 11:03	12/05/22 14:16	1
Lead	15		0.30	0.14	mg/Kg	☼	12/01/22 11:03	12/05/22 14:16	1
Magnesium	2400		6.1	3.0	mg/Kg	☼	12/01/22 11:03	12/05/22 14:16	1
Manganese	360		0.61	0.088	mg/Kg	☼	12/01/22 11:03	12/05/22 14:16	1
Nickel	16		0.61	0.18	mg/Kg	☼	12/01/22 11:03	12/05/22 14:16	1
Potassium	850		30	11	mg/Kg	☼	12/01/22 11:03	12/05/22 14:16	1
Selenium	0.54	J	0.61	0.36	mg/Kg	☼	12/01/22 11:03	12/05/22 14:16	1
Silver	0.46	B	0.30	0.079	mg/Kg	☼	12/01/22 11:03	12/05/22 14:16	1
Sodium	2700		61	9.0	mg/Kg	☼	12/01/22 11:03	12/05/22 14:16	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	12/01/22 11:03	12/05/22 14:16	1
Vanadium	31		0.30	0.072	mg/Kg	☼	12/01/22 11:03	12/05/22 14:16	1
Zinc	41		1.2	0.53	mg/Kg	☼	12/01/22 11:03	12/05/22 14:16	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.41	J	0.50	0.050	mg/L		11/22/22 18:39	12/01/22 16:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 18:39	12/01/22 16:32	1
Boron	0.30	J B	0.50	0.050	mg/L		11/22/22 18:39	12/01/22 16:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 18:39	12/01/22 16:32	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B09 (0-6)

Lab Sample ID: 500-225488-13

Date Collected: 11/15/22 12:10

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 79.0

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:32	1
Cobalt	0.027		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:32	1
Iron	1.3		0.40	0.20	mg/L		11/22/22 18:39	12/01/22 16:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 18:39	12/01/22 16:32	1
Manganese	6.0		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:32	1
Nickel	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:32	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 18:39	12/01/22 16:32	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:32	1
Zinc	<0.50		0.50	0.020	mg/L		11/22/22 18:39	12/01/22 16:32	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.1		0.025	0.010	mg/L		11/22/22 19:39	12/02/22 13:03	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 18:39	11/29/22 18:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 18:39	11/29/22 18:55	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 16:20	11/28/22 14:28	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.019	0.0064	mg/Kg	☆	12/02/22 15:35	12/05/22 07:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.1		0.2	0.2	SU			11/20/22 19:05	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B10 (0-6)

Lab Sample ID: 500-225488-14

Date Collected: 11/15/22 12:20

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 83.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.045		0.045	0.0082	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
Benzene	<0.0045		0.0045	0.00081	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
Bromodichloromethane	<0.0045		0.0045	0.00035	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
Bromoform	<0.0090		0.0090	0.00057	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
Bromomethane	<0.018		0.018	0.0014	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
2-Butanone (MEK)	<0.018		0.018	0.0013	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
Carbon disulfide	<0.0045		0.0045	0.0011	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
Carbon tetrachloride	<0.0045		0.0045	0.0013	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
Chlorobenzene	<0.0045		0.0045	0.00069	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
Chloroethane	<0.018		0.018	0.0032	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
Chloroform	<0.0045		0.0045	0.0015	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
Chloromethane	<0.018		0.018	0.0030	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00067	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00050	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
Dibromochloromethane	<0.0045		0.0045	0.00020	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
1,1-Dichloroethane	<0.0045		0.0045	0.00038	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
1,2-Dichloroethane	<0.0045		0.0045	0.00028	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
1,1-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
1,2-Dichloropropane	<0.0045		0.0045	0.00038	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
1,3-Dichloropropene, Total	<0.0090		0.0090	0.00098	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
Ethylbenzene	<0.0045		0.0045	0.0021	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
2-Hexanone	<0.018		0.018	0.0021	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
Methylene Chloride	<0.045		0.045	0.026	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
4-Methyl-2-pentanone (MIBK)	<0.018		0.018	0.0015	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00020	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
Styrene	<0.0045		0.0045	0.0031	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00031	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
Tetrachloroethene	<0.0045		0.0045	0.00085	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
Toluene	<0.0045		0.0045	0.0030	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00055	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00049	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00041	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00029	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
Trichloroethene	<0.0045		0.0045	0.0013	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
Vinyl acetate	<0.0090		0.0090	0.0015	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
Vinyl chloride	<0.0090		0.0090	0.0031	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1
Xylenes, Total	<0.0090		0.0090	0.0032	mg/Kg	☼	11/22/22 11:52	11/22/22 21:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		77 - 120	11/22/22 11:52	11/22/22 21:35	1
Dibromofluoromethane (Surr)	112		80 - 123	11/22/22 11:52	11/22/22 21:35	1
Toluene-d8 (Surr)	93		76 - 120	11/22/22 11:52	11/22/22 21:35	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Benzo[a]anthracene	0.021	J	0.039	0.0053	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Benzo[a]pyrene	0.024	J	0.039	0.0076	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B10 (0-6)

Lab Sample ID: 500-225488-14

Date Collected: 11/15/22 12:20

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 83.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	0.036	J	0.039	0.0085	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Benzo[k]fluoranthene	0.016	J	0.039	0.012	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Chrysene	0.029	J	0.039	0.011	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Fluoranthene	0.043		0.039	0.0073	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Naphthalene	0.029	J	0.039	0.0061	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B10 (0-6)

Lab Sample ID: 500-225488-14

Date Collected: 11/15/22 12:20

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 83.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Phenanthrene	0.022	J	0.039	0.0055	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Pyrene	0.037	J	0.039	0.0078	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	11/27/22 09:04	12/02/22 22:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	70		43 - 145				11/27/22 09:04	12/02/22 22:52	1
2-Fluorophenol (Surr)	147		31 - 166				11/27/22 09:04	12/02/22 22:52	1
Nitrobenzene-d5 (Surr)	65		37 - 147				11/27/22 09:04	12/02/22 22:52	1
Phenol-d5 (Surr)	99		30 - 153				11/27/22 09:04	12/02/22 22:52	1
Terphenyl-d14 (Surr)	104		42 - 157				11/27/22 09:04	12/02/22 22:52	1
2,4,6-Tribromophenol (Surr)	89		31 - 143				11/27/22 09:04	12/02/22 22:52	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.51	J	1.1	0.21	mg/Kg	☼	12/01/22 11:03	12/05/22 14:19	1
Arsenic	9.2		0.55	0.19	mg/Kg	☼	12/01/22 11:03	12/05/22 14:19	1
Barium	71		0.55	0.063	mg/Kg	☼	12/01/22 11:03	12/05/22 14:19	1
Beryllium	0.79		0.22	0.051	mg/Kg	☼	12/01/22 11:03	12/05/22 14:19	1
Boron	8.5		2.8	0.26	mg/Kg	☼	12/01/22 11:03	12/05/22 14:19	1
Cadmium	0.29	B	0.11	0.020	mg/Kg	☼	12/01/22 11:03	12/05/22 14:19	1
Calcium	31000	B	11	1.9	mg/Kg	☼	12/01/22 11:03	12/05/22 14:19	1
Chromium	16		0.55	0.27	mg/Kg	☼	12/01/22 11:03	12/05/22 14:19	1
Cobalt	12		0.28	0.072	mg/Kg	☼	12/01/22 11:03	12/05/22 14:19	1
Copper	2000		28	7.7	mg/Kg	☼	12/01/22 11:03	12/05/22 17:57	50
Iron	19000		11	5.7	mg/Kg	☼	12/01/22 11:03	12/05/22 14:19	1
Lead	29		0.28	0.13	mg/Kg	☼	12/01/22 11:03	12/05/22 14:19	1
Magnesium	18000		5.5	2.7	mg/Kg	☼	12/01/22 11:03	12/05/22 14:19	1
Manganese	510		0.55	0.080	mg/Kg	☼	12/01/22 11:03	12/05/22 14:19	1
Nickel	28		0.55	0.16	mg/Kg	☼	12/01/22 11:03	12/05/22 14:19	1
Potassium	2000		28	9.7	mg/Kg	☼	12/01/22 11:03	12/05/22 14:19	1
Selenium	0.53	J	0.55	0.32	mg/Kg	☼	12/01/22 11:03	12/05/22 14:19	1
Silver	0.53	B	0.28	0.071	mg/Kg	☼	12/01/22 11:03	12/05/22 14:19	1
Sodium	1400		55	8.1	mg/Kg	☼	12/01/22 11:03	12/05/22 14:19	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	12/01/22 11:03	12/05/22 14:19	1
Vanadium	23		0.28	0.065	mg/Kg	☼	12/01/22 11:03	12/05/22 14:19	1
Zinc	140		1.1	0.48	mg/Kg	☼	12/01/22 11:03	12/05/22 14:19	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.51		0.50	0.050	mg/L		11/22/22 18:39	12/01/22 16:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 18:39	12/01/22 16:35	1
Boron	0.30	J B	0.50	0.050	mg/L		11/22/22 18:39	12/01/22 16:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 18:39	12/01/22 16:35	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B10 (0-6)

Lab Sample ID: 500-225488-14

Date Collected: 11/15/22 12:20

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 83.3

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:35	1
Cobalt	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:35	1
Iron	<0.40		0.40	0.20	mg/L		11/22/22 18:39	12/01/22 16:35	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 18:39	12/01/22 16:35	1
Manganese	4.7		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:35	1
Nickel	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:35	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 18:39	12/01/22 16:35	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:35	1
Zinc	<0.50		0.50	0.020	mg/L		11/22/22 18:39	12/01/22 16:35	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.92		0.025	0.010	mg/L		11/22/22 19:39	12/02/22 13:07	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 18:39	11/29/22 18:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 18:39	11/29/22 18:57	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 16:20	11/28/22 14:30	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.050		0.019	0.0064	mg/Kg	☆	12/02/22 15:35	12/05/22 07:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.2		0.2	0.2	SU			11/20/22 19:08	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B11 (0-6)

Lab Sample ID: 500-225488-15

Date Collected: 11/15/22 12:45

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 88.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.026	J	0.048	0.0087	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
Benzene	<0.0048		0.0048	0.00086	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
Bromodichloromethane	<0.0048		0.0048	0.00037	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
Bromoform	<0.0095		0.0095	0.00061	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
Bromomethane	<0.019		0.019	0.0015	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
2-Butanone (MEK)	0.0046	J	0.019	0.0014	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
Carbon disulfide	<0.0048		0.0048	0.0011	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
Carbon tetrachloride	<0.0048		0.0048	0.0013	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
Chlorobenzene	<0.0048		0.0048	0.00073	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
Chloroethane	<0.019		0.019	0.0034	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
Chloroform	<0.0048		0.0048	0.0016	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
Chloromethane	<0.019		0.019	0.0031	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00071	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00053	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
Dibromochloromethane	<0.0048		0.0048	0.00021	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
1,1-Dichloroethane	<0.0048		0.0048	0.00041	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
1,2-Dichloroethane	<0.0048		0.0048	0.00029	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
1,1-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
1,2-Dichloropropane	<0.0048		0.0048	0.00041	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
1,3-Dichloropropane, Total	<0.0095		0.0095	0.0010	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
Ethylbenzene	<0.0048		0.0048	0.0023	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
2-Hexanone	<0.019		0.019	0.0022	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
Methylene Chloride	<0.048		0.048	0.028	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
4-Methyl-2-pentanone (MIBK)	<0.019		0.019	0.0016	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00021	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
Styrene	<0.0048		0.0048	0.0033	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00033	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
Tetrachloroethene	<0.0048		0.0048	0.00090	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
Toluene	<0.0048		0.0048	0.0031	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00058	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00052	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00044	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00030	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
Vinyl acetate	<0.0095		0.0095	0.0016	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
Vinyl chloride	<0.0095		0.0095	0.0033	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1
Xylenes, Total	<0.0095		0.0095	0.0034	mg/Kg	☼	11/22/22 11:52	11/22/22 22:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		77 - 120	11/22/22 11:52	11/22/22 22:00	1
Dibromofluoromethane (Surr)	111		80 - 123	11/22/22 11:52	11/22/22 22:00	1
Toluene-d8 (Surr)	93		76 - 120	11/22/22 11:52	11/22/22 22:00	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B11 (0-6)

Lab Sample ID: 500-225488-15

Date Collected: 11/15/22 12:45

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 88.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.036		0.036	0.0078	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
Chrysene	<0.036		0.036	0.0098	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
Fluoranthene	<0.036		0.036	0.0067	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
2-Methylnaphthalene	<0.073		0.073	0.0066	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
Naphthalene	0.011	J	0.036	0.0056	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	11/27/22 09:04	12/02/22 23:15	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B11 (0-6)

Lab Sample ID: 500-225488-15

Date Collected: 11/15/22 12:45

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 88.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☆	11/27/22 09:04	12/02/22 23:15	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☆	11/27/22 09:04	12/02/22 23:15	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☆	11/27/22 09:04	12/02/22 23:15	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☆	11/27/22 09:04	12/02/22 23:15	1
Phenanthrene	0.012	J	0.036	0.0050	mg/Kg	☆	11/27/22 09:04	12/02/22 23:15	1
Phenol	<0.18		0.18	0.080	mg/Kg	☆	11/27/22 09:04	12/02/22 23:15	1
Pyrene	0.010	J	0.036	0.0072	mg/Kg	☆	11/27/22 09:04	12/02/22 23:15	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☆	11/27/22 09:04	12/02/22 23:15	1
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	☆	11/27/22 09:04	12/02/22 23:15	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☆	11/27/22 09:04	12/02/22 23:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	77		43 - 145				11/27/22 09:04	12/02/22 23:15	1
2-Fluorophenol (Surr)	107		31 - 166				11/27/22 09:04	12/02/22 23:15	1
Nitrobenzene-d5 (Surr)	75		37 - 147				11/27/22 09:04	12/02/22 23:15	1
Phenol-d5 (Surr)	87		30 - 153				11/27/22 09:04	12/02/22 23:15	1
Terphenyl-d14 (Surr)	115		42 - 157				11/27/22 09:04	12/02/22 23:15	1
2,4,6-Tribromophenol (Surr)	87		31 - 143				11/27/22 09:04	12/02/22 23:15	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.47	J	1.1	0.21	mg/Kg	☆	12/01/22 11:03	12/05/22 14:22	1
Arsenic	8.8		0.54	0.19	mg/Kg	☆	12/01/22 11:03	12/05/22 14:22	1
Barium	40		0.54	0.062	mg/Kg	☆	12/01/22 11:03	12/05/22 14:22	1
Beryllium	0.71		0.22	0.051	mg/Kg	☆	12/01/22 11:03	12/05/22 14:22	1
Boron	12		2.7	0.25	mg/Kg	☆	12/01/22 11:03	12/05/22 14:22	1
Cadmium	0.22	B	0.11	0.020	mg/Kg	☆	12/01/22 11:03	12/05/22 14:22	1
Calcium	55000	B	22	3.7	mg/Kg	☆	12/01/22 11:03	12/05/22 18:00	2
Chromium	15		0.54	0.27	mg/Kg	☆	12/01/22 11:03	12/05/22 14:22	1
Cobalt	14		0.27	0.071	mg/Kg	☆	12/01/22 11:03	12/05/22 14:22	1
Copper	22		0.54	0.15	mg/Kg	☆	12/01/22 11:03	12/05/22 14:22	1
Iron	18000		11	5.7	mg/Kg	☆	12/01/22 11:03	12/05/22 14:22	1
Lead	13		0.27	0.13	mg/Kg	☆	12/01/22 11:03	12/05/22 14:22	1
Magnesium	27000		5.4	2.7	mg/Kg	☆	12/01/22 11:03	12/05/22 14:22	1
Manganese	340		0.54	0.079	mg/Kg	☆	12/01/22 11:03	12/05/22 14:22	1
Nickel	31		0.54	0.16	mg/Kg	☆	12/01/22 11:03	12/05/22 14:22	1
Potassium	2500		27	9.6	mg/Kg	☆	12/01/22 11:03	12/05/22 14:22	1
Selenium	<0.54		0.54	0.32	mg/Kg	☆	12/01/22 11:03	12/05/22 14:22	1
Silver	0.33	B	0.27	0.070	mg/Kg	☆	12/01/22 11:03	12/05/22 14:22	1
Sodium	910		54	8.1	mg/Kg	☆	12/01/22 11:03	12/05/22 14:22	1
Thallium	0.57		0.54	0.27	mg/Kg	☆	12/01/22 11:03	12/05/22 14:22	1
Vanadium	19		0.27	0.064	mg/Kg	☆	12/01/22 11:03	12/05/22 14:22	1
Zinc	61		1.1	0.48	mg/Kg	☆	12/01/22 11:03	12/05/22 14:22	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.56		0.50	0.050	mg/L		11/22/22 18:39	12/01/22 16:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 18:39	12/01/22 16:39	1
Boron	0.29	J B	0.50	0.050	mg/L		11/22/22 18:39	12/01/22 16:39	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		11/22/22 18:39	12/01/22 16:39	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B11 (0-6)

Lab Sample ID: 500-225488-15

Date Collected: 11/15/22 12:45

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 88.7

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:39	1
Cobalt	0.019	J	0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:39	1
Iron	<0.40		0.40	0.20	mg/L		11/22/22 18:39	12/01/22 16:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 18:39	12/01/22 16:39	1
Manganese	9.2		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:39	1
Nickel	0.012	J	0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:39	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 18:39	12/01/22 16:39	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:39	1
Zinc	0.028	J	0.50	0.020	mg/L		11/22/22 18:39	12/01/22 16:39	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.1		0.025	0.010	mg/L		11/22/22 19:39	12/02/22 13:16	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 18:39	11/29/22 18:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 18:39	11/29/22 18:59	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 16:20	11/28/22 14:32	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.017	0.0057	mg/Kg	☆	12/02/22 15:35	12/05/22 07:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.1		0.2	0.2	SU			11/20/22 19:10	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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QC Association Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

GC/MS VOA

Prep Batch: 372637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225488-1	1401V3-19-B02 (0-5)	Total/NA	Solid	5035	372778
500-225488-2	1401V3-19-B02 (5-9)	Total/NA	Solid	5035	372778
500-225488-3	1401V3-19-B04 (0-5)	Total/NA	Solid	5035	372778
500-225488-4	1401V3-19-B04 (5-9)	Total/NA	Solid	5035	372778
500-225488-5	1401V3-19-B05 (0-5)	Total/NA	Solid	5035	372778
500-225488-6	1401V3-19-B05 (5-9)	Total/NA	Solid	5035	372778
500-225488-7	1401V3-19-B06 (0-5)	Total/NA	Solid	5035	372778
500-225488-8	1401V3-19-B06 (5-9)	Total/NA	Solid	5035	372778
500-225488-9	1401V3-19-B07 (0-5)	Total/NA	Solid	5035	372778
500-225488-10	1401V3-19-B07 (5-9)	Total/NA	Solid	5035	372778
MB 310-372637/1-A	Method Blank	Total/NA	Solid	5035	
LCS 310-372637/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 310-372637/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 372638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225488-1	1401V3-19-B02 (0-5)	Total/NA	Solid	8260D	372637
500-225488-2	1401V3-19-B02 (5-9)	Total/NA	Solid	8260D	372637
500-225488-3	1401V3-19-B04 (0-5)	Total/NA	Solid	8260D	372637
500-225488-4	1401V3-19-B04 (5-9)	Total/NA	Solid	8260D	372637
500-225488-5	1401V3-19-B05 (0-5)	Total/NA	Solid	8260D	372637
500-225488-6	1401V3-19-B05 (5-9)	Total/NA	Solid	8260D	372637
500-225488-7	1401V3-19-B06 (0-5)	Total/NA	Solid	8260D	372637
500-225488-8	1401V3-19-B06 (5-9)	Total/NA	Solid	8260D	372637
500-225488-9	1401V3-19-B07 (0-5)	Total/NA	Solid	8260D	372637
500-225488-10	1401V3-19-B07 (5-9)	Total/NA	Solid	8260D	372637
MB 310-372637/1-A	Method Blank	Total/NA	Solid	8260D	372637
LCS 310-372637/2-A	Lab Control Sample	Total/NA	Solid	8260D	372637
LCSD 310-372637/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	372637

Pre Prep Batch: 372778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225488-1	1401V3-19-B02 (0-5)	Total/NA	Solid	Frozen Preserve	
500-225488-2	1401V3-19-B02 (5-9)	Total/NA	Solid	Frozen Preserve	
500-225488-3	1401V3-19-B04 (0-5)	Total/NA	Solid	Frozen Preserve	
500-225488-4	1401V3-19-B04 (5-9)	Total/NA	Solid	Frozen Preserve	
500-225488-5	1401V3-19-B05 (0-5)	Total/NA	Solid	Frozen Preserve	
500-225488-6	1401V3-19-B05 (5-9)	Total/NA	Solid	Frozen Preserve	
500-225488-7	1401V3-19-B06 (0-5)	Total/NA	Solid	Frozen Preserve	
500-225488-8	1401V3-19-B06 (5-9)	Total/NA	Solid	Frozen Preserve	
500-225488-9	1401V3-19-B07 (0-5)	Total/NA	Solid	Frozen Preserve	
500-225488-10	1401V3-19-B07 (5-9)	Total/NA	Solid	Frozen Preserve	
500-225488-11	1401V3-19-B08 (0-6)	Total/NA	Solid	Frozen Preserve	

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

GC/MS VOA (Continued)

Pre Prep Batch: 372778 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225488-12	1401V3-19-B08 (0-6)D	Total/NA	Solid	Frozen Preserve	
500-225488-13	1401V3-19-B09 (0-6)	Total/NA	Solid	Frozen Preserve	
500-225488-14	1401V3-19-B10 (0-6)	Total/NA	Solid	Frozen Preserve	
500-225488-15	1401V3-19-B11 (0-6)	Total/NA	Solid	Frozen Preserve	

Prep Batch: 372826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225488-11	1401V3-19-B08 (0-6)	Total/NA	Solid	5035	372778
500-225488-12	1401V3-19-B08 (0-6)D	Total/NA	Solid	5035	372778
500-225488-13	1401V3-19-B09 (0-6)	Total/NA	Solid	5035	372778
500-225488-14	1401V3-19-B10 (0-6)	Total/NA	Solid	5035	372778
500-225488-15	1401V3-19-B11 (0-6)	Total/NA	Solid	5035	372778
MB 310-372826/1-A	Method Blank	Total/NA	Solid	5035	
LCS 310-372826/2-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 372827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225488-11	1401V3-19-B08 (0-6)	Total/NA	Solid	8260D	372826
500-225488-12	1401V3-19-B08 (0-6)D	Total/NA	Solid	8260D	372826
500-225488-13	1401V3-19-B09 (0-6)	Total/NA	Solid	8260D	372826
500-225488-14	1401V3-19-B10 (0-6)	Total/NA	Solid	8260D	372826
500-225488-15	1401V3-19-B11 (0-6)	Total/NA	Solid	8260D	372826
MB 310-372826/1-A	Method Blank	Total/NA	Solid	8260D	372826
LCS 310-372826/2-A	Lab Control Sample	Total/NA	Solid	8260D	372826

GC/MS Semi VOA

Prep Batch: 686915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225488-1	1401V3-19-B02 (0-5)	Total/NA	Solid	3541	
500-225488-2	1401V3-19-B02 (5-9)	Total/NA	Solid	3541	
500-225488-3	1401V3-19-B04 (0-5)	Total/NA	Solid	3541	
500-225488-4	1401V3-19-B04 (5-9)	Total/NA	Solid	3541	
500-225488-5	1401V3-19-B05 (0-5)	Total/NA	Solid	3541	
500-225488-6	1401V3-19-B05 (5-9)	Total/NA	Solid	3541	
500-225488-7	1401V3-19-B06 (0-5)	Total/NA	Solid	3541	
500-225488-8	1401V3-19-B06 (5-9)	Total/NA	Solid	3541	
500-225488-9	1401V3-19-B07 (0-5)	Total/NA	Solid	3541	
500-225488-10	1401V3-19-B07 (5-9)	Total/NA	Solid	3541	
500-225488-11	1401V3-19-B08 (0-6)	Total/NA	Solid	3541	
500-225488-12	1401V3-19-B08 (0-6)D	Total/NA	Solid	3541	
500-225488-13	1401V3-19-B09 (0-6)	Total/NA	Solid	3541	
500-225488-14	1401V3-19-B10 (0-6)	Total/NA	Solid	3541	
500-225488-15	1401V3-19-B11 (0-6)	Total/NA	Solid	3541	
MB 500-686915/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-686915/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-225488-4 MS	1401V3-19-B04 (5-9)	Total/NA	Solid	3541	
500-225488-4 MSD	1401V3-19-B04 (5-9)	Total/NA	Solid	3541	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

GC/MS Semi VOA

Analysis Batch: 687960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225488-1	1401V3-19-B02 (0-5)	Total/NA	Solid	8270D	686915
500-225488-2	1401V3-19-B02 (5-9)	Total/NA	Solid	8270D	686915
500-225488-3	1401V3-19-B04 (0-5)	Total/NA	Solid	8270D	686915
500-225488-4	1401V3-19-B04 (5-9)	Total/NA	Solid	8270D	686915
500-225488-5	1401V3-19-B05 (0-5)	Total/NA	Solid	8270D	686915
500-225488-6	1401V3-19-B05 (5-9)	Total/NA	Solid	8270D	686915
500-225488-7	1401V3-19-B06 (0-5)	Total/NA	Solid	8270D	686915
500-225488-8	1401V3-19-B06 (5-9)	Total/NA	Solid	8270D	686915
500-225488-9	1401V3-19-B07 (0-5)	Total/NA	Solid	8270D	686915
500-225488-10	1401V3-19-B07 (5-9)	Total/NA	Solid	8270D	686915
500-225488-11	1401V3-19-B08 (0-6)	Total/NA	Solid	8270D	686915
500-225488-12	1401V3-19-B08 (0-6)D	Total/NA	Solid	8270D	686915
500-225488-13	1401V3-19-B09 (0-6)	Total/NA	Solid	8270D	686915
500-225488-14	1401V3-19-B10 (0-6)	Total/NA	Solid	8270D	686915
500-225488-15	1401V3-19-B11 (0-6)	Total/NA	Solid	8270D	686915
MB 500-686915/1-A	Method Blank	Total/NA	Solid	8270D	686915
LCS 500-686915/2-A	Lab Control Sample	Total/NA	Solid	8270D	686915
500-225488-4 MS	1401V3-19-B04 (5-9)	Total/NA	Solid	8270D	686915
500-225488-4 MSD	1401V3-19-B04 (5-9)	Total/NA	Solid	8270D	686915

Metals

Leach Batch: 686386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225488-1	1401V3-19-B02 (0-5)	TCLP	Solid	1311	
500-225488-2	1401V3-19-B02 (5-9)	TCLP	Solid	1311	
500-225488-3	1401V3-19-B04 (0-5)	TCLP	Solid	1311	
500-225488-4	1401V3-19-B04 (5-9)	TCLP	Solid	1311	
500-225488-5	1401V3-19-B05 (0-5)	TCLP	Solid	1311	
500-225488-6	1401V3-19-B05 (5-9)	TCLP	Solid	1311	
500-225488-7	1401V3-19-B06 (0-5)	TCLP	Solid	1311	
500-225488-8	1401V3-19-B06 (5-9)	TCLP	Solid	1311	
500-225488-9	1401V3-19-B07 (0-5)	TCLP	Solid	1311	
500-225488-10	1401V3-19-B07 (5-9)	TCLP	Solid	1311	
500-225488-11	1401V3-19-B08 (0-6)	TCLP	Solid	1311	
500-225488-12	1401V3-19-B08 (0-6)D	TCLP	Solid	1311	
500-225488-13	1401V3-19-B09 (0-6)	TCLP	Solid	1311	
500-225488-14	1401V3-19-B10 (0-6)	TCLP	Solid	1311	
500-225488-15	1401V3-19-B11 (0-6)	TCLP	Solid	1311	
LB 500-686386/1-B	Method Blank	TCLP	Solid	1311	
LB 500-686386/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 686389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225488-1	1401V3-19-B02 (0-5)	SPLP East	Solid	1312	
500-225488-2	1401V3-19-B02 (5-9)	SPLP East	Solid	1312	
500-225488-3	1401V3-19-B04 (0-5)	SPLP East	Solid	1312	
500-225488-4	1401V3-19-B04 (5-9)	SPLP East	Solid	1312	
500-225488-5	1401V3-19-B05 (0-5)	SPLP East	Solid	1312	
500-225488-6	1401V3-19-B05 (5-9)	SPLP East	Solid	1312	
500-225488-7	1401V3-19-B06 (0-5)	SPLP East	Solid	1312	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Metals (Continued)

Leach Batch: 686389 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225488-8	1401V3-19-B06 (5-9)	SPLP East	Solid	1312	
500-225488-9	1401V3-19-B07 (0-5)	SPLP East	Solid	1312	
500-225488-10	1401V3-19-B07 (5-9)	SPLP East	Solid	1312	
500-225488-11	1401V3-19-B08 (0-6)	SPLP East	Solid	1312	
500-225488-13	1401V3-19-B09 (0-6)	SPLP East	Solid	1312	
500-225488-14	1401V3-19-B10 (0-6)	SPLP East	Solid	1312	
500-225488-15	1401V3-19-B11 (0-6)	SPLP East	Solid	1312	
LB 500-686389/1-B	Method Blank	SPLP East	Solid	1312	
500-225488-8 MS	1401V3-19-B06 (5-9)	SPLP East	Solid	1312	
500-225488-8 DU	1401V3-19-B06 (5-9)	SPLP East	Solid	1312	

Prep Batch: 686618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225488-1	1401V3-19-B02 (0-5)	TCLP	Solid	3010A	686386
500-225488-2	1401V3-19-B02 (5-9)	TCLP	Solid	3010A	686386
500-225488-3	1401V3-19-B04 (0-5)	TCLP	Solid	3010A	686386
500-225488-4	1401V3-19-B04 (5-9)	TCLP	Solid	3010A	686386
500-225488-5	1401V3-19-B05 (0-5)	TCLP	Solid	3010A	686386
500-225488-6	1401V3-19-B05 (5-9)	TCLP	Solid	3010A	686386
500-225488-7	1401V3-19-B06 (0-5)	TCLP	Solid	3010A	686386
500-225488-8	1401V3-19-B06 (5-9)	TCLP	Solid	3010A	686386
500-225488-9	1401V3-19-B07 (0-5)	TCLP	Solid	3010A	686386
500-225488-10	1401V3-19-B07 (5-9)	TCLP	Solid	3010A	686386
500-225488-11	1401V3-19-B08 (0-6)	TCLP	Solid	3010A	686386
500-225488-12	1401V3-19-B08 (0-6)D	TCLP	Solid	3010A	686386
500-225488-13	1401V3-19-B09 (0-6)	TCLP	Solid	3010A	686386
500-225488-14	1401V3-19-B10 (0-6)	TCLP	Solid	3010A	686386
500-225488-15	1401V3-19-B11 (0-6)	TCLP	Solid	3010A	686386
LB 500-686386/1-B	Method Blank	TCLP	Solid	3010A	686386
LCS 500-686618/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 686621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225488-1	1401V3-19-B02 (0-5)	SPLP East	Solid	3010A	686389
500-225488-2	1401V3-19-B02 (5-9)	SPLP East	Solid	3010A	686389
500-225488-3	1401V3-19-B04 (0-5)	SPLP East	Solid	3010A	686389
500-225488-4	1401V3-19-B04 (5-9)	SPLP East	Solid	3010A	686389
500-225488-5	1401V3-19-B05 (0-5)	SPLP East	Solid	3010A	686389
500-225488-6	1401V3-19-B05 (5-9)	SPLP East	Solid	3010A	686389
500-225488-7	1401V3-19-B06 (0-5)	SPLP East	Solid	3010A	686389
500-225488-8	1401V3-19-B06 (5-9)	SPLP East	Solid	3010A	686389
500-225488-9	1401V3-19-B07 (0-5)	SPLP East	Solid	3010A	686389
500-225488-10	1401V3-19-B07 (5-9)	SPLP East	Solid	3010A	686389
500-225488-11	1401V3-19-B08 (0-6)	SPLP East	Solid	3010A	686389
500-225488-13	1401V3-19-B09 (0-6)	SPLP East	Solid	3010A	686389
500-225488-14	1401V3-19-B10 (0-6)	SPLP East	Solid	3010A	686389
500-225488-15	1401V3-19-B11 (0-6)	SPLP East	Solid	3010A	686389
LB 500-686389/1-B	Method Blank	SPLP East	Solid	3010A	686389
LCS 500-686621/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-225488-8 MS	1401V3-19-B06 (5-9)	SPLP East	Solid	3010A	686389
500-225488-8 DU	1401V3-19-B06 (5-9)	SPLP East	Solid	3010A	686389

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Metals

Prep Batch: 686822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225488-1	1401V3-19-B02 (0-5)	TCLP	Solid	7470A	686386
500-225488-2	1401V3-19-B02 (5-9)	TCLP	Solid	7470A	686386
500-225488-3	1401V3-19-B04 (0-5)	TCLP	Solid	7470A	686386
500-225488-4	1401V3-19-B04 (5-9)	TCLP	Solid	7470A	686386
500-225488-5	1401V3-19-B05 (0-5)	TCLP	Solid	7470A	686386
500-225488-6	1401V3-19-B05 (5-9)	TCLP	Solid	7470A	686386
500-225488-7	1401V3-19-B06 (0-5)	TCLP	Solid	7470A	686386
500-225488-8	1401V3-19-B06 (5-9)	TCLP	Solid	7470A	686386
500-225488-9	1401V3-19-B07 (0-5)	TCLP	Solid	7470A	686386
500-225488-10	1401V3-19-B07 (5-9)	TCLP	Solid	7470A	686386
500-225488-11	1401V3-19-B08 (0-6)	TCLP	Solid	7470A	686386
500-225488-12	1401V3-19-B08 (0-6)D	TCLP	Solid	7470A	686386
500-225488-13	1401V3-19-B09 (0-6)	TCLP	Solid	7470A	686386
500-225488-14	1401V3-19-B10 (0-6)	TCLP	Solid	7470A	686386
500-225488-15	1401V3-19-B11 (0-6)	TCLP	Solid	7470A	686386
LB 500-686386/1-C	Method Blank	TCLP	Solid	7470A	686386
MB 500-686822/11-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-686822/13-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 687111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225488-1	1401V3-19-B02 (0-5)	TCLP	Solid	7470A	686822
500-225488-2	1401V3-19-B02 (5-9)	TCLP	Solid	7470A	686822
500-225488-3	1401V3-19-B04 (0-5)	TCLP	Solid	7470A	686822
500-225488-4	1401V3-19-B04 (5-9)	TCLP	Solid	7470A	686822
500-225488-5	1401V3-19-B05 (0-5)	TCLP	Solid	7470A	686822
500-225488-6	1401V3-19-B05 (5-9)	TCLP	Solid	7470A	686822
500-225488-7	1401V3-19-B06 (0-5)	TCLP	Solid	7470A	686822
500-225488-8	1401V3-19-B06 (5-9)	TCLP	Solid	7470A	686822
500-225488-9	1401V3-19-B07 (0-5)	TCLP	Solid	7470A	686822
500-225488-10	1401V3-19-B07 (5-9)	TCLP	Solid	7470A	686822
500-225488-11	1401V3-19-B08 (0-6)	TCLP	Solid	7470A	686822
500-225488-12	1401V3-19-B08 (0-6)D	TCLP	Solid	7470A	686822
500-225488-13	1401V3-19-B09 (0-6)	TCLP	Solid	7470A	686822
500-225488-14	1401V3-19-B10 (0-6)	TCLP	Solid	7470A	686822
500-225488-15	1401V3-19-B11 (0-6)	TCLP	Solid	7470A	686822
LB 500-686386/1-C	Method Blank	TCLP	Solid	7470A	686822
MB 500-686822/11-A	Method Blank	Total/NA	Solid	7470A	686822
LCS 500-686822/13-A	Lab Control Sample	Total/NA	Solid	7470A	686822

Analysis Batch: 687529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225488-1	1401V3-19-B02 (0-5)	TCLP	Solid	6020A	686618
500-225488-2	1401V3-19-B02 (5-9)	TCLP	Solid	6020A	686618
500-225488-3	1401V3-19-B04 (0-5)	TCLP	Solid	6020A	686618
500-225488-4	1401V3-19-B04 (5-9)	TCLP	Solid	6020A	686618
500-225488-5	1401V3-19-B05 (0-5)	TCLP	Solid	6020A	686618
500-225488-6	1401V3-19-B05 (5-9)	TCLP	Solid	6020A	686618
500-225488-7	1401V3-19-B06 (0-5)	TCLP	Solid	6020A	686618
500-225488-8	1401V3-19-B06 (5-9)	TCLP	Solid	6020A	686618
500-225488-9	1401V3-19-B07 (0-5)	TCLP	Solid	6020A	686618

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Metals (Continued)

Analysis Batch: 687529 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225488-10	1401V3-19-B07 (5-9)	TCLP	Solid	6020A	686618
500-225488-11	1401V3-19-B08 (0-6)	TCLP	Solid	6020A	686618
500-225488-12	1401V3-19-B08 (0-6)D	TCLP	Solid	6020A	686618
500-225488-13	1401V3-19-B09 (0-6)	TCLP	Solid	6020A	686618
500-225488-14	1401V3-19-B10 (0-6)	TCLP	Solid	6020A	686618
500-225488-15	1401V3-19-B11 (0-6)	TCLP	Solid	6020A	686618
LB 500-686386/1-B	Method Blank	TCLP	Solid	6020A	686618
LCS 500-686618/2-A	Lab Control Sample	Total/NA	Solid	6020A	686618

Prep Batch: 687739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225488-1	1401V3-19-B02 (0-5)	Total/NA	Solid	3050B	
500-225488-2	1401V3-19-B02 (5-9)	Total/NA	Solid	3050B	
500-225488-3	1401V3-19-B04 (0-5)	Total/NA	Solid	3050B	
500-225488-4	1401V3-19-B04 (5-9)	Total/NA	Solid	3050B	
500-225488-5	1401V3-19-B05 (0-5)	Total/NA	Solid	3050B	
500-225488-6	1401V3-19-B05 (5-9)	Total/NA	Solid	3050B	
500-225488-7	1401V3-19-B06 (0-5)	Total/NA	Solid	3050B	
500-225488-8	1401V3-19-B06 (5-9)	Total/NA	Solid	3050B	
500-225488-9	1401V3-19-B07 (0-5)	Total/NA	Solid	3050B	
500-225488-10	1401V3-19-B07 (5-9)	Total/NA	Solid	3050B	
500-225488-11	1401V3-19-B08 (0-6)	Total/NA	Solid	3050B	
500-225488-12	1401V3-19-B08 (0-6)D	Total/NA	Solid	3050B	
500-225488-13	1401V3-19-B09 (0-6)	Total/NA	Solid	3050B	
500-225488-14	1401V3-19-B10 (0-6)	Total/NA	Solid	3050B	
500-225488-15	1401V3-19-B11 (0-6)	Total/NA	Solid	3050B	
MB 500-687739/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-687739/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-225488-1 MS	1401V3-19-B02 (0-5)	Total/NA	Solid	3050B	
500-225488-1 MSD	1401V3-19-B02 (0-5)	Total/NA	Solid	3050B	
500-225488-1 DU	1401V3-19-B02 (0-5)	Total/NA	Solid	3050B	

Analysis Batch: 687914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225488-1	1401V3-19-B02 (0-5)	TCLP	Solid	6010B	686618
500-225488-2	1401V3-19-B02 (5-9)	TCLP	Solid	6010B	686618
500-225488-3	1401V3-19-B04 (0-5)	TCLP	Solid	6010B	686618
500-225488-4	1401V3-19-B04 (5-9)	TCLP	Solid	6010B	686618
500-225488-5	1401V3-19-B05 (0-5)	TCLP	Solid	6010B	686618
500-225488-6	1401V3-19-B05 (5-9)	TCLP	Solid	6010B	686618
500-225488-7	1401V3-19-B06 (0-5)	TCLP	Solid	6010B	686618
500-225488-8	1401V3-19-B06 (5-9)	TCLP	Solid	6010B	686618
500-225488-9	1401V3-19-B07 (0-5)	TCLP	Solid	6010B	686618
500-225488-10	1401V3-19-B07 (5-9)	TCLP	Solid	6010B	686618
500-225488-11	1401V3-19-B08 (0-6)	TCLP	Solid	6010B	686618
500-225488-12	1401V3-19-B08 (0-6)D	TCLP	Solid	6010B	686618
500-225488-13	1401V3-19-B09 (0-6)	TCLP	Solid	6010B	686618
500-225488-14	1401V3-19-B10 (0-6)	TCLP	Solid	6010B	686618
500-225488-15	1401V3-19-B11 (0-6)	TCLP	Solid	6010B	686618
LB 500-686386/1-B	Method Blank	TCLP	Solid	6010B	686618
LCS 500-686618/2-A	Lab Control Sample	Total/NA	Solid	6010B	686618

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Metals

Prep Batch: 687933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225488-1	1401V3-19-B02 (0-5)	Total/NA	Solid	7471B	
500-225488-2	1401V3-19-B02 (5-9)	Total/NA	Solid	7471B	
500-225488-3	1401V3-19-B04 (0-5)	Total/NA	Solid	7471B	
500-225488-4	1401V3-19-B04 (5-9)	Total/NA	Solid	7471B	
500-225488-5	1401V3-19-B05 (0-5)	Total/NA	Solid	7471B	
500-225488-6	1401V3-19-B05 (5-9)	Total/NA	Solid	7471B	
500-225488-7	1401V3-19-B06 (0-5)	Total/NA	Solid	7471B	
500-225488-8	1401V3-19-B06 (5-9)	Total/NA	Solid	7471B	
500-225488-9	1401V3-19-B07 (0-5)	Total/NA	Solid	7471B	
500-225488-10	1401V3-19-B07 (5-9)	Total/NA	Solid	7471B	
500-225488-11	1401V3-19-B08 (0-6)	Total/NA	Solid	7471B	
500-225488-12	1401V3-19-B08 (0-6)D	Total/NA	Solid	7471B	
500-225488-13	1401V3-19-B09 (0-6)	Total/NA	Solid	7471B	
500-225488-14	1401V3-19-B10 (0-6)	Total/NA	Solid	7471B	
500-225488-15	1401V3-19-B11 (0-6)	Total/NA	Solid	7471B	
MB 500-687933/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-687933/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-225488-11 MS	1401V3-19-B08 (0-6)	Total/NA	Solid	7471B	
500-225488-11 MSD	1401V3-19-B08 (0-6)	Total/NA	Solid	7471B	
500-225488-11 DU	1401V3-19-B08 (0-6)	Total/NA	Solid	7471B	

Analysis Batch: 687979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225488-1	1401V3-19-B02 (0-5)	SPLP East	Solid	6010B	686621
500-225488-2	1401V3-19-B02 (5-9)	SPLP East	Solid	6010B	686621
500-225488-3	1401V3-19-B04 (0-5)	SPLP East	Solid	6010B	686621
500-225488-4	1401V3-19-B04 (5-9)	SPLP East	Solid	6010B	686621
500-225488-5	1401V3-19-B05 (0-5)	SPLP East	Solid	6010B	686621
500-225488-6	1401V3-19-B05 (5-9)	SPLP East	Solid	6010B	686621
500-225488-7	1401V3-19-B06 (0-5)	SPLP East	Solid	6010B	686621
500-225488-8	1401V3-19-B06 (5-9)	SPLP East	Solid	6010B	686621
500-225488-9	1401V3-19-B07 (0-5)	SPLP East	Solid	6010B	686621
500-225488-10	1401V3-19-B07 (5-9)	SPLP East	Solid	6010B	686621
500-225488-11	1401V3-19-B08 (0-6)	SPLP East	Solid	6010B	686621
500-225488-13	1401V3-19-B09 (0-6)	SPLP East	Solid	6010B	686621
500-225488-14	1401V3-19-B10 (0-6)	SPLP East	Solid	6010B	686621
500-225488-15	1401V3-19-B11 (0-6)	SPLP East	Solid	6010B	686621
LB 500-686389/1-B	Method Blank	SPLP East	Solid	6010B	686621
LCS 500-686621/2-A	Lab Control Sample	Total/NA	Solid	6010B	686621
500-225488-8 MS	1401V3-19-B06 (5-9)	SPLP East	Solid	6010B	686621
500-225488-8 DU	1401V3-19-B06 (5-9)	SPLP East	Solid	6010B	686621

Analysis Batch: 688226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225488-1	1401V3-19-B02 (0-5)	Total/NA	Solid	7471B	687933
500-225488-2	1401V3-19-B02 (5-9)	Total/NA	Solid	7471B	687933
500-225488-3	1401V3-19-B04 (0-5)	Total/NA	Solid	7471B	687933
500-225488-4	1401V3-19-B04 (5-9)	Total/NA	Solid	7471B	687933
500-225488-5	1401V3-19-B05 (0-5)	Total/NA	Solid	7471B	687933
500-225488-6	1401V3-19-B05 (5-9)	Total/NA	Solid	7471B	687933
500-225488-7	1401V3-19-B06 (0-5)	Total/NA	Solid	7471B	687933

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Metals (Continued)

Analysis Batch: 688226 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225488-8	1401V3-19-B06 (5-9)	Total/NA	Solid	7471B	687933
500-225488-9	1401V3-19-B07 (0-5)	Total/NA	Solid	7471B	687933
500-225488-10	1401V3-19-B07 (5-9)	Total/NA	Solid	7471B	687933
500-225488-11	1401V3-19-B08 (0-6)	Total/NA	Solid	7471B	687933
500-225488-12	1401V3-19-B08 (0-6)D	Total/NA	Solid	7471B	687933
500-225488-13	1401V3-19-B09 (0-6)	Total/NA	Solid	7471B	687933
500-225488-14	1401V3-19-B10 (0-6)	Total/NA	Solid	7471B	687933
500-225488-15	1401V3-19-B11 (0-6)	Total/NA	Solid	7471B	687933
MB 500-687933/12-A	Method Blank	Total/NA	Solid	7471B	687933
LCS 500-687933/13-A	Lab Control Sample	Total/NA	Solid	7471B	687933
500-225488-11 MS	1401V3-19-B08 (0-6)	Total/NA	Solid	7471B	687933
500-225488-11 MSD	1401V3-19-B08 (0-6)	Total/NA	Solid	7471B	687933
500-225488-11 DU	1401V3-19-B08 (0-6)	Total/NA	Solid	7471B	687933

Analysis Batch: 688271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225488-1	1401V3-19-B02 (0-5)	Total/NA	Solid	6010B	687739
500-225488-2	1401V3-19-B02 (5-9)	Total/NA	Solid	6010B	687739
500-225488-3	1401V3-19-B04 (0-5)	Total/NA	Solid	6010B	687739
500-225488-4	1401V3-19-B04 (5-9)	Total/NA	Solid	6010B	687739
500-225488-5	1401V3-19-B05 (0-5)	Total/NA	Solid	6010B	687739
500-225488-6	1401V3-19-B05 (5-9)	Total/NA	Solid	6010B	687739
500-225488-7	1401V3-19-B06 (0-5)	Total/NA	Solid	6010B	687739
500-225488-8	1401V3-19-B06 (5-9)	Total/NA	Solid	6010B	687739
500-225488-9	1401V3-19-B07 (0-5)	Total/NA	Solid	6010B	687739
500-225488-10	1401V3-19-B07 (5-9)	Total/NA	Solid	6010B	687739
500-225488-11	1401V3-19-B08 (0-6)	Total/NA	Solid	6010B	687739
500-225488-12	1401V3-19-B08 (0-6)D	Total/NA	Solid	6010B	687739
500-225488-13	1401V3-19-B09 (0-6)	Total/NA	Solid	6010B	687739
500-225488-14	1401V3-19-B10 (0-6)	Total/NA	Solid	6010B	687739
500-225488-15	1401V3-19-B11 (0-6)	Total/NA	Solid	6010B	687739
MB 500-687739/1-A	Method Blank	Total/NA	Solid	6010B	687739
LCS 500-687739/2-A	Lab Control Sample	Total/NA	Solid	6010B	687739
500-225488-1 MS	1401V3-19-B02 (0-5)	Total/NA	Solid	6010B	687739
500-225488-1 MSD	1401V3-19-B02 (0-5)	Total/NA	Solid	6010B	687739
500-225488-1 DU	1401V3-19-B02 (0-5)	Total/NA	Solid	6010B	687739

Analysis Batch: 688392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225488-8	1401V3-19-B06 (5-9)	Total/NA	Solid	6010B	687739
500-225488-9	1401V3-19-B07 (0-5)	Total/NA	Solid	6010B	687739
500-225488-14	1401V3-19-B10 (0-6)	Total/NA	Solid	6010B	687739
500-225488-15	1401V3-19-B11 (0-6)	Total/NA	Solid	6010B	687739

General Chemistry

Analysis Batch: 686168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225488-1	1401V3-19-B02 (0-5)	Total/NA	Solid	9045D	
500-225488-2	1401V3-19-B02 (5-9)	Total/NA	Solid	9045D	
500-225488-3	1401V3-19-B04 (0-5)	Total/NA	Solid	9045D	

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

General Chemistry (Continued)

Analysis Batch: 686168 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225488-5	1401V3-19-B05 (0-5)	Total/NA	Solid	9045D	
500-225488-6	1401V3-19-B05 (5-9)	Total/NA	Solid	9045D	
500-225488-7	1401V3-19-B06 (0-5)	Total/NA	Solid	9045D	
500-225488-8	1401V3-19-B06 (5-9)	Total/NA	Solid	9045D	
500-225488-9	1401V3-19-B07 (0-5)	Total/NA	Solid	9045D	
500-225488-10	1401V3-19-B07 (5-9)	Total/NA	Solid	9045D	
500-225488-13	1401V3-19-B09 (0-6)	Total/NA	Solid	9045D	
500-225488-14	1401V3-19-B10 (0-6)	Total/NA	Solid	9045D	
500-225488-15	1401V3-19-B11 (0-6)	Total/NA	Solid	9045D	
LCS 500-686168/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-686168/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 686411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225488-4	1401V3-19-B04 (5-9)	Total/NA	Solid	9045D	
500-225488-11	1401V3-19-B08 (0-6)	Total/NA	Solid	9045D	
500-225488-12	1401V3-19-B08 (0-6)D	Total/NA	Solid	9045D	
LCS 500-686411/5	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-686411/6	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 687265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225488-1	1401V3-19-B02 (0-5)	Total/NA	Solid	Moisture	
500-225488-2	1401V3-19-B02 (5-9)	Total/NA	Solid	Moisture	
500-225488-3	1401V3-19-B04 (0-5)	Total/NA	Solid	Moisture	
500-225488-4	1401V3-19-B04 (5-9)	Total/NA	Solid	Moisture	
500-225488-5	1401V3-19-B05 (0-5)	Total/NA	Solid	Moisture	
500-225488-6	1401V3-19-B05 (5-9)	Total/NA	Solid	Moisture	
500-225488-7	1401V3-19-B06 (0-5)	Total/NA	Solid	Moisture	
500-225488-8	1401V3-19-B06 (5-9)	Total/NA	Solid	Moisture	
500-225488-9	1401V3-19-B07 (0-5)	Total/NA	Solid	Moisture	
500-225488-10	1401V3-19-B07 (5-9)	Total/NA	Solid	Moisture	
500-225488-11	1401V3-19-B08 (0-6)	Total/NA	Solid	Moisture	
500-225488-12	1401V3-19-B08 (0-6)D	Total/NA	Solid	Moisture	

Analysis Batch: 687268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225488-13	1401V3-19-B09 (0-6)	Total/NA	Solid	Moisture	
500-225488-14	1401V3-19-B10 (0-6)	Total/NA	Solid	Moisture	
500-225488-15	1401V3-19-B11 (0-6)	Total/NA	Solid	Moisture	
500-225488-13 DU	1401V3-19-B09 (0-6)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (77-120)	DBFM (80-123)	TOL (76-120)
500-225488-1	1401V3-19-B02 (0-5)	93	113	93
500-225488-2	1401V3-19-B02 (5-9)	91	111	92
500-225488-3	1401V3-19-B04 (0-5)	94	114	93
500-225488-4	1401V3-19-B04 (5-9)	92	111	93
500-225488-5	1401V3-19-B05 (0-5)	89	110	93
500-225488-6	1401V3-19-B05 (5-9)	94	114	93
500-225488-7	1401V3-19-B06 (0-5)	93	110	94
500-225488-8	1401V3-19-B06 (5-9)	92	108	93
500-225488-9	1401V3-19-B07 (0-5)	94	110	93
500-225488-10	1401V3-19-B07 (5-9)	90	112	93
500-225488-11	1401V3-19-B08 (0-6)	97	105	94
500-225488-12	1401V3-19-B08 (0-6)D	94	107	93
500-225488-13	1401V3-19-B09 (0-6)	93	112	93
500-225488-14	1401V3-19-B10 (0-6)	92	112	93
500-225488-15	1401V3-19-B11 (0-6)	93	111	93
LCS 310-372637/2-A	Lab Control Sample	103	99	101
LCS 310-372826/2-A	Lab Control Sample	102	99	100
LCSD 310-372637/3-A	Lab Control Sample Dup	102	100	100
MB 310-372637/1-A	Method Blank	94	108	93
MB 310-372826/1-A	Method Blank	92	107	94

Surrogate Legend

- BFB = 4-Bromofluorobenzene (Surr)
- DBFM = Dibromofluoromethane (Surr)
- TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-225488-1	1401V3-19-B02 (0-5)	93	125	86	105	105	83
500-225488-2	1401V3-19-B02 (5-9)	68	98	64	86	95	76
500-225488-3	1401V3-19-B04 (0-5)	95	131	89	110	125	98
500-225488-4	1401V3-19-B04 (5-9)	88	163	78	113	105	79
500-225488-4 MS	1401V3-19-B04 (5-9)	91	141	96	116	114	101
500-225488-4 MSD	1401V3-19-B04 (5-9)	78	148	76	108	96	75
500-225488-5	1401V3-19-B05 (0-5)	94	130	84	106	107	91
500-225488-6	1401V3-19-B05 (5-9)	83	106	78	107	103	83
500-225488-7	1401V3-19-B06 (0-5)	98	103	61	92	84	68
500-225488-8	1401V3-19-B06 (5-9)	75	119	72	107	95	73
500-225488-9	1401V3-19-B07 (0-5)	72	116	64	108	112	73
500-225488-10	1401V3-19-B07 (5-9)	77	111	69	97	87	59
500-225488-11	1401V3-19-B08 (0-6)	67	102	60	92	85	60
500-225488-12	1401V3-19-B08 (0-6)D	63	95	59	87	82	62
500-225488-13	1401V3-19-B09 (0-6)	65	109	66	101	84	48
500-225488-14	1401V3-19-B10 (0-6)	70	147	65	99	104	89
500-225488-15	1401V3-19-B11 (0-6)	77	107	75	87	115	87
LCS 500-686915/2-A	Lab Control Sample	96	126	92	112	122	86

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Surrogate Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
MB 500-686915/1-A	Method Blank	87	117	87	99	110	67

Surrogate Legend

- FBP = 2-Fluorobiphenyl (Surr)
- 2FP = 2-Fluorophenol (Surr)
- NBZ = Nitrobenzene-d5 (Surr)
- PHL = Phenol-d5 (Surr)
- TPHL = Terphenyl-d14 (Surr)
- TBP = 2,4,6-Tribromophenol (Surr)

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-372637/1-A
Matrix: Solid
Analysis Batch: 372638

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372637

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.093		0.093	0.017	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Benzene	<0.0093		0.0093	0.0017	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Bromodichloromethane	<0.0093		0.0093	0.00073	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Bromoform	<0.019		0.019	0.0012	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Bromomethane	0.00332	J	0.037	0.0030	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
2-Butanone (MEK)	<0.037		0.037	0.0028	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Carbon disulfide	<0.0093		0.0093	0.0022	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Carbon tetrachloride	<0.0093		0.0093	0.0026	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Chlorobenzene	<0.0093		0.0093	0.0014	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Chloroethane	<0.037		0.037	0.0067	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Chloroform	<0.0093		0.0093	0.0032	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Chloromethane	<0.037		0.037	0.0061	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
cis-1,2-Dichloroethene	<0.0093		0.0093	0.0014	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
cis-1,3-Dichloropropene	<0.0093		0.0093	0.0010	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Dibromochloromethane	<0.0093		0.0093	0.00041	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,1-Dichloroethane	<0.0093		0.0093	0.00080	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,2-Dichloroethane	<0.0093		0.0093	0.00058	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,1-Dichloroethene	<0.0093		0.0093	0.0013	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,2-Dichloropropane	<0.0093		0.0093	0.00080	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,3-Dichloropropene, Total	<0.019		0.019	0.0020	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Ethylbenzene	<0.0093		0.0093	0.0045	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
2-Hexanone	<0.037		0.037	0.0043	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Methylene Chloride	<0.093		0.093	0.054	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
4-Methyl-2-pentanone (MIBK)	<0.037		0.037	0.0032	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Methyl tert-butyl ether	<0.0093		0.0093	0.00041	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Styrene	<0.0093		0.0093	0.0065	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,1,2,2-Tetrachloroethane	<0.0093		0.0093	0.00065	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Tetrachloroethene	<0.0093		0.0093	0.0018	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Toluene	<0.0093		0.0093	0.0061	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
trans-1,2-Dichloroethene	<0.0093		0.0093	0.0011	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
trans-1,3-Dichloropropene	<0.0093		0.0093	0.0010	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,1,1-Trichloroethane	<0.0093		0.0093	0.00086	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,1,2-Trichloroethane	<0.0093		0.0093	0.00060	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Trichloroethene	<0.0093		0.0093	0.0026	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Vinyl acetate	<0.019		0.019	0.0032	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Vinyl chloride	<0.019		0.019	0.0065	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Xylenes, Total	<0.019		0.019	0.0067	mg/Kg		11/21/22 08:33	11/22/22 07:46	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	94		77 - 120	11/21/22 08:33	11/22/22 07:46	1
Dibromofluoromethane (Surr)	108		80 - 123	11/21/22 08:33	11/22/22 07:46	1
Toluene-d8 (Surr)	93		76 - 120	11/21/22 08:33	11/22/22 07:46	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-372637/2-A
Matrix: Solid
Analysis Batch: 372638

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.150	0.156		mg/Kg		104	52 - 150
Benzene	0.0750	0.0813		mg/Kg		108	77 - 134
Bromodichloromethane	0.0750	0.0784		mg/Kg		104	78 - 122
Bromoform	0.0750	0.0807		mg/Kg		108	72 - 122
2-Butanone (MEK)	0.150	0.167		mg/Kg		112	60 - 150
Carbon disulfide	0.0750	0.0725		mg/Kg		97	61 - 142
Carbon tetrachloride	0.0750	0.0762		mg/Kg		102	77 - 127
Chlorobenzene	0.0750	0.0727		mg/Kg		97	76 - 120
Chloroform	0.0750	0.0738		mg/Kg		98	78 - 127
cis-1,2-Dichloroethene	0.0750	0.0822		mg/Kg		109	74 - 136
cis-1,3-Dichloropropene	0.0750	0.0800		mg/Kg		107	79 - 126
Dibromochloromethane	0.0750	0.0809		mg/Kg		108	78 - 122
1,1-Dichloroethane	0.0750	0.0830		mg/Kg		111	74 - 137
1,2-Dichloroethane	0.0750	0.0776		mg/Kg		103	79 - 132
1,1-Dichloroethene	0.0750	0.0717		mg/Kg		96	62 - 130
1,2-Dichloropropane	0.0750	0.0851		mg/Kg		113	78 - 135
Ethylbenzene	0.0750	0.0766		mg/Kg		102	78 - 122
2-Hexanone	0.150	0.167		mg/Kg		112	73 - 134
Methylene Chloride	0.0750	0.0854	J	mg/Kg		114	55 - 150
4-Methyl-2-pentanone (MIBK)	0.150	0.173		mg/Kg		115	75 - 135
Methyl tert-butyl ether	0.0750	0.0790		mg/Kg		105	73 - 135
Styrene	0.0750	0.0772		mg/Kg		103	75 - 120
1,1,2,2-Tetrachloroethane	0.0750	0.0792		mg/Kg		106	80 - 127
Tetrachloroethene	0.0750	0.0680		mg/Kg		91	72 - 121
Toluene	0.0750	0.0758		mg/Kg		101	77 - 121
trans-1,2-Dichloroethene	0.0750	0.0767		mg/Kg		102	71 - 134
trans-1,3-Dichloropropene	0.0750	0.0728		mg/Kg		97	77 - 122
1,1,1-Trichloroethane	0.0750	0.0783		mg/Kg		104	79 - 132
1,1,2-Trichloroethane	0.0750	0.0835		mg/Kg		111	80 - 124
Trichloroethene	0.0750	0.0785		mg/Kg		105	76 - 132
Vinyl acetate	0.150	0.0450	*-	mg/Kg		30	37 - 150
Xylenes, Total	0.150	0.152		mg/Kg		101	76 - 124

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		77 - 120
Dibromofluoromethane (Surr)	99		80 - 123
Toluene-d8 (Surr)	101		76 - 120

Lab Sample ID: LCSD 310-372637/3-A
Matrix: Solid
Analysis Batch: 372638

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 372637

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Acetone	0.184	0.182		mg/Kg		99	52 - 150	15	40
Benzene	0.0920	0.0980		mg/Kg		107	77 - 134	19	40
Bromodichloromethane	0.0920	0.0929		mg/Kg		101	78 - 122	17	35
Bromoform	0.0920	0.0960		mg/Kg		104	72 - 122	17	40
2-Butanone (MEK)	0.184	0.198		mg/Kg		108	60 - 150	17	39

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 310-372637/3-A
Matrix: Solid
Analysis Batch: 372638

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 372637

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Carbon disulfide	0.0920	0.0855		mg/Kg		93	61 - 142	16	40	
Carbon tetrachloride	0.0920	0.0911		mg/Kg		99	77 - 127	18	40	
Chlorobenzene	0.0920	0.0883		mg/Kg		96	76 - 120	19	40	
Chloroform	0.0920	0.0877		mg/Kg		95	78 - 127	17	34	
cis-1,2-Dichloroethene	0.0920	0.0961		mg/Kg		104	74 - 136	16	36	
cis-1,3-Dichloropropene	0.0920	0.0972		mg/Kg		106	79 - 126	19	39	
Dibromochloromethane	0.0920	0.0959		mg/Kg		104	78 - 122	17	37	
1,1-Dichloroethane	0.0920	0.0993		mg/Kg		108	74 - 137	18	33	
1,2-Dichloroethane	0.0920	0.0900		mg/Kg		98	79 - 132	15	34	
1,1-Dichloroethene	0.0920	0.0861		mg/Kg		94	62 - 130	18	37	
1,2-Dichloropropane	0.0920	0.101		mg/Kg		110	78 - 135	17	34	
Ethylbenzene	0.0920	0.0914		mg/Kg		99	78 - 122	18	40	
2-Hexanone	0.184	0.199		mg/Kg		108	73 - 134	17	40	
Methylene Chloride	0.0920	0.0991	J	mg/Kg		108	55 - 150	15	35	
4-Methyl-2-pentanone (MIBK)	0.184	0.206		mg/Kg		112	75 - 135	18	40	
Methyl tert-butyl ether	0.0920	0.0962		mg/Kg		105	73 - 135	20	33	
Styrene	0.0920	0.0924		mg/Kg		100	75 - 120	18	40	
1,1,2,2-Tetrachloroethane	0.0920	0.0964		mg/Kg		105	80 - 127	20	38	
Tetrachloroethene	0.0920	0.0817		mg/Kg		89	72 - 121	18	40	
Toluene	0.0920	0.0903		mg/Kg		98	77 - 121	17	40	
trans-1,2-Dichloroethene	0.0920	0.0933		mg/Kg		101	71 - 134	20	36	
trans-1,3-Dichloropropene	0.0920	0.0878		mg/Kg		95	77 - 122	19	40	
1,1,1-Trichloroethane	0.0920	0.0932		mg/Kg		101	79 - 132	17	39	
1,1,2-Trichloroethane	0.0920	0.0992		mg/Kg		108	80 - 124	17	35	
Trichloroethene	0.0920	0.0934		mg/Kg		102	76 - 132	17	40	
Vinyl acetate	0.184	0.0944	*1	mg/Kg		51	37 - 150	71	40	
Xylenes, Total	0.184	0.182		mg/Kg		99	76 - 124	18	40	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		77 - 120
Dibromofluoromethane (Surr)	100		80 - 123
Toluene-d8 (Surr)	100		76 - 120

Lab Sample ID: MB 310-372826/1-A
Matrix: Solid
Analysis Batch: 372827

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372826

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.11		0.11	0.020	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Benzene	<0.011		0.011	0.0019	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Bromodichloromethane	<0.011		0.011	0.00083	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Bromoform	<0.021		0.021	0.0014	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Bromomethane	<0.043		0.043	0.0034	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
2-Butanone (MEK)	<0.043		0.043	0.0032	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Carbon disulfide	<0.011		0.011	0.0026	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Carbon tetrachloride	<0.011		0.011	0.0030	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Chlorobenzene	<0.011		0.011	0.0016	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Chloroethane	<0.043		0.043	0.0077	mg/Kg		11/22/22 11:52	11/22/22 19:06	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-372826/1-A
Matrix: Solid
Analysis Batch: 372827

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372826

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.011		0.011	0.0036	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Chloromethane	<0.043		0.043	0.0070	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
cis-1,2-Dichloroethene	<0.011		0.011	0.0016	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
cis-1,3-Dichloropropene	<0.011		0.011	0.0012	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Dibromochloromethane	<0.011		0.011	0.00047	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,1-Dichloroethane	<0.011		0.011	0.00092	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,2-Dichloroethane	<0.011		0.011	0.00066	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,1-Dichloroethene	<0.011		0.011	0.0015	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,2-Dichloropropane	<0.011		0.011	0.00092	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,3-Dichloropropane, Total	<0.021		0.021	0.0023	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Ethylbenzene	<0.011		0.011	0.0051	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
2-Hexanone	<0.043		0.043	0.0049	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Methylene Chloride	<0.11		0.11	0.062	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
4-Methyl-2-pentanone (MIBK)	<0.043		0.043	0.0036	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Methyl tert-butyl ether	<0.011		0.011	0.00047	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Styrene	<0.011		0.011	0.0075	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,1,2,2-Tetrachloroethane	<0.011		0.011	0.00075	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Tetrachloroethene	<0.011		0.011	0.0020	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Toluene	<0.011		0.011	0.0070	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
trans-1,2-Dichloroethene	<0.011		0.011	0.0013	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
trans-1,3-Dichloropropene	<0.011		0.011	0.0012	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,1,1-Trichloroethane	<0.011		0.011	0.00098	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,1,2-Trichloroethane	<0.011		0.011	0.00068	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Trichloroethene	<0.011		0.011	0.0030	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Vinyl acetate	<0.021		0.021	0.0036	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Vinyl chloride	<0.021		0.021	0.0075	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Xylenes, Total	<0.021		0.021	0.0077	mg/Kg		11/22/22 11:52	11/22/22 19:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		77 - 120	11/22/22 11:52	11/22/22 19:06	1
Dibromofluoromethane (Surr)	107		80 - 123	11/22/22 11:52	11/22/22 19:06	1
Toluene-d8 (Surr)	94		76 - 120	11/22/22 11:52	11/22/22 19:06	1

Lab Sample ID: LCS 310-372826/2-A
Matrix: Solid
Analysis Batch: 372827

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372826

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acetone	0.172	0.139		mg/Kg		81	52 - 150
Benzene	0.0860	0.0822		mg/Kg		96	77 - 134
Bromodichloromethane	0.0860	0.0783		mg/Kg		91	78 - 122
Bromoform	0.0860	0.0820		mg/Kg		95	72 - 122
2-Butanone (MEK)	0.172	0.175		mg/Kg		102	60 - 150
Carbon disulfide	0.0860	0.0785		mg/Kg		91	61 - 142
Carbon tetrachloride	0.0860	0.0749		mg/Kg		87	77 - 127
Chlorobenzene	0.0860	0.0766		mg/Kg		89	76 - 120
Chloroform	0.0860	0.0733		mg/Kg		85	78 - 127
cis-1,2-Dichloroethene	0.0860	0.0821		mg/Kg		95	74 - 136

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-372826/2-A
Matrix: Solid
Analysis Batch: 372827

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372826

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
cis-1,3-Dichloropropene	0.0860	0.0815		mg/Kg		95	79 - 126	
Dibromochloromethane	0.0860	0.0820		mg/Kg		95	78 - 122	
1,1-Dichloroethane	0.0860	0.0831		mg/Kg		97	74 - 137	
1,2-Dichloroethane	0.0860	0.0800		mg/Kg		93	79 - 132	
1,1-Dichloroethene	0.0860	0.0731		mg/Kg		85	62 - 130	
1,2-Dichloropropane	0.0860	0.0857		mg/Kg		100	78 - 135	
Ethylbenzene	0.0860	0.0800		mg/Kg		93	78 - 122	
2-Hexanone	0.172	0.177		mg/Kg		103	73 - 134	
Methylene Chloride	0.0860	0.0786	J	mg/Kg		91	55 - 150	
4-Methyl-2-pentanone (MIBK)	0.172	0.181		mg/Kg		105	75 - 135	
Methyl tert-butyl ether	0.0860	0.0827		mg/Kg		96	73 - 135	
Styrene	0.0860	0.0822		mg/Kg		96	75 - 120	
1,1,2,2-Tetrachloroethane	0.0860	0.0854		mg/Kg		99	80 - 127	
Tetrachloroethene	0.0860	0.0703		mg/Kg		82	72 - 121	
Toluene	0.0860	0.0766		mg/Kg		89	77 - 121	
trans-1,2-Dichloroethene	0.0860	0.0800		mg/Kg		93	71 - 134	
trans-1,3-Dichloropropene	0.0860	0.0765		mg/Kg		89	77 - 122	
1,1,1-Trichloroethane	0.0860	0.0778		mg/Kg		90	79 - 132	
1,1,2-Trichloroethane	0.0860	0.0852		mg/Kg		99	80 - 124	
Trichloroethene	0.0860	0.0801		mg/Kg		93	76 - 132	
Vinyl acetate	0.172	0.153		mg/Kg		89	37 - 150	
Xylenes, Total	0.172	0.160		mg/Kg		93	76 - 124	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		77 - 120
Dibromofluoromethane (Surr)	99		80 - 123
Toluene-d8 (Surr)	100		76 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-686915/1-A
Matrix: Solid
Analysis Batch: 687960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686915

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Carbazole	<0.17		0.17	0.083	mg/Kg		11/27/22 09:04	12/02/22 15:12	1

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-686915/1-A
Matrix: Solid
Analysis Batch: 687960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686915

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Isophorone	<0.17		0.17	0.037	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Phenol	<0.17		0.17	0.074	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		11/27/22 09:04	12/02/22 15:12	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-686915/1-A
Matrix: Solid
Analysis Batch: 687960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686915

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	87		43 - 145				11/27/22 09:04	12/02/22 15:12	1
2-Fluorophenol (Surr)	117		31 - 166				11/27/22 09:04	12/02/22 15:12	1
Nitrobenzene-d5 (Surr)	87		37 - 147				11/27/22 09:04	12/02/22 15:12	1
Phenol-d5 (Surr)	99		30 - 153				11/27/22 09:04	12/02/22 15:12	1
Terphenyl-d14 (Surr)	110		42 - 157				11/27/22 09:04	12/02/22 15:12	1
2,4,6-Tribromophenol (Surr)	67		31 - 143				11/27/22 09:04	12/02/22 15:12	1

Lab Sample ID: LCS 500-686915/2-A
Matrix: Solid
Analysis Batch: 687960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686915

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.37		mg/Kg		103	65 - 124
Acenaphthylene	1.33	1.40		mg/Kg		105	68 - 120
Anthracene	1.33	1.29		mg/Kg		97	70 - 114
Benzo[a]anthracene	1.33	1.43		mg/Kg		107	67 - 122
Benzo[a]pyrene	1.33	1.37		mg/Kg		102	65 - 133
Benzo[b]fluoranthene	1.33	1.28		mg/Kg		96	69 - 129
Benzo[g,h,i]perylene	1.33	1.58		mg/Kg		118	72 - 131
Benzo[k]fluoranthene	1.33	1.31		mg/Kg		98	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.30		mg/Kg		97	60 - 112
Bis(2-chloroethyl)ether	1.33	1.20		mg/Kg		90	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.57		mg/Kg		118	72 - 131
4-Bromophenyl phenyl ether	1.33	1.32		mg/Kg		99	68 - 118
Butyl benzyl phthalate	1.33	1.54		mg/Kg		115	71 - 129
Carbazole	1.33	1.41		mg/Kg		106	65 - 142
4-Chloroaniline	1.33	0.601	J	mg/Kg		45	30 - 150
4-Chloro-3-methylphenol	1.33	1.45		mg/Kg		109	65 - 122
2-Chloronaphthalene	1.33	1.37		mg/Kg		103	69 - 114
2-Chlorophenol	1.33	1.33		mg/Kg		99	64 - 110
4-Chlorophenyl phenyl ether	1.33	1.31		mg/Kg		98	62 - 119
Chrysene	1.33	1.37		mg/Kg		102	63 - 120
Dibenz(a,h)anthracene	1.33	1.56		mg/Kg		117	64 - 131
Dibenzofuran	1.33	1.36		mg/Kg		102	66 - 115
1,2-Dichlorobenzene	1.33	1.18		mg/Kg		88	62 - 110
1,3-Dichlorobenzene	1.33	1.21		mg/Kg		91	65 - 124
1,4-Dichlorobenzene	1.33	1.21		mg/Kg		91	61 - 110
3,3'-Dichlorobenzidine	1.33	0.924		mg/Kg		69	35 - 128
2,4-Dichlorophenol	1.33	1.29		mg/Kg		97	58 - 120
Diethyl phthalate	1.33	1.31		mg/Kg		98	58 - 120
2,4-Dimethylphenol	1.33	1.41		mg/Kg		106	60 - 110
Dimethyl phthalate	1.33	1.33		mg/Kg		100	69 - 116
Di-n-butyl phthalate	1.33	1.35		mg/Kg		102	65 - 120
4,6-Dinitro-2-methylphenol	2.67	1.56		mg/Kg		58	10 - 110
2,4-Dinitrophenol	2.67	0.775		mg/Kg		29	10 - 100

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-686915/2-A
Matrix: Solid
Analysis Batch: 687960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686915

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	1.33	1.35		mg/Kg		101	69 - 124
2,6-Dinitrotoluene	1.33	1.49		mg/Kg		112	70 - 123
Di-n-octyl phthalate	1.33	1.26		mg/Kg		94	68 - 134
Fluoranthene	1.33	1.29		mg/Kg		97	62 - 120
Fluorene	1.33	1.36		mg/Kg		102	62 - 120
Hexachlorobenzene	1.33	1.34		mg/Kg		101	63 - 124
Hexachlorobutadiene	1.33	1.22		mg/Kg		91	56 - 120
Hexachlorocyclopentadiene	1.33	0.249	J	mg/Kg		19	10 - 133
Hexachloroethane	1.33	1.21		mg/Kg		91	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.63		mg/Kg		122	68 - 130
Isophorone	1.33	1.27		mg/Kg		95	55 - 110
2-Methylnaphthalene	1.33	1.25		mg/Kg		94	69 - 112
2-Methylphenol	1.33	1.33		mg/Kg		100	60 - 120
3 & 4 Methylphenol	1.33	1.27		mg/Kg		96	57 - 120
Naphthalene	1.33	1.23		mg/Kg		93	63 - 110
2-Nitroaniline	1.33	1.50		mg/Kg		113	57 - 124
3-Nitroaniline	1.33	0.962		mg/Kg		72	40 - 122
4-Nitroaniline	1.33	1.28		mg/Kg		96	60 - 160
Nitrobenzene	1.33	1.31		mg/Kg		98	60 - 116
2-Nitrophenol	1.33	1.38		mg/Kg		104	60 - 120
4-Nitrophenol	2.67	2.28		mg/Kg		86	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.34		mg/Kg		100	56 - 118
N-Nitrosodiphenylamine	1.33	1.35		mg/Kg		101	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.25		mg/Kg		93	40 - 124
Pentachlorophenol	2.67	1.31		mg/Kg		49	13 - 112
Phenanthrene	1.33	1.35		mg/Kg		102	62 - 120
Phenol	1.33	1.38		mg/Kg		104	56 - 122
Pyrene	1.33	1.59		mg/Kg		119	61 - 128
1,2,4-Trichlorobenzene	1.33	1.27		mg/Kg		95	66 - 117
2,4,5-Trichlorophenol	1.33	1.29		mg/Kg		97	50 - 120
2,4,6-Trichlorophenol	1.33	1.28		mg/Kg		96	57 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	96		43 - 145
2-Fluorophenol (Surr)	126		31 - 166
Nitrobenzene-d5 (Surr)	92		37 - 147
Phenol-d5 (Surr)	112		30 - 153
Terphenyl-d14 (Surr)	122		42 - 157
2,4,6-Tribromophenol (Surr)	86		31 - 143

Lab Sample ID: 500-225488-4 MS
Matrix: Solid
Analysis Batch: 687960

Client Sample ID: 1401V3-19-B04 (5-9)
Prep Type: Total/NA
Prep Batch: 686915

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	<0.040		1.61	1.73		mg/Kg	✱	107	65 - 124
Acenaphthylene	<0.040		1.61	1.74		mg/Kg	✱	108	68 - 120
Anthracene	<0.040		1.61	1.67		mg/Kg	✱	103	70 - 114

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-225488-4 MS

Matrix: Solid

Analysis Batch: 687960

Client Sample ID: 1401V3-19-B04 (5-9)

Prep Type: Total/NA

Prep Batch: 686915

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Benzo[a]anthracene	<0.040		1.61	1.83		mg/Kg	☼	114	67 - 122
Benzo[a]pyrene	<0.040		1.61	1.76		mg/Kg	☼	109	65 - 133
Benzo[b]fluoranthene	<0.040		1.61	1.75		mg/Kg	☼	108	69 - 129
Benzo[g,h,i]perylene	<0.040	F1	1.61	1.06	F1	mg/Kg	☼	66	72 - 131
Benzo[k]fluoranthene	<0.040		1.61	1.71		mg/Kg	☼	106	68 - 127
Bis(2-chloroethoxy)methane	<0.20		1.61	1.63		mg/Kg	☼	101	60 - 112
Bis(2-chloroethyl)ether	<0.20		1.61	1.66		mg/Kg	☼	103	55 - 111
Bis(2-ethylhexyl) phthalate	<0.20		1.61	1.89		mg/Kg	☼	117	72 - 131
4-Bromophenyl phenyl ether	<0.20		1.61	1.66		mg/Kg	☼	103	68 - 118
Butyl benzyl phthalate	<0.20		1.61	1.84		mg/Kg	☼	114	71 - 129
Carbazole	<0.20		1.61	1.78		mg/Kg	☼	110	65 - 142
4-Chloroaniline	<0.81		1.61	1.15		mg/Kg	☼	71	30 - 150
4-Chloro-3-methylphenol	<0.40		1.61	1.89		mg/Kg	☼	117	65 - 122
2-Chloronaphthalene	<0.20		1.61	1.72		mg/Kg	☼	107	69 - 114
2-Chlorophenol	<0.20	F1	1.61	1.87	F1	mg/Kg	☼	116	64 - 110
4-Chlorophenyl phenyl ether	<0.20		1.61	1.69		mg/Kg	☼	104	62 - 119
Chrysene	<0.040		1.61	1.78		mg/Kg	☼	110	63 - 120
Dibenz(a,h)anthracene	<0.040		1.61	1.31		mg/Kg	☼	81	64 - 131
Dibenzofuran	<0.20		1.61	1.75		mg/Kg	☼	109	66 - 115
1,2-Dichlorobenzene	<0.20		1.61	1.54		mg/Kg	☼	95	62 - 110
1,3-Dichlorobenzene	<0.20		1.61	1.66		mg/Kg	☼	103	60 - 110
1,4-Dichlorobenzene	<0.20		1.61	1.53		mg/Kg	☼	95	61 - 110
3,3'-Dichlorobenzidine	<0.20		1.61	1.36		mg/Kg	☼	84	35 - 128
2,4-Dichlorophenol	<0.40		1.61	1.76		mg/Kg	☼	109	58 - 120
Diethyl phthalate	<0.20		1.61	1.70		mg/Kg	☼	106	58 - 120
2,4-Dimethylphenol	<0.40		1.61	1.76		mg/Kg	☼	109	60 - 110
Dimethyl phthalate	<0.20		1.61	1.69		mg/Kg	☼	105	69 - 116
Di-n-butyl phthalate	<0.20		1.61	1.73		mg/Kg	☼	107	65 - 120
4,6-Dinitro-2-methylphenol	<0.81	F1	3.23	0.493	J	mg/Kg	☼	15	10 - 110
2,4-Dinitrophenol	<0.81	F1	3.23	<0.81	F1	mg/Kg	☼	0	10 - 100
2,4-Dinitrotoluene	<0.20		1.61	1.54		mg/Kg	☼	95	69 - 124
2,6-Dinitrotoluene	<0.20		1.61	1.78		mg/Kg	☼	110	70 - 123
Di-n-octyl phthalate	<0.20		1.61	1.69		mg/Kg	☼	105	68 - 134
Fluoranthene	<0.040		1.61	1.59		mg/Kg	☼	98	62 - 120
Fluorene	<0.040		1.61	1.75		mg/Kg	☼	109	62 - 120
Hexachlorobenzene	<0.081		1.61	1.68		mg/Kg	☼	104	63 - 124
Hexachlorobutadiene	<0.20		1.61	1.57		mg/Kg	☼	97	56 - 120
Hexachlorocyclopentadiene	<0.81	F1	1.61	<0.81	F1	mg/Kg	☼	0	10 - 133
Hexachloroethane	<0.20		1.61	1.41		mg/Kg	☼	87	60 - 114
Indeno[1,2,3-cd]pyrene	<0.040	F1	1.61	1.31		mg/Kg	☼	81	68 - 130
Isophorone	<0.20		1.61	1.63		mg/Kg	☼	101	55 - 110
2-Methylnaphthalene	<0.081		1.61	1.67		mg/Kg	☼	104	69 - 112
2-Methylphenol	<0.20	F1	1.61	1.96	F1	mg/Kg	☼	122	60 - 120
3 & 4 Methylphenol	<0.20		1.61	1.92		mg/Kg	☼	119	57 - 120
Naphthalene	<0.040		1.61	1.61		mg/Kg	☼	100	63 - 110
2-Nitroaniline	<0.20		1.61	1.90		mg/Kg	☼	118	57 - 124
3-Nitroaniline	<0.40		1.61	1.68		mg/Kg	☼	104	40 - 122
4-Nitroaniline	<0.40		1.61	1.70		mg/Kg	☼	105	60 - 160
Nitrobenzene	<0.040		1.61	1.72		mg/Kg	☼	106	60 - 116

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-225488-4 MS

Matrix: Solid

Analysis Batch: 687960

Client Sample ID: 1401V3-19-B04 (5-9)

Prep Type: Total/NA

Prep Batch: 686915

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
2-Nitrophenol	<0.40		1.61	1.55		mg/Kg	☼	96	60 - 120	
4-Nitrophenol	<0.81		3.23	3.03		mg/Kg	☼	94	30 - 122	
N-Nitrosodi-n-propylamine	<0.081		1.61	1.71		mg/Kg	☼	106	56 - 118	
N-Nitrosodiphenylamine	<0.20		1.61	1.72		mg/Kg	☼	107	65 - 112	
2,2'-oxybis[1-chloropropane]	<0.20		1.61	1.54		mg/Kg	☼	96	40 - 124	
Pentachlorophenol	<0.81		3.23	2.19		mg/Kg	☼	68	13 - 112	
Phenanthrene	<0.040		1.61	1.67		mg/Kg	☼	103	62 - 120	
Phenol	<0.20		1.61	1.66		mg/Kg	☼	103	56 - 122	
Pyrene	<0.040		1.61	1.86		mg/Kg	☼	115	61 - 128	
1,2,4-Trichlorobenzene	<0.20		1.61	1.62		mg/Kg	☼	100	66 - 117	
2,4,5-Trichlorophenol	<0.40		1.61	1.66		mg/Kg	☼	103	50 - 120	
2,4,6-Trichlorophenol	<0.40		1.61	1.73		mg/Kg	☼	107	57 - 120	
		MS MS								
Surrogate	%Recovery	Qualifier	Limits							
2-Fluorobiphenyl (Surr)	91		43 - 145							
2-Fluorophenol (Surr)	141		31 - 166							
Nitrobenzene-d5 (Surr)	96		37 - 147							
Phenol-d5 (Surr)	116		30 - 153							
Terphenyl-d14 (Surr)	114		42 - 157							
2,4,6-Tribromophenol (Surr)	101		31 - 143							

Lab Sample ID: 500-225488-4 MSD

Matrix: Solid

Analysis Batch: 687960

Client Sample ID: 1401V3-19-B04 (5-9)

Prep Type: Total/NA

Prep Batch: 686915

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Acenaphthene	<0.040		1.61	1.56		mg/Kg	☼	97	65 - 124	11	30	
Acenaphthylene	<0.040		1.61	1.52		mg/Kg	☼	94	68 - 120	14	30	
Anthracene	<0.040		1.61	1.45		mg/Kg	☼	90	70 - 114	14	30	
Benzo[a]anthracene	<0.040		1.61	1.60		mg/Kg	☼	100	67 - 122	13	30	
Benzo[a]pyrene	<0.040		1.61	1.52		mg/Kg	☼	94	65 - 133	15	30	
Benzo[b]fluoranthene	<0.040		1.61	1.52		mg/Kg	☼	94	69 - 129	14	30	
Benzo[g,h,i]perylene	<0.040	F1	1.61	0.856	F1	mg/Kg	☼	53	72 - 131	22	30	
Benzo[k]fluoranthene	<0.040		1.61	1.47		mg/Kg	☼	91	68 - 127	15	30	
Bis(2-chloroethoxy)methane	<0.20		1.61	1.35		mg/Kg	☼	84	60 - 112	19	30	
Bis(2-chloroethyl)ether	<0.20		1.61	1.32		mg/Kg	☼	82	55 - 111	23	30	
Bis(2-ethylhexyl) phthalate	<0.20		1.61	1.63		mg/Kg	☼	101	72 - 131	15	30	
4-Bromophenyl phenyl ether	<0.20		1.61	1.44		mg/Kg	☼	90	68 - 118	14	30	
Butyl benzyl phthalate	<0.20		1.61	1.57		mg/Kg	☼	98	71 - 129	16	30	
Carbazole	<0.20		1.61	1.54		mg/Kg	☼	96	65 - 142	14	30	
4-Chloroaniline	<0.81		1.61	1.04		mg/Kg	☼	65	30 - 150	9	30	
4-Chloro-3-methylphenol	<0.40		1.61	1.55		mg/Kg	☼	96	65 - 122	20	30	
2-Chloronaphthalene	<0.20		1.61	1.49		mg/Kg	☼	93	69 - 114	14	30	
2-Chlorophenol	<0.20	F1	1.61	1.52		mg/Kg	☼	94	64 - 110	21	30	
4-Chlorophenyl phenyl ether	<0.20		1.61	1.48		mg/Kg	☼	92	62 - 119	13	30	
Chrysene	<0.040		1.61	1.54		mg/Kg	☼	95	63 - 120	15	30	
Dibenz(a,h)anthracene	<0.040		1.61	1.06		mg/Kg	☼	66	64 - 131	21	30	
Dibenzofuran	<0.20		1.61	1.48		mg/Kg	☼	92	66 - 115	16	30	

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-225488-4 MSD

Matrix: Solid

Analysis Batch: 687960

Client Sample ID: 1401V3-19-B04 (5-9)

Prep Type: Total/NA

Prep Batch: 686915

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
1,2-Dichlorobenzene	<0.20		1.61	1.27		mg/Kg	☼	79	62 - 110	19	30
1,3-Dichlorobenzene	<0.20		1.61	1.77		mg/Kg	☼	110	60 - 110	7	30
1,4-Dichlorobenzene	<0.20		1.61	1.29		mg/Kg	☼	80	61 - 110	17	30
3,3'-Dichlorobenzidine	<0.20		1.61	1.25		mg/Kg	☼	77	35 - 128	9	30
2,4-Dichlorophenol	<0.40		1.61	1.40		mg/Kg	☼	87	58 - 120	23	30
Diethyl phthalate	<0.20		1.61	1.48		mg/Kg	☼	92	58 - 120	14	30
2,4-Dimethylphenol	<0.40		1.61	1.48		mg/Kg	☼	92	60 - 110	17	30
Dimethyl phthalate	<0.20		1.61	1.43		mg/Kg	☼	89	69 - 116	16	30
Di-n-butyl phthalate	<0.20		1.61	1.51		mg/Kg	☼	94	65 - 120	13	30
4,6-Dinitro-2-methylphenol	<0.81	F1	3.22	<0.81	F1	mg/Kg	☼	0	10 - 110	NC	30
2,4-Dinitrophenol	<0.81	F1	3.22	<0.81	F1	mg/Kg	☼	0	10 - 100	NC	30
2,4-Dinitrotoluene	<0.20		1.61	1.32		mg/Kg	☼	82	69 - 124	16	30
2,6-Dinitrotoluene	<0.20		1.61	1.47		mg/Kg	☼	91	70 - 123	19	30
Di-n-octyl phthalate	<0.20		1.61	1.57		mg/Kg	☼	97	68 - 134	8	30
Fluoranthene	<0.040		1.61	1.40		mg/Kg	☼	87	62 - 120	12	30
Fluorene	<0.040		1.61	1.53		mg/Kg	☼	95	62 - 120	14	30
Hexachlorobenzene	<0.081		1.61	1.46		mg/Kg	☼	91	63 - 124	14	30
Hexachlorobutadiene	<0.20		1.61	1.30		mg/Kg	☼	81	56 - 120	18	30
Hexachlorocyclopentadiene	<0.81	F1	1.61	<0.81	F1	mg/Kg	☼	0	10 - 133	NC	30
Hexachloroethane	<0.20		1.61	1.27		mg/Kg	☼	79	60 - 114	10	30
Indeno[1,2,3-cd]pyrene	<0.040	F1	1.61	1.08	F1	mg/Kg	☼	67	68 - 130	19	30
Isophorone	<0.20		1.61	1.32		mg/Kg	☼	82	55 - 110	21	30
2-Methylnaphthalene	<0.081		1.61	1.55		mg/Kg	☼	96	69 - 112	7	30
2-Methylphenol	<0.20	F1	1.61	1.79		mg/Kg	☼	111	60 - 120	9	30
3 & 4 Methylphenol	<0.20		1.61	1.69		mg/Kg	☼	105	57 - 120	13	30
Naphthalene	<0.040		1.61	1.34		mg/Kg	☼	83	63 - 110	19	30
2-Nitroaniline	<0.20		1.61	1.64		mg/Kg	☼	102	57 - 124	15	30
3-Nitroaniline	<0.40		1.61	1.53		mg/Kg	☼	95	40 - 122	10	30
4-Nitroaniline	<0.40		1.61	1.48		mg/Kg	☼	92	60 - 160	14	30
Nitrobenzene	<0.040		1.61	1.35		mg/Kg	☼	84	60 - 116	24	30
2-Nitrophenol	<0.40		1.61	1.19		mg/Kg	☼	74	60 - 120	27	30
4-Nitrophenol	<0.81		3.22	2.65		mg/Kg	☼	82	30 - 122	13	30
N-Nitrosodi-n-propylamine	<0.081		1.61	1.55		mg/Kg	☼	96	56 - 118	10	30
N-Nitrosodiphenylamine	<0.20		1.61	1.45		mg/Kg	☼	90	65 - 112	17	30
2,2'-oxybis[1-chloropropane]	<0.20		1.61	1.36		mg/Kg	☼	84	40 - 124	13	30
Pentachlorophenol	<0.81		3.22	1.72		mg/Kg	☼	53	13 - 112	24	30
Phenanthrene	<0.040		1.61	1.52		mg/Kg	☼	94	62 - 120	9	30
Phenol	<0.20		1.61	1.67		mg/Kg	☼	104	56 - 122	0	30
Pyrene	<0.040		1.61	1.59		mg/Kg	☼	99	61 - 128	16	30
1,2,4-Trichlorobenzene	<0.20		1.61	1.38		mg/Kg	☼	86	66 - 117	16	30
2,4,5-Trichlorophenol	<0.40		1.61	1.48		mg/Kg	☼	92	50 - 120	12	30
2,4,6-Trichlorophenol	<0.40		1.61	1.51		mg/Kg	☼	93	57 - 120	14	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	78		43 - 145
2-Fluorophenol (Surr)	148		31 - 166
Nitrobenzene-d5 (Surr)	76		37 - 147
Phenol-d5 (Surr)	108		30 - 153

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-225488-4 MSD
Matrix: Solid
Analysis Batch: 687960

Client Sample ID: 1401V3-19-B04 (5-9)
Prep Type: Total/NA
Prep Batch: 686915

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Terphenyl-d14 (Surr)	96		42 - 157
2,4,6-Tribromophenol (Surr)	75		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-686618/2-A
Matrix: Solid
Analysis Batch: 687914

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686618

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.512		mg/L		102	80 - 120
Beryllium	0.0500	0.0491		mg/L		98	80 - 120
Boron	1.00	1.17		mg/L		117	80 - 120
Cadmium	0.0500	0.0516		mg/L		103	80 - 120
Chromium	0.200	0.193		mg/L		96	80 - 120
Cobalt	0.500	0.513		mg/L		103	80 - 120
Iron	1.00	0.987		mg/L		99	80 - 120
Lead	0.100	0.0931		mg/L		93	80 - 120
Manganese	0.500	0.482		mg/L		96	80 - 120
Nickel	0.500	0.504		mg/L		101	80 - 120
Selenium	0.100	0.108		mg/L		108	80 - 120
Silver	0.0500	0.0522		mg/L		104	80 - 120
Zinc	0.500	0.549		mg/L		110	80 - 120

Lab Sample ID: LCS 500-686621/2-A
Matrix: Solid
Analysis Batch: 687979

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686621

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	0.963		mg/L		96	80 - 120
Lead	0.100	0.0989		mg/L		99	80 - 120
Manganese	0.500	0.513		mg/L		103	80 - 120

Lab Sample ID: MB 500-687739/1-A
Matrix: Solid
Analysis Batch: 688271

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687739

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg		12/01/22 11:03	12/05/22 12:38	1
Arsenic	<1.0		1.0	0.34	mg/Kg		12/01/22 11:03	12/05/22 12:38	1
Barium	<1.0		1.0	0.11	mg/Kg		12/01/22 11:03	12/05/22 12:38	1
Beryllium	<0.40		0.40	0.093	mg/Kg		12/01/22 11:03	12/05/22 12:38	1
Boron	<5.0		5.0	0.47	mg/Kg		12/01/22 11:03	12/05/22 12:38	1
Cadmium	0.0429	J	0.20	0.036	mg/Kg		12/01/22 11:03	12/05/22 12:38	1
Calcium	4.19	J	20	3.4	mg/Kg		12/01/22 11:03	12/05/22 12:38	1
Chromium	<1.0		1.0	0.50	mg/Kg		12/01/22 11:03	12/05/22 12:38	1
Cobalt	<0.50		0.50	0.13	mg/Kg		12/01/22 11:03	12/05/22 12:38	1
Copper	<1.0		1.0	0.28	mg/Kg		12/01/22 11:03	12/05/22 12:38	1
Iron	<20		20	10	mg/Kg		12/01/22 11:03	12/05/22 12:38	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 500-687739/1-A
Matrix: Solid
Analysis Batch: 688271

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687739

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50	0.23	mg/Kg		12/01/22 11:03	12/05/22 12:38	1
Magnesium	<10		10	5.0	mg/Kg		12/01/22 11:03	12/05/22 12:38	1
Manganese	<1.0		1.0	0.15	mg/Kg		12/01/22 11:03	12/05/22 12:38	1
Nickel	<1.0		1.0	0.29	mg/Kg		12/01/22 11:03	12/05/22 12:38	1
Potassium	<50		50	18	mg/Kg		12/01/22 11:03	12/05/22 12:38	1
Selenium	<1.0		1.0	0.59	mg/Kg		12/01/22 11:03	12/05/22 12:38	1
Silver	0.144	J	0.50	0.13	mg/Kg		12/01/22 11:03	12/05/22 12:38	1
Sodium	<100		100	15	mg/Kg		12/01/22 11:03	12/05/22 12:38	1
Thallium	<1.0		1.0	0.50	mg/Kg		12/01/22 11:03	12/05/22 12:38	1
Vanadium	<0.50		0.50	0.12	mg/Kg		12/01/22 11:03	12/05/22 12:38	1
Zinc	<2.0		2.0	0.88	mg/Kg		12/01/22 11:03	12/05/22 12:38	1

Lab Sample ID: LCS 500-687739/2-A
Matrix: Solid
Analysis Batch: 688271

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687739

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	44.9		mg/Kg		90	80 - 120
Arsenic	10.0	9.23		mg/Kg		92	80 - 120
Barium	200	198		mg/Kg		99	80 - 120
Beryllium	5.00	4.49		mg/Kg		90	80 - 120
Boron	100	86.3		mg/Kg		86	80 - 120
Cadmium	5.00	4.50		mg/Kg		90	80 - 120
Calcium	1000	989		mg/Kg		99	80 - 120
Chromium	20.0	19.3		mg/Kg		96	80 - 120
Cobalt	50.0	48.8		mg/Kg		98	80 - 120
Copper	25.0	24.2		mg/Kg		97	80 - 120
Iron	100	104		mg/Kg		104	80 - 120
Lead	10.0	9.16		mg/Kg		92	80 - 120
Magnesium	1000	925		mg/Kg		93	80 - 120
Manganese	50.0	45.9		mg/Kg		92	80 - 120
Nickel	50.0	47.7		mg/Kg		95	80 - 120
Potassium	1000	972		mg/Kg		97	80 - 120
Selenium	10.0	8.49		mg/Kg		85	80 - 120
Silver	5.00	4.05		mg/Kg		81	80 - 120
Sodium	1000	987		mg/Kg		99	80 - 120
Thallium	10.0	9.40		mg/Kg		94	80 - 120
Vanadium	50.0	48.3		mg/Kg		97	80 - 120
Zinc	50.0	46.7		mg/Kg		93	80 - 120

Lab Sample ID: 500-225488-1 MS
Matrix: Solid
Analysis Batch: 688271

Client Sample ID: 1401V3-19-B02 (0-5)
Prep Type: Total/NA
Prep Batch: 687739

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.45	J F1	28.3	4.96	F1	mg/Kg	☼	16	75 - 125
Arsenic	8.7	F1	5.67	15.2		mg/Kg	☼	116	75 - 125
Barium	90	F1	113	157	F1	mg/Kg	☼	60	75 - 125
Beryllium	0.93	F1	2.83	2.98	F1	mg/Kg	☼	72	75 - 125

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-225488-1 MS
Matrix: Solid
Analysis Batch: 688271

Client Sample ID: 1401V3-19-B02 (0-5)
Prep Type: Total/NA
Prep Batch: 687739

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier		Result	Qualifier					
Boron	8.4	F1	56.7	48.0	F1	mg/Kg	⊛	70	75 - 125	
Cadmium	0.28	B F1	2.83	2.22	F1	mg/Kg	⊛	68	75 - 125	
Calcium	22000	B	567	24300	4	mg/Kg	⊛	318	75 - 125	
Chromium	15		11.3	27.1		mg/Kg	⊛	103	75 - 125	
Cobalt	11		28.3	41.8		mg/Kg	⊛	109	75 - 125	
Copper	25	F1	14.2	35.6	F1	mg/Kg	⊛	72	75 - 125	
Iron	19000		56.7	21600	4	mg/Kg	⊛	3710	75 - 125	
Lead	210	F2	5.67	72.0	4	mg/Kg	⊛	-2351	75 - 125	
Magnesium	14000		567	17200	4	mg/Kg	⊛	539	75 - 125	
Manganese	250		28.3	337	4	mg/Kg	⊛	311	75 - 125	
Nickel	30		28.3	61.3		mg/Kg	⊛	110	75 - 125	
Potassium	1500	F1	567	3380	F1	mg/Kg	⊛	329	75 - 125	
Selenium	0.46	J F1	5.67	4.12	F1	mg/Kg	⊛	64	75 - 125	
Silver	0.44	B F1	2.83	2.36	F1	mg/Kg	⊛	68	75 - 125	
Sodium	3000		567	2960	4	mg/Kg	⊛	-7	75 - 125	
Thallium	<0.57		5.67	4.86		mg/Kg	⊛	86	75 - 125	
Vanadium	21		28.3	49.7		mg/Kg	⊛	100	75 - 125	
Zinc	110	F1	28.3	121	F1	mg/Kg	⊛	48	75 - 125	

Lab Sample ID: 500-225488-1 MSD
Matrix: Solid
Analysis Batch: 688271

Client Sample ID: 1401V3-19-B02 (0-5)
Prep Type: Total/NA
Prep Batch: 687739

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	RPD
	Result	Qualifier		Result	Qualifier						RPD	Limit
Antimony	0.45	J F1	28.1	5.68	F1	mg/Kg	⊛	19	75 - 125	14	20	
Arsenic	8.7	F1	5.61	12.8	F1	mg/Kg	⊛	73	75 - 125	18	20	
Barium	90	F1	112	161	F1	mg/Kg	⊛	63	75 - 125	2	20	
Beryllium	0.93	F1	2.81	2.93	F1	mg/Kg	⊛	71	75 - 125	2	20	
Boron	8.4	F1	56.1	47.6	F1	mg/Kg	⊛	70	75 - 125	1	20	
Cadmium	0.28	B F1	2.81	2.52		mg/Kg	⊛	80	75 - 125	13	20	
Calcium	22000	B	561	29400	4	mg/Kg	⊛	1238	75 - 125	19	20	
Chromium	15		11.2	26.4		mg/Kg	⊛	98	75 - 125	3	20	
Cobalt	11		28.1	40.1		mg/Kg	⊛	104	75 - 125	4	20	
Copper	25	F1	14.0	34.8	F1	mg/Kg	⊛	67	75 - 125	2	20	
Iron	19000		56.1	19700	4	mg/Kg	⊛	335	75 - 125	9	20	
Lead	210	F2	5.61	119	4 F2	mg/Kg	⊛	-1545	75 - 125	49	20	
Magnesium	14000		561	20400	4	mg/Kg	⊛	1107	75 - 125	17	20	
Manganese	250		28.1	314	4	mg/Kg	⊛	231	75 - 125	7	20	
Nickel	30		28.1	58.9		mg/Kg	⊛	103	75 - 125	4	20	
Potassium	1500	F1	561	3130	F1	mg/Kg	⊛	288	75 - 125	8	20	
Selenium	0.46	J F1	5.61	4.11	F1	mg/Kg	⊛	65	75 - 125	0	20	
Silver	0.44	B F1	2.81	2.39	F1	mg/Kg	⊛	69	75 - 125	1	20	
Sodium	3000		561	3190	4	mg/Kg	⊛	33	75 - 125	7	20	
Thallium	<0.57		5.61	5.10		mg/Kg	⊛	91	75 - 125	5	20	
Vanadium	21		28.1	47.9		mg/Kg	⊛	94	75 - 125	4	20	
Zinc	110	F1	28.1	122	F1	mg/Kg	⊛	52	75 - 125	1	20	

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-225488-1 DU
Matrix: Solid
Analysis Batch: 688271

Client Sample ID: 1401V3-19-B02 (0-5)
Prep Type: Total/NA
Prep Batch: 687739

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	0.45	J F1	0.553	J	mg/Kg	*	20	20
Arsenic	8.7	F1	9.26		mg/Kg	*	7	20
Barium	90	F1	80.3		mg/Kg	*	11	20
Beryllium	0.93	F1	0.945		mg/Kg	*	2	20
Boron	8.4	F1	10.4	F5	mg/Kg	*	21	20
Cadmium	0.28	B F1	0.401	F3	mg/Kg	*	36	20
Calcium	22000	B	20800		mg/Kg	*	8	20
Chromium	15		16.9		mg/Kg	*	9	20
Cobalt	11		12.9		mg/Kg	*	16	20
Copper	25	F1	25.3		mg/Kg	*	0.8	20
Iron	19000		20900		mg/Kg	*	7	20
Lead	210	F2	125	F3	mg/Kg	*	49	20
Magnesium	14000		13800		mg/Kg	*	2	20
Manganese	250		356	F3	mg/Kg	*	36	20
Nickel	30		32.8		mg/Kg	*	9	20
Potassium	1500	F1	1980	F3	mg/Kg	*	27	20
Selenium	0.46	J F1	0.515	J	mg/Kg	*	11	20
Silver	0.44	B F1	0.437		mg/Kg	*	2	20
Sodium	3000		2810		mg/Kg	*	7	20
Thallium	<0.57		0.323	J	mg/Kg	*	NC	20
Vanadium	21		24.1		mg/Kg	*	12	20
Zinc	110	F1	101		mg/Kg	*	6	20

Lab Sample ID: LB 500-686386/1-B
Matrix: Solid
Analysis Batch: 687914

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 686618

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		11/22/22 18:39	12/01/22 15:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 18:39	12/01/22 15:15	1
Boron	0.278	J	0.50	0.050	mg/L		11/22/22 18:39	12/01/22 15:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 18:39	12/01/22 15:15	1
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 15:15	1
Cobalt	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 15:15	1
Iron	<0.40		0.40	0.20	mg/L		11/22/22 18:39	12/01/22 15:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 18:39	12/01/22 15:15	1
Manganese	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 15:15	1
Nickel	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 15:15	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 18:39	12/01/22 15:15	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 15:15	1
Zinc	<0.50		0.50	0.020	mg/L		11/22/22 18:39	12/01/22 15:15	1

Lab Sample ID: LB 500-686389/1-B
Matrix: Solid
Analysis Batch: 687979

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 686621

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Iron	<0.20		0.20	0.20	mg/L		11/22/22 19:39	12/02/22 11:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 19:39	12/02/22 11:48	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-686389/1-B
Matrix: Solid
Analysis Batch: 687979

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 686621

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		11/22/22 19:39	12/02/22 11:48	1

Lab Sample ID: 500-225488-8 MS
Matrix: Solid
Analysis Batch: 687979

Client Sample ID: 1401V3-19-B06 (5-9)
Prep Type: SPLP East
Prep Batch: 686621

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.24		1.00	1.39		mg/L		114	75 - 125
Lead	<0.0075		0.100	0.101		mg/L		101	75 - 125
Manganese	<0.025		0.500	0.519		mg/L		104	75 - 125

Lab Sample ID: 500-225488-8 DU
Matrix: Solid
Analysis Batch: 687979

Client Sample ID: 1401V3-19-B06 (5-9)
Prep Type: SPLP East
Prep Batch: 686621

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	0.24		0.283		mg/L		16	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	<0.025		<0.025		mg/L		NC	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-686618/2-A
Matrix: Solid
Analysis Batch: 687529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686618

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.465		mg/L		93	80 - 120
Thallium	0.100	0.0988		mg/L		99	80 - 120

Lab Sample ID: LB 500-686386/1-B
Matrix: Solid
Analysis Batch: 687529

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 686618

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 18:39	11/29/22 18:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 18:39	11/29/22 18:13	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-686822/11-A
Matrix: Solid
Analysis Batch: 687111

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686822

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 16:20	11/28/22 13:18	1

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LCS 500-686822/13-A
Matrix: Solid
Analysis Batch: 687111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686822

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00195		mg/L		98	80 - 120

Lab Sample ID: LB 500-686386/1-C
Matrix: Solid
Analysis Batch: 687111

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 686822

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 16:20	11/28/22 13:20	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-687933/12-A
Matrix: Solid
Analysis Batch: 688226

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687933

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		12/02/22 15:35	12/05/22 06:38	1

Lab Sample ID: LCS 500-687933/13-A
Matrix: Solid
Analysis Batch: 688226

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687933

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.149		mg/Kg		90	80 - 120

Lab Sample ID: 500-225488-11 MS
Matrix: Solid
Analysis Batch: 688226

Client Sample ID: 1401V3-19-B08 (0-6)
Prep Type: Total/NA
Prep Batch: 687933

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.023		0.0982	0.114		mg/Kg	☼	93	75 - 125

Lab Sample ID: 500-225488-11 MSD
Matrix: Solid
Analysis Batch: 688226

Client Sample ID: 1401V3-19-B08 (0-6)
Prep Type: Total/NA
Prep Batch: 687933

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.023		0.0978	0.123		mg/Kg	☼	102	75 - 125	7	20

Lab Sample ID: 500-225488-11 DU
Matrix: Solid
Analysis Batch: 688226

Client Sample ID: 1401V3-19-B08 (0-6)
Prep Type: Total/NA
Prep Batch: 687933

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.023			0.0357	F5	mg/Kg	☼			43	20

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B02 (0-5)

Lab Sample ID: 500-225488-1

Date Collected: 11/15/22 10:15

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686389	AW	EET CHI	11/21/22 12:03 - 11/22/22 06:03 ¹
SPLP East	Prep	3010A			686621	LMB	EET CHI	11/22/22 19:39 - 11/22/22 20:09 ¹
SPLP East	Analysis	6010B		1	687979	JJB	EET CHI	12/02/22 12:10
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6010B		1	687914	JJB	EET CHI	12/01/22 15:41
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 18:21
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686822	MJG	EET CHI	11/23/22 16:20 - 11/23/22 18:20 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 13:35
Total/NA	Analysis	9045D		1	686168	LWN	EET CHI	11/20/22 18:33
Total/NA	Analysis	Moisture		1	687265	LWN	EET CHI	11/29/22 10:00

Client Sample ID: 1401V3-19-B02 (0-5)

Lab Sample ID: 500-225488-1

Date Collected: 11/15/22 10:15

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372778	MZR8	EET CF	11/16/22 08:00
Total/NA	Prep	5035			372637	MZR8	EET CF	11/21/22 08:33
Total/NA	Analysis	8260D		1	372638	MZR8	EET CF	11/22/22 13:18
Total/NA	Prep	3541			686915	EK	EET CHI	11/27/22 09:04 - 11/27/22 12:00 ¹
Total/NA	Analysis	8270D		1	687960	SS	EET CHI	12/02/22 17:07
Total/NA	Prep	3050B			687739	BDE	EET CHI	12/01/22 11:03 - 12/01/22 11:33 ¹
Total/NA	Analysis	6010B		1	688271	JJB	EET CHI	12/05/22 13:20
Total/NA	Prep	7471B			687933	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 06:41

Client Sample ID: 1401V3-19-B02 (5-9)

Lab Sample ID: 500-225488-2

Date Collected: 11/15/22 10:25

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686389	AW	EET CHI	11/21/22 12:03 - 11/22/22 06:03 ¹
SPLP East	Prep	3010A			686621	LMB	EET CHI	11/22/22 19:39 - 11/22/22 20:09 ¹
SPLP East	Analysis	6010B		1	687979	JJB	EET CHI	12/02/22 12:13
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6010B		1	687914	JJB	EET CHI	12/01/22 15:50
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 18:23

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B02 (5-9)

Lab Sample ID: 500-225488-2

Date Collected: 11/15/22 10:25

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686822	MJG	EET CHI	11/23/22 16:20 - 11/23/22 18:20 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 13:42
Total/NA	Analysis	9045D		1	686168	LWN	EET CHI	11/20/22 18:36
Total/NA	Analysis	Moisture		1	687265	LWN	EET CHI	11/29/22 10:00

Client Sample ID: 1401V3-19-B02 (5-9)

Lab Sample ID: 500-225488-2

Date Collected: 11/15/22 10:25

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372778	MZR8	EET CF	11/16/22 08:00
Total/NA	Prep	5035			372637	MZR8	EET CF	11/21/22 08:33
Total/NA	Analysis	8260D		1	372638	MZR8	EET CF	11/22/22 13:43
Total/NA	Prep	3541			686915	EK	EET CHI	11/27/22 09:04 - 11/27/22 12:00 ¹
Total/NA	Analysis	8270D		1	687960	SS	EET CHI	12/02/22 17:30
Total/NA	Prep	3050B			687739	BDE	EET CHI	12/01/22 11:03 - 12/01/22 11:33 ¹
Total/NA	Analysis	6010B		1	688271	JJJ	EET CHI	12/05/22 13:35
Total/NA	Prep	7471B			687933	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 06:44

Client Sample ID: 1401V3-19-B04 (0-5)

Lab Sample ID: 500-225488-3

Date Collected: 11/15/22 10:35

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686389	AW	EET CHI	11/21/22 12:03 - 11/22/22 06:03 ¹
SPLP East	Prep	3010A			686621	LMB	EET CHI	11/22/22 19:39 - 11/22/22 20:09 ¹
SPLP East	Analysis	6010B		1	687979	JJJ	EET CHI	12/02/22 12:16
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6010B		1	687914	JJJ	EET CHI	12/01/22 15:53
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 18:31
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686822	MJG	EET CHI	11/23/22 16:20 - 11/23/22 18:20 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 13:44
Total/NA	Analysis	9045D		1	686168	LWN	EET CHI	11/20/22 18:38
Total/NA	Analysis	Moisture		1	687265	LWN	EET CHI	11/29/22 10:00

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B04 (0-5)

Lab Sample ID: 500-225488-3

Date Collected: 11/15/22 10:35

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372778	MZR8	EET CF	11/16/22 08:00
Total/NA	Prep	5035			372637	MZR8	EET CF	11/21/22 08:33
Total/NA	Analysis	8260D		1	372638	MZR8	EET CF	11/22/22 14:08
Total/NA	Prep	3541			686915	EK	EET CHI	11/27/22 09:04 - 11/27/22 12:00 ¹
Total/NA	Analysis	8270D		1	687960	SS	EET CHI	12/02/22 17:53
Total/NA	Prep	3050B			687739	BDE	EET CHI	12/01/22 11:03 - 12/01/22 11:33 ¹
Total/NA	Analysis	6010B		1	688271	JJJ	EET CHI	12/05/22 13:39
Total/NA	Prep	7471B			687933	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 06:46

Client Sample ID: 1401V3-19-B04 (5-9)

Lab Sample ID: 500-225488-4

Date Collected: 11/15/22 10:45

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686389	AW	EET CHI	11/21/22 12:03 - 11/22/22 06:03 ¹
SPLP East	Prep	3010A			686621	LMB	EET CHI	11/22/22 19:39 - 11/22/22 20:09 ¹
SPLP East	Analysis	6010B		1	687979	JJJ	EET CHI	12/02/22 12:19
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6010B		1	687914	JJJ	EET CHI	12/01/22 15:57
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 18:33
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686822	MJG	EET CHI	11/23/22 16:20 - 11/23/22 18:20 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 13:46
Total/NA	Analysis	9045D		1	686411	EH	EET CHI	11/22/22 10:58 - 11/22/22 11:08 ¹
Total/NA	Analysis	Moisture		1	687265	LWN	EET CHI	11/29/22 10:00

Client Sample ID: 1401V3-19-B04 (5-9)

Lab Sample ID: 500-225488-4

Date Collected: 11/15/22 10:45

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372778	MZR8	EET CF	11/16/22 08:00
Total/NA	Prep	5035			372637	MZR8	EET CF	11/21/22 08:33
Total/NA	Analysis	8260D		1	372638	MZR8	EET CF	11/22/22 14:33
Total/NA	Prep	3541			686915	EK	EET CHI	11/27/22 09:04 - 11/27/22 12:00 ¹
Total/NA	Analysis	8270D		1	687960	SS	EET CHI	12/02/22 18:16
Total/NA	Prep	3050B			687739	BDE	EET CHI	12/01/22 11:03 - 12/01/22 11:33 ¹
Total/NA	Analysis	6010B		1	688271	JJJ	EET CHI	12/05/22 13:42
Total/NA	Prep	7471B			687933	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 06:48

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B05 (0-5)

Lab Sample ID: 500-225488-5

Date Collected: 11/15/22 11:05

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686389	AW	EET CHI	11/21/22 12:03 - 11/22/22 06:03 ¹
SPLP East	Prep	3010A			686621	LMB	EET CHI	11/22/22 19:39 - 11/22/22 20:09 ¹
SPLP East	Analysis	6010B		1	687979	JJB	EET CHI	12/02/22 12:22
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6010B		1	687914	JJB	EET CHI	12/01/22 16:00
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 18:35
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686822	MJG	EET CHI	11/23/22 16:20 - 11/23/22 18:20 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 13:48
Total/NA	Analysis	9045D		1	686168	LWN	EET CHI	11/20/22 18:43
Total/NA	Analysis	Moisture		1	687265	LWN	EET CHI	11/29/22 10:00

Client Sample ID: 1401V3-19-B05 (0-5)

Lab Sample ID: 500-225488-5

Date Collected: 11/15/22 11:05

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372778	MZR8	EET CF	11/16/22 08:00
Total/NA	Prep	5035			372637	MZR8	EET CF	11/21/22 08:33
Total/NA	Analysis	8260D		1	372638	MZR8	EET CF	11/22/22 14:58
Total/NA	Prep	3541			686915	EK	EET CHI	11/27/22 09:04 - 11/27/22 12:00 ¹
Total/NA	Analysis	8270D		1	687960	SS	EET CHI	12/02/22 19:25
Total/NA	Prep	3050B			687739	BDE	EET CHI	12/01/22 11:03 - 12/01/22 11:33 ¹
Total/NA	Analysis	6010B		1	688271	JJB	EET CHI	12/05/22 13:45
Total/NA	Prep	7471B			687933	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 06:50

Client Sample ID: 1401V3-19-B05 (5-9)

Lab Sample ID: 500-225488-6

Date Collected: 11/15/22 11:15

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686389	AW	EET CHI	11/21/22 12:03 - 11/22/22 06:03 ¹
SPLP East	Prep	3010A			686621	LMB	EET CHI	11/22/22 19:39 - 11/22/22 20:09 ¹
SPLP East	Analysis	6010B		1	687979	JJB	EET CHI	12/02/22 12:25
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6010B		1	687914	JJB	EET CHI	12/01/22 16:03
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 18:37

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B05 (5-9)

Lab Sample ID: 500-225488-6

Date Collected: 11/15/22 11:15

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686822	MJG	EET CHI	11/23/22 16:20 - 11/23/22 18:20 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 13:50
Total/NA	Analysis	9045D		1	686168	LWN	EET CHI	11/20/22 18:46
Total/NA	Analysis	Moisture		1	687265	LWN	EET CHI	11/29/22 10:00

Client Sample ID: 1401V3-19-B05 (5-9)

Lab Sample ID: 500-225488-6

Date Collected: 11/15/22 11:15

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 80.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372778	MZR8	EET CF	11/16/22 08:00
Total/NA	Prep	5035			372637	MZR8	EET CF	11/21/22 08:33
Total/NA	Analysis	8260D		1	372638	MZR8	EET CF	11/22/22 15:22
Total/NA	Prep	3541			686915	EK	EET CHI	11/27/22 09:04 - 11/27/22 12:00 ¹
Total/NA	Analysis	8270D		1	687960	SS	EET CHI	12/02/22 19:48
Total/NA	Prep	3050B			687739	BDE	EET CHI	12/01/22 11:03 - 12/01/22 11:33 ¹
Total/NA	Analysis	6010B		1	688271	JJJ	EET CHI	12/05/22 13:54
Total/NA	Prep	7471B			687933	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 06:56

Client Sample ID: 1401V3-19-B06 (0-5)

Lab Sample ID: 500-225488-7

Date Collected: 11/15/22 11:20

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686389	AW	EET CHI	11/21/22 12:03 - 11/22/22 06:03 ¹
SPLP East	Prep	3010A			686621	LMB	EET CHI	11/22/22 19:39 - 11/22/22 20:09 ¹
SPLP East	Analysis	6010B		1	687979	JJJ	EET CHI	12/02/22 12:28
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6010B		1	687914	JJJ	EET CHI	12/01/22 16:06
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 18:39
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686822	MJG	EET CHI	11/23/22 16:20 - 11/23/22 18:20 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 13:52
Total/NA	Analysis	9045D		1	686168	LWN	EET CHI	11/20/22 18:51
Total/NA	Analysis	Moisture		1	687265	LWN	EET CHI	11/29/22 10:00

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B06 (0-5)

Lab Sample ID: 500-225488-7

Date Collected: 11/15/22 11:20

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372778	MZR8	EET CF	11/16/22 08:00
Total/NA	Prep	5035			372637	MZR8	EET CF	11/21/22 08:33
Total/NA	Analysis	8260D		1	372638	MZR8	EET CF	11/22/22 15:47
Total/NA	Prep	3541			686915	EK	EET CHI	11/27/22 09:04 - 11/27/22 12:00 ¹
Total/NA	Analysis	8270D		1	687960	SS	EET CHI	12/02/22 20:11
Total/NA	Prep	3050B			687739	BDE	EET CHI	12/01/22 11:03 - 12/01/22 11:33 ¹
Total/NA	Analysis	6010B		1	688271	JJB	EET CHI	12/05/22 13:57
Total/NA	Prep	7471B			687933	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 06:57

Client Sample ID: 1401V3-19-B06 (5-9)

Lab Sample ID: 500-225488-8

Date Collected: 11/15/22 11:25

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686389	AW	EET CHI	11/21/22 12:03 - 11/22/22 06:03 ¹
SPLP East	Prep	3010A			686621	LMB	EET CHI	11/22/22 19:39 - 11/22/22 20:09 ¹
SPLP East	Analysis	6010B		1	687979	JJB	EET CHI	12/02/22 12:38
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6010B		1	687914	JJB	EET CHI	12/01/22 16:10
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 18:41
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686822	MJG	EET CHI	11/23/22 16:20 - 11/23/22 18:20 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 13:54
Total/NA	Analysis	9045D		1	686168	LWN	EET CHI	11/20/22 18:53
Total/NA	Analysis	Moisture		1	687265	LWN	EET CHI	11/29/22 10:00

Client Sample ID: 1401V3-19-B06 (5-9)

Lab Sample ID: 500-225488-8

Date Collected: 11/15/22 11:25

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372778	MZR8	EET CF	11/16/22 08:00
Total/NA	Prep	5035			372637	MZR8	EET CF	11/21/22 08:33
Total/NA	Analysis	8260D		1	372638	MZR8	EET CF	11/22/22 16:12
Total/NA	Prep	3541			686915	EK	EET CHI	11/27/22 09:04 - 11/27/22 12:00 ¹
Total/NA	Analysis	8270D		1	687960	SS	EET CHI	12/02/22 20:34
Total/NA	Prep	3050B			687739	BDE	EET CHI	12/01/22 11:03 - 12/01/22 11:33 ¹
Total/NA	Analysis	6010B		1	688271	JJB	EET CHI	12/05/22 14:01
Total/NA	Prep	3050B			687739	BDE	EET CHI	12/01/22 11:03 - 12/01/22 11:33 ¹
Total/NA	Analysis	6010B		2	688392	JJB	EET CHI	12/05/22 17:50

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B06 (5-9)

Lab Sample ID: 500-225488-8

Date Collected: 11/15/22 11:25

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			687933	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 06:59

Client Sample ID: 1401V3-19-B07 (0-5)

Lab Sample ID: 500-225488-9

Date Collected: 11/15/22 11:40

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686389	AW	EET CHI	11/21/22 12:03 - 11/22/22 06:03 ¹
SPLP East	Prep	3010A			686621	LMB	EET CHI	11/22/22 19:39 - 11/22/22 20:09 ¹
SPLP East	Analysis	6010B		1	687979	JJJ	EET CHI	12/02/22 12:51
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6010B		1	687914	JJJ	EET CHI	12/01/22 16:13
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 18:43
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686822	MJG	EET CHI	11/23/22 16:20 - 11/23/22 18:20 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 13:56
Total/NA	Analysis	9045D		1	686168	LWN	EET CHI	11/20/22 18:56
Total/NA	Analysis	Moisture		1	687265	LWN	EET CHI	11/29/22 10:00

Client Sample ID: 1401V3-19-B07 (0-5)

Lab Sample ID: 500-225488-9

Date Collected: 11/15/22 11:40

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372778	MZR8	EET CF	11/16/22 08:00
Total/NA	Prep	5035			372637	MZR8	EET CF	11/21/22 08:33
Total/NA	Analysis	8260D		1	372638	MZR8	EET CF	11/22/22 16:37
Total/NA	Prep	3541			686915	EK	EET CHI	11/27/22 09:04 - 11/27/22 12:00 ¹
Total/NA	Analysis	8270D		1	687960	SS	EET CHI	12/02/22 20:57
Total/NA	Prep	3050B			687739	BDE	EET CHI	12/01/22 11:03 - 12/01/22 11:33 ¹
Total/NA	Analysis	6010B		1	688271	JJJ	EET CHI	12/05/22 14:04
Total/NA	Prep	3050B			687739	BDE	EET CHI	12/01/22 11:03 - 12/01/22 11:33 ¹
Total/NA	Analysis	6010B		2	688392	JJJ	EET CHI	12/05/22 17:53
Total/NA	Prep	7471B			687933	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 07:01

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B07 (5-9)

Lab Sample ID: 500-225488-10

Date Collected: 11/15/22 11:45

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686389	AW	EET CHI	11/21/22 12:03 - 11/22/22 06:03 ¹
SPLP East	Prep	3010A			686621	LMB	EET CHI	11/22/22 19:39 - 11/22/22 20:09 ¹
SPLP East	Analysis	6010B		1	687979	JJB	EET CHI	12/02/22 12:54
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6010B		1	687914	JJB	EET CHI	12/01/22 16:16
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 18:45
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686822	MJG	EET CHI	11/23/22 16:20 - 11/23/22 18:20 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 13:59
Total/NA	Analysis	9045D		1	686168	LWN	EET CHI	11/20/22 18:58
Total/NA	Analysis	Moisture		1	687265	LWN	EET CHI	11/29/22 10:00

Client Sample ID: 1401V3-19-B07 (5-9)

Lab Sample ID: 500-225488-10

Date Collected: 11/15/22 11:45

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 78.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372778	MZR8	EET CF	11/16/22 08:00
Total/NA	Prep	5035			372637	MZR8	EET CF	11/21/22 08:33
Total/NA	Analysis	8260D		1	372638	MZR8	EET CF	11/22/22 17:02
Total/NA	Prep	3541			686915	EK	EET CHI	11/27/22 09:04 - 11/27/22 12:00 ¹
Total/NA	Analysis	8270D		1	687960	SS	EET CHI	12/02/22 21:20
Total/NA	Prep	3050B			687739	BDE	EET CHI	12/01/22 11:03 - 12/01/22 11:33 ¹
Total/NA	Analysis	6010B		1	688271	JJB	EET CHI	12/05/22 14:07
Total/NA	Prep	7471B			687933	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 07:03

Client Sample ID: 1401V3-19-B08 (0-6)

Lab Sample ID: 500-225488-11

Date Collected: 11/15/22 11:55

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686389	AW	EET CHI	11/21/22 12:03 - 11/22/22 06:03 ¹
SPLP East	Prep	3010A			686621	LMB	EET CHI	11/22/22 19:39 - 11/22/22 20:09 ¹
SPLP East	Analysis	6010B		1	687979	JJB	EET CHI	12/02/22 12:57
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6010B		1	687914	JJB	EET CHI	12/01/22 16:19
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 18:47

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B08 (0-6)

Lab Sample ID: 500-225488-11

Date Collected: 11/15/22 11:55

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686822	MJG	EET CHI	11/23/22 16:20 - 11/23/22 18:20 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 14:01
Total/NA	Analysis	9045D		1	686411	EH	EET CHI	11/22/22 11:08 - 11/22/22 11:19 ¹
Total/NA	Analysis	Moisture		1	687265	LWN	EET CHI	11/29/22 10:00

Client Sample ID: 1401V3-19-B08 (0-6)

Lab Sample ID: 500-225488-11

Date Collected: 11/15/22 11:55

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 77.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372778	MZR8	EET CF	11/16/22 08:00
Total/NA	Prep	5035			372826	MZR8	EET CF	11/22/22 11:52
Total/NA	Analysis	8260D		1	372827	MZR8	EET CF	11/22/22 20:21
Total/NA	Prep	3541			686915	EK	EET CHI	11/27/22 09:04 - 11/27/22 12:00 ¹
Total/NA	Analysis	8270D		1	687960	SS	EET CHI	12/02/22 21:43
Total/NA	Prep	3050B			687739	BDE	EET CHI	12/01/22 11:03 - 12/01/22 11:33 ¹
Total/NA	Analysis	6010B		1	688271	JJB	EET CHI	12/05/22 14:10
Total/NA	Prep	7471B			687933	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 07:05

Client Sample ID: 1401V3-19-B08 (0-6)D

Lab Sample ID: 500-225488-12

Date Collected: 11/15/22 12:00

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6010B		1	687914	JJB	EET CHI	12/01/22 16:29
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 18:49
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686822	MJG	EET CHI	11/23/22 16:20 - 11/23/22 18:20 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 14:26
Total/NA	Analysis	9045D		1	686411	EH	EET CHI	11/22/22 11:19 - 11/22/22 11:29 ¹
Total/NA	Analysis	Moisture		1	687265	LWN	EET CHI	11/29/22 10:00

Client Sample ID: 1401V3-19-B08 (0-6)D

Lab Sample ID: 500-225488-12

Date Collected: 11/15/22 12:00

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372778	MZR8	EET CF	11/16/22 08:00
Total/NA	Prep	5035			372826	MZR8	EET CF	11/22/22 11:52
Total/NA	Analysis	8260D		1	372827	MZR8	EET CF	11/22/22 20:45

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B08 (0-6D)

Lab Sample ID: 500-225488-12

Date Collected: 11/15/22 12:00

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			686915	EK	EET CHI	11/27/22 09:04 - 11/27/22 12:00 ¹
Total/NA	Analysis	8270D		1	687960	SS	EET CHI	12/02/22 22:06
Total/NA	Prep	3050B			687739	BDE	EET CHI	12/01/22 11:03 - 12/01/22 11:33 ¹
Total/NA	Analysis	6010B		1	688271	JJB	EET CHI	12/05/22 14:13
Total/NA	Prep	7471B			687933	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 07:13

Client Sample ID: 1401V3-19-B09 (0-6)

Lab Sample ID: 500-225488-13

Date Collected: 11/15/22 12:10

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686389	AW	EET CHI	11/21/22 12:03 - 11/22/22 06:03 ¹
SPLP East	Prep	3010A			686621	LMB	EET CHI	11/22/22 19:39 - 11/22/22 20:09 ¹
SPLP East	Analysis	6010B		1	687979	JJB	EET CHI	12/02/22 13:03
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6010B		1	687914	JJB	EET CHI	12/01/22 16:32
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 18:55
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686822	MJG	EET CHI	11/23/22 16:20 - 11/23/22 18:20 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 14:28
Total/NA	Analysis	9045D		1	686168	LWN	EET CHI	11/20/22 19:05
Total/NA	Analysis	Moisture		1	687268	LWN	EET CHI	11/29/22 10:33

Client Sample ID: 1401V3-19-B09 (0-6)

Lab Sample ID: 500-225488-13

Date Collected: 11/15/22 12:10

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 79.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372778	MZR8	EET CF	11/16/22 08:00
Total/NA	Prep	5035			372826	MZR8	EET CF	11/22/22 11:52
Total/NA	Analysis	8260D		1	372827	MZR8	EET CF	11/22/22 21:10
Total/NA	Prep	3541			686915	EK	EET CHI	11/27/22 09:04 - 11/27/22 12:00 ¹
Total/NA	Analysis	8270D		1	687960	SS	EET CHI	12/02/22 22:29
Total/NA	Prep	3050B			687739	BDE	EET CHI	12/01/22 11:03 - 12/01/22 11:33 ¹
Total/NA	Analysis	6010B		1	688271	JJB	EET CHI	12/05/22 14:16
Total/NA	Prep	7471B			687933	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 07:18

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B10 (0-6)

Lab Sample ID: 500-225488-14

Date Collected: 11/15/22 12:20

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686389	AW	EET CHI	11/21/22 12:03 - 11/22/22 06:03 ¹
SPLP East	Prep	3010A			686621	LMB	EET CHI	11/22/22 19:39 - 11/22/22 20:09 ¹
SPLP East	Analysis	6010B		1	687979	JJB	EET CHI	12/02/22 13:07
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6010B		1	687914	JJB	EET CHI	12/01/22 16:35
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 18:57
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686822	MJG	EET CHI	11/23/22 16:20 - 11/23/22 18:20 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 14:30
Total/NA	Analysis	9045D		1	686168	LWN	EET CHI	11/20/22 19:08
Total/NA	Analysis	Moisture		1	687268	LWN	EET CHI	11/29/22 10:33

Client Sample ID: 1401V3-19-B10 (0-6)

Lab Sample ID: 500-225488-14

Date Collected: 11/15/22 12:20

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372778	MZR8	EET CF	11/16/22 08:00
Total/NA	Prep	5035			372826	MZR8	EET CF	11/22/22 11:52
Total/NA	Analysis	8260D		1	372827	MZR8	EET CF	11/22/22 21:35
Total/NA	Prep	3541			686915	EK	EET CHI	11/27/22 09:04 - 11/27/22 12:00 ¹
Total/NA	Analysis	8270D		1	687960	SS	EET CHI	12/02/22 22:52
Total/NA	Prep	3050B			687739	BDE	EET CHI	12/01/22 11:03 - 12/01/22 11:33 ¹
Total/NA	Analysis	6010B		1	688271	JJB	EET CHI	12/05/22 14:19
Total/NA	Prep	3050B			687739	BDE	EET CHI	12/01/22 11:03 - 12/01/22 11:33 ¹
Total/NA	Analysis	6010B		50	688392	JJB	EET CHI	12/05/22 17:57
Total/NA	Prep	7471B			687933	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 07:20

Client Sample ID: 1401V3-19-B11 (0-6)

Lab Sample ID: 500-225488-15

Date Collected: 11/15/22 12:45

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686389	AW	EET CHI	11/21/22 12:03 - 11/22/22 06:03 ¹
SPLP East	Prep	3010A			686621	LMB	EET CHI	11/22/22 19:39 - 11/22/22 20:09 ¹
SPLP East	Analysis	6010B		1	687979	JJB	EET CHI	12/02/22 13:16
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6010B		1	687914	JJB	EET CHI	12/01/22 16:39
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 18:59

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Client Sample ID: 1401V3-19-B11 (0-6)

Lab Sample ID: 500-225488-15

Date Collected: 11/15/22 12:45

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686822	MJG	EET CHI	11/23/22 16:20 - 11/23/22 18:20 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 14:32
Total/NA	Analysis	9045D		1	686168	LWN	EET CHI	11/20/22 19:10
Total/NA	Analysis	Moisture		1	687268	LWN	EET CHI	11/29/22 10:33

Client Sample ID: 1401V3-19-B11 (0-6)

Lab Sample ID: 500-225488-15

Date Collected: 11/15/22 12:45

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372778	MZR8	EET CF	11/16/22 08:00
Total/NA	Prep	5035			372826	MZR8	EET CF	11/22/22 11:52
Total/NA	Analysis	8260D		1	372827	MZR8	EET CF	11/22/22 22:00
Total/NA	Prep	3541			686915	EK	EET CHI	11/27/22 09:04 - 11/27/22 12:00 ¹
Total/NA	Analysis	8270D		1	687960	SS	EET CHI	12/02/22 23:15
Total/NA	Prep	3050B			687739	BDE	EET CHI	12/01/22 11:03 - 12/01/22 11:33 ¹
Total/NA	Analysis	6010B		1	688271	JJB	EET CHI	12/05/22 14:22
Total/NA	Prep	3050B			687739	BDE	EET CHI	12/01/22 11:03 - 12/01/22 11:33 ¹
Total/NA	Analysis	6010B		2	688392	JJB	EET CHI	12/05/22 18:00
Total/NA	Prep	7471B			687933	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 07:22

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225488-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

Laboratory: Eurofins Cedar Falls

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Colorado	Petroleum Storage Tank Program	IA100001 (OR)	09-29-23
Georgia	State	IA100001 (OR)	09-29-23
Illinois	NELAP	200024	11-28-22
Iowa	State	007	12-01-23
Kansas	NELAP	E-10341	01-31-23
Minnesota	NELAP	019-999-319	12-31-22
Minnesota (Petrofund)	State	3349	01-18-24
North Dakota	State	R-186	09-29-23
Oregon	NELAP	IA100001	09-29-23

Chain of Custody Record

522945



Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager <i>D. Trehout</i>		Site Contact <i>A. Hopper</i>		Date <i>11/15/22</i>		COC No <i>1</i>		
Company Name <i>WSP</i>		Tel/Email		Lab Contact <i>R. Wright</i>		Carrier		1 of 4 COCs		
Address <i>30 N. LaSalle</i>		Analysis Turnaround Time								
City/State/Zip <i>Chicago IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____								
Phone		<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day								
Fax		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ PH _____ Solids _____ VOLS _____ SWILLS _____ TDION METHODS _____ TCLP* _____								
Project Name <i>1001 W013 - Buttrick rd rd</i>										
Site <i>31403035 LIS</i>										
PO#										
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	500-225488 COC		Sample Specific Notes	
1	1401V3-19-B02 (0-5)	11/15/22	1015	C	S	2	X	X	X	
2	1401V3-19-B02 (5-9)	11/15/22	1025	C	S	2	X	X	X	
3	1401V3-19-B04 (0-5)	11/15/22	1035	C	S	2	X	X	X	
4	1401V3-19-B04 (5-9)	11/15/22	1045	C	S	2	X	X	X	
5	1401V3-19-B05 (0-5)	11/15/22	1105	C	S	2	X	X	X	
6	1401V3-19-B05 (5-9)	11/15/22	1115	C	S	2	X	X	X	
7	1401V3-19-B06 (0-5)	11/15/22	1120	C	S	2	X	X	X	
8	1401V3-19-B06 (5-9)	11/15/22	1125	C	S	2	X	X	X	
9	1401V3-19-B07 (0-5)	11/15/22	1140	C	S	2	X	X	X	
10	1401V3-19-B07 (5-9)	11/15/22	1145	C	S	2	X	X	X	
11	1401V3-19-B08 (0-6)	11/15/22	1155	C	S	2	X	X	X	
12	1401V3-19-B08 (0-6) RUP	11/15/22	1200	C	S	2	X	X	X	
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)								
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample		<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months								
<input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown										
Special Instructions/QC Requirements & Comments										
* SLP analysis based on TCLP results 3.2 → 3.4, 4.6 → 7.8										
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd		Cor'd		Therm ID No		
Re-incubated by <i>Judy Hopper</i>		Company <i>WSP</i>		Date/Time <i>11/15/22 1650</i>		Received by <i>[Signature]</i>		Company <i>ERTW</i>		
Re-incubated by <i>[Signature]</i>		Company <i>ERTW</i>		Date/Time <i>11/15/22</i>		Received by <i>[Signature]</i>		Company <i>EETA</i>		
Re-incubated by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>11/15/22 1826</i>		Received in Laboratory by <i>[Signature]</i>		Company <i>EETA</i>		

Chain of Custody Record

525096



Environment Testing
TestAmerica

- 1
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- 14
- 15

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager <i>D. The Best</i>		Site Contact <i>A. Haggel</i>		Date <i>11/15/22</i>		COC No <i>2</i>	
Company Name <i>WSP</i>		Tel/Email:		Lab Contact <i>R. Wright</i>		Carrier:		<i>2</i> of <i>4</i> COCs	
Address <i>30 N. LaSalle</i>		Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____							
City/State/Zip <i>Chicago IL</i>									
Phone		<input type="checkbox"/> 2 weeks		Filtered Sample (Y/N) Perform MS / MSD (Y/N)		<i>pH</i> <i>7 Solids</i> <i>VOES</i> <i>SUBC1</i> <i>Total Metals</i> <i>TCLP X</i>		Sampler	
Fax		<input type="checkbox"/> 1 week						For Lab Use Only	
Project Name		<input type="checkbox"/> 2 days						Walk-in Client	
Site		<input type="checkbox"/> 1 day						Lab Sampling	
P.O.#								Job / SDG No <i>500-</i>	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes		
<i>13</i>	<i>1401V3-1A-B09(0-6)</i>	<i>11/15/22</i>	<i>1210</i>	<i>C</i>	<i>S</i>	<i>2</i>			
<i>14</i>	<i>1401V3-1A-B10(0-6)</i>	<i>11/15/22</i>	<i>1220</i>	<i>C</i>	<i>S</i>	<i>2</i>			
<i>15</i>	<i>1401V3-1A-B11(0-6)</i>	<i>11/15/22</i>	<i>1245</i>	<i>C</i>	<i>S</i>	<i>2</i>			
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazardous <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments: <i>* SPLP analysis based on TCLP results</i>									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd		Corr'd		Therm ID No	
Relinquished by <i>[Signature]</i>		Company <i>WSP</i>		Date/Time <i>11/15/22 16:50</i>		Received by <i>[Signature]</i>		Company <i>BEINZ</i>	
Relinquished by <i>[Signature]</i>		Company <i>BEINZ</i>		Date/Time <i>11/15/22 16:50</i>		Received by <i>[Signature]</i>		Company <i>EETA</i>	
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>11/15/22 18:26</i>		Received by <i>[Signature]</i>		Company <i>EETA</i>	



Environment Testing
America



500-225488 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Chicago</u>			
City/State:	CITY <u>Univ Park</u>	STATE <u>IL</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>11-18-22</u>	TIME <u>1445</u>	Received By: <u>RL</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>1</u> of <u>2</u>	
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
Temperature Record			
Coolant:	<input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____	<input type="checkbox"/> NONE	
Thermometer ID:	<u>RL</u>	Correction Factor (°C):	<u>0</u>
Temp Blank Temperature - If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):	<u>1.5</u>	Corrected Temp (°C):	<u>1.5</u>
Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No			
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			





Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Chicago</u>			
City/State:	CITY <u>Urv Park</u>	STATE <u>IL</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>11-18-22</u>	TIME <u>1445</u>	Received By: <u>RL</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>2</u> of <u>2</u>	
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
<u>FW022, FW023</u>			
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>R</u>		Correction Factor (°C): <u>0</u>	
* Temp Blank Temperature - If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>0.7</u>		Corrected Temp (°C): <u>0.7</u>	
Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No			
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
Note: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



Chain of Custody Record



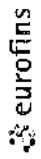
ENVIRONMENT TEST LAB



Client Information (Sub Contract Lab)		Lab Pk#: Wright, Richard	Carrier Tracking No(s): 500-167699-1																																																																																																				
Client Contact: Shipping/Receiving		E-Mail: Richard.Wright@eurofins.com	Page: Page 1 of 2																																																																																																				
Company: Eurofins Environment Testing North Center		Accreditations Required (See note): NELAP - Illinois	Job #: 500-225488-1																																																																																																				
Address: 3019 Venture Way.		Due Date Requested: 12/1/2022	Preservation Codes: M - Hexane N - None O - AsMeO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MCAA W - pH 4.5 Y - Trizma Z - other (specify) A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:																																																																																																				
City: Cedar Falls	State: IA, ZIP: 50613	PO #: 319-277-2401 (Tel) 319-277-2425 (Fax)	Analysis Requested <table border="1"> <thead> <tr> <th>Sample ID (Lab ID)</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=comp, G=grab)</th> <th>Matrix (Water, Solid, Semisolid, Emulsion, Effluents, Acid)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Parent MS/MSD (Yes or No)</th> <th>2500B/Frozen 40HR (MOD) Copy Analytes</th> <th>Total Number of Containers</th> <th>Special Instructions/Note:</th> </tr> </thead> <tbody> <tr> <td>1401V3-19-B02 (0-5) (500-225488-1)</td> <td>11/15/22</td> <td>10:15 Central</td> <td>Solid</td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>4</td> <td></td> </tr> <tr> <td>1401V3-19-B02 (5-9) (500-225488-2)</td> <td>11/15/22</td> <td>10:25 Central</td> <td>Solid</td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>4</td> <td></td> </tr> <tr> <td>1401V3-19-B04 (0-5) (500-225488-3)</td> <td>11/15/22</td> <td>10:35 Central</td> <td>Solid</td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>4</td> <td></td> </tr> <tr> <td>1401V3-19-B04 (5-9) (500-225488-4)</td> <td>11/15/22</td> <td>10:45 Central</td> <td>Solid</td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>4</td> <td></td> </tr> <tr> <td>1401V3-19-B05 (0-5) (500-225488-5)</td> <td>11/15/22</td> <td>11:05 Central</td> <td>Solid</td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>4</td> <td></td> </tr> <tr> <td>1401V3-19-B05 (5-9) (500-225488-6)</td> <td>11/15/22</td> <td>11:15 Central</td> <td>Solid</td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>4</td> <td></td> </tr> <tr> <td>1401V3-19-B06 (0-5) (500-225488-7)</td> <td>11/15/22</td> <td>11:20 Central</td> <td>Solid</td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>4</td> <td></td> </tr> <tr> <td>1401V3-19-B06 (5-9) (500-225488-8)</td> <td>11/15/22</td> <td>11:25 Central</td> <td>Solid</td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>4</td> <td></td> </tr> <tr> <td>1401V3-19-B07 (0-5) (500-225488-9)</td> <td>11/15/22</td> <td>11:40 Central</td> <td>Solid</td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>4</td> <td></td> </tr> </tbody> </table>	Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Semisolid, Emulsion, Effluents, Acid)	Field Filtered Sample (Yes or No)	Parent MS/MSD (Yes or No)	2500B/Frozen 40HR (MOD) Copy Analytes	Total Number of Containers	Special Instructions/Note:	1401V3-19-B02 (0-5) (500-225488-1)	11/15/22	10:15 Central	Solid	Solid	X	X	X	4		1401V3-19-B02 (5-9) (500-225488-2)	11/15/22	10:25 Central	Solid	Solid	X	X	X	4		1401V3-19-B04 (0-5) (500-225488-3)	11/15/22	10:35 Central	Solid	Solid	X	X	X	4		1401V3-19-B04 (5-9) (500-225488-4)	11/15/22	10:45 Central	Solid	Solid	X	X	X	4		1401V3-19-B05 (0-5) (500-225488-5)	11/15/22	11:05 Central	Solid	Solid	X	X	X	4		1401V3-19-B05 (5-9) (500-225488-6)	11/15/22	11:15 Central	Solid	Solid	X	X	X	4		1401V3-19-B06 (0-5) (500-225488-7)	11/15/22	11:20 Central	Solid	Solid	X	X	X	4		1401V3-19-B06 (5-9) (500-225488-8)	11/15/22	11:25 Central	Solid	Solid	X	X	X	4		1401V3-19-B07 (0-5) (500-225488-9)	11/15/22	11:40 Central	Solid	Solid	X	X	X	4	
Sample ID (Lab ID)	Sample Date	Sample Time		Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Semisolid, Emulsion, Effluents, Acid)	Field Filtered Sample (Yes or No)	Parent MS/MSD (Yes or No)	2500B/Frozen 40HR (MOD) Copy Analytes	Total Number of Containers	Special Instructions/Note:																																																																																													
1401V3-19-B02 (0-5) (500-225488-1)	11/15/22	10:15 Central		Solid	Solid	X	X	X	4																																																																																														
1401V3-19-B02 (5-9) (500-225488-2)	11/15/22	10:25 Central		Solid	Solid	X	X	X	4																																																																																														
1401V3-19-B04 (0-5) (500-225488-3)	11/15/22	10:35 Central		Solid	Solid	X	X	X	4																																																																																														
1401V3-19-B04 (5-9) (500-225488-4)	11/15/22	10:45 Central		Solid	Solid	X	X	X	4																																																																																														
1401V3-19-B05 (0-5) (500-225488-5)	11/15/22	11:05 Central		Solid	Solid	X	X	X	4																																																																																														
1401V3-19-B05 (5-9) (500-225488-6)	11/15/22	11:15 Central		Solid	Solid	X	X	X	4																																																																																														
1401V3-19-B06 (0-5) (500-225488-7)	11/15/22	11:20 Central		Solid	Solid	X	X	X	4																																																																																														
1401V3-19-B06 (5-9) (500-225488-8)	11/15/22	11:25 Central		Solid	Solid	X	X	X	4																																																																																														
1401V3-19-B07 (0-5) (500-225488-9)	11/15/22	11:40 Central	Solid	Solid	X	X	X	4																																																																																															
Project Name: IDOT - 196-002-WO 13 IL 56		Project #: 50020822																																																																																																					
Site:		SSOM#:																																																																																																					
Possible Hazard Identification Unconfirmed Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank. 2																																																																																																							
Empty Kit Relinquished by		Date	Method of Shipment:																																																																																																				
Relinquished by	11/18/22	0545	Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																																																																																																				
Relinquished by			Special Instructions/QC Requirements																																																																																																				
Relinquished by																																																																																																							
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:																																																																																																					



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler	Lab Piv:	Carrier Tracking NO(s):	COC No:				
Eurofins Environment Testing North Centre		Phone:	Wright, Richard	State of Origin:	500-167699.2				
3019 Venture Way,		Shipping/Receiving	E-Mail	Illinois	Page: Page 2 of 2				
City Cedar Falls		Due Date Requested:	Richard Wright@et.eurofins.com	Job #:	500-225488-1				
State, Zip: IA, 50613		TAT Requested (days):	Accreditations Required (See note):	Preservation Codes:	M - Hexane N - None O - AsksO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify):				
Phone: 319-277-2401 (Tel) 319-277-2425 (Fax)		PO #:	NELAP - Illinois	Analysis Requested	A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other				
Email:		WO #:		Special Instructions/Note:					
Project Name:		Project #:							
IDOT - 196-002-WO 13 IL 56		50020822							
Site:		SSOW#:							
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	MATRIX (W=water, S=solid, O=oil, G=gas, A=air)	Field Filtered Sample (Yes or No)	Pattern MS/MSD (Yes or No)	9260D/Frozen_48hr (MOD) Copy Analyte	Total Number of Containers	Special Instructions/Note:
1401V3-19-B07 (5-9) (500-225488-10)	11/15/22	11:45 Central	Solid	Solid	X	X		4	
1401V3-19-B08 (0-6) (500-225488-11)	11/15/22	11:55 Central	Solid	Solid	X	X		4	
1401V3-19-B08 (0-6)D (500-225488-12)	11/15/22	12:00 Central	Solid	Solid	X	X		4	
1401V3-19-B09 (0-6) (500-225488-13)	11/15/22	12:10 Central	Solid	Solid	X	X		4	
1401V3-19-B10 (0-6) (500-225488-14)	11/15/22	12:20 Central	Solid	Solid	X	X		4	
1401V3-19-B11 (0-6) (500-225488-15)	11/15/22	12:45 Central	Solid	Solid	X	X		4	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analysis & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification
 Unconfirmed Return To Client Disposal By Lab Archive For _____ Months
 Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank 2
 Special Instructions/QC Requirements

Empty Kit Relinquished by _____ Date _____ Time _____
 Relinquished by _____ Date/Time: 11/15/22 0545 Company: PENA Company
 Relinquished by _____ Date/Time: _____ Company
 Relinquished by _____ Date/Time: _____ Company
 Custody Seals Intact: _____ Cooler Temperature(s) °C and Other Remarks:



Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225488-1

Login Number: 225488

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4,4.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225488-1

Login Number: 225488

List Number: 2

Creator: Kizer, Preston V

List Source: Eurofins Cedar Falls

List Creation: 11/18/22 06:22 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 365 & FAP 870 (Butterfield Road) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

300 block of Butterfield Road (ISGS #1401V3-23)

City: Downers Grove State: IL Zip Code: 60515

County: DuPage Township: Milton

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.82859 Longitude: -88.04776

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): _____ Approximate End Date (mm/dd/yyyy): _____

Estimated Volume of debris (cu. Yd.): 949

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov



This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Analytical Data Summary
PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

Key to Data Tables

- MAC = Maximum Allowable Concentration of Chemical Constituent in Uncontaminated Soil Used as Fill Material At Regulated Fill Operations
- mg/kg = Milligrams per kilogram.
- mg/L = Milligrams per liter.
- MSA = Metropolitan Statistical Area
- TACO = Tiered Approach to Corrective Action Objectives
- TCLP = Toxicity Characteristic Leaching Procedure.
- SCGIER = Soil Component of the Groundwater Ingestion Exposure Route
- SPLP = Synthetic Precipitation Leaching Procedure.
- ND = Not detected.
- NA = Not analyzed or not applicable.
- J = Estimated value.
- U = Analyte was analyzed for but not detected.
- PID = Photoionization detector.
- = No PID readings detected above background (within instrument margin of error).

Criteria Qualifiers and Shading

- # = pH is less than 6.25 or greater than 9.0 standard units.
- † = Concentration exceeds the most stringent MAC.
- m = Concentration exceeds the MAC for an MSA.
- * = Concentration exceeds the MAC for Chicago corporate limits.
- c = Concentration exceeds a TACO Tier 1 RO for the Construction Worker Exposure Route.
- r = Concentration exceeds a TACO Tier 1 soil RO for residential properties.
- L = The detected TCLP/SPLP concentration exceeds the TACO Tier 1 RO for the SCGIER.
-  = Concentration exceeds the most stringent MAC, but is below the MAC for an MSA.
-  = Concentration exceeds applicable comparison criteria.

**PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11
CONTAMINANTS OF CONCERN**

SITE	ISGS #1401V3-23 (Utility Corridor)		Comparison Criteria					
	1401V3-23-B01		MACs			TACO		
BORING	1401V3-23-B01		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1401V3-23-B01 (0-3)	1401V3-23-B01 (3-6)						
MATRIX	Soil	Soil						
DEPTH (feet)	0-3	3-6						
pH	8.1	7.5						
PID (meter units)	--	--						
VOCs (mg/kg)								
2-Butanone (MEK)	0.0035 J	0.0031 J	--	--	--	--	--	--
Acetone	0.015 J	0.021 J	25	--	--	70,000	100,000	--
SVOCs (mg/kg)								
2-Methylnaphthalene	0.0078 J	ND U	--	--	--	--	--	--
Acenaphthene	0.011 J	ND U	570	--	0.94	4,700	120,000	--
Benzo(a)anthracene	0.016 J	ND U	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	0.015 J	ND U	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	0.012 J	ND U	0.9	2.1	13	2.1	170	--
Chrysene	0.013 J	ND U	88	--	11	88	17,000	--
Fluoranthene	0.033 J	0.0095 J	3,100	--	28	3,100	82,000	--
Fluorene	0.0091 J	ND U	560	--	1.1	3,100	82,000	--
Phenanthrene	0.032 J	ND U	--	--	15	--	--	--
Pyrene	0.031 J	0.0080 J	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)								
Antimony	0.55 J	0.46 J	5	--	--	31	82	--
Arsenic	10	9.8	11.3	13	--	13	61	--
Barium	35	48	1,500	--	--	5,500	14,000	--
Beryllium	0.72	0.81	22	--	--	160	410	--
Boron	9.3	8.3	40	--	--	16,000	41,000	--
Cadmium	0.21	0.18	5.2	--	--	78	200	--
Calcium	61,000	33,000	--	--	--	--	--	--
Chromium	13	15	21	--	--	230	690	--
Cobalt	12	13	20	--	--	4,700	12,000	--
Copper	22	27	2,900	--	--	2,900	8,200	--
Iron	18,000 †m	19,000 †m	15,000	15,900	--	--	--	--
Lead	17	19	107	--	--	400	700	--
Magnesium	31,000	21,000	325,000	--	--	--	730,000	--
Manganese	450	260	630	636	--	1,600	4,100	--
Mercury	0.022	0.016 J	0.89	--	--	10	0.1	--
Nickel	29	32	100	--	--	1,600	4,100	--
Potassium	1,800	1,900	--	--	--	--	--	--
Silver	0.25 J	0.30	4.4	--	--	390	1,000	--
Sodium	1,400	780	--	--	--	--	--	--
Thallium	0.66	0.37 J	2.6	--	--	6.3	160	--
Vanadium	17	20	550	--	--	550	1,400	--
Zinc	64	71	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)								
Barium	0.43 J	0.55	--	--	--	--	--	2
Cadmium	0.0022 J	0.0021 J	--	--	--	--	--	0.005
Cobalt	0.015 J	0.019 J	--	--	--	--	--	1
Iron	0.39 J	ND U	--	--	--	--	--	5
Manganese	6.9 L	7.6 L	--	--	--	--	--	0.15
Nickel	0.020 J	0.017 J	--	--	--	--	--	0.1
Zinc	0.024 J	0.042 J	--	--	--	--	--	5
SPLP Metals (mg/L)								
Manganese	2.5 L	0.81 L	--	--	--	--	--	0.15

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Dean Tiebot
WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602
Generated 12/12/2022 2:20:31 PM

JOB DESCRIPTION

IDOT - 196-002-WO 13 IL 56

JOB NUMBER

500-225489-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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12/12/2022 2:20:31 PM

Authorized for release by
Richard Wright, Senior Project Manager
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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225489-1

Job ID: 500-225489-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225489-1

Receipt

The samples were received on 11/15/2022 6:26 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.4° C and 4.8° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-687960 was outside the method criteria for the following analyte(s): Pentachlorophenol and Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-687960 was outside the method criteria for the following analyte(s): 2-Fluorophenol (Surr), Benzo[g,h,i]perylene, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225489-1

Client Sample ID: 1401V3-23-B01 (0-3)

Lab Sample ID: 500-225489-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.015	J	0.053	0.0097	mg/Kg	1	✳	8260D	Total/NA
2-Butanone (MEK)	0.0035	J	0.021	0.0016	mg/Kg	1	✳	8260D	Total/NA
Acenaphthene	0.011	J	0.035	0.0064	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.016	J	0.035	0.0048	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.015	J	0.035	0.0069	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.012	J	0.035	0.0077	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.013	J	0.035	0.0097	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.033	J	0.035	0.0066	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.0091	J	0.035	0.0050	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.0078	J	0.072	0.0066	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.032	J	0.035	0.0050	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.031	J	0.035	0.0071	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.55	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	10		0.56	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	35		0.56	0.063	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.72		0.22	0.052	mg/Kg	1	✳	6010B	Total/NA
Boron	9.3		2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.21		0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	61000	B	22	3.8	mg/Kg	2	✳	6010B	Total/NA
Chromium	13		0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	12		0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Copper	22		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	18000		11	5.8	mg/Kg	1	✳	6010B	Total/NA
Lead	17		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	31000		5.6	2.8	mg/Kg	1	✳	6010B	Total/NA
Manganese	450		0.56	0.081	mg/Kg	1	✳	6010B	Total/NA
Nickel	29		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	1800		28	9.8	mg/Kg	1	✳	6010B	Total/NA
Silver	0.25	J	0.28	0.072	mg/Kg	1	✳	6010B	Total/NA
Sodium	1400		56	8.2	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.66		0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Vanadium	17		0.28	0.066	mg/Kg	1	✳	6010B	Total/NA
Zinc	64		1.1	0.49	mg/Kg	1	✳	6010B	Total/NA
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.31	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.39	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	6.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.024	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	2.5		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.017	0.0056	mg/Kg	1	✳	7471B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-23-B01 (3-6)

Lab Sample ID: 500-225489-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.021	J	0.039	0.0071	mg/Kg	1	✳	8260D	Total/NA
2-Butanone (MEK)	0.0031	J	0.016	0.0012	mg/Kg	1	✳	8260D	Total/NA
Fluoranthene	0.0095	J	0.037	0.0070	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225489-1

Client Sample ID: 1401V3-23-B01 (3-6) (Continued)

Lab Sample ID: 500-225489-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Pyrene	0.0080	J	0.037	0.0075	mg/Kg	1	✳		8270D	Total/NA
Antimony	0.46	J	1.1	0.22	mg/Kg	1	✳		6010B	Total/NA
Arsenic	9.8		0.56	0.19	mg/Kg	1	✳		6010B	Total/NA
Barium	48		0.56	0.064	mg/Kg	1	✳		6010B	Total/NA
Beryllium	0.81		0.22	0.052	mg/Kg	1	✳		6010B	Total/NA
Boron	8.3		2.8	0.26	mg/Kg	1	✳		6010B	Total/NA
Cadmium	0.18		0.11	0.020	mg/Kg	1	✳		6010B	Total/NA
Calcium	33000	B	11	1.9	mg/Kg	1	✳		6010B	Total/NA
Chromium	15		0.56	0.28	mg/Kg	1	✳		6010B	Total/NA
Cobalt	13		0.28	0.073	mg/Kg	1	✳		6010B	Total/NA
Copper	27		0.56	0.16	mg/Kg	1	✳		6010B	Total/NA
Iron	19000		11	5.8	mg/Kg	1	✳		6010B	Total/NA
Lead	19		0.28	0.13	mg/Kg	1	✳		6010B	Total/NA
Magnesium	21000		5.6	2.8	mg/Kg	1	✳		6010B	Total/NA
Manganese	260		0.56	0.081	mg/Kg	1	✳		6010B	Total/NA
Nickel	32		0.56	0.16	mg/Kg	1	✳		6010B	Total/NA
Potassium	1900		28	9.9	mg/Kg	1	✳		6010B	Total/NA
Silver	0.30		0.28	0.072	mg/Kg	1	✳		6010B	Total/NA
Sodium	780		56	8.3	mg/Kg	1	✳		6010B	Total/NA
Thallium	0.37	J	0.56	0.28	mg/Kg	1	✳		6010B	Total/NA
Vanadium	20		0.28	0.066	mg/Kg	1	✳		6010B	Total/NA
Zinc	71		1.1	0.49	mg/Kg	1	✳		6010B	Total/NA
Barium	0.55		0.50	0.050	mg/L	1			6010B	TCLP
Boron	0.31	J B	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Cobalt	0.019	J	0.025	0.010	mg/L	1			6010B	TCLP
Manganese	7.6		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.017	J	0.025	0.010	mg/L	1			6010B	TCLP
Zinc	0.042	J	0.50	0.020	mg/L	1			6010B	TCLP
Manganese	0.81		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.016	J	0.017	0.0056	mg/Kg	1	✳		7471B	Total/NA
pH	7.5		0.2	0.2	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225489-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010B	Metals (ICP)	SW846	EET CHI
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
Frozen Preserve	Freezing Samples	None	EET CF

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225489-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225489-1	1401V3-23-B01 (0-3)	Solid	11/15/22 13:05	11/15/22 18:26
500-225489-2	1401V3-23-B01 (3-6)	Solid	11/15/22 13:10	11/15/22 18:26

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225489-1

Client Sample ID: 1401V3-23-B01 (0-3)

Lab Sample ID: 500-225489-1

Date Collected: 11/15/22 13:05

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 88.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.015	J	0.053	0.0097	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
Benzene	<0.0053		0.0053	0.00095	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
Bromodichloromethane	<0.0053		0.0053	0.00041	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
Bromoform	<0.011		0.011	0.00068	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
Bromomethane	<0.021		0.021	0.0017	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
2-Butanone (MEK)	0.0035	J	0.021	0.0016	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
Carbon disulfide	<0.0053		0.0053	0.0013	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
Carbon tetrachloride	<0.0053		0.0053	0.0015	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
Chlorobenzene	<0.0053		0.0053	0.00081	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
Chloroethane	<0.021		0.021	0.0038	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
Chloroform	<0.0053		0.0053	0.0018	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
Chloromethane	<0.021		0.021	0.0035	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.00079	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.00059	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
Dibromochloromethane	<0.0053		0.0053	0.00023	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
1,1-Dichloroethane	<0.0053		0.0053	0.00045	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
1,2-Dichloroethane	<0.0053		0.0053	0.00033	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
1,1-Dichloroethene	<0.0053		0.0053	0.00074	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
1,2-Dichloropropane	<0.0053		0.0053	0.00045	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
1,3-Dichloropropane, Total	<0.011		0.011	0.0012	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
Ethylbenzene	<0.0053		0.0053	0.0025	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
2-Hexanone	<0.021		0.021	0.0024	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
Methylene Chloride	<0.053		0.053	0.031	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
4-Methyl-2-pentanone (MIBK)	<0.021		0.021	0.0018	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
Methyl tert-butyl ether	<0.0053		0.0053	0.00023	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
Styrene	<0.0053		0.0053	0.0037	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
1,1,2,2-Tetrachloroethane	<0.0053		0.0053	0.00037	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
Tetrachloroethene	<0.0053		0.0053	0.0010	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
Toluene	<0.0053		0.0053	0.0035	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.00065	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.00058	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.00049	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.00034	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
Trichloroethene	<0.0053		0.0053	0.0015	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
Vinyl acetate	<0.011		0.011	0.0018	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
Vinyl chloride	<0.011		0.011	0.0037	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1
Xylenes, Total	<0.011		0.011	0.0038	mg/Kg	☼	11/22/22 11:52	11/22/22 22:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		77 - 120	11/22/22 11:52	11/22/22 22:24	1
Dibromofluoromethane (Surr)	113		80 - 123	11/22/22 11:52	11/22/22 22:24	1
Toluene-d8 (Surr)	91		76 - 120	11/22/22 11:52	11/22/22 22:24	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.011	J	0.035	0.0064	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Acenaphthylene	<0.035		0.035	0.0047	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Anthracene	<0.035		0.035	0.0060	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Benzo[a]anthracene	0.016	J	0.035	0.0048	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Benzo[a]pyrene	0.015	J	0.035	0.0069	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225489-1

Client Sample ID: 1401V3-23-B01 (0-3)

Lab Sample ID: 500-225489-1

Date Collected: 11/15/22 13:05

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 88.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	0.012	J	0.035	0.0077	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Carbazole	<0.18		0.18	0.089	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Chrysene	0.013	J	0.035	0.0097	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0069	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
2,4-Dichlorophenol	<0.35		0.35	0.085	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
2,4-Dimethylphenol	<0.35		0.35	0.14	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.29	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
2,4-Dinitrophenol	<0.72		0.72	0.63	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Fluoranthene	0.033	J	0.035	0.0066	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Fluorene	0.0091	J	0.035	0.0050	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Hexachlorobenzene	<0.072		0.072	0.0083	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Hexachlorocyclopentadiene	<0.72		0.72	0.20	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.0092	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
2-Methylnaphthalene	0.0078	J	0.072	0.0066	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Naphthalene	<0.035		0.035	0.0055	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Nitrobenzene	<0.035		0.035	0.0089	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225489-1

Client Sample ID: 1401V3-23-B01 (0-3)

Lab Sample ID: 500-225489-1

Date Collected: 11/15/22 13:05

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 88.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.072		0.072	0.044	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Pentachlorophenol	<0.72		0.72	0.57	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Phenanthrene	0.032	J	0.035	0.0050	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Phenol	<0.18		0.18	0.079	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Pyrene	0.031	J	0.035	0.0071	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	11/27/22 09:04	12/02/22 23:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	58		43 - 145				11/27/22 09:04	12/02/22 23:39	1
2-Fluorophenol (Surr)	153		31 - 166				11/27/22 09:04	12/02/22 23:39	1
Nitrobenzene-d5 (Surr)	40		37 - 147				11/27/22 09:04	12/02/22 23:39	1
Phenol-d5 (Surr)	100		30 - 153				11/27/22 09:04	12/02/22 23:39	1
Terphenyl-d14 (Surr)	110		42 - 157				11/27/22 09:04	12/02/22 23:39	1
2,4,6-Tribromophenol (Surr)	78		31 - 143				11/27/22 09:04	12/02/22 23:39	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J	1.1	0.22	mg/Kg	☼	11/29/22 15:55	12/02/22 18:47	1
Arsenic	10		0.56	0.19	mg/Kg	☼	11/29/22 15:55	12/02/22 18:47	1
Barium	35		0.56	0.063	mg/Kg	☼	11/29/22 15:55	12/02/22 18:47	1
Beryllium	0.72		0.22	0.052	mg/Kg	☼	11/29/22 15:55	12/02/22 18:47	1
Boron	9.3		2.8	0.26	mg/Kg	☼	11/29/22 15:55	12/02/22 18:47	1
Cadmium	0.21		0.11	0.020	mg/Kg	☼	11/29/22 15:55	12/02/22 18:47	1
Calcium	61000	B	22	3.8	mg/Kg	☼	11/29/22 15:55	12/05/22 15:06	2
Chromium	13		0.56	0.28	mg/Kg	☼	11/29/22 15:55	12/02/22 18:47	1
Cobalt	12		0.28	0.073	mg/Kg	☼	11/29/22 15:55	12/02/22 18:47	1
Copper	22		0.56	0.16	mg/Kg	☼	11/29/22 15:55	12/02/22 18:47	1
Iron	18000		11	5.8	mg/Kg	☼	11/29/22 15:55	12/02/22 18:47	1
Lead	17		0.28	0.13	mg/Kg	☼	11/29/22 15:55	12/02/22 18:47	1
Magnesium	31000		5.6	2.8	mg/Kg	☼	11/29/22 15:55	12/02/22 18:47	1
Manganese	450		0.56	0.081	mg/Kg	☼	11/29/22 15:55	12/02/22 18:47	1
Nickel	29		0.56	0.16	mg/Kg	☼	11/29/22 15:55	12/02/22 18:47	1
Potassium	1800		28	9.8	mg/Kg	☼	11/29/22 15:55	12/02/22 18:47	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	11/29/22 15:55	12/02/22 18:47	1
Silver	0.25	J	0.28	0.072	mg/Kg	☼	11/29/22 15:55	12/02/22 18:47	1
Sodium	1400		56	8.2	mg/Kg	☼	11/29/22 15:55	12/02/22 18:47	1
Thallium	0.66		0.56	0.28	mg/Kg	☼	11/29/22 15:55	12/02/22 18:47	1
Vanadium	17		0.28	0.066	mg/Kg	☼	11/29/22 15:55	12/02/22 18:47	1
Zinc	64		1.1	0.49	mg/Kg	☼	11/29/22 15:55	12/02/22 18:47	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.43	J	0.50	0.050	mg/L		11/22/22 18:39	12/01/22 16:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 18:39	12/01/22 16:42	1
Boron	0.31	J B	0.50	0.050	mg/L		11/22/22 18:39	12/01/22 16:42	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		11/22/22 18:39	12/01/22 16:42	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225489-1

Client Sample ID: 1401V3-23-B01 (0-3)

Lab Sample ID: 500-225489-1

Date Collected: 11/15/22 13:05

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 88.0

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:42	1
Cobalt	0.015	J	0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:42	1
Iron	0.39	J	0.40	0.20	mg/L		11/22/22 18:39	12/01/22 16:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 18:39	12/01/22 16:42	1
Manganese	6.9		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:42	1
Nickel	0.020	J	0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:42	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 18:39	12/01/22 16:42	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:42	1
Zinc	0.024	J	0.50	0.020	mg/L		11/22/22 18:39	12/01/22 16:42	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.5		0.025	0.010	mg/L		11/22/22 19:39	12/02/22 13:19	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 18:39	11/29/22 19:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 18:39	11/29/22 19:01	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 16:20	11/28/22 14:35	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.017	0.0056	mg/Kg	☆	12/02/22 15:35	12/05/22 08:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.1		0.2	0.2	SU			11/20/22 19:13	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225489-1

Client Sample ID: 1401V3-23-B01 (3-6)

Lab Sample ID: 500-225489-2

Date Collected: 11/15/22 13:10

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 85.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.021	J	0.039	0.0071	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
Benzene	<0.0039		0.0039	0.00070	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
Bromodichloromethane	<0.0039		0.0039	0.00030	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
Bromoform	<0.0078		0.0078	0.00050	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
Bromomethane	<0.016		0.016	0.0012	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
2-Butanone (MEK)	0.0031	J	0.016	0.0012	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
Carbon disulfide	<0.0039		0.0039	0.00093	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
Carbon tetrachloride	<0.0039		0.0039	0.0011	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
Chlorobenzene	<0.0039		0.0039	0.00060	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
Chloroethane	<0.016		0.016	0.0028	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
Chloroform	<0.0039		0.0039	0.0013	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
Chloromethane	<0.016		0.016	0.0026	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00058	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00043	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
Dibromochloromethane	<0.0039		0.0039	0.00017	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
1,1-Dichloroethane	<0.0039		0.0039	0.00033	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
1,2-Dichloroethane	<0.0039		0.0039	0.00024	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
1,1-Dichloroethene	<0.0039		0.0039	0.00054	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
1,2-Dichloropropane	<0.0039		0.0039	0.00033	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
1,3-Dichloropropane, Total	<0.0078		0.0078	0.00085	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
Ethylbenzene	<0.0039		0.0039	0.0019	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
2-Hexanone	<0.016		0.016	0.0018	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
Methylene Chloride	<0.039		0.039	0.023	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
4-Methyl-2-pentanone (MIBK)	<0.016		0.016	0.0013	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00017	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
Styrene	<0.0039		0.0039	0.0027	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00027	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
Tetrachloroethene	<0.0039		0.0039	0.00074	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
Toluene	<0.0039		0.0039	0.0026	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00047	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.00043	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00036	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00025	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
Trichloroethene	<0.0039		0.0039	0.0011	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
Vinyl acetate	<0.0078		0.0078	0.0013	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
Vinyl chloride	<0.0078		0.0078	0.0027	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1
Xylenes, Total	<0.0078		0.0078	0.0028	mg/Kg	☼	11/22/22 11:52	11/22/22 22:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		77 - 120	11/22/22 11:52	11/22/22 22:49	1
Dibromofluoromethane (Surr)	114		80 - 123	11/22/22 11:52	11/22/22 22:49	1
Toluene-d8 (Surr)	91		76 - 120	11/22/22 11:52	11/22/22 22:49	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225489-1

Client Sample ID: 1401V3-23-B01 (3-6)

Lab Sample ID: 500-225489-2

Date Collected: 11/15/22 13:10

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 85.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
Fluoranthene	0.0095	J	0.037	0.0070	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	11/27/22 09:04	12/03/22 00:02	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225489-1

Client Sample ID: 1401V3-23-B01 (3-6)

Lab Sample ID: 500-225489-2

Date Collected: 11/15/22 13:10

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 85.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	✳	11/27/22 09:04	12/03/22 00:02	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	✳	11/27/22 09:04	12/03/22 00:02	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	✳	11/27/22 09:04	12/03/22 00:02	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	✳	11/27/22 09:04	12/03/22 00:02	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	✳	11/27/22 09:04	12/03/22 00:02	1
Phenol	<0.19		0.19	0.083	mg/Kg	✳	11/27/22 09:04	12/03/22 00:02	1
Pyrene	0.0080	J	0.037	0.0075	mg/Kg	✳	11/27/22 09:04	12/03/22 00:02	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	✳	11/27/22 09:04	12/03/22 00:02	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	✳	11/27/22 09:04	12/03/22 00:02	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	✳	11/27/22 09:04	12/03/22 00:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	61		43 - 145				11/27/22 09:04	12/03/22 00:02	1
2-Fluorophenol (Surr)	93		31 - 166				11/27/22 09:04	12/03/22 00:02	1
Nitrobenzene-d5 (Surr)	54		37 - 147				11/27/22 09:04	12/03/22 00:02	1
Phenol-d5 (Surr)	86		30 - 153				11/27/22 09:04	12/03/22 00:02	1
Terphenyl-d14 (Surr)	92		42 - 157				11/27/22 09:04	12/03/22 00:02	1
2,4,6-Tribromophenol (Surr)	36		31 - 143				11/27/22 09:04	12/03/22 00:02	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.46	J	1.1	0.22	mg/Kg	✳	11/29/22 15:55	12/02/22 18:57	1
Arsenic	9.8		0.56	0.19	mg/Kg	✳	11/29/22 15:55	12/02/22 18:57	1
Barium	48		0.56	0.064	mg/Kg	✳	11/29/22 15:55	12/02/22 18:57	1
Beryllium	0.81		0.22	0.052	mg/Kg	✳	11/29/22 15:55	12/02/22 18:57	1
Boron	8.3		2.8	0.26	mg/Kg	✳	11/29/22 15:55	12/02/22 18:57	1
Cadmium	0.18		0.11	0.020	mg/Kg	✳	11/29/22 15:55	12/02/22 18:57	1
Calcium	33000	B	11	1.9	mg/Kg	✳	11/29/22 15:55	12/02/22 18:57	1
Chromium	15		0.56	0.28	mg/Kg	✳	11/29/22 15:55	12/02/22 18:57	1
Cobalt	13		0.28	0.073	mg/Kg	✳	11/29/22 15:55	12/02/22 18:57	1
Copper	27		0.56	0.16	mg/Kg	✳	11/29/22 15:55	12/02/22 18:57	1
Iron	19000		11	5.8	mg/Kg	✳	11/29/22 15:55	12/02/22 18:57	1
Lead	19		0.28	0.13	mg/Kg	✳	11/29/22 15:55	12/02/22 18:57	1
Magnesium	21000		5.6	2.8	mg/Kg	✳	11/29/22 15:55	12/02/22 18:57	1
Manganese	260		0.56	0.081	mg/Kg	✳	11/29/22 15:55	12/02/22 18:57	1
Nickel	32		0.56	0.16	mg/Kg	✳	11/29/22 15:55	12/02/22 18:57	1
Potassium	1900		28	9.9	mg/Kg	✳	11/29/22 15:55	12/02/22 18:57	1
Selenium	<0.56		0.56	0.33	mg/Kg	✳	11/29/22 15:55	12/02/22 18:57	1
Silver	0.30		0.28	0.072	mg/Kg	✳	11/29/22 15:55	12/02/22 18:57	1
Sodium	780		56	8.3	mg/Kg	✳	11/29/22 15:55	12/02/22 18:57	1
Thallium	0.37	J	0.56	0.28	mg/Kg	✳	11/29/22 15:55	12/02/22 18:57	1
Vanadium	20		0.28	0.066	mg/Kg	✳	11/29/22 15:55	12/02/22 18:57	1
Zinc	71		1.1	0.49	mg/Kg	✳	11/29/22 15:55	12/02/22 18:57	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.55		0.50	0.050	mg/L		11/22/22 18:39	12/01/22 16:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 18:39	12/01/22 16:45	1
Boron	0.31	J B	0.50	0.050	mg/L		11/22/22 18:39	12/01/22 16:45	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		11/22/22 18:39	12/01/22 16:45	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225489-1

Client Sample ID: 1401V3-23-B01 (3-6)

Lab Sample ID: 500-225489-2

Date Collected: 11/15/22 13:10

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 85.8

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:45	1
Cobalt	0.019	J	0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:45	1
Iron	<0.40		0.40	0.20	mg/L		11/22/22 18:39	12/01/22 16:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 18:39	12/01/22 16:45	1
Manganese	7.6		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:45	1
Nickel	0.017	J	0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:45	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 18:39	12/01/22 16:45	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 16:45	1
Zinc	0.042	J	0.50	0.020	mg/L		11/22/22 18:39	12/01/22 16:45	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.81		0.025	0.010	mg/L		11/22/22 19:39	12/02/22 13:22	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 18:39	11/29/22 19:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 18:39	11/29/22 19:03	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 16:20	11/28/22 14:37	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.017	0.0056	mg/Kg	☆	12/02/22 15:35	12/05/22 08:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.5		0.2	0.2	SU			11/20/22 19:18	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225489-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225489-1

GC/MS VOA

Pre Prep Batch: 372778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225489-1	1401V3-23-B01 (0-3)	Total/NA	Solid	Frozen Preserve	
500-225489-2	1401V3-23-B01 (3-6)	Total/NA	Solid	Frozen Preserve	

Prep Batch: 372826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225489-1	1401V3-23-B01 (0-3)	Total/NA	Solid	5035	372778
500-225489-2	1401V3-23-B01 (3-6)	Total/NA	Solid	5035	372778
MB 310-372826/1-A	Method Blank	Total/NA	Solid	5035	
LCS 310-372826/2-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 372827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225489-1	1401V3-23-B01 (0-3)	Total/NA	Solid	8260D	372826
500-225489-2	1401V3-23-B01 (3-6)	Total/NA	Solid	8260D	372826
MB 310-372826/1-A	Method Blank	Total/NA	Solid	8260D	372826
LCS 310-372826/2-A	Lab Control Sample	Total/NA	Solid	8260D	372826

GC/MS Semi VOA

Prep Batch: 686915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225489-1	1401V3-23-B01 (0-3)	Total/NA	Solid	3541	
500-225489-2	1401V3-23-B01 (3-6)	Total/NA	Solid	3541	
MB 500-686915/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-686915/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 687960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225489-1	1401V3-23-B01 (0-3)	Total/NA	Solid	8270D	686915
500-225489-2	1401V3-23-B01 (3-6)	Total/NA	Solid	8270D	686915
MB 500-686915/1-A	Method Blank	Total/NA	Solid	8270D	686915
LCS 500-686915/2-A	Lab Control Sample	Total/NA	Solid	8270D	686915

Metals

Leach Batch: 686386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225489-1	1401V3-23-B01 (0-3)	TCLP	Solid	1311	
500-225489-2	1401V3-23-B01 (3-6)	TCLP	Solid	1311	
LB 500-686386/1-B	Method Blank	TCLP	Solid	1311	
LB 500-686386/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 686389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225489-1	1401V3-23-B01 (0-3)	SPLP East	Solid	1312	
500-225489-2	1401V3-23-B01 (3-6)	SPLP East	Solid	1312	
LB 500-686389/1-B	Method Blank	SPLP East	Solid	1312	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225489-1

Metals

Prep Batch: 686618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225489-1	1401V3-23-B01 (0-3)	TCLP	Solid	3010A	686386
500-225489-2	1401V3-23-B01 (3-6)	TCLP	Solid	3010A	686386
LB 500-686386/1-B	Method Blank	TCLP	Solid	3010A	686386
LCS 500-686618/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 686621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225489-1	1401V3-23-B01 (0-3)	SPLP East	Solid	3010A	686389
500-225489-2	1401V3-23-B01 (3-6)	SPLP East	Solid	3010A	686389
LB 500-686389/1-B	Method Blank	SPLP East	Solid	3010A	686389
LCS 500-686621/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 686822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225489-1	1401V3-23-B01 (0-3)	TCLP	Solid	7470A	686386
500-225489-2	1401V3-23-B01 (3-6)	TCLP	Solid	7470A	686386
LB 500-686386/1-C	Method Blank	TCLP	Solid	7470A	686386
MB 500-686822/11-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-686822/13-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 687111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225489-1	1401V3-23-B01 (0-3)	TCLP	Solid	7470A	686822
500-225489-2	1401V3-23-B01 (3-6)	TCLP	Solid	7470A	686822
LB 500-686386/1-C	Method Blank	TCLP	Solid	7470A	686822
MB 500-686822/11-A	Method Blank	Total/NA	Solid	7470A	686822
LCS 500-686822/13-A	Lab Control Sample	Total/NA	Solid	7470A	686822

Prep Batch: 687356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225489-1	1401V3-23-B01 (0-3)	Total/NA	Solid	3050B	
500-225489-2	1401V3-23-B01 (3-6)	Total/NA	Solid	3050B	
MB 500-687356/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-687356/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCS 500-687356/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 687529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225489-1	1401V3-23-B01 (0-3)	TCLP	Solid	6020A	686618
500-225489-2	1401V3-23-B01 (3-6)	TCLP	Solid	6020A	686618
LB 500-686386/1-B	Method Blank	TCLP	Solid	6020A	686618
LCS 500-686618/2-A	Lab Control Sample	Total/NA	Solid	6020A	686618

Analysis Batch: 687914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225489-1	1401V3-23-B01 (0-3)	TCLP	Solid	6010B	686618
500-225489-2	1401V3-23-B01 (3-6)	TCLP	Solid	6010B	686618
LB 500-686386/1-B	Method Blank	TCLP	Solid	6010B	686618
LCS 500-686618/2-A	Lab Control Sample	Total/NA	Solid	6010B	686618

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225489-1

Metals

Prep Batch: 687934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225489-1	1401V3-23-B01 (0-3)	Total/NA	Solid	7471B	
500-225489-2	1401V3-23-B01 (3-6)	Total/NA	Solid	7471B	
MB 500-687934/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-687934/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 687979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225489-1	1401V3-23-B01 (0-3)	SPLP East	Solid	6010B	686621
500-225489-2	1401V3-23-B01 (3-6)	SPLP East	Solid	6010B	686621
LB 500-686389/1-B	Method Blank	SPLP East	Solid	6010B	686621
LCS 500-686621/2-A	Lab Control Sample	Total/NA	Solid	6010B	686621

Analysis Batch: 688147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225489-1	1401V3-23-B01 (0-3)	Total/NA	Solid	6010B	687356
500-225489-2	1401V3-23-B01 (3-6)	Total/NA	Solid	6010B	687356
MB 500-687356/1-A	Method Blank	Total/NA	Solid	6010B	687356
LCS 500-687356/2-A	Lab Control Sample	Total/NA	Solid	6010B	687356

Analysis Batch: 688226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225489-1	1401V3-23-B01 (0-3)	Total/NA	Solid	7471B	687934
500-225489-2	1401V3-23-B01 (3-6)	Total/NA	Solid	7471B	687934
MB 500-687934/12-A	Method Blank	Total/NA	Solid	7471B	687934
LCS 500-687934/13-A	Lab Control Sample	Total/NA	Solid	7471B	687934

Analysis Batch: 688270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-687356/2-A ^2	Lab Control Sample	Total/NA	Solid	6010B	687356

Analysis Batch: 688435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225489-1	1401V3-23-B01 (0-3)	Total/NA	Solid	6010B	687356

General Chemistry

Analysis Batch: 686168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225489-1	1401V3-23-B01 (0-3)	Total/NA	Solid	9045D	
500-225489-2	1401V3-23-B01 (3-6)	Total/NA	Solid	9045D	
LCS 500-686168/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-686168/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-225489-2 DU	1401V3-23-B01 (3-6)	Total/NA	Solid	9045D	

Analysis Batch: 686821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225489-1	1401V3-23-B01 (0-3)	Total/NA	Solid	Moisture	
500-225489-2	1401V3-23-B01 (3-6)	Total/NA	Solid	Moisture	

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Surrogate Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225489-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (77-120)	DBFM (80-123)	TOL (76-120)
500-225489-1	1401V3-23-B01 (0-3)	93	113	91
500-225489-2	1401V3-23-B01 (3-6)	92	114	91
LCS 310-372826/2-A	Lab Control Sample	102	99	100
MB 310-372826/1-A	Method Blank	92	107	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-225489-1	1401V3-23-B01 (0-3)	58	153	40	100	110	78
500-225489-2	1401V3-23-B01 (3-6)	61	93	54	86	92	36
LCS 500-686915/2-A	Lab Control Sample	96	126	92	112	122	86
MB 500-686915/1-A	Method Blank	87	117	87	99	110	67

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

TBP = 2,4,6-Tribromophenol (Surr)

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225489-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-372826/1-A
Matrix: Solid
Analysis Batch: 372827

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372826

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.11		0.11	0.020	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Benzene	<0.011		0.011	0.0019	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Bromodichloromethane	<0.011		0.011	0.00083	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Bromoform	<0.021		0.021	0.0014	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Bromomethane	<0.043		0.043	0.0034	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
2-Butanone (MEK)	<0.043		0.043	0.0032	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Carbon disulfide	<0.011		0.011	0.0026	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Carbon tetrachloride	<0.011		0.011	0.0030	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Chlorobenzene	<0.011		0.011	0.0016	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Chloroethane	<0.043		0.043	0.0077	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Chloroform	<0.011		0.011	0.0036	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Chloromethane	<0.043		0.043	0.0070	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
cis-1,2-Dichloroethene	<0.011		0.011	0.0016	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
cis-1,3-Dichloropropene	<0.011		0.011	0.0012	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Dibromochloromethane	<0.011		0.011	0.00047	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,1-Dichloroethane	<0.011		0.011	0.00092	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,2-Dichloroethane	<0.011		0.011	0.00066	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,1-Dichloroethene	<0.011		0.011	0.0015	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,2-Dichloropropane	<0.011		0.011	0.00092	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,3-Dichloropropene, Total	<0.021		0.021	0.0023	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Ethylbenzene	<0.011		0.011	0.0051	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
2-Hexanone	<0.043		0.043	0.0049	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Methylene Chloride	<0.11		0.11	0.062	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
4-Methyl-2-pentanone (MIBK)	<0.043		0.043	0.0036	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Methyl tert-butyl ether	<0.011		0.011	0.00047	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Styrene	<0.011		0.011	0.0075	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,1,2,2-Tetrachloroethane	<0.011		0.011	0.00075	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Tetrachloroethene	<0.011		0.011	0.0020	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Toluene	<0.011		0.011	0.0070	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
trans-1,2-Dichloroethene	<0.011		0.011	0.0013	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
trans-1,3-Dichloropropene	<0.011		0.011	0.0012	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,1,1-Trichloroethane	<0.011		0.011	0.00098	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,1,2-Trichloroethane	<0.011		0.011	0.00068	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Trichloroethene	<0.011		0.011	0.0030	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Vinyl acetate	<0.021		0.021	0.0036	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Vinyl chloride	<0.021		0.021	0.0075	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Xylenes, Total	<0.021		0.021	0.0077	mg/Kg		11/22/22 11:52	11/22/22 19:06	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	92		77 - 120	11/22/22 11:52	11/22/22 19:06	1
Dibromofluoromethane (Surr)	107		80 - 123	11/22/22 11:52	11/22/22 19:06	1
Toluene-d8 (Surr)	94		76 - 120	11/22/22 11:52	11/22/22 19:06	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225489-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-372826/2-A
Matrix: Solid
Analysis Batch: 372827

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372826

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	Limits
Acetone	0.172	0.139		mg/Kg		81		52 - 150
Benzene	0.0860	0.0822		mg/Kg		96		77 - 134
Bromodichloromethane	0.0860	0.0783		mg/Kg		91		78 - 122
Bromoform	0.0860	0.0820		mg/Kg		95		72 - 122
2-Butanone (MEK)	0.172	0.175		mg/Kg		102		60 - 150
Carbon disulfide	0.0860	0.0785		mg/Kg		91		61 - 142
Carbon tetrachloride	0.0860	0.0749		mg/Kg		87		77 - 127
Chlorobenzene	0.0860	0.0766		mg/Kg		89		76 - 120
Chloroform	0.0860	0.0733		mg/Kg		85		78 - 127
cis-1,2-Dichloroethene	0.0860	0.0821		mg/Kg		95		74 - 136
cis-1,3-Dichloropropene	0.0860	0.0815		mg/Kg		95		79 - 126
Dibromochloromethane	0.0860	0.0820		mg/Kg		95		78 - 122
1,1-Dichloroethane	0.0860	0.0831		mg/Kg		97		74 - 137
1,2-Dichloroethane	0.0860	0.0800		mg/Kg		93		79 - 132
1,1-Dichloroethene	0.0860	0.0731		mg/Kg		85		62 - 130
1,2-Dichloropropane	0.0860	0.0857		mg/Kg		100		78 - 135
Ethylbenzene	0.0860	0.0800		mg/Kg		93		78 - 122
2-Hexanone	0.172	0.177		mg/Kg		103		73 - 134
Methylene Chloride	0.0860	0.0786	J	mg/Kg		91		55 - 150
4-Methyl-2-pentanone (MIBK)	0.172	0.181		mg/Kg		105		75 - 135
Methyl tert-butyl ether	0.0860	0.0827		mg/Kg		96		73 - 135
Styrene	0.0860	0.0822		mg/Kg		96		75 - 120
1,1,2,2-Tetrachloroethane	0.0860	0.0854		mg/Kg		99		80 - 127
Tetrachloroethene	0.0860	0.0703		mg/Kg		82		72 - 121
Toluene	0.0860	0.0766		mg/Kg		89		77 - 121
trans-1,2-Dichloroethene	0.0860	0.0800		mg/Kg		93		71 - 134
trans-1,3-Dichloropropene	0.0860	0.0765		mg/Kg		89		77 - 122
1,1,1-Trichloroethane	0.0860	0.0778		mg/Kg		90		79 - 132
1,1,2-Trichloroethane	0.0860	0.0852		mg/Kg		99		80 - 124
Trichloroethene	0.0860	0.0801		mg/Kg		93		76 - 132
Vinyl acetate	0.172	0.153		mg/Kg		89		37 - 150
Xylenes, Total	0.172	0.160		mg/Kg		93		76 - 124

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		77 - 120
Dibromofluoromethane (Surr)	99		80 - 123
Toluene-d8 (Surr)	100		76 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-686915/1-A
Matrix: Solid
Analysis Batch: 687960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686915

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		11/27/22 09:04	12/02/22 15:12	1

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225489-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-686915/1-A
Matrix: Solid
Analysis Batch: 687960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686915

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Carbazole	<0.17		0.17	0.083	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Isophorone	<0.17		0.17	0.037	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		11/27/22 09:04	12/02/22 15:12	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225489-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-686915/1-A
Matrix: Solid
Analysis Batch: 687960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686915

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Phenol	<0.17		0.17	0.074	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		11/27/22 09:04	12/02/22 15:12	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		11/27/22 09:04	12/02/22 15:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	87		43 - 145	11/27/22 09:04	12/02/22 15:12	1
2-Fluorophenol (Surr)	117		31 - 166	11/27/22 09:04	12/02/22 15:12	1
Nitrobenzene-d5 (Surr)	87		37 - 147	11/27/22 09:04	12/02/22 15:12	1
Phenol-d5 (Surr)	99		30 - 153	11/27/22 09:04	12/02/22 15:12	1
Terphenyl-d14 (Surr)	110		42 - 157	11/27/22 09:04	12/02/22 15:12	1
2,4,6-Tribromophenol (Surr)	67		31 - 143	11/27/22 09:04	12/02/22 15:12	1

Lab Sample ID: LCS 500-686915/2-A
Matrix: Solid
Analysis Batch: 687960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686915

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.37		mg/Kg		103	65 - 124
Acenaphthylene	1.33	1.40		mg/Kg		105	68 - 120
Anthracene	1.33	1.29		mg/Kg		97	70 - 114
Benzo[a]anthracene	1.33	1.43		mg/Kg		107	67 - 122
Benzo[a]pyrene	1.33	1.37		mg/Kg		102	65 - 133
Benzo[b]fluoranthene	1.33	1.28		mg/Kg		96	69 - 129
Benzo[g,h,i]perylene	1.33	1.58		mg/Kg		118	72 - 131
Benzo[k]fluoranthene	1.33	1.31		mg/Kg		98	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.30		mg/Kg		97	60 - 112
Bis(2-chloroethyl)ether	1.33	1.20		mg/Kg		90	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.57		mg/Kg		118	72 - 131
4-Bromophenyl phenyl ether	1.33	1.32		mg/Kg		99	68 - 118
Butyl benzyl phthalate	1.33	1.54		mg/Kg		115	71 - 129
Carbazole	1.33	1.41		mg/Kg		106	65 - 142
4-Chloroaniline	1.33	0.601	J	mg/Kg		45	30 - 150
4-Chloro-3-methylphenol	1.33	1.45		mg/Kg		109	65 - 122
2-Chloronaphthalene	1.33	1.37		mg/Kg		103	69 - 114
2-Chlorophenol	1.33	1.33		mg/Kg		99	64 - 110
4-Chlorophenyl phenyl ether	1.33	1.31		mg/Kg		98	62 - 119
Chrysene	1.33	1.37		mg/Kg		102	63 - 120
Dibenz(a,h)anthracene	1.33	1.56		mg/Kg		117	64 - 131
Dibenzofuran	1.33	1.36		mg/Kg		102	66 - 115

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225489-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-686915/2-A
Matrix: Solid
Analysis Batch: 687960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686915

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	1.33	1.18		mg/Kg		88	62 - 110
1,3-Dichlorobenzene	1.33	1.21		mg/Kg		91	65 - 124
1,4-Dichlorobenzene	1.33	1.21		mg/Kg		91	61 - 110
3,3'-Dichlorobenzidine	1.33	0.924		mg/Kg		69	35 - 128
2,4-Dichlorophenol	1.33	1.29		mg/Kg		97	58 - 120
Diethyl phthalate	1.33	1.31		mg/Kg		98	58 - 120
2,4-Dimethylphenol	1.33	1.41		mg/Kg		106	60 - 110
Dimethyl phthalate	1.33	1.33		mg/Kg		100	69 - 116
Di-n-butyl phthalate	1.33	1.35		mg/Kg		102	65 - 120
4,6-Dinitro-2-methylphenol	2.67	1.56		mg/Kg		58	10 - 110
2,4-Dinitrophenol	2.67	0.775		mg/Kg		29	10 - 100
2,4-Dinitrotoluene	1.33	1.35		mg/Kg		101	69 - 124
2,6-Dinitrotoluene	1.33	1.49		mg/Kg		112	70 - 123
Di-n-octyl phthalate	1.33	1.26		mg/Kg		94	68 - 134
Fluoranthene	1.33	1.29		mg/Kg		97	62 - 120
Fluorene	1.33	1.36		mg/Kg		102	62 - 120
Hexachlorobenzene	1.33	1.34		mg/Kg		101	63 - 124
Hexachlorobutadiene	1.33	1.22		mg/Kg		91	56 - 120
Hexachlorocyclopentadiene	1.33	0.249	J	mg/Kg		19	10 - 133
Hexachloroethane	1.33	1.21		mg/Kg		91	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.63		mg/Kg		122	68 - 130
Isophorone	1.33	1.27		mg/Kg		95	55 - 110
2-Methylnaphthalene	1.33	1.25		mg/Kg		94	69 - 112
2-Methylphenol	1.33	1.33		mg/Kg		100	60 - 120
3 & 4 Methylphenol	1.33	1.27		mg/Kg		96	57 - 120
Naphthalene	1.33	1.23		mg/Kg		93	63 - 110
2-Nitroaniline	1.33	1.50		mg/Kg		113	57 - 124
3-Nitroaniline	1.33	0.962		mg/Kg		72	40 - 122
4-Nitroaniline	1.33	1.28		mg/Kg		96	60 - 160
Nitrobenzene	1.33	1.31		mg/Kg		98	60 - 116
2-Nitrophenol	1.33	1.38		mg/Kg		104	60 - 120
4-Nitrophenol	2.67	2.28		mg/Kg		86	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.34		mg/Kg		100	56 - 118
N-Nitrosodiphenylamine	1.33	1.35		mg/Kg		101	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.25		mg/Kg		93	40 - 124
Pentachlorophenol	2.67	1.31		mg/Kg		49	13 - 112
Phenanthrene	1.33	1.35		mg/Kg		102	62 - 120
Phenol	1.33	1.38		mg/Kg		104	56 - 122
Pyrene	1.33	1.59		mg/Kg		119	61 - 128
1,2,4-Trichlorobenzene	1.33	1.27		mg/Kg		95	66 - 117
2,4,5-Trichlorophenol	1.33	1.29		mg/Kg		97	50 - 120
2,4,6-Trichlorophenol	1.33	1.28		mg/Kg		96	57 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	96		43 - 145
2-Fluorophenol (Surr)	126		31 - 166
Nitrobenzene-d5 (Surr)	92		37 - 147
Phenol-d5 (Surr)	112		30 - 153

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225489-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-686915/2-A
Matrix: Solid
Analysis Batch: 687960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686915

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Terphenyl-d14 (Surr)	122		42 - 157
2,4,6-Tribromophenol (Surr)	86		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-686618/2-A
Matrix: Solid
Analysis Batch: 687914

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686618

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec	Limits
		Result	Qualifier					
Barium	0.500	0.512		mg/L		102		80 - 120
Beryllium	0.0500	0.0491		mg/L		98		80 - 120
Boron	1.00	1.17		mg/L		117		80 - 120
Cadmium	0.0500	0.0516		mg/L		103		80 - 120
Chromium	0.200	0.193		mg/L		96		80 - 120
Cobalt	0.500	0.513		mg/L		103		80 - 120
Iron	1.00	0.987		mg/L		99		80 - 120
Lead	0.100	0.0931		mg/L		93		80 - 120
Manganese	0.500	0.482		mg/L		96		80 - 120
Nickel	0.500	0.504		mg/L		101		80 - 120
Selenium	0.100	0.108		mg/L		108		80 - 120
Silver	0.0500	0.0522		mg/L		104		80 - 120
Zinc	0.500	0.549		mg/L		110		80 - 120

Lab Sample ID: LCS 500-686621/2-A
Matrix: Solid
Analysis Batch: 687979

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686621

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec	Limits
		Result	Qualifier					
Manganese	0.500	0.513		mg/L		103		80 - 120

Lab Sample ID: MB 500-687356/1-A
Matrix: Solid
Analysis Batch: 688147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687356

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		11/29/22 15:55	12/02/22 17:20	1
Arsenic	<1.0		1.0	0.34	mg/Kg		11/29/22 15:55	12/02/22 17:20	1
Barium	<1.0		1.0	0.11	mg/Kg		11/29/22 15:55	12/02/22 17:20	1
Beryllium	<0.40		0.40	0.093	mg/Kg		11/29/22 15:55	12/02/22 17:20	1
Boron	<5.0		5.0	0.47	mg/Kg		11/29/22 15:55	12/02/22 17:20	1
Cadmium	<0.20		0.20	0.036	mg/Kg		11/29/22 15:55	12/02/22 17:20	1
Calcium	4.81	J	20	3.4	mg/Kg		11/29/22 15:55	12/02/22 17:20	1
Chromium	<1.0		1.0	0.50	mg/Kg		11/29/22 15:55	12/02/22 17:20	1
Cobalt	<0.50		0.50	0.13	mg/Kg		11/29/22 15:55	12/02/22 17:20	1
Copper	<1.0		1.0	0.28	mg/Kg		11/29/22 15:55	12/02/22 17:20	1
Iron	<20		20	10	mg/Kg		11/29/22 15:55	12/02/22 17:20	1
Lead	<0.50		0.50	0.23	mg/Kg		11/29/22 15:55	12/02/22 17:20	1
Magnesium	<10		10	5.0	mg/Kg		11/29/22 15:55	12/02/22 17:20	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225489-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 500-687356/1-A
Matrix: Solid
Analysis Batch: 688147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687356

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<1.0		1.0	0.15	mg/Kg		11/29/22 15:55	12/02/22 17:20	1
Nickel	<1.0		1.0	0.29	mg/Kg		11/29/22 15:55	12/02/22 17:20	1
Potassium	<50		50	18	mg/Kg		11/29/22 15:55	12/02/22 17:20	1
Selenium	<1.0		1.0	0.59	mg/Kg		11/29/22 15:55	12/02/22 17:20	1
Silver	<0.50		0.50	0.13	mg/Kg		11/29/22 15:55	12/02/22 17:20	1
Sodium	<100		100	15	mg/Kg		11/29/22 15:55	12/02/22 17:20	1
Thallium	<1.0		1.0	0.50	mg/Kg		11/29/22 15:55	12/02/22 17:20	1
Vanadium	<0.50		0.50	0.12	mg/Kg		11/29/22 15:55	12/02/22 17:20	1
Zinc	<2.0		2.0	0.88	mg/Kg		11/29/22 15:55	12/02/22 17:20	1

Lab Sample ID: LCS 500-687356/2-A
Matrix: Solid
Analysis Batch: 688147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687356

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	45.1		mg/Kg		90	80 - 120
Arsenic	10.0	9.27		mg/Kg		93	80 - 120
Barium	200	201		mg/Kg		100	80 - 120
Beryllium	5.00	4.70		mg/Kg		94	80 - 120
Boron	100	86.5		mg/Kg		86	80 - 120
Cadmium	5.00	4.52		mg/Kg		90	80 - 120
Calcium	1000	976		mg/Kg		98	80 - 120
Chromium	20.0	18.8		mg/Kg		94	80 - 120
Cobalt	50.0	49.1		mg/Kg		98	80 - 120
Copper	25.0	24.5		mg/Kg		98	80 - 120
Iron	100	99.1		mg/Kg		99	80 - 120
Lead	10.0	9.29		mg/Kg		93	80 - 120
Magnesium	1000	926		mg/Kg		93	80 - 120
Manganese	50.0	47.4		mg/Kg		95	80 - 120
Nickel	50.0	47.9		mg/Kg		96	80 - 120
Potassium	1000	976		mg/Kg		98	80 - 120
Selenium	10.0	8.33		mg/Kg		83	80 - 120
Sodium	1000	986		mg/Kg		99	80 - 120
Thallium	10.0	9.33		mg/Kg		93	80 - 120
Vanadium	50.0	48.8		mg/Kg		98	80 - 120
Zinc	50.0	47.4		mg/Kg		95	80 - 120

Lab Sample ID: LCS 500-687356/2-A ^2
Matrix: Solid
Analysis Batch: 688270

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687356

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	5.00	4.07		mg/Kg		81	80 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225489-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-686386/1-B
Matrix: Solid
Analysis Batch: 687914

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 686618

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		11/22/22 18:39	12/01/22 15:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 18:39	12/01/22 15:15	1
Boron	0.278	J	0.50	0.050	mg/L		11/22/22 18:39	12/01/22 15:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 18:39	12/01/22 15:15	1
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 15:15	1
Cobalt	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 15:15	1
Iron	<0.40		0.40	0.20	mg/L		11/22/22 18:39	12/01/22 15:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 18:39	12/01/22 15:15	1
Manganese	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 15:15	1
Nickel	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 15:15	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 18:39	12/01/22 15:15	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 18:39	12/01/22 15:15	1
Zinc	<0.50		0.50	0.020	mg/L		11/22/22 18:39	12/01/22 15:15	1

Lab Sample ID: LB 500-686389/1-B
Matrix: Solid
Analysis Batch: 687979

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 686621

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Manganese	<0.025		0.025	0.010	mg/L		11/22/22 19:39	12/02/22 11:48	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-686618/2-A
Matrix: Solid
Analysis Batch: 687529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686618

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Antimony	0.500	0.465		mg/L		93	80 - 120
Thallium	0.100	0.0988		mg/L		99	80 - 120

Lab Sample ID: LB 500-686386/1-B
Matrix: Solid
Analysis Batch: 687529

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 686618

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 18:39	11/29/22 18:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 18:39	11/29/22 18:13	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-686822/11-A
Matrix: Solid
Analysis Batch: 687111

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686822

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 16:20	11/28/22 13:18	1

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225489-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LCS 500-686822/13-A
 Matrix: Solid
 Analysis Batch: 687111

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 686822

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00195		mg/L		98	80 - 120

Lab Sample ID: LB 500-686386/1-C
 Matrix: Solid
 Analysis Batch: 687111

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 686822

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 16:20	11/28/22 13:20	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-687934/12-A
 Matrix: Solid
 Analysis Batch: 688226

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 687934

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		12/02/22 15:35	12/05/22 07:34	1

Lab Sample ID: LCS 500-687934/13-A
 Matrix: Solid
 Analysis Batch: 688226

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 687934

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.152		mg/Kg		92	80 - 120

Method: 9045D - pH

Lab Sample ID: 500-225489-2 DU
 Matrix: Solid
 Analysis Batch: 686168

Client Sample ID: 1401V3-23-B01 (3-6)
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.5		7.3		SU		2	

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225489-1

Client Sample ID: 1401V3-23-B01 (0-3)

Lab Sample ID: 500-225489-1

Date Collected: 11/15/22 13:05

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686389	AW	EET CHI	11/21/22 12:03 - 11/22/22 06:03 ¹
SPLP East	Prep	3010A			686621	LMB	EET CHI	11/22/22 19:39 - 11/22/22 20:09 ¹
SPLP East	Analysis	6010B		1	687979	JJB	EET CHI	12/02/22 13:19
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6010B		1	687914	JJB	EET CHI	12/01/22 16:42
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 19:01
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686822	MJG	EET CHI	11/23/22 16:20 - 11/23/22 18:20 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 14:35
Total/NA	Analysis	9045D		1	686168	LWN	EET CHI	11/20/22 19:13
Total/NA	Analysis	Moisture		1	686821	LWN	EET CHI	11/23/22 15:43

Client Sample ID: 1401V3-23-B01 (0-3)

Lab Sample ID: 500-225489-1

Date Collected: 11/15/22 13:05

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372778	MZR8	EET CF	11/16/22 08:00
Total/NA	Prep	5035			372826	MZR8	EET CF	11/22/22 11:52
Total/NA	Analysis	8260D		1	372827	MZR8	EET CF	11/22/22 22:24
Total/NA	Prep	3541			686915	EK	EET CHI	11/27/22 09:04 - 11/27/22 12:00 ¹
Total/NA	Analysis	8270D		1	687960	SS	EET CHI	12/02/22 23:39
Total/NA	Prep	3050B			687356	RN	EET CHI	11/29/22 15:55 - 11/29/22 16:15 ¹
Total/NA	Analysis	6010B		1	688147	JJB	EET CHI	12/02/22 18:47
Total/NA	Prep	3050B			687356	RN	EET CHI	11/29/22 15:55 - 11/29/22 16:15 ¹
Total/NA	Analysis	6010B		2	688435	JJB	EET CHI	12/05/22 15:06
Total/NA	Prep	7471B			687934	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 08:32

Client Sample ID: 1401V3-23-B01 (3-6)

Lab Sample ID: 500-225489-2

Date Collected: 11/15/22 13:10

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686389	AW	EET CHI	11/21/22 12:03 - 11/22/22 06:03 ¹
SPLP East	Prep	3010A			686621	LMB	EET CHI	11/22/22 19:39 - 11/22/22 20:09 ¹
SPLP East	Analysis	6010B		1	687979	JJB	EET CHI	12/02/22 13:22
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6010B		1	687914	JJB	EET CHI	12/01/22 16:45
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686618	LMB	EET CHI	11/22/22 18:39 - 11/22/22 19:09 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 19:03

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225489-1

Client Sample ID: 1401V3-23-B01 (3-6)

Lab Sample ID: 500-225489-2

Date Collected: 11/15/22 13:10

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			686386	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686822	MJG	EET CHI	11/23/22 16:20 - 11/23/22 18:20 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 14:37
Total/NA	Analysis	9045D		1	686168	LWN	EET CHI	11/20/22 19:18
Total/NA	Analysis	Moisture		1	686821	LWN	EET CHI	11/23/22 15:43

Client Sample ID: 1401V3-23-B01 (3-6)

Lab Sample ID: 500-225489-2

Date Collected: 11/15/22 13:10

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372778	MZR8	EET CF	11/16/22 08:00
Total/NA	Prep	5035			372826	MZR8	EET CF	11/22/22 11:52
Total/NA	Analysis	8260D		1	372827	MZR8	EET CF	11/22/22 22:49
Total/NA	Prep	3541			686915	EK	EET CHI	11/27/22 09:04 - 11/27/22 12:00 ¹
Total/NA	Analysis	8270D		1	687960	SS	EET CHI	12/03/22 00:02
Total/NA	Prep	3050B			687356	RN	EET CHI	11/29/22 15:55 - 11/29/22 16:15 ¹
Total/NA	Analysis	6010B		1	688147	JJB	EET CHI	12/02/22 18:57
Total/NA	Prep	7471B			687934	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 08:34

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401
EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225489-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

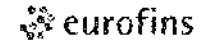
Laboratory: Eurofins Cedar Falls

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Colorado	Petroleum Storage Tank Program	IA100001 (OR)	09-29-23
Georgia	State	IA100001 (OR)	09-29-23
Illinois	NELAP	200024	11-28-22
Iowa	State	007	12-01-23
Kansas	NELAP	E-10341	01-31-23
Minnesota	NELAP	019-999-319	12-31-22
Minnesota (Petrofund)	State	3349	01-18-24
North Dakota	State	R-186	09-29-23
Oregon	NELAP	IA100001	09-29-23

Chain of Custody Record

525097




Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact Company Name: WSP		Project Manager: D. Higgins		Site Contact: A. Haggel		Date: 11/15/22		COC No: 3			
Address: 30 N. LaSalle		Tel/Email: _____		Lab Contact: R. Wright		Carrier: _____		# of 4 COCs			
City/State/Zip: Chicago IL		Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ PH _____ Solids _____ VOCs _____ SVOCs _____ Total Metals _____ TCLP _____		 500-225489 COC		Sampler: _____			
Phone: _____		TAT if different from Below _____						For Lab Use Only			
Fax: _____		<input checked="" type="checkbox"/> 2 weeks						Walk-in Client <input type="checkbox"/>			
Project Name: 885 Willis - Butterfield Rd		<input type="checkbox"/> 1 week						Lab Sampling <input type="checkbox"/>			
Site: 21403035 013		<input type="checkbox"/> 2 days		Job / SDG No		500-225489					
PO #: _____		<input type="checkbox"/> 1 day									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes				
1401V3-23-B01(0-3)		11/15/22	1305	C	S	2	X X X X X				
1401V3-23-B01(1-2)(3-6) (B)		11/14/22	1310	C	S	2	X X X X X				
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 9=Other											
Possible Hazard Identification Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input type="checkbox"/> Not Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown						<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months					
Special Instructions/QC Requirements & Comments. * SPLP analysis based on TCLP results 3.2 → 3.4, 4.6 → 4.8											
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No _____		Cooler Temp (°C) Obs'd _____ Cor'd _____		Therm ID No _____					
Relinquished by: [Signature]		Company: WSP		Date/Time: 11/15/22 1050		Received by: [Signature]		Company: ERT		Date/Time: 11/15/22 16:50	
Relinquished by: [Signature]		Company: ERT		Date/Time: 11/15/22 13:50		Received by: [Signature]		Company: ERT		Date/Time: 11/15/22 17:00	
Relinquished by: [Signature]		Company: ERT		Date/Time: 11/15/22 18:26		Received in Laboratory by: [Signature]		Company: ERT		Date/Time: 11/16/22 07:10	



Environment Testing
America



500-225489 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Chicago</u>			
City/State:	CITY <u>Univ Park</u>	STATE <u>IL</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>11-18-22</u>	TIME <u>1445</u>	Received By: <u>AL</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>1</u> of <u>2</u>	
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>R</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>1.5</u>		Corrected Temp (°C): <u>1.5</u>	
Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

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Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Chicago</u>			
City/State:	<u>CHICAGO</u> <u>Univ Park</u>	STATE <u>IL</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>11-18-22</u>	TIME <u>1445</u>	Received By: <u>RL</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes: Cooler ID: _____			
Multiple Coolers? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes: Cooler # <u>2</u> of <u>2</u>			
Cooler Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Sample Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes: Which VOA samples are in cooler? ↓			
<u>FW013</u>			
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>RL</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature - If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>0.7</u>		Corrected Temp (°C): <u>0.7</u>	
Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab Piv: Wright, Richard	Carrier Tracking No(s): 500-167700-1
Client Contact: Shipping/Receiving		E-Mail: Richard.Wright@et.eurofins.com	Page: Page 1 of 1
Company: Eurofins Environment Testing North Cent		Accreditations Required (See note): NELAP - Illinois	Job #: 500-225489-1
Address: 3019 Venture Way,		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) Other	
City: Cedar Falls	State, Zip: IA, 50613	Analysis Requested	
Phone: 319-277-2401(Tel) 319-277-2425(Fax)	PO #:	Total Number of Containers	
E-mail:	WO #:	8260D/Frozen_48hr (MOD) Copy Analytes	
Project #: 50020822	SSOW#:	Perform MS/MSD (Yes or No)	
IDOT - 196-002-WO 13 IL 56	Site:	Matrix Filtered Sample (Yes or No)	
Site:	Matrix (Water, Solid, Dewastol, BTEX, As, Pb)	Preservation Code	
Sample ID (Lab ID)	Sample Type (C=comp, G=grab)	Sample Time	Sample Date
0401V3-23-B01 (0-3) (500-225489-1)	Solid	13:05 Central	11/15/22
0401V3-23-B01 (3-6) (500-225489-2)	Solid	13:10 Central	11/15/22
Special Instructions/Note:			
Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.			
Possible Hazard Identification			
Unconfirmed			
Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank, 2			
Empty Kit Relinquished by		Method of Shipment	
Relinquished by: <i>Alan Beck</i>	Date: 11/18/22	Received by: ML	Date/Time: 11-18-22 1445
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:
Custody Seals Intact: Custody Seal No		Cooler Temperature(s) °C and Other Remarks:	
Δ Yes Δ No			



Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225489-1

Login Number: 225489

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4,4.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225489-1

Login Number: 225489

List Number: 2

Creator: Kizer, Preston V

List Source: Eurofins Cedar Falls

List Creation: 11/18/22 06:18 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 365 & FAP 870 (Butterfield Road) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

3 S 100 block of IL 53 (ISGS #1401V3-24)

City: Downers Grove State: IL Zip Code: 60515

County: DuPage Township: Milton

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.82629 Longitude: -88.04068
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): _____ Approximate End Date (mm/dd/yyyy): _____

Estimated Volume of debris (cu. Yd.): 4,860

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

Locations 1401V3-24-B01, -B02, -B03, -B05, -B06, and -B08 though B13 were sampled within the construction zone adjacent to ISGS #1401V3-24 (Hidden Lake Forest Preserve). Refer to PSI Report for ISGS #1401V3-24 (Hidden Lake Forest Preserve) including Table 4-3, and Figures 4-6, 4-7, and 4-8.

b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201 (g), 1100.205(a), 1100.610]:

See attached data summary table and associated laboratory data packages J225491-1 and J225544-1.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Tom Campbell (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

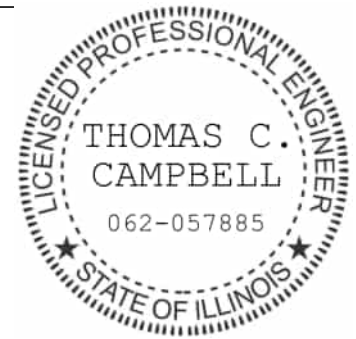
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: WSP USA
Street Address: 115 W Washington St., Suite 1270S
City: Indianapolis State: IN Zip Code: 46204
Phone: (317) 972-1706

Tom Campbell
Printed Name:

Tom Campbell
Licensed Professional Engineer or
Licensed Professional Geologist Signature:

02/10/2023
Date:



Expires 11/30/2023



P.E or L.P.G. Seal:

Analytical Data Summary
PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

Key to Data Tables

- MAC = Maximum Allowable Concentration of Chemical Constituent in Uncontaminated Soil Used as Fill Material At Regulated Fill Operations
- mg/kg = Milligrams per kilogram.
- mg/L = Milligrams per liter.
- MSA = Metropolitan Statistical Area
- TACO = Tiered Approach to Corrective Action Objectives
- TCLP = Toxicity Characteristic Leaching Procedure.
- SCGIER = Soil Component of the Groundwater Ingestion Exposure Route
- SPLP = Synthetic Precipitation Leaching Procedure.
- ND = Not detected.
- NA = Not analyzed or not applicable.
- J = Estimated value.
- U = Analyte was analyzed for but not detected.
- PID = Photoionization detector.
- = No PID readings detected above background (within instrument margin of error).

Criteria Qualifiers and Shading

- # = pH is less than 6.25 or greater than 9.0 standard units.
- † = Concentration exceeds the most stringent MAC.
- m = Concentration exceeds the MAC for an MSA.
- * = Concentration exceeds the MAC for Chicago corporate limits.
- c = Concentration exceeds a TACO Tier 1 RO for the Construction Worker Exposure Route.
- r = Concentration exceeds a TACO Tier 1 soil RO for residential properties.
- L = The detected TCLP/SPLP concentration exceeds the TACO Tier 1 RO for the SCGIER.
-  = Concentration exceeds the most stringent MAC, but is below the MAC for an MSA.
-  = Concentration exceeds applicable comparison criteria.

CONTAMINANTS OF CONCERN

SITE	ISGS #1401V3-24 (Hidden Lake Forest Preserve)			Comparison Criteria					
	1401V3-24-B01	1401V3-24-B03	1401V3-24-B05	MACs			TACO		
BORING	1401V3-24-B01 (0-6)	1401V3-24-B03 (0-6)	1401V3-24-B05 (0-6)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE									
MATRIX	Soil	Soil	Soil						
DEPTH (feet)	0-6	0-6	0-6						
pH	7.2	7.9	7.1						
PID (meter units)	--	--	--						
VOCs (mg/kg)									
2-Butanone (MEK)	ND U	0.0051 J	0.0041 J	--	--	--	--	--	--
Acetone	ND U	0.032 J	0.024 J	25	--	--	70,000	100,000	--
SVOCs (mg/kg)									
2-Methylnaphthalene	ND U	ND U	0.042 J	--	--	--	--	--	--
Acenaphthene	ND U	ND U	0.042	570	--	0.94	4,700	120,000	--
Acenaphthylene	ND U	ND U	0.023 J	--	--	0.25	--	--	--
Anthracene	ND U	ND U	0.088	12,000	--	2.6	23,000	610,000	--
Benzo(a)anthracene	0.015 J	ND U	0.21	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	0.015 J	ND U	0.20 †	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	0.025 J	ND U	0.27	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	0.018 J	ND U	0.070	--	--	4.4	--	--	--
Benzo(k)fluoranthene	ND U	ND U	0.090	9	--	8.1	9	1,700	--
Chrysene	0.020 J	ND U	0.23	88	--	11	88	17,000	--
Dibenzo(a,h)anthracene	ND U	ND U	0.028 J	0.09	0.42	1	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	0.029 J	ND U	0.50	3,100	--	28	3,100	82,000	--
Fluorene	ND U	ND U	0.087	560	--	1.1	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.017 J	ND U	0.083	0.9	1.6	5.8	1.6	170	--
Naphthalene	0.0068 J	ND U	0.022 J	1.8	--	0.26	170	1.8	--
Phenanthrene	0.012 J	ND U	0.43	--	--	15	--	--	--
Pyrene	0.028 J	ND U	0.48	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)									
Antimony	0.53 J	0.29 J	0.62 J	5	--	--	31	82	--
Arsenic	9.5	3.3	12 †	11.3	13	--	13	61	--
Barium	22	100	77	1,500	--	--	5,500	14,000	--
Beryllium	0.72	0.96	1.1	22	--	--	160	410	--
Boron	10	4.1	8.6	40	--	--	16,000	41,000	--
Cadmium	0.17	0.31	0.13	5.2	--	--	78	200	--
Calcium	55,000	7,800	2,000	--	--	--	--	--	--
Chromium	14	19	21	21	--	--	230	690	--
Cobalt	15	10	16	20	--	--	4,700	12,000	--
Copper	26	25	22	2,900	--	--	2,900	8,200	--
Iron	18,000 †m	13,000	25,000 †m	15,000	15,900	--	--	--	--
Lead	14	17	19	107	--	--	400	700	--
Magnesium	29,000	6,600	4,700	325,000	--	--	--	730,000	--
Manganese	380	100	120	630	636	--	1,600	4,100	--
Mercury	0.027	0.050	0.033	0.89	--	--	10	0.1	--
Nickel	28	29	50	100	--	--	1,600	4,100	--
Potassium	2,100	1,100	2,400	--	--	--	--	--	--
Selenium	ND U	ND U	0.50 J	1.3	--	--	390	1,000	--
Silver	0.22 J	0.51	0.59	4.4	--	--	390	1,000	--
Sodium	610	1,200	1,100	--	--	--	--	--	--
Thallium	0.43 J	ND U	ND U	2.6	--	--	6.3	160	--
Vanadium	18	32	28	550	--	--	550	1,400	--
Zinc	63	73	76	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)									
Barium	0.25 J	0.39 J	0.64	--	--	--	--	--	2
Cadmium	ND U	ND U	ND U	--	--	--	--	--	0.005
Cobalt	ND U	ND U	0.033	--	--	--	--	--	1
Iron	ND U	ND U	0.82	--	--	--	--	--	5
Lead	ND U	ND U	0.014 L	--	--	--	--	--	0.0075
Manganese	2.2 L	0.71 L	11 L	--	--	--	--	--	0.15
Nickel	0.013 J	ND U	0.028	--	--	--	--	--	0.1
Zinc	ND U	ND U	0.065 J	--	--	--	--	--	5
SPLP Metals (mg/L)									
Lead	NA	NA	0.38 L	--	--	--	--	--	0.0075
Manganese	0.28 L	0.84 L	2.4 L	--	--	--	--	--	0.15

CONTAMINANTS OF CONCERN

SITE	ISGS #1401V3-24 (Hidden Lake Forest Preserve)			Comparison Criteria					
	1401V3-24-B06	1401V3-24-B08	1401V3-24-B09	MACs			TACO		
BORING	1401V3-24-B06 (0-6)	1401V3-24-B08 (0-6)	1401V3-24-B09 (0-6)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	Soil	Soil	Soil						
MATRIX	0-6	0-6	0-6						
DEPTH (feet)	8.2	7.8	7.3						
pH	--	--	--						
PID (meter units)									
VOCs (mg/kg)									
2-Butanone (MEK)	0.0034 J	0.0016 J	0.0030 J	--	--	--	--	--	--
Acetone	0.014 J	0.011 J	0.016 J	25	--	--	70,000	100,000	--
SVOCs (mg/kg)									
2-Methylnaphthalene	ND U	ND U	0.010 J	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	570	--	0.94	4,700	120,000	--
Acenaphthylene	ND U	ND U	ND U	--	--	0.25	--	--	--
Anthracene	ND U	ND U	0.0080 J	12,000	--	2.6	23,000	610,000	--
Benzo(a)anthracene	0.016 J	ND U	0.015 J	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	0.016 J	ND UJ	ND UJ	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	0.022 J	ND UJ	ND UJ	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	ND UJ	ND UJ	0.017 J	--	--	4.4	--	--	--
Benzo(k)fluoranthene	ND UJ	ND UJ	ND UJ	9	--	8.1	9	1,700	--
Chrysene	0.015 J	ND U	0.047	88	--	11	88	17,000	--
Dibenzo(a,h)anthracene	ND UJ	ND UJ	ND UJ	0.09	0.42	1	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	0.027 J	ND U	0.034 J	3,100	--	28	3,100	82,000	--
Fluorene	ND U	ND U	ND U	560	--	1.1	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND UJ	ND UJ	ND UJ	0.9	1.6	5.8	1.6	170	--
Naphthalene	ND U	ND U	0.029 J	1.8	--	0.26	170	1.8	--
Phenanthrene	0.011 J	ND U	0.067	--	--	15	--	--	--
Pyrene	0.027 J	ND U	0.049	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)									
Antimony	0.65 J	0.59 J	0.39 J	5	--	--	31	82	--
Arsenic	8.4	8.3	4.6	11.3	13	--	13	61	--
Barium	58	42	43	1,500	--	--	5,500	14,000	--
Beryllium	0.83	0.85	0.67	22	--	--	160	410	--
Boron	9.1	10	11	40	--	--	16,000	41,000	--
Cadmium	0.27	0.20	0.23	5.2	--	--	78	200	--
Calcium	23,000	60,000	85,000	--	--	--	--	--	--
Chromium	17	15	14	21	--	--	230	690	--
Cobalt	15	14	7.0	20	--	--	4,700	12,000	--
Copper	25	22	20	2,900	--	--	2,900	8,200	--
Iron	19,000 †m	19,000 †m	18,000 †m	15,000	15,900	--	--	--	--
Lead	31	15	11	107	--	--	400	700	--
Magnesium	15,000	30,000	47,000	325,000	--	--	--	730,000	--
Manganese	340	390	250	630	636	--	1,600	4,100	--
Mercury	0.024	0.031	0.016 J	0.89	--	--	10	0.1	--
Nickel	32	32	22	100	--	--	1,600	4,100	--
Potassium	2,100	2,300	2,400	--	--	--	--	--	--
Selenium	0.41 J	ND U	0.41 J	1.3	--	--	390	1,000	--
Silver	0.28 J	0.24 J	0.21 J	4.4	--	--	390	1,000	--
Sodium	2,000	830	1,000	--	--	--	--	--	--
Thallium	ND U	0.30 J	ND U	2.6	--	--	6.3	160	--
Vanadium	23	20	18	550	--	--	550	1,400	--
Zinc	78	52	46	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)									
Barium	0.46 J	0.27 J	0.34 J	--	--	--	--	--	2
Cadmium	ND U	ND U	ND U	--	--	--	--	--	0.005
Cobalt	0.020 J	ND U	ND U	--	--	--	--	--	1
Iron	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	8.6 L	2.3 L	1.1 L	--	--	--	--	--	0.15
Nickel	0.015 J	ND U	ND U	--	--	--	--	--	0.1
Zinc	ND U	ND U	ND U	--	--	--	--	--	5
SPLP Metals (mg/L)									
Lead	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	1.1 L	2.0 L	0.61 L	--	--	--	--	--	0.15

**PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11
CONTAMINANTS OF CONCERN**

SITE	ISGS #1401V3-24 (Hidden Lake Forest Preserve)				Comparison Criteria					
	1401V3-24-B10	1401V3-24-B11	1401V3-24-B12	1401V3-24-B13	MACs			TACO		
BORING	1401V3-24-B10 (0-5)	1401V3-24-B11 (0-6)	1401V3-24-B12 (0-6)	1401V3-24-B13 (0-6)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	Soil	Soil	Soil	Soil						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-5	0-6	0-6	0-6						
pH	7.6	7.0	7.5	7.6						
PID (meter units)	--	--	--	--						
VOCs (mg/kg)										
2-Butanone (MEK)	ND U	0.0028 J	0.0030 J	ND U	--	--	--	--	--	--
Acetone	ND U	0.021 J	0.017 J	0.025 J	25	--	--	70,000	100,000	--
SVOCs (mg/kg)										
2-Methylnaphthalene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	ND U	570	--	0.94	4,700	120,000	--
Acenaphthylene	ND U	ND U	ND U	ND U	--	--	0.25	--	--	--
Anthracene	ND U	ND U	ND U	ND U	12,000	--	2.6	23,000	610,000	--
Benzo(a)anthracene	0.019 J	ND U	0.027 J	0.025 J	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	0.016 J	ND U	0.032 J	0.033 J	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	0.018 J	ND U	0.049	0.047	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	ND U	ND U	0.013 J	ND U	--	--	4.4	--	--	--
Benzo(k)fluoranthene	ND U	ND U	0.021 J	0.021 J	9	--	8.1	9	1,700	--
Chrysene	0.015 J	ND U	0.033 J	0.035 J	88	--	11	88	17,000	--
Dibenzo(a,h)anthracene	ND U	ND U	ND U	ND U	0.09	0.42	1	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	0.022 J	ND U	0.043	0.048	3,100	--	28	3,100	82,000	--
Fluorene	ND U	ND U	ND U	ND U	560	--	1.1	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND U	ND U	0.014 J	0.011 J	0.9	1.6	5.8	1.6	170	--
Naphthalene	0.0061 J	0.011 J	ND U	0.0085 J	1.8	--	0.26	170	1.8	--
Phenanthrene	0.017 J	ND U	0.015 J	0.020 J	--	--	15	--	--	--
Pyrene	0.022 J	ND U	0.041	0.044	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)										
Antimony	0.48 J	0.55 J	0.41 J	0.34 J	5	--	--	31	82	--
Arsenic	10	9.3	7.6	8.9	11.3	13	--	13	61	--
Barium	46	25	55	68	1,500	--	--	5,500	14,000	--
Beryllium	0.82	0.56	0.70	0.80	22	--	--	160	410	--
Boron	8.4	8.8	6.9	7.5	40	--	--	16,000	41,000	--
Cadmium	0.14	0.17	0.19	0.19	5.2	--	--	78	200	--
Calcium	32,000	75,000	30,000	16,000	--	--	--	--	--	--
Chromium	16	10	14	16	21	--	--	230	690	--
Cobalt	12	8.5	11	12	20	--	--	4,700	12,000	--
Copper	23	23	20	22	2,900	--	--	2,900	8,200	--
Iron	20,000 †m	20,000 †m	17,000 †m	18,000 †m	15,000	15,900	--	--	--	--
Lead	18	13	23	41	107	--	--	400	700	--
Magnesium	20,000	47,000	18,000	10,000	325,000	--	--	--	730,000	--
Manganese	370	310	340	280	630	636	--	1,600	4,100	--
Mercury	0.037	0.028	0.035	0.035	0.89	--	--	10	0.1	--
Nickel	31	22	26	28	100	--	--	1,600	4,100	--
Potassium	1,900	1,600	1,700	1,800	--	--	--	--	--	--
Selenium	0.42 J	ND U	0.40 J	ND U	1.3	--	--	390	1,000	--
Silver	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	--
Sodium	270	840	1,000	1,000	--	--	--	--	--	--
Thallium	0.31 J	ND U	0.36 J	ND U	2.6	--	--	6.3	160	--
Vanadium	22	13	19	24	550	--	--	550	1,400	--
Zinc	62	65	64	77	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	0.43 J	0.20 J	0.64	0.71	--	--	--	--	--	2
Cadmium	ND U	0.0025 J	ND U	0.0022 J	--	--	--	--	--	0.005
Cobalt	ND U	ND U	0.017 J	0.025	--	--	--	--	--	1
Iron	ND U	ND U	0.24 J	0.38 J	--	--	--	--	--	5
Lead	ND U	ND U	ND U	0.022 L	--	--	--	--	--	0.0075
Manganese	0.82 L	2.2 L	8.7 L	11 L	--	--	--	--	--	0.15
Nickel	ND U	0.013 J	0.012 J	0.018 J	--	--	--	--	--	0.1
Zinc	ND U	ND U	0.025 J	0.052 J	--	--	--	--	--	5
SPLP Metals (mg/L)										
Lead	NA	NA	NA	0.19 L	--	--	--	--	--	0.0075
Manganese	0.64 L	0.71 L	1.9 L	1.7 L	--	--	--	--	--	0.15

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Dean Tiebot
WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602
Generated 12/13/2022 4:18:19 PM

JOB DESCRIPTION

IDOT - 196-002-WO 13 IL 56

JOB NUMBER

500-225491-1

Eurofins Chicago

Job Notes

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Authorization



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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Job ID: 500-225491-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225491-1

Receipt

The samples were received on 11/15/2022 6:26 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.4° C and 4.8° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The tailing factor for Pentachlorophenol failed in the DFTPP analysis. The tailing factor was acceptable in the CCVIS. This indicates the system was in control and no corrective action was required. (DFTPP 500-687671/1)

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-687671 was outside the method criteria for the following analyte(s): Pentachlorophenol and Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-687671 was outside the method criteria for the following analyte(s): Phenol, 2-Fluorophenol and Di-n-octyl phthalate. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-686917 and analytical batch 500-687671 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8270D: Perylene-d12 Internal standard (ISTD) response for the following samples was outside of acceptance limits: 1401V3-24-B06 (0-6) (500-225491-6), 1401V3-24-B08 (0-6) (500-225491-8) and 1401V3-24-B09 (0-6) (500-225491-9). Analytes associated to this internal standard were non-detect and/or below the reporting limit; therefore, re-analysis was not performed.

Method 8270D: Surrogate recovery for the following samples were outside the upper control limit: 1401V3-24-B08 (0-6) (500-225491-8) and 1401V3-24-B09 (0-6) (500-225491-9). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8270D: The following samples contained one acid surrogate outside acceptance limits: 1401V3-24-B02 (0-6) (500-225491-2) and (500-225491-E-2-G MSD). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method 8270D: The following samples contained one acid and one base surrogate outside acceptance limits: (MB 500-686917/1-A). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-687903 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-687903 was outside the method criteria for the following analyte(s): Nitrobenzene, 2-Methylphenol, 2-Nitroaniline, 3 & 4 Methylphenol and 4-Chloro-3-methylphenol. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The following sample was diluted due to the nature of the sample matrix: 1401V3-24-B07 (0-6) (500-225491-7). Elevated reporting limits (RLs) are provided.

Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Job ID: 500-225491-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-689306 was outside the method criteria for the following analyte(s): Terphenyl-d14. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Perylene-d12 Internal standard (ISTD) response for the following sample was outside of acceptance limits: 1401V3-24-B04 (0-6) (500-225491-4). Analytes associated to this internal standard were below the reporting limit; therefore, re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B01 (0-6)

Lab Sample ID: 500-225491-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.015	J	0.037	0.0050	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.015	J	0.037	0.0072	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.025	J	0.037	0.0080	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.018	J	0.037	0.012	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.020	J	0.037	0.010	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.029	J	0.037	0.0069	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.017	J	0.037	0.0096	mg/Kg	1	✳	8270D	Total/NA
Naphthalene	0.0068	J	0.037	0.0057	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.012	J	0.037	0.0052	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.028	J	0.037	0.0074	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.53	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	9.5		0.56	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	22		0.56	0.064	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.72		0.22	0.052	mg/Kg	1	✳	6010B	Total/NA
Boron	10		2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.17		0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	55000		22	3.8	mg/Kg	2	✳	6010B	Total/NA
Chromium	14		0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	15		0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Copper	26		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	18000		11	5.8	mg/Kg	1	✳	6010B	Total/NA
Lead	14		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	29000		5.6	2.8	mg/Kg	1	✳	6010B	Total/NA
Manganese	380		0.56	0.081	mg/Kg	1	✳	6010B	Total/NA
Nickel	28		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	2100		28	9.9	mg/Kg	1	✳	6010B	Total/NA
Silver	0.22	J	0.28	0.072	mg/Kg	1	✳	6010B	Total/NA
Sodium	610		56	8.3	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.43	J	0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Vanadium	18		0.28	0.066	mg/Kg	1	✳	6010B	Total/NA
Zinc	63		1.1	0.49	mg/Kg	1	✳	6010B	Total/NA
Barium	0.25	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.28	J B	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	2.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.28		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.027		0.019	0.0062	mg/Kg	1	✳	7471B	Total/NA
pH	7.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-24-B02 (0-6)

Lab Sample ID: 500-225491-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.22		0.038	0.0068	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.036	J F1	0.038	0.0050	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.36	F1	0.038	0.0063	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.38	F1	0.038	0.0051	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.31	F1	0.038	0.0073	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.36	F1	0.038	0.0082	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.099	F1	0.038	0.012	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.16	F1	0.038	0.011	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.42	F1	0.038	0.010	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B02 (0-6) (Continued)

Lab Sample ID: 500-225491-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenz(a,h)anthracene	0.031	J	0.038	0.0073	mg/Kg	1	✳	8270D	Total/NA
Dibenzofuran	0.15	J F1	0.19	0.044	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	1.1		0.038	0.0070	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.34		0.038	0.0053	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.11		0.038	0.0098	mg/Kg	1	✳	8270D	Total/NA
Naphthalene	0.0092	J	0.038	0.0058	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	1.3		0.038	0.0053	mg/Kg	1	✳	8270D	Total/NA
Pyrene	1.1	F1	0.038	0.0075	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.43	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	5.0		0.57	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	17		0.57	0.065	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.66		0.23	0.053	mg/Kg	1	✳	6010B	Total/NA
Boron	6.5		2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.21		0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	17000		11	1.9	mg/Kg	1	✳	6010B	Total/NA
Chromium	11		0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	6.4		0.28	0.074	mg/Kg	1	✳	6010B	Total/NA
Copper	27		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	16000		11	5.9	mg/Kg	1	✳	6010B	Total/NA
Lead	21		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	12000		5.7	2.8	mg/Kg	1	✳	6010B	Total/NA
Manganese	110		0.57	0.082	mg/Kg	1	✳	6010B	Total/NA
Nickel	19		0.57	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	1200		28	10	mg/Kg	1	✳	6010B	Total/NA
Silver	0.32		0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Sodium	980		57	8.4	mg/Kg	1	✳	6010B	Total/NA
Vanadium	18		0.28	0.067	mg/Kg	1	✳	6010B	Total/NA
Zinc	100		1.1	0.50	mg/Kg	1	✳	6010B	Total/NA
Barium	0.62		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.32	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.8		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.75		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.030		0.019	0.0063	mg/Kg	1	✳	7471B	Total/NA
pH	6.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-24-B03 (0-6)

Lab Sample ID: 500-225491-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.032	J	0.054	0.010	mg/Kg	1	✳	8260D	Total/NA
2-Butanone (MEK)	0.0051	J	0.022	0.0016	mg/Kg	1	✳	8260D	Total/NA
Antimony	0.29	J	1.3	0.24	mg/Kg	1	✳	6010B	Total/NA
Arsenic	3.3		0.63	0.21	mg/Kg	1	✳	6010B	Total/NA
Barium	100		0.63	0.071	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.96		0.25	0.058	mg/Kg	1	✳	6010B	Total/NA
Boron	4.1		3.1	0.29	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.31		0.13	0.023	mg/Kg	1	✳	6010B	Total/NA
Calcium	7800		13	2.1	mg/Kg	1	✳	6010B	Total/NA
Chromium	19		0.63	0.31	mg/Kg	1	✳	6010B	Total/NA
Cobalt	10		0.31	0.082	mg/Kg	1	✳	6010B	Total/NA
Copper	25		0.63	0.18	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B03 (0-6) (Continued)

Lab Sample ID: 500-225491-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	13000		13	6.5	mg/Kg	1	✳	6010B	Total/NA
Lead	17		0.31	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	6600		6.3	3.1	mg/Kg	1	✳	6010B	Total/NA
Manganese	100		0.63	0.091	mg/Kg	1	✳	6010B	Total/NA
Nickel	29		0.63	0.18	mg/Kg	1	✳	6010B	Total/NA
Potassium	1100		31	11	mg/Kg	1	✳	6010B	Total/NA
Silver	0.51		0.31	0.081	mg/Kg	1	✳	6010B	Total/NA
Sodium	1200		63	9.3	mg/Kg	1	✳	6010B	Total/NA
Vanadium	32		0.31	0.074	mg/Kg	1	✳	6010B	Total/NA
Zinc	73		1.3	0.55	mg/Kg	1	✳	6010B	Total/NA
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.31	J B	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.71		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.84		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.050		0.019	0.0063	mg/Kg	1	✳	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B05 (0-6)

Lab Sample ID: 500-225491-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.024	J	0.061	0.011	mg/Kg	1	✳	8260D	Total/NA
2-Butanone (MEK)	0.0041	J	0.024	0.0018	mg/Kg	1	✳	8260D	Total/NA
Acenaphthene	0.042		0.039	0.0070	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.023	J	0.039	0.0051	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.088		0.039	0.0065	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.21		0.039	0.0052	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.20		0.039	0.0075	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.27		0.039	0.0084	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.070		0.039	0.013	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.090		0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.23		0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.028	J	0.039	0.0075	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.50		0.039	0.0072	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.087		0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.083		0.039	0.010	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.042	J	0.078	0.0072	mg/Kg	1	✳	8270D	Total/NA
Naphthalene	0.022	J	0.039	0.0060	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.43		0.039	0.0054	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.48		0.039	0.0077	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.62	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	12		0.60	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	77		0.60	0.068	mg/Kg	1	✳	6010B	Total/NA
Beryllium	1.1		0.24	0.056	mg/Kg	1	✳	6010B	Total/NA
Boron	8.6		3.0	0.28	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.13		0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	2000		12	2.0	mg/Kg	1	✳	6010B	Total/NA
Chromium	21		0.60	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	16		0.30	0.078	mg/Kg	1	✳	6010B	Total/NA
Copper	22		0.60	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	25000		12	6.2	mg/Kg	1	✳	6010B	Total/NA
Lead	19		0.30	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	4700		6.0	3.0	mg/Kg	1	✳	6010B	Total/NA
Manganese	120		0.60	0.086	mg/Kg	1	✳	6010B	Total/NA
Nickel	50		0.60	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	2400		30	11	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.50	J	0.60	0.35	mg/Kg	1	✳	6010B	Total/NA
Silver	0.59		0.30	0.077	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B05 (0-6) (Continued)

Lab Sample ID: 500-225491-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	1100		60	8.8	mg/Kg	1	☼	6010B	Total/NA
Vanadium	28		0.30	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	76		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Barium	0.64		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.32	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.033		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.82		0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.014		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	11		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.028		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.065	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.38		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	2.4		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.033		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	7.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-24-B06 (0-6)

Lab Sample ID: 500-225491-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.014	J	0.046	0.0086	mg/Kg	1	☼	8260D	Total/NA
2-Butanone (MEK)	0.0034	J	0.019	0.0014	mg/Kg	1	☼	8260D	Total/NA
Benzo[a]anthracene	0.016	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.016	J *3	0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.022	J *3	0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.015	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.027	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.011	J	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.027	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.65	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.4		0.57	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	58		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.83		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Boron	9.1		2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.27		0.11	0.021	mg/Kg	1	☼	6010B	Total/NA
Calcium	23000		11	1.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		11	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	31		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	15000		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	340		0.57	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		29	10	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.41	J	0.57	0.34	mg/Kg	1	☼	6010B	Total/NA
Silver	0.28	J	0.29	0.074	mg/Kg	1	☼	6010B	Total/NA
Sodium	2000		57	8.5	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	78		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.29	J B	0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B06 (0-6) (Continued)

Lab Sample ID: 500-225491-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	8.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.024		0.019	0.0063	mg/Kg	1	*	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B08 (0-6)

Lab Sample ID: 500-225491-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.011	J	0.053	0.0098	mg/Kg	1	✳	8260D	Total/NA
2-Butanone (MEK)	0.0016	J	0.021	0.0016	mg/Kg	1	✳	8260D	Total/NA
Antimony	0.59	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	8.3		0.58	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	42		0.58	0.066	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.85		0.23	0.054	mg/Kg	1	✳	6010B	Total/NA
Boron	10		2.9	0.27	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.20		0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	60000		23	3.9	mg/Kg	2	✳	6010B	Total/NA
Chromium	15		0.58	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	14		0.29	0.076	mg/Kg	1	✳	6010B	Total/NA
Copper	22		0.58	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	19000		12	6.1	mg/Kg	1	✳	6010B	Total/NA
Lead	15		0.29	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	30000		5.8	2.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	390		0.58	0.084	mg/Kg	1	✳	6010B	Total/NA
Nickel	32		0.58	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	2300		29	10	mg/Kg	1	✳	6010B	Total/NA
Silver	0.24	J	0.29	0.075	mg/Kg	1	✳	6010B	Total/NA
Sodium	830		58	8.6	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.30	J	0.58	0.29	mg/Kg	1	✳	6010B	Total/NA
Vanadium	20		0.29	0.069	mg/Kg	1	✳	6010B	Total/NA
Zinc	52		1.2	0.51	mg/Kg	1	✳	6010B	Total/NA
Barium	0.27	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.29	J B	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	2.3		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.031		0.018	0.0059	mg/Kg	1	✳	7471B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-24-B09 (0-6)

Lab Sample ID: 500-225491-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.016	J	0.055	0.010	mg/Kg	1	✳	8260D	Total/NA
2-Butanone (MEK)	0.0030	J	0.022	0.0016	mg/Kg	1	✳	8260D	Total/NA
Anthracene	0.0080	J	0.038	0.0063	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.015	J	0.038	0.0051	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B09 (0-6) (Continued)

Lab Sample ID: 500-225491-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	0.017	J*3	0.038	0.012	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.047		0.038	0.010	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.034	J	0.038	0.0070	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.010	J	0.077	0.0070	mg/Kg	1	✳	8270D	Total/NA
Naphthalene	0.029	J	0.038	0.0058	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.067		0.038	0.0053	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.049		0.038	0.0075	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.39	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	4.6		0.57	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	43		2.8	0.32	mg/Kg	5	✳	6010B	Total/NA
Beryllium	0.67		0.23	0.053	mg/Kg	1	✳	6010B	Total/NA
Boron	11		2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.23		0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	85000		57	9.6	mg/Kg	5	✳	6010B	Total/NA
Chromium	14		0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	7.0		0.28	0.074	mg/Kg	1	✳	6010B	Total/NA
Copper	20		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	18000		57	29	mg/Kg	5	✳	6010B	Total/NA
Lead	11		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	47000		28	14	mg/Kg	5	✳	6010B	Total/NA
Manganese	250		0.57	0.082	mg/Kg	1	✳	6010B	Total/NA
Nickel	22		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	2400		28	10	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.41	J	0.57	0.33	mg/Kg	1	✳	6010B	Total/NA
Silver	0.21	J	0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Sodium	1000		57	8.4	mg/Kg	1	✳	6010B	Total/NA
Vanadium	18		0.28	0.067	mg/Kg	1	✳	6010B	Total/NA
Zinc	46		1.1	0.50	mg/Kg	1	✳	6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.29	J B	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.61		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.016	J	0.017	0.0056	mg/Kg	1	✳	7471B	Total/NA
pH	7.3		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010B	Metals (ICP)	SW846	EET CHI
6010B	SPLP Metals	SW846	EET CHI
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
Frozen Preserve	Freezing Samples	None	EET CF

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225491-1	1401V3-24-B01 (0-6)	Solid	11/15/22 13:25	11/15/22 18:26
500-225491-2	1401V3-24-B02 (0-6)	Solid	11/15/22 13:35	11/15/22 18:26
500-225491-3	1401V3-24-B03 (0-6)	Solid	11/15/22 13:55	11/15/22 18:26
500-225491-5	1401V3-24-B05 (0-6)	Solid	11/15/22 14:40	11/15/22 18:26
500-225491-6	1401V3-24-B06 (0-6)	Solid	11/15/22 14:55	11/15/22 18:26
500-225491-8	1401V3-24-B08 (0-6)	Solid	11/15/22 15:30	11/15/22 18:26
500-225491-9	1401V3-24-B09 (0-6)	Solid	11/15/22 15:50	11/15/22 18:26

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B01 (0-6)

Lab Sample ID: 500-225491-1

Date Collected: 11/15/22 13:25

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 86.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.066		0.066	0.012	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
Benzene	<0.0066		0.0066	0.0012	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
Bromodichloromethane	<0.0066		0.0066	0.00052	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
Bromoform	<0.013		0.013	0.00085	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
Bromomethane	<0.027		0.027	0.0021	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
2-Butanone (MEK)	<0.027		0.027	0.0020	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
Carbon disulfide	<0.0066		0.0066	0.0016	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
Carbon tetrachloride	<0.0066		0.0066	0.0019	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
Chlorobenzene	<0.0066		0.0066	0.0010	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
Chloroethane	<0.027		0.027	0.0048	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
Chloroform	<0.0066		0.0066	0.0023	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
Chloromethane	<0.027		0.027	0.0044	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
cis-1,2-Dichloroethene	<0.0066		0.0066	0.0010	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
cis-1,3-Dichloropropene	<0.0066		0.0066	0.00074	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
Dibromochloromethane	<0.0066		0.0066	0.00029	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
1,1-Dichloroethane	<0.0066		0.0066	0.00057	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
1,2-Dichloroethane	<0.0066		0.0066	0.00041	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
1,1-Dichloroethene	<0.0066		0.0066	0.00093	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
1,2-Dichloropropane	<0.0066		0.0066	0.00057	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
1,3-Dichloropropene, Total	<0.013		0.013	0.0015	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
Ethylbenzene	<0.0066		0.0066	0.0032	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
2-Hexanone	<0.027		0.027	0.0031	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
Methylene Chloride	<0.066		0.066	0.038	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
4-Methyl-2-pentanone (MIBK)	<0.027		0.027	0.0023	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
Methyl tert-butyl ether	<0.0066		0.0066	0.00029	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
Styrene	<0.0066		0.0066	0.0046	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
1,1,2,2-Tetrachloroethane	<0.0066		0.0066	0.00046	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
Tetrachloroethene	<0.0066		0.0066	0.0013	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
Toluene	<0.0066		0.0066	0.0044	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
trans-1,2-Dichloroethene	<0.0066		0.0066	0.00081	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
trans-1,3-Dichloropropene	<0.0066		0.0066	0.00073	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
1,1,1-Trichloroethane	<0.0066		0.0066	0.00061	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
1,1,2-Trichloroethane	<0.0066		0.0066	0.00042	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
Trichloroethene	<0.0066		0.0066	0.0019	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
Vinyl acetate	<0.013		0.013	0.0023	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
Vinyl chloride	<0.013		0.013	0.0046	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1
Xylenes, Total	<0.013		0.013	0.0048	mg/Kg	☼	11/22/22 11:52	11/22/22 23:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		77 - 120	11/22/22 11:52	11/22/22 23:14	1
Dibromofluoromethane (Surr)	112		80 - 123	11/22/22 11:52	11/22/22 23:14	1
Toluene-d8 (Surr)	93		76 - 120	11/22/22 11:52	11/22/22 23:14	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Benzo[a]anthracene	0.015	J	0.037	0.0050	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Benzo[a]pyrene	0.015	J	0.037	0.0072	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1

Eurofins Chicago

Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B01 (0-6)

Lab Sample ID: 500-225491-1

Date Collected: 11/15/22 13:25

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 86.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	0.025	J	0.037	0.0080	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Benzo[g,h,i]perylene	0.018	J	0.037	0.012	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Chrysene	0.020	J	0.037	0.010	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Fluoranthene	0.029	J	0.037	0.0069	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Indeno[1,2,3-cd]pyrene	0.017	J	0.037	0.0096	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
2-Methylnaphthalene	<0.075		0.075	0.0068	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Naphthalene	0.0068	J	0.037	0.0057	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B01 (0-6)

Lab Sample ID: 500-225491-1

Date Collected: 11/15/22 13:25

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 86.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Phenanthrene	0.012	J	0.037	0.0052	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Pyrene	0.028	J	0.037	0.0074	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	11/27/22 10:59	12/01/22 17:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	102		43 - 145				11/27/22 10:59	12/01/22 17:11	1
2-Fluorophenol (Surr)	143		31 - 166				11/27/22 10:59	12/01/22 17:11	1
Nitrobenzene-d5 (Surr)	102		37 - 147				11/27/22 10:59	12/01/22 17:11	1
Phenol-d5 (Surr)	129		30 - 153				11/27/22 10:59	12/01/22 17:11	1
Terphenyl-d14 (Surr)	145		42 - 157				11/27/22 10:59	12/01/22 17:11	1
2,4,6-Tribromophenol (Surr)	122		31 - 143				11/27/22 10:59	12/01/22 17:11	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.53	J	1.1	0.22	mg/Kg	☼	11/30/22 16:37	12/02/22 22:46	1
Arsenic	9.5		0.56	0.19	mg/Kg	☼	11/30/22 16:37	12/02/22 22:46	1
Barium	22		0.56	0.064	mg/Kg	☼	11/30/22 16:37	12/02/22 22:46	1
Beryllium	0.72		0.22	0.052	mg/Kg	☼	11/30/22 16:37	12/02/22 22:46	1
Boron	10		2.8	0.26	mg/Kg	☼	11/30/22 16:37	12/02/22 22:46	1
Cadmium	0.17		0.11	0.020	mg/Kg	☼	11/30/22 16:37	12/02/22 22:46	1
Calcium	55000		22	3.8	mg/Kg	☼	11/30/22 16:37	12/05/22 15:12	2
Chromium	14		0.56	0.28	mg/Kg	☼	11/30/22 16:37	12/02/22 22:46	1
Cobalt	15		0.28	0.073	mg/Kg	☼	11/30/22 16:37	12/02/22 22:46	1
Copper	26		0.56	0.16	mg/Kg	☼	11/30/22 16:37	12/02/22 22:46	1
Iron	18000		11	5.8	mg/Kg	☼	11/30/22 16:37	12/02/22 22:46	1
Lead	14		0.28	0.13	mg/Kg	☼	11/30/22 16:37	12/02/22 22:46	1
Magnesium	29000		5.6	2.8	mg/Kg	☼	11/30/22 16:37	12/02/22 22:46	1
Manganese	380		0.56	0.081	mg/Kg	☼	11/30/22 16:37	12/02/22 22:46	1
Nickel	28		0.56	0.16	mg/Kg	☼	11/30/22 16:37	12/02/22 22:46	1
Potassium	2100		28	9.9	mg/Kg	☼	11/30/22 16:37	12/02/22 22:46	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	11/30/22 16:37	12/02/22 22:46	1
Silver	0.22	J	0.28	0.072	mg/Kg	☼	11/30/22 16:37	12/02/22 22:46	1
Sodium	610		56	8.3	mg/Kg	☼	11/30/22 16:37	12/02/22 22:46	1
Thallium	0.43	J	0.56	0.28	mg/Kg	☼	11/30/22 16:37	12/02/22 22:46	1
Vanadium	18		0.28	0.066	mg/Kg	☼	11/30/22 16:37	12/02/22 22:46	1
Zinc	63		1.1	0.49	mg/Kg	☼	11/30/22 16:37	12/02/22 22:46	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.25	J	0.50	0.050	mg/L		11/22/22 19:35	11/23/22 22:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 19:35	11/23/22 22:11	1
Boron	0.28	J B	0.50	0.050	mg/L		11/22/22 19:35	11/23/22 22:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 19:35	11/23/22 22:11	1

Eurofins Chicago

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B01 (0-6)

Lab Sample ID: 500-225491-1

Date Collected: 11/15/22 13:25

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 86.8

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:11	1
Cobalt	<0.025		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:11	1
Iron	<0.40		0.40	0.20	mg/L		11/22/22 19:35	11/23/22 22:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 19:35	11/23/22 22:11	1
Manganese	2.2		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:11	1
Nickel	0.013	J	0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:11	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 19:35	11/23/22 22:11	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:11	1
Zinc	<0.50		0.50	0.020	mg/L		11/22/22 19:35	11/23/22 22:11	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.28		0.025	0.010	mg/L		11/22/22 19:40	11/29/22 10:10	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 19:35	11/29/22 17:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 19:35	11/29/22 17:44	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/28/22 12:00	11/29/22 11:23	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.019	0.0062	mg/Kg	☆	12/02/22 15:35	12/05/22 07:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.2		0.2	0.2	SU			11/20/22 19:23	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B02 (0-6)

Lab Sample ID: 500-225491-2

Date Collected: 11/15/22 13:35

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 85.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.054		0.054	0.0099	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
Benzene	<0.0054		0.0054	0.00096	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
Bromodichloromethane	<0.0054		0.0054	0.00042	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
Bromoform	<0.011		0.011	0.00069	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
Bromomethane	<0.021		0.021	0.0017	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
2-Butanone (MEK)	<0.021		0.021	0.0016	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
Carbon disulfide	<0.0054		0.0054	0.0013	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
Carbon tetrachloride	<0.0054		0.0054	0.0015	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
Chlorobenzene	<0.0054		0.0054	0.00083	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
Chloroethane	<0.021		0.021	0.0039	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
Chloroform	<0.0054		0.0054	0.0018	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
Chloromethane	<0.021		0.021	0.0035	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.00080	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.00060	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
Dibromochloromethane	<0.0054		0.0054	0.00024	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
1,1-Dichloroethane	<0.0054		0.0054	0.00046	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
1,2-Dichloroethane	<0.0054		0.0054	0.00033	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
1,1-Dichloroethene	<0.0054		0.0054	0.00075	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
1,2-Dichloropropane	<0.0054		0.0054	0.00046	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
1,3-Dichloropropene, Total	<0.011		0.011	0.0012	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
Ethylbenzene	<0.0054		0.0054	0.0026	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
2-Hexanone	<0.021		0.021	0.0025	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
Methylene Chloride	<0.054		0.054	0.031	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
4-Methyl-2-pentanone (MIBK)	<0.021		0.021	0.0018	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
Methyl tert-butyl ether	<0.0054		0.0054	0.00024	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
Styrene	<0.0054		0.0054	0.0038	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
1,1,2,2-Tetrachloroethane	<0.0054		0.0054	0.00038	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
Tetrachloroethene	<0.0054		0.0054	0.0010	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
Toluene	<0.0054		0.0054	0.0035	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.00065	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.00059	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.00049	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.00034	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
Trichloroethene	<0.0054		0.0054	0.0015	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
Vinyl acetate	<0.011		0.011	0.0018	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
Vinyl chloride	<0.011		0.011	0.0038	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1
Xylenes, Total	<0.011		0.011	0.0039	mg/Kg	☼	11/22/22 11:52	11/22/22 23:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		77 - 120	11/22/22 11:52	11/22/22 23:39	1
Dibromofluoromethane (Surr)	111		80 - 123	11/22/22 11:52	11/22/22 23:39	1
Toluene-d8 (Surr)	91		76 - 120	11/22/22 11:52	11/22/22 23:39	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.22		0.038	0.0068	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
Acenaphthylene	0.036	J F1	0.038	0.0050	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
Anthracene	0.36	F1	0.038	0.0063	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
Benzo[a]anthracene	0.38	F1	0.038	0.0051	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
Benzo[a]pyrene	0.31	F1	0.038	0.0073	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B02 (0-6)

Lab Sample ID: 500-225491-2

Date Collected: 11/15/22 13:35

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 85.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	0.36	F1	0.038	0.0082	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
Benzo[g,h,i]perylene	0.099	F1	0.038	0.012	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
Benzo[k]fluoranthene	0.16	F1	0.038	0.011	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
Bis(2-chloroethoxy)methane	<0.19	F1	0.19	0.039	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
Bis(2-chloroethyl)ether	<0.19	F1	0.19	0.057	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
Bis(2-ethylhexyl) phthalate	<0.19	F1	0.19	0.069	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
4-Bromophenyl phenyl ether	<0.19	F1	0.19	0.050	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
Butyl benzyl phthalate	<0.19	F1	0.19	0.072	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
4-Chloro-3-methylphenol	<0.38	F1	0.38	0.13	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
2-Chloronaphthalene	<0.19	F1	0.19	0.042	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
2-Chlorophenol	<0.19	F1	0.19	0.065	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
4-Chlorophenyl phenyl ether	<0.19	F1	0.19	0.044	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
Chrysene	0.42	F1	0.038	0.010	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
Dibenz(a,h)anthracene	0.031	J	0.038	0.0073	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
Dibenzofuran	0.15	J F1	0.19	0.044	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
Diethyl phthalate	<0.19	F1	0.19	0.064	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
2,4-Dimethylphenol	<0.38	F1	0.38	0.14	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
Dimethyl phthalate	<0.19	F1	0.19	0.050	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
Di-n-butyl phthalate	<0.19	F1	0.19	0.058	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
4,6-Dinitro-2-methylphenol	<0.77	F1	0.77	0.30	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
2,4-Dinitrophenol	<0.77	F1	0.77	0.67	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
2,4-Dinitrotoluene	<0.19	F1	0.19	0.060	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
2,6-Dinitrotoluene	<0.19	F1	0.19	0.075	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
Di-n-octyl phthalate	<0.19	F1	0.19	0.062	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
Fluoranthene	1.1		0.038	0.0070	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
Fluorene	0.34		0.038	0.0053	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
Hexachlorocyclopentadiene	<0.77	F1	0.77	0.22	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
Indeno[1,2,3-cd]pyrene	0.11		0.038	0.0098	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
Isophorone	<0.19	F1	0.19	0.043	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
2-Methylphenol	<0.19	F1	0.19	0.061	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
3 & 4 Methylphenol	<0.19	F1	0.19	0.063	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
Naphthalene	0.0092	J	0.038	0.0058	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
2-Nitroaniline	<0.19	F1	0.19	0.051	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
Nitrobenzene	<0.038	F1	0.038	0.0095	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
2-Nitrophenol	<0.38	F1	0.38	0.090	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1
4-Nitrophenol	<0.77	F1	0.77	0.36	mg/Kg	☼	11/27/22 10:59	12/01/22 17:34	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B02 (0-6)

Lab Sample ID: 500-225491-2

Date Collected: 11/15/22 13:35

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 85.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.077	F1	0.077	0.046	mg/Kg	✧	11/27/22 10:59	12/01/22 17:34	1
N-Nitrosodiphenylamine	<0.19	F1	0.19	0.045	mg/Kg	✧	11/27/22 10:59	12/01/22 17:34	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	✧	11/27/22 10:59	12/01/22 17:34	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	✧	11/27/22 10:59	12/01/22 17:34	1
Phenanthrene	1.3		0.038	0.0053	mg/Kg	✧	11/27/22 10:59	12/01/22 17:34	1
Phenol	<0.19	F1	0.19	0.084	mg/Kg	✧	11/27/22 10:59	12/01/22 17:34	1
Pyrene	1.1	F1	0.038	0.0075	mg/Kg	✧	11/27/22 10:59	12/01/22 17:34	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	✧	11/27/22 10:59	12/01/22 17:34	1
2,4,5-Trichlorophenol	<0.38	F1	0.38	0.087	mg/Kg	✧	11/27/22 10:59	12/01/22 17:34	1
2,4,6-Trichlorophenol	<0.38	F1	0.38	0.13	mg/Kg	✧	11/27/22 10:59	12/01/22 17:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	105		43 - 145				11/27/22 10:59	12/01/22 17:34	1
2-Fluorophenol (Surr)	179	S1+	31 - 166				11/27/22 10:59	12/01/22 17:34	1
Nitrobenzene-d5 (Surr)	99		37 - 147				11/27/22 10:59	12/01/22 17:34	1
Phenol-d5 (Surr)	146		30 - 153				11/27/22 10:59	12/01/22 17:34	1
Terphenyl-d14 (Surr)	138		42 - 157				11/27/22 10:59	12/01/22 17:34	1
2,4,6-Tribromophenol (Surr)	122		31 - 143				11/27/22 10:59	12/01/22 17:34	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J	1.1	0.22	mg/Kg	✧	11/30/22 16:37	12/02/22 22:49	1
Arsenic	5.0		0.57	0.19	mg/Kg	✧	11/30/22 16:37	12/02/22 22:49	1
Barium	17		0.57	0.065	mg/Kg	✧	11/30/22 16:37	12/02/22 22:49	1
Beryllium	0.66		0.23	0.053	mg/Kg	✧	11/30/22 16:37	12/02/22 22:49	1
Boron	6.5		2.8	0.26	mg/Kg	✧	11/30/22 16:37	12/02/22 22:49	1
Cadmium	0.21		0.11	0.020	mg/Kg	✧	11/30/22 16:37	12/02/22 22:49	1
Calcium	17000		11	1.9	mg/Kg	✧	11/30/22 16:37	12/02/22 22:49	1
Chromium	11		0.57	0.28	mg/Kg	✧	11/30/22 16:37	12/02/22 22:49	1
Cobalt	6.4		0.28	0.074	mg/Kg	✧	11/30/22 16:37	12/02/22 22:49	1
Copper	27		0.57	0.16	mg/Kg	✧	11/30/22 16:37	12/02/22 22:49	1
Iron	16000		11	5.9	mg/Kg	✧	11/30/22 16:37	12/02/22 22:49	1
Lead	21		0.28	0.13	mg/Kg	✧	11/30/22 16:37	12/02/22 22:49	1
Magnesium	12000		5.7	2.8	mg/Kg	✧	11/30/22 16:37	12/02/22 22:49	1
Manganese	110		0.57	0.082	mg/Kg	✧	11/30/22 16:37	12/02/22 22:49	1
Nickel	19		0.57	0.17	mg/Kg	✧	11/30/22 16:37	12/02/22 22:49	1
Potassium	1200		28	10	mg/Kg	✧	11/30/22 16:37	12/02/22 22:49	1
Selenium	<0.57		0.57	0.33	mg/Kg	✧	11/30/22 16:37	12/02/22 22:49	1
Silver	0.32		0.28	0.073	mg/Kg	✧	11/30/22 16:37	12/02/22 22:49	1
Sodium	980		57	8.4	mg/Kg	✧	11/30/22 16:37	12/02/22 22:49	1
Thallium	<0.57		0.57	0.28	mg/Kg	✧	11/30/22 16:37	12/02/22 22:49	1
Vanadium	18		0.28	0.067	mg/Kg	✧	11/30/22 16:37	12/02/22 22:49	1
Zinc	100		1.1	0.50	mg/Kg	✧	11/30/22 16:37	12/02/22 22:49	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.62		0.50	0.050	mg/L		11/22/22 19:35	11/23/22 22:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 19:35	11/23/22 22:34	1
Boron	0.32	J B	0.50	0.050	mg/L		11/22/22 19:35	11/23/22 22:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 19:35	11/23/22 22:34	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B02 (0-6)

Lab Sample ID: 500-225491-2

Date Collected: 11/15/22 13:35

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 85.1

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:34	1
Cobalt	0.013	J	0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:34	1
Iron	<0.40		0.40	0.20	mg/L		11/22/22 19:35	11/23/22 22:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 19:35	11/23/22 22:34	1
Manganese	2.8		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:34	1
Nickel	<0.025		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:34	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 19:35	11/23/22 22:34	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:34	1
Zinc	<0.50		0.50	0.020	mg/L		11/22/22 19:35	11/23/22 22:34	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.75		0.025	0.010	mg/L		11/22/22 19:40	11/29/22 10:23	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 19:35	11/29/22 17:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 19:35	11/29/22 17:52	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/28/22 12:00	11/29/22 11:26	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.019	0.0063	mg/Kg	☆	12/02/22 15:35	12/05/22 07:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.9		0.2	0.2	SU			11/20/22 19:25	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B03 (0-6)

Lab Sample ID: 500-225491-3

Date Collected: 11/15/22 13:55

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 77.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.032	J	0.054	0.010	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
Benzene	<0.0054		0.0054	0.00098	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
Bromodichloromethane	<0.0054		0.0054	0.00042	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
Bromoform	<0.011		0.011	0.00070	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
Bromomethane	<0.022		0.022	0.0017	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
2-Butanone (MEK)	0.0051	J	0.022	0.0016	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
Carbon disulfide	<0.0054		0.0054	0.0013	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
Carbon tetrachloride	<0.0054		0.0054	0.0015	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
Chlorobenzene	<0.0054		0.0054	0.00084	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
Chloroethane	<0.022		0.022	0.0039	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
Chloroform	<0.0054		0.0054	0.0018	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
Chloromethane	<0.022		0.022	0.0036	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.00082	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.00061	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
Dibromochloromethane	<0.0054		0.0054	0.00024	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
1,1-Dichloroethane	<0.0054		0.0054	0.00047	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
1,2-Dichloroethane	<0.0054		0.0054	0.00034	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
1,1-Dichloroethene	<0.0054		0.0054	0.00076	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
1,2-Dichloropropane	<0.0054		0.0054	0.00047	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
1,3-Dichloropropene, Total	<0.011		0.011	0.0012	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
Ethylbenzene	<0.0054		0.0054	0.0026	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
2-Hexanone	<0.022		0.022	0.0025	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
Methylene Chloride	<0.054		0.054	0.032	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
4-Methyl-2-pentanone (MIBK)	<0.022		0.022	0.0018	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
Methyl tert-butyl ether	<0.0054		0.0054	0.00024	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
Styrene	<0.0054		0.0054	0.0038	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
1,1,2,2-Tetrachloroethane	<0.0054		0.0054	0.00038	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
Tetrachloroethene	<0.0054		0.0054	0.0010	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
Toluene	<0.0054		0.0054	0.0036	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.00066	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.00060	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.00050	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.00035	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
Trichloroethene	<0.0054		0.0054	0.0015	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
Vinyl acetate	<0.011		0.011	0.0018	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
Vinyl chloride	<0.011		0.011	0.0038	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1
Xylenes, Total	<0.011		0.011	0.0039	mg/Kg	☼	11/22/22 11:52	11/23/22 00:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		77 - 120	11/22/22 11:52	11/23/22 00:03	1
Dibromofluoromethane (Surr)	112		80 - 123	11/22/22 11:52	11/23/22 00:03	1
Toluene-d8 (Surr)	93		76 - 120	11/22/22 11:52	11/23/22 00:03	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0073	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
Anthracene	<0.041		0.041	0.0068	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
Benzo[a]pyrene	<0.041		0.041	0.0079	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B03 (0-6)

Lab Sample ID: 500-225491-3

Date Collected: 11/15/22 13:55

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 77.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.041		0.041	0.0088	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
1,4-Dichlorobenzene	<0.21		0.21	0.052	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
2,4-Dimethylphenol	<0.41		0.41	0.15	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
2,6-Dinitrotoluene	<0.21		0.21	0.080	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
Fluorene	<0.041		0.041	0.0057	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
Hexachlorobenzene	<0.082		0.082	0.0095	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	11/27/22 10:59	12/01/22 18:43	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B03 (0-6)

Lab Sample ID: 500-225491-3

Date Collected: 11/15/22 13:55

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 77.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	✳	11/27/22 10:59	12/01/22 18:43	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	✳	11/27/22 10:59	12/01/22 18:43	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	✳	11/27/22 10:59	12/01/22 18:43	1
Pentachlorophenol	<0.82		0.82	0.66	mg/Kg	✳	11/27/22 10:59	12/01/22 18:43	1
Phenanthrene	<0.041		0.041	0.0057	mg/Kg	✳	11/27/22 10:59	12/01/22 18:43	1
Phenol	<0.21		0.21	0.091	mg/Kg	✳	11/27/22 10:59	12/01/22 18:43	1
Pyrene	<0.041		0.041	0.0081	mg/Kg	✳	11/27/22 10:59	12/01/22 18:43	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	✳	11/27/22 10:59	12/01/22 18:43	1
2,4,5-Trichlorophenol	<0.41		0.41	0.093	mg/Kg	✳	11/27/22 10:59	12/01/22 18:43	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	✳	11/27/22 10:59	12/01/22 18:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	86		43 - 145				11/27/22 10:59	12/01/22 18:43	1
2-Fluorophenol (Surr)	123		31 - 166				11/27/22 10:59	12/01/22 18:43	1
Nitrobenzene-d5 (Surr)	91		37 - 147				11/27/22 10:59	12/01/22 18:43	1
Phenol-d5 (Surr)	102		30 - 153				11/27/22 10:59	12/01/22 18:43	1
Terphenyl-d14 (Surr)	136		42 - 157				11/27/22 10:59	12/01/22 18:43	1
2,4,6-Tribromophenol (Surr)	113		31 - 143				11/27/22 10:59	12/01/22 18:43	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.29	J	1.3	0.24	mg/Kg	✳	11/30/22 16:37	12/02/22 22:52	1
Arsenic	3.3		0.63	0.21	mg/Kg	✳	11/30/22 16:37	12/02/22 22:52	1
Barium	100		0.63	0.071	mg/Kg	✳	11/30/22 16:37	12/02/22 22:52	1
Beryllium	0.96		0.25	0.058	mg/Kg	✳	11/30/22 16:37	12/02/22 22:52	1
Boron	4.1		3.1	0.29	mg/Kg	✳	11/30/22 16:37	12/02/22 22:52	1
Cadmium	0.31		0.13	0.023	mg/Kg	✳	11/30/22 16:37	12/02/22 22:52	1
Calcium	7800		13	2.1	mg/Kg	✳	11/30/22 16:37	12/02/22 22:52	1
Chromium	19		0.63	0.31	mg/Kg	✳	11/30/22 16:37	12/02/22 22:52	1
Cobalt	10		0.31	0.082	mg/Kg	✳	11/30/22 16:37	12/02/22 22:52	1
Copper	25		0.63	0.18	mg/Kg	✳	11/30/22 16:37	12/02/22 22:52	1
Iron	13000		13	6.5	mg/Kg	✳	11/30/22 16:37	12/02/22 22:52	1
Lead	17		0.31	0.14	mg/Kg	✳	11/30/22 16:37	12/02/22 22:52	1
Magnesium	6600		6.3	3.1	mg/Kg	✳	11/30/22 16:37	12/02/22 22:52	1
Manganese	100		0.63	0.091	mg/Kg	✳	11/30/22 16:37	12/02/22 22:52	1
Nickel	29		0.63	0.18	mg/Kg	✳	11/30/22 16:37	12/02/22 22:52	1
Potassium	1100		31	11	mg/Kg	✳	11/30/22 16:37	12/02/22 22:52	1
Selenium	<0.63		0.63	0.37	mg/Kg	✳	11/30/22 16:37	12/02/22 22:52	1
Silver	0.51		0.31	0.081	mg/Kg	✳	11/30/22 16:37	12/02/22 22:52	1
Sodium	1200		63	9.3	mg/Kg	✳	11/30/22 16:37	12/02/22 22:52	1
Thallium	<0.63		0.63	0.31	mg/Kg	✳	11/30/22 16:37	12/02/22 22:52	1
Vanadium	32		0.31	0.074	mg/Kg	✳	11/30/22 16:37	12/02/22 22:52	1
Zinc	73		1.3	0.55	mg/Kg	✳	11/30/22 16:37	12/02/22 22:52	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.39	J	0.50	0.050	mg/L		11/22/22 19:35	11/23/22 22:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 19:35	11/23/22 22:38	1
Boron	0.31	J B	0.50	0.050	mg/L		11/22/22 19:35	11/23/22 22:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 19:35	11/23/22 22:38	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B03 (0-6)

Lab Sample ID: 500-225491-3

Date Collected: 11/15/22 13:55

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 77.4

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:38	1
Cobalt	<0.025		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:38	1
Iron	<0.40		0.40	0.20	mg/L		11/22/22 19:35	11/23/22 22:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 19:35	11/23/22 22:38	1
Manganese	0.71		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:38	1
Nickel	<0.025		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:38	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 19:35	11/23/22 22:38	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:38	1
Zinc	<0.50		0.50	0.020	mg/L		11/22/22 19:35	11/23/22 22:38	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.84		0.025	0.010	mg/L		11/22/22 19:40	11/29/22 10:26	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 19:35	11/29/22 17:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 19:35	11/29/22 17:54	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/28/22 12:00	11/29/22 11:28	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.050		0.019	0.0063	mg/Kg	☆	12/02/22 15:35	12/05/22 07:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.9		0.2	0.2	SU			11/20/22 19:28	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B05 (0-6)

Lab Sample ID: 500-225491-5

Date Collected: 11/15/22 14:40

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 80.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.024	J	0.061	0.011	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
Benzene	<0.0061		0.0061	0.0011	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
Bromodichloromethane	<0.0061		0.0061	0.00048	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
Bromoform	<0.012		0.012	0.00078	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
Bromomethane	<0.024		0.024	0.0020	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
2-Butanone (MEK)	0.0041	J	0.024	0.0018	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
Carbon disulfide	<0.0061		0.0061	0.0015	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
Carbon tetrachloride	<0.0061		0.0061	0.0017	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
Chlorobenzene	<0.0061		0.0061	0.00094	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
Chloroethane	<0.024		0.024	0.0044	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
Chloroform	<0.0061		0.0061	0.0021	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
Chloromethane	<0.024		0.024	0.0040	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
cis-1,2-Dichloroethene	<0.0061		0.0061	0.00092	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
cis-1,3-Dichloropropene	<0.0061		0.0061	0.00068	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
Dibromochloromethane	<0.0061		0.0061	0.00027	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
1,1-Dichloroethane	<0.0061		0.0061	0.00052	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
1,2-Dichloroethane	<0.0061		0.0061	0.00038	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
1,1-Dichloroethene	<0.0061		0.0061	0.00085	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
1,2-Dichloropropane	<0.0061		0.0061	0.00052	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
1,3-Dichloropropane, Total	<0.012		0.012	0.0013	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
Ethylbenzene	<0.0061		0.0061	0.0029	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
2-Hexanone	<0.024		0.024	0.0028	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
Methylene Chloride	<0.061		0.061	0.035	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
4-Methyl-2-pentanone (MIBK)	<0.024		0.024	0.0021	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
Methyl tert-butyl ether	<0.0061		0.0061	0.00027	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
Styrene	<0.0061		0.0061	0.0043	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
1,1,2,2-Tetrachloroethane	<0.0061		0.0061	0.00043	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
Tetrachloroethene	<0.0061		0.0061	0.0012	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
Toluene	<0.0061		0.0061	0.0040	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
trans-1,2-Dichloroethene	<0.0061		0.0061	0.00074	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
trans-1,3-Dichloropropene	<0.0061		0.0061	0.00067	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
1,1,1-Trichloroethane	<0.0061		0.0061	0.00056	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
1,1,2-Trichloroethane	<0.0061		0.0061	0.00039	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
Trichloroethene	<0.0061		0.0061	0.0017	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
Vinyl acetate	<0.012		0.012	0.0021	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
Vinyl chloride	<0.012		0.012	0.0043	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1
Xylenes, Total	<0.012		0.012	0.0044	mg/Kg	☼	11/22/22 11:52	11/23/22 00:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		77 - 120	11/22/22 11:52	11/23/22 00:53	1
Dibromofluoromethane (Surr)	111		80 - 123	11/22/22 11:52	11/23/22 00:53	1
Toluene-d8 (Surr)	93		76 - 120	11/22/22 11:52	11/23/22 00:53	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.042		0.039	0.0070	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Acenaphthylene	0.023	J	0.039	0.0051	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Anthracene	0.088		0.039	0.0065	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Benzo[a]anthracene	0.21		0.039	0.0052	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Benzo[a]pyrene	0.20		0.039	0.0075	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B05 (0-6)

Lab Sample ID: 500-225491-5

Date Collected: 11/15/22 14:40

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 80.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	0.27		0.039	0.0084	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Benzo[g,h,i]perylene	0.070		0.039	0.013	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Benzo[k]fluoranthene	0.090		0.039	0.011	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Chrysene	0.23		0.039	0.011	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Dibenz(a,h)anthracene	0.028	J	0.039	0.0075	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
2,4-Dinitrophenol	<0.78		0.78	0.69	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Fluoranthene	0.50		0.039	0.0072	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Fluorene	0.087		0.039	0.0055	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Indeno[1,2,3-cd]pyrene	0.083		0.039	0.010	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
2-Methylnaphthalene	0.042	J	0.078	0.0072	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Naphthalene	0.022	J	0.039	0.0060	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B05 (0-6)

Lab Sample ID: 500-225491-5

Date Collected: 11/15/22 14:40

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 80.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.078		0.078	0.048	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Phenanthrene	0.43		0.039	0.0054	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Pyrene	0.48		0.039	0.0077	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	11/27/22 10:59	12/12/22 20:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	50		43 - 145				11/27/22 10:59	12/12/22 20:31	1
2-Fluorophenol (Surr)	72		31 - 166				11/27/22 10:59	12/12/22 20:31	1
Nitrobenzene-d5 (Surr)	46		37 - 147				11/27/22 10:59	12/12/22 20:31	1
Phenol-d5 (Surr)	64		30 - 153				11/27/22 10:59	12/12/22 20:31	1
Terphenyl-d14 (Surr)	74		42 - 157				11/27/22 10:59	12/12/22 20:31	1
2,4,6-Tribromophenol (Surr)	49		31 - 143				11/27/22 10:59	12/12/22 20:31	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.62	J	1.2	0.23	mg/Kg	☼	11/30/22 16:37	12/02/22 23:05	1
Arsenic	12		0.60	0.20	mg/Kg	☼	11/30/22 16:37	12/02/22 23:05	1
Barium	77		0.60	0.068	mg/Kg	☼	11/30/22 16:37	12/02/22 23:05	1
Beryllium	1.1		0.24	0.056	mg/Kg	☼	11/30/22 16:37	12/02/22 23:05	1
Boron	8.6		3.0	0.28	mg/Kg	☼	11/30/22 16:37	12/02/22 23:05	1
Cadmium	0.13		0.12	0.021	mg/Kg	☼	11/30/22 16:37	12/02/22 23:05	1
Calcium	2000		12	2.0	mg/Kg	☼	11/30/22 16:37	12/02/22 23:05	1
Chromium	21		0.60	0.29	mg/Kg	☼	11/30/22 16:37	12/02/22 23:05	1
Cobalt	16		0.30	0.078	mg/Kg	☼	11/30/22 16:37	12/02/22 23:05	1
Copper	22		0.60	0.17	mg/Kg	☼	11/30/22 16:37	12/02/22 23:05	1
Iron	25000		12	6.2	mg/Kg	☼	11/30/22 16:37	12/02/22 23:05	1
Lead	19		0.30	0.14	mg/Kg	☼	11/30/22 16:37	12/02/22 23:05	1
Magnesium	4700		6.0	3.0	mg/Kg	☼	11/30/22 16:37	12/02/22 23:05	1
Manganese	120		0.60	0.086	mg/Kg	☼	11/30/22 16:37	12/02/22 23:05	1
Nickel	50		0.60	0.17	mg/Kg	☼	11/30/22 16:37	12/02/22 23:05	1
Potassium	2400		30	11	mg/Kg	☼	11/30/22 16:37	12/02/22 23:05	1
Selenium	0.50	J	0.60	0.35	mg/Kg	☼	11/30/22 16:37	12/02/22 23:05	1
Silver	0.59		0.30	0.077	mg/Kg	☼	11/30/22 16:37	12/02/22 23:05	1
Sodium	1100		60	8.8	mg/Kg	☼	11/30/22 16:37	12/02/22 23:05	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	11/30/22 16:37	12/02/22 23:05	1
Vanadium	28		0.30	0.070	mg/Kg	☼	11/30/22 16:37	12/02/22 23:05	1
Zinc	76		1.2	0.52	mg/Kg	☼	11/30/22 16:37	12/02/22 23:05	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.64		0.50	0.050	mg/L		11/22/22 19:35	11/23/22 22:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 19:35	11/23/22 22:44	1
Boron	0.32	J B	0.50	0.050	mg/L		11/22/22 19:35	11/23/22 22:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 19:35	11/23/22 22:44	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B05 (0-6)

Lab Sample ID: 500-225491-5

Date Collected: 11/15/22 14:40

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 80.6

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:44	1
Cobalt	0.033		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:44	1
Iron	0.82		0.40	0.20	mg/L		11/22/22 19:35	11/23/22 22:44	1
Lead	0.014		0.0075	0.0075	mg/L		11/22/22 19:35	11/23/22 22:44	1
Manganese	11		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:44	1
Nickel	0.028		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:44	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 19:35	11/23/22 22:44	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:44	1
Zinc	0.065 J		0.50	0.020	mg/L		11/22/22 19:35	11/23/22 22:44	1

Method: SW846 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.38		0.0075	0.0075	mg/L		11/22/22 19:40	11/29/22 10:32	1
Manganese	2.4		0.025	0.010	mg/L		11/22/22 19:40	11/29/22 10:32	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 19:35	11/29/22 17:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 19:35	11/29/22 17:58	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/28/22 12:00	11/29/22 11:49	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.018	0.0061	mg/Kg	☆	12/02/22 15:35	12/05/22 07:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.1		0.2	0.2	SU			11/20/22 19:33	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B06 (0-6)

Lab Sample ID: 500-225491-6

Date Collected: 11/15/22 14:55

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 84.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.014	J	0.046	0.0086	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
Benzene	<0.0046		0.0046	0.00084	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
Bromodichloromethane	<0.0046		0.0046	0.00036	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
Bromoform	<0.0093		0.0093	0.00059	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
Bromomethane	<0.019		0.019	0.0015	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
2-Butanone (MEK)	0.0034	J	0.019	0.0014	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
Carbon disulfide	<0.0046		0.0046	0.0011	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
Carbon tetrachloride	<0.0046		0.0046	0.0013	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
Chlorobenzene	<0.0046		0.0046	0.00072	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
Chloroethane	<0.019		0.019	0.0033	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
Chloroform	<0.0046		0.0046	0.0016	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
Chloromethane	<0.019		0.019	0.0031	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00052	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
Dibromochloromethane	<0.0046		0.0046	0.00020	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
1,1-Dichloroethane	<0.0046		0.0046	0.00040	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
1,2-Dichloroethane	<0.0046		0.0046	0.00029	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
1,1-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
1,2-Dichloropropane	<0.0046		0.0046	0.00040	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
1,3-Dichloropropene, Total	<0.0093		0.0093	0.0010	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
Ethylbenzene	<0.0046		0.0046	0.0022	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
2-Hexanone	<0.019		0.019	0.0021	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
Methylene Chloride	<0.046		0.046	0.027	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
4-Methyl-2-pentanone (MIBK)	<0.019		0.019	0.0016	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00020	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
Styrene	<0.0046		0.0046	0.0033	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00033	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
Tetrachloroethene	<0.0046		0.0046	0.00088	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
Toluene	<0.0046		0.0046	0.0031	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00057	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00051	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00043	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00030	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
Trichloroethene	<0.0046		0.0046	0.0013	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
Vinyl acetate	<0.0093		0.0093	0.0016	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
Vinyl chloride	<0.0093		0.0093	0.0033	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1
Xylenes, Total	<0.0093		0.0093	0.0033	mg/Kg	☼	11/22/22 11:52	11/23/22 01:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		77 - 120	11/22/22 11:52	11/23/22 01:18	1
Dibromofluoromethane (Surr)	112		80 - 123	11/22/22 11:52	11/23/22 01:18	1
Toluene-d8 (Surr)	93		76 - 120	11/22/22 11:52	11/23/22 01:18	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Benzo[a]anthracene	0.016	J	0.039	0.0052	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Benzo[a]pyrene	0.016	J*3	0.039	0.0075	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B06 (0-6)

Lab Sample ID: 500-225491-6

Date Collected: 11/15/22 14:55

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 84.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	0.022	J *3	0.039	0.0084	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Benzo[g,h,i]perylene	<0.039	*3	0.039	0.013	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Benzo[k]fluoranthene	<0.039	*3	0.039	0.011	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Chrysene	0.015	J	0.039	0.011	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Dibenz(a,h)anthracene	<0.039	*3	0.039	0.0075	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Fluoranthene	0.027	J	0.039	0.0072	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Indeno[1,2,3-cd]pyrene	<0.039	*3	0.039	0.010	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B06 (0-6)

Lab Sample ID: 500-225491-6

Date Collected: 11/15/22 14:55

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 84.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Pentachlorophenol	<0.79		0.79	0.62	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Phenanthrene	0.011	J	0.039	0.0054	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Pyrene	0.027	J	0.039	0.0077	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	11/27/22 10:59	12/01/22 19:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	85		43 - 145				11/27/22 10:59	12/01/22 19:52	1
2-Fluorophenol (Surr)	151		31 - 166				11/27/22 10:59	12/01/22 19:52	1
Nitrobenzene-d5 (Surr)	79		37 - 147				11/27/22 10:59	12/01/22 19:52	1
Phenol-d5 (Surr)	140		30 - 153				11/27/22 10:59	12/01/22 19:52	1
Terphenyl-d14 (Surr)	135		42 - 157				11/27/22 10:59	12/01/22 19:52	1
2,4,6-Tribromophenol (Surr)	109		31 - 143				11/27/22 10:59	12/01/22 19:52	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.65	J	1.1	0.22	mg/Kg	☼	11/30/22 16:37	12/02/22 23:08	1
Arsenic	8.4		0.57	0.20	mg/Kg	☼	11/30/22 16:37	12/02/22 23:08	1
Barium	58		0.57	0.065	mg/Kg	☼	11/30/22 16:37	12/02/22 23:08	1
Beryllium	0.83		0.23	0.053	mg/Kg	☼	11/30/22 16:37	12/02/22 23:08	1
Boron	9.1		2.9	0.27	mg/Kg	☼	11/30/22 16:37	12/02/22 23:08	1
Cadmium	0.27		0.11	0.021	mg/Kg	☼	11/30/22 16:37	12/02/22 23:08	1
Calcium	23000		11	1.9	mg/Kg	☼	11/30/22 16:37	12/02/22 23:08	1
Chromium	17		0.57	0.28	mg/Kg	☼	11/30/22 16:37	12/02/22 23:08	1
Cobalt	15		0.29	0.075	mg/Kg	☼	11/30/22 16:37	12/02/22 23:08	1
Copper	25		0.57	0.16	mg/Kg	☼	11/30/22 16:37	12/02/22 23:08	1
Iron	19000		11	6.0	mg/Kg	☼	11/30/22 16:37	12/02/22 23:08	1
Lead	31		0.29	0.13	mg/Kg	☼	11/30/22 16:37	12/02/22 23:08	1
Magnesium	15000		5.7	2.8	mg/Kg	☼	11/30/22 16:37	12/02/22 23:08	1
Manganese	340		0.57	0.083	mg/Kg	☼	11/30/22 16:37	12/02/22 23:08	1
Nickel	32		0.57	0.17	mg/Kg	☼	11/30/22 16:37	12/02/22 23:08	1
Potassium	2100		29	10	mg/Kg	☼	11/30/22 16:37	12/02/22 23:08	1
Selenium	0.41	J	0.57	0.34	mg/Kg	☼	11/30/22 16:37	12/02/22 23:08	1
Silver	0.28	J	0.29	0.074	mg/Kg	☼	11/30/22 16:37	12/02/22 23:08	1
Sodium	2000		57	8.5	mg/Kg	☼	11/30/22 16:37	12/02/22 23:08	1
Thallium	<0.57		0.57	0.29	mg/Kg	☼	11/30/22 16:37	12/02/22 23:08	1
Vanadium	23		0.29	0.068	mg/Kg	☼	11/30/22 16:37	12/02/22 23:08	1
Zinc	78		1.1	0.50	mg/Kg	☼	11/30/22 16:37	12/02/22 23:08	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.46	J	0.50	0.050	mg/L		11/22/22 19:35	11/23/22 22:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 19:35	11/23/22 22:48	1
Boron	0.29	J B	0.50	0.050	mg/L		11/22/22 19:35	11/23/22 22:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 19:35	11/23/22 22:48	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B06 (0-6)

Lab Sample ID: 500-225491-6

Date Collected: 11/15/22 14:55

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 84.4

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:48	1
Cobalt	0.020	J	0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:48	1
Iron	<0.40		0.40	0.20	mg/L		11/22/22 19:35	11/23/22 22:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 19:35	11/23/22 22:48	1
Manganese	8.6		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:48	1
Nickel	0.015	J	0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:48	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 19:35	11/23/22 22:48	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:48	1
Zinc	<0.50		0.50	0.020	mg/L		11/22/22 19:35	11/23/22 22:48	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.1		0.025	0.010	mg/L		11/22/22 19:40	11/29/22 10:42	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 19:35	11/29/22 18:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 19:35	11/29/22 18:05	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/28/22 12:00	11/29/22 11:51	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.019	0.0063	mg/Kg	☆	12/02/22 15:35	12/05/22 08:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.2		0.2	0.2	SU			11/20/22 19:35	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B08 (0-6)

Lab Sample ID: 500-225491-8

Date Collected: 11/15/22 15:30

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 85.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.011	J	0.053	0.0098	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
Benzene	<0.0053		0.0053	0.00096	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
Bromodichloromethane	<0.0053		0.0053	0.00042	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
Bromoform	<0.011		0.011	0.00068	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
Bromomethane	<0.021		0.021	0.0017	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
2-Butanone (MEK)	0.0016	J	0.021	0.0016	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
Carbon disulfide	<0.0053		0.0053	0.0013	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
Carbon tetrachloride	<0.0053		0.0053	0.0015	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
Chlorobenzene	<0.0053		0.0053	0.00082	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
Chloroethane	<0.021		0.021	0.0038	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
Chloroform	<0.0053		0.0053	0.0018	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
Chloromethane	<0.021		0.021	0.0035	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.00080	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.00060	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
Dibromochloromethane	<0.0053		0.0053	0.00023	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
1,1-Dichloroethane	<0.0053		0.0053	0.00046	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
1,2-Dichloroethane	<0.0053		0.0053	0.00033	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
1,1-Dichloroethene	<0.0053		0.0053	0.00075	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
1,2-Dichloropropane	<0.0053		0.0053	0.00046	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
1,3-Dichloropropene, Total	<0.011		0.011	0.0012	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
Ethylbenzene	<0.0053		0.0053	0.0026	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
2-Hexanone	<0.021		0.021	0.0024	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
Methylene Chloride	<0.053		0.053	0.031	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
4-Methyl-2-pentanone (MIBK)	<0.021		0.021	0.0018	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
Methyl tert-butyl ether	<0.0053		0.0053	0.00023	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
Styrene	<0.0053		0.0053	0.0037	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
1,1,2,2-Tetrachloroethane	<0.0053		0.0053	0.00037	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
Tetrachloroethene	<0.0053		0.0053	0.0010	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
Toluene	<0.0053		0.0053	0.0035	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.00065	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.00059	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.00049	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.00034	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
Trichloroethene	<0.0053		0.0053	0.0015	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
Vinyl acetate	<0.011		0.011	0.0018	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
Vinyl chloride	<0.011		0.011	0.0037	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1
Xylenes, Total	<0.011		0.011	0.0038	mg/Kg	☼	11/22/22 11:52	11/23/22 02:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		77 - 120	11/22/22 11:52	11/23/22 02:07	1
Dibromofluoromethane (Surr)	108		80 - 123	11/22/22 11:52	11/23/22 02:07	1
Toluene-d8 (Surr)	92		76 - 120	11/22/22 11:52	11/23/22 02:07	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Benzo[a]pyrene	<0.038	*3	0.038	0.0073	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B08 (0-6)

Lab Sample ID: 500-225491-8

Date Collected: 11/15/22 15:30

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 85.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.038	*3	0.038	0.0082	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Benzo[g,h,i]perylene	<0.038	*3	0.038	0.012	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Benzo[k]fluoranthene	<0.038	*3	0.038	0.011	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Dibenz(a,h)anthracene	<0.038	*3	0.038	0.0073	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Indeno[1,2,3-cd]pyrene	<0.038	*3	0.038	0.0098	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
2-Methylnaphthalene	<0.076		0.076	0.0070	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B08 (0-6)

Lab Sample ID: 500-225491-8

Date Collected: 11/15/22 15:30

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 85.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	11/27/22 10:59	12/01/22 20:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	113		43 - 145				11/27/22 10:59	12/01/22 20:38	1
2-Fluorophenol (Surr)	187	S1+	31 - 166				11/27/22 10:59	12/01/22 20:38	1
Nitrobenzene-d5 (Surr)	94		37 - 147				11/27/22 10:59	12/01/22 20:38	1
Phenol-d5 (Surr)	170	S1+	30 - 153				11/27/22 10:59	12/01/22 20:38	1
Terphenyl-d14 (Surr)	180	S1+	42 - 157				11/27/22 10:59	12/01/22 20:38	1
2,4,6-Tribromophenol (Surr)	124		31 - 143				11/27/22 10:59	12/01/22 20:38	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.59	J	1.2	0.23	mg/Kg	☼	11/30/22 16:37	12/02/22 23:14	1
Arsenic	8.3		0.58	0.20	mg/Kg	☼	11/30/22 16:37	12/02/22 23:14	1
Barium	42		0.58	0.066	mg/Kg	☼	11/30/22 16:37	12/02/22 23:14	1
Beryllium	0.85		0.23	0.054	mg/Kg	☼	11/30/22 16:37	12/02/22 23:14	1
Boron	10		2.9	0.27	mg/Kg	☼	11/30/22 16:37	12/02/22 23:14	1
Cadmium	0.20		0.12	0.021	mg/Kg	☼	11/30/22 16:37	12/02/22 23:14	1
Calcium	60000		23	3.9	mg/Kg	☼	11/30/22 16:37	12/05/22 15:18	2
Chromium	15		0.58	0.29	mg/Kg	☼	11/30/22 16:37	12/02/22 23:14	1
Cobalt	14		0.29	0.076	mg/Kg	☼	11/30/22 16:37	12/02/22 23:14	1
Copper	22		0.58	0.16	mg/Kg	☼	11/30/22 16:37	12/02/22 23:14	1
Iron	19000		12	6.1	mg/Kg	☼	11/30/22 16:37	12/02/22 23:14	1
Lead	15		0.29	0.13	mg/Kg	☼	11/30/22 16:37	12/02/22 23:14	1
Magnesium	30000		5.8	2.9	mg/Kg	☼	11/30/22 16:37	12/02/22 23:14	1
Manganese	390		0.58	0.084	mg/Kg	☼	11/30/22 16:37	12/02/22 23:14	1
Nickel	32		0.58	0.17	mg/Kg	☼	11/30/22 16:37	12/02/22 23:14	1
Potassium	2300		29	10	mg/Kg	☼	11/30/22 16:37	12/02/22 23:14	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	11/30/22 16:37	12/02/22 23:14	1
Silver	0.24	J	0.29	0.075	mg/Kg	☼	11/30/22 16:37	12/02/22 23:14	1
Sodium	830		58	8.6	mg/Kg	☼	11/30/22 16:37	12/02/22 23:14	1
Thallium	0.30	J	0.58	0.29	mg/Kg	☼	11/30/22 16:37	12/02/22 23:14	1
Vanadium	20		0.29	0.069	mg/Kg	☼	11/30/22 16:37	12/02/22 23:14	1
Zinc	52		1.2	0.51	mg/Kg	☼	11/30/22 16:37	12/02/22 23:14	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.27	J	0.50	0.050	mg/L		11/22/22 19:35	11/23/22 22:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 19:35	11/23/22 22:54	1
Boron	0.29	J B	0.50	0.050	mg/L		11/22/22 19:35	11/23/22 22:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 19:35	11/23/22 22:54	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B08 (0-6)

Lab Sample ID: 500-225491-8

Date Collected: 11/15/22 15:30

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 85.4

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:54	1
Cobalt	<0.025		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:54	1
Iron	<0.40		0.40	0.20	mg/L		11/22/22 19:35	11/23/22 22:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 19:35	11/23/22 22:54	1
Manganese	2.3		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:54	1
Nickel	<0.025		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:54	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 19:35	11/23/22 22:54	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:54	1
Zinc	<0.50		0.50	0.020	mg/L		11/22/22 19:35	11/23/22 22:54	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.0		0.025	0.010	mg/L		11/22/22 19:40	11/29/22 10:48	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 19:35	11/29/22 18:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 19:35	11/29/22 18:09	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/28/22 12:00	11/29/22 11:55	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.018	0.0059	mg/Kg	☆	12/02/22 15:35	12/05/22 08:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.8		0.2	0.2	SU			11/20/22 19:40	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B09 (0-6)

Lab Sample ID: 500-225491-9

Date Collected: 11/15/22 15:50

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 86.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.016	J	0.055	0.010	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
Benzene	<0.0055		0.0055	0.00098	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
Bromodichloromethane	<0.0055		0.0055	0.00043	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
Bromoform	<0.011		0.011	0.00070	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
Bromomethane	<0.022		0.022	0.0017	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
2-Butanone (MEK)	0.0030	J	0.022	0.0016	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
Carbon disulfide	<0.0055		0.0055	0.0013	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
Carbon tetrachloride	<0.0055		0.0055	0.0015	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
Chlorobenzene	<0.0055		0.0055	0.00084	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
Chloroethane	<0.022		0.022	0.0039	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
Chloroform	<0.0055		0.0055	0.0019	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
Chloromethane	<0.022		0.022	0.0036	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.00082	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.00061	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
Dibromochloromethane	<0.0055		0.0055	0.00024	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
1,1-Dichloroethane	<0.0055		0.0055	0.00047	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
1,2-Dichloroethane	<0.0055		0.0055	0.00034	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
1,1-Dichloroethene	<0.0055		0.0055	0.00077	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
1,2-Dichloropropane	<0.0055		0.0055	0.00047	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
1,3-Dichloropropane, Total	<0.011		0.011	0.0012	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
Ethylbenzene	<0.0055		0.0055	0.0026	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
2-Hexanone	<0.022		0.022	0.0025	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
Methylene Chloride	<0.055		0.055	0.032	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
4-Methyl-2-pentanone (MIBK)	<0.022		0.022	0.0019	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
Methyl tert-butyl ether	<0.0055		0.0055	0.00024	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
Styrene	<0.0055		0.0055	0.0038	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
1,1,2,2-Tetrachloroethane	<0.0055		0.0055	0.00038	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
Tetrachloroethene	<0.0055		0.0055	0.0010	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
Toluene	<0.0055		0.0055	0.0036	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.00067	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.00060	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.00050	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.00035	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
Trichloroethene	<0.0055		0.0055	0.0015	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
Vinyl acetate	<0.011		0.011	0.0019	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
Vinyl chloride	<0.011		0.011	0.0038	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1
Xylenes, Total	<0.011		0.011	0.0039	mg/Kg	☼	11/22/22 11:52	11/23/22 02:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		77 - 120	11/22/22 11:52	11/23/22 02:32	1
Dibromofluoromethane (Surr)	110		80 - 123	11/22/22 11:52	11/23/22 02:32	1
Toluene-d8 (Surr)	96		76 - 120	11/22/22 11:52	11/23/22 02:32	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Anthracene	0.0080	J	0.038	0.0063	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Benzo[a]anthracene	0.015	J	0.038	0.0051	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Benzo[a]pyrene	<0.038	*3	0.038	0.0074	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B09 (0-6)

Lab Sample ID: 500-225491-9

Date Collected: 11/15/22 15:50

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 86.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.038	*3	0.038	0.0082	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Benzo[g,h,i]perylene	0.017	J *3	0.038	0.012	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Benzo[k]fluoranthene	<0.038	*3	0.038	0.011	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Chrysene	0.047		0.038	0.010	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Dibenz(a,h)anthracene	<0.038	*3	0.038	0.0073	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Fluoranthene	0.034	J	0.038	0.0070	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Indeno[1,2,3-cd]pyrene	<0.038	*3	0.038	0.0098	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
2-Methylnaphthalene	0.010	J	0.077	0.0070	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Naphthalene	0.029	J	0.038	0.0058	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B09 (0-6)

Lab Sample ID: 500-225491-9

Date Collected: 11/15/22 15:50

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 86.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Phenanthrene	0.067		0.038	0.0053	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Pyrene	0.049		0.038	0.0075	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	11/27/22 10:59	12/01/22 21:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	123		43 - 145				11/27/22 10:59	12/01/22 21:01	1
2-Fluorophenol (Surr)	169	S1+	31 - 166				11/27/22 10:59	12/01/22 21:01	1
Nitrobenzene-d5 (Surr)	114		37 - 147				11/27/22 10:59	12/01/22 21:01	1
Phenol-d5 (Surr)	167	S1+	30 - 153				11/27/22 10:59	12/01/22 21:01	1
Terphenyl-d14 (Surr)	179	S1+	42 - 157				11/27/22 10:59	12/01/22 21:01	1
2,4,6-Tribromophenol (Surr)	149	S1+	31 - 143				11/27/22 10:59	12/01/22 21:01	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.39	J	1.1	0.22	mg/Kg	☼	11/30/22 16:37	12/02/22 23:17	1
Arsenic	4.6		0.57	0.19	mg/Kg	☼	11/30/22 16:37	12/02/22 23:17	1
Barium	43		2.8	0.32	mg/Kg	☼	11/30/22 16:37	12/05/22 15:22	5
Beryllium	0.67		0.23	0.053	mg/Kg	☼	11/30/22 16:37	12/02/22 23:17	1
Boron	11		2.8	0.26	mg/Kg	☼	11/30/22 16:37	12/02/22 23:17	1
Cadmium	0.23		0.11	0.020	mg/Kg	☼	11/30/22 16:37	12/02/22 23:17	1
Calcium	85000		57	9.6	mg/Kg	☼	11/30/22 16:37	12/05/22 15:22	5
Chromium	14		0.57	0.28	mg/Kg	☼	11/30/22 16:37	12/02/22 23:17	1
Cobalt	7.0		0.28	0.074	mg/Kg	☼	11/30/22 16:37	12/02/22 23:17	1
Copper	20		0.57	0.16	mg/Kg	☼	11/30/22 16:37	12/02/22 23:17	1
Iron	18000		57	29	mg/Kg	☼	11/30/22 16:37	12/05/22 15:22	5
Lead	11		0.28	0.13	mg/Kg	☼	11/30/22 16:37	12/02/22 23:17	1
Magnesium	47000		28	14	mg/Kg	☼	11/30/22 16:37	12/05/22 15:22	5
Manganese	250		0.57	0.082	mg/Kg	☼	11/30/22 16:37	12/02/22 23:17	1
Nickel	22		0.57	0.16	mg/Kg	☼	11/30/22 16:37	12/02/22 23:17	1
Potassium	2400		28	10	mg/Kg	☼	11/30/22 16:37	12/02/22 23:17	1
Selenium	0.41	J	0.57	0.33	mg/Kg	☼	11/30/22 16:37	12/02/22 23:17	1
Silver	0.21	J	0.28	0.073	mg/Kg	☼	11/30/22 16:37	12/02/22 23:17	1
Sodium	1000		57	8.4	mg/Kg	☼	11/30/22 16:37	12/02/22 23:17	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	11/30/22 16:37	12/02/22 23:17	1
Vanadium	18		0.28	0.067	mg/Kg	☼	11/30/22 16:37	12/02/22 23:17	1
Zinc	46		1.1	0.50	mg/Kg	☼	11/30/22 16:37	12/02/22 23:17	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.34	J	0.50	0.050	mg/L		11/22/22 19:35	11/23/22 22:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 19:35	11/23/22 22:58	1
Boron	0.29	J B	0.50	0.050	mg/L		11/22/22 19:35	11/23/22 22:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 19:35	11/23/22 22:58	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B09 (0-6)

Lab Sample ID: 500-225491-9

Date Collected: 11/15/22 15:50

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 86.9

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:58	1
Cobalt	<0.025		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:58	1
Iron	<0.40		0.40	0.20	mg/L		11/22/22 19:35	11/23/22 22:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 19:35	11/23/22 22:58	1
Manganese	1.1		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:58	1
Nickel	<0.025		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:58	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 19:35	11/23/22 22:58	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:58	1
Zinc	<0.50		0.50	0.020	mg/L		11/22/22 19:35	11/23/22 22:58	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.61		0.025	0.010	mg/L		11/22/22 19:40	11/29/22 10:51	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 19:35	11/29/22 18:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 19:35	11/29/22 18:11	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/28/22 12:00	11/29/22 11:58	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.017	0.0056	mg/Kg	☆	12/02/22 15:35	12/05/22 08:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.3		0.2	0.2	SU			11/21/22 16:11	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

GC/MS VOA

Pre Prep Batch: 372778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225491-1	1401V3-24-B01 (0-6)	Total/NA	Solid	Frozen Preserve	
500-225491-2	1401V3-24-B02 (0-6)	Total/NA	Solid	Frozen Preserve	
500-225491-3	1401V3-24-B03 (0-6)	Total/NA	Solid	Frozen Preserve	
500-225491-4	1401V3-24-B04 (0-6)	Total/NA	Solid	Frozen Preserve	
500-225491-5	1401V3-24-B05 (0-6)	Total/NA	Solid	Frozen Preserve	
500-225491-6	1401V3-24-B06 (0-6)	Total/NA	Solid	Frozen Preserve	
500-225491-7	1401V3-24-B07 (0-6)	Total/NA	Solid	Frozen Preserve	
500-225491-8	1401V3-24-B08 (0-6)	Total/NA	Solid	Frozen Preserve	
500-225491-9	1401V3-24-B09 (0-6)	Total/NA	Solid	Frozen Preserve	

Prep Batch: 372826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225491-1	1401V3-24-B01 (0-6)	Total/NA	Solid	5035	372778
500-225491-2	1401V3-24-B02 (0-6)	Total/NA	Solid	5035	372778
500-225491-3	1401V3-24-B03 (0-6)	Total/NA	Solid	5035	372778
500-225491-4	1401V3-24-B04 (0-6)	Total/NA	Solid	5035	372778
500-225491-5	1401V3-24-B05 (0-6)	Total/NA	Solid	5035	372778
500-225491-6	1401V3-24-B06 (0-6)	Total/NA	Solid	5035	372778
500-225491-7	1401V3-24-B07 (0-6)	Total/NA	Solid	5035	372778
500-225491-8	1401V3-24-B08 (0-6)	Total/NA	Solid	5035	372778
500-225491-9	1401V3-24-B09 (0-6)	Total/NA	Solid	5035	372778
MB 310-372826/1-A	Method Blank	Total/NA	Solid	5035	
LCS 310-372826/2-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 372827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225491-1	1401V3-24-B01 (0-6)	Total/NA	Solid	8260D	372826
500-225491-2	1401V3-24-B02 (0-6)	Total/NA	Solid	8260D	372826
500-225491-3	1401V3-24-B03 (0-6)	Total/NA	Solid	8260D	372826
500-225491-4	1401V3-24-B04 (0-6)	Total/NA	Solid	8260D	372826
500-225491-5	1401V3-24-B05 (0-6)	Total/NA	Solid	8260D	372826
500-225491-6	1401V3-24-B06 (0-6)	Total/NA	Solid	8260D	372826
500-225491-7	1401V3-24-B07 (0-6)	Total/NA	Solid	8260D	372826
500-225491-8	1401V3-24-B08 (0-6)	Total/NA	Solid	8260D	372826
500-225491-9	1401V3-24-B09 (0-6)	Total/NA	Solid	8260D	372826
MB 310-372826/1-A	Method Blank	Total/NA	Solid	8260D	372826
LCS 310-372826/2-A	Lab Control Sample	Total/NA	Solid	8260D	372826

GC/MS Semi VOA

Prep Batch: 686917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225491-1	1401V3-24-B01 (0-6)	Total/NA	Solid	3541	
500-225491-2	1401V3-24-B02 (0-6)	Total/NA	Solid	3541	
500-225491-3	1401V3-24-B03 (0-6)	Total/NA	Solid	3541	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

GC/MS Semi VOA (Continued)

Prep Batch: 686917 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225491-4	1401V3-24-B04 (0-6)	Total/NA	Solid	3541	
500-225491-5	1401V3-24-B05 (0-6)	Total/NA	Solid	3541	
500-225491-6	1401V3-24-B06 (0-6)	Total/NA	Solid	3541	
500-225491-7	1401V3-24-B07 (0-6)	Total/NA	Solid	3541	
500-225491-8	1401V3-24-B08 (0-6)	Total/NA	Solid	3541	
500-225491-9	1401V3-24-B09 (0-6)	Total/NA	Solid	3541	
MB 500-686917/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-686917/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-225491-2 MS	1401V3-24-B02 (0-6)	Total/NA	Solid	3541	
500-225491-2 MSD	1401V3-24-B02 (0-6)	Total/NA	Solid	3541	

Analysis Batch: 687671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225491-1	1401V3-24-B01 (0-6)	Total/NA	Solid	8270D	686917
500-225491-2	1401V3-24-B02 (0-6)	Total/NA	Solid	8270D	686917
500-225491-3	1401V3-24-B03 (0-6)	Total/NA	Solid	8270D	686917
500-225491-4	1401V3-24-B04 (0-6)	Total/NA	Solid	8270D	686917
500-225491-6	1401V3-24-B06 (0-6)	Total/NA	Solid	8270D	686917
500-225491-8	1401V3-24-B08 (0-6)	Total/NA	Solid	8270D	686917
500-225491-9	1401V3-24-B09 (0-6)	Total/NA	Solid	8270D	686917
MB 500-686917/1-A	Method Blank	Total/NA	Solid	8270D	686917
LCS 500-686917/2-A	Lab Control Sample	Total/NA	Solid	8270D	686917
500-225491-2 MS	1401V3-24-B02 (0-6)	Total/NA	Solid	8270D	686917
500-225491-2 MSD	1401V3-24-B02 (0-6)	Total/NA	Solid	8270D	686917

Analysis Batch: 687903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225491-7	1401V3-24-B07 (0-6)	Total/NA	Solid	8270D	686917

Analysis Batch: 689306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225491-5	1401V3-24-B05 (0-6)	Total/NA	Solid	8270D	686917

Metals

Leach Batch: 686387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225491-1	1401V3-24-B01 (0-6)	TCLP	Solid	1311	
500-225491-2	1401V3-24-B02 (0-6)	TCLP	Solid	1311	
500-225491-3	1401V3-24-B03 (0-6)	TCLP	Solid	1311	
500-225491-4	1401V3-24-B04 (0-6)	TCLP	Solid	1311	
500-225491-5	1401V3-24-B05 (0-6)	TCLP	Solid	1311	
500-225491-6	1401V3-24-B06 (0-6)	TCLP	Solid	1311	
500-225491-7	1401V3-24-B07 (0-6)	TCLP	Solid	1311	
500-225491-8	1401V3-24-B08 (0-6)	TCLP	Solid	1311	
500-225491-9	1401V3-24-B09 (0-6)	TCLP	Solid	1311	
LB 500-686387/1-B	Method Blank	TCLP	Solid	1311	
LB 500-686387/2-B	Method Blank	TCLP	Solid	1311	
500-225491-1 MS	1401V3-24-B01 (0-6)	TCLP	Solid	1311	
500-225491-1 DU	1401V3-24-B01 (0-6)	TCLP	Solid	1311	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Metals

Leach Batch: 686391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225491-1	1401V3-24-B01 (0-6)	SPLP East	Solid	1312	
500-225491-2	1401V3-24-B02 (0-6)	SPLP East	Solid	1312	
500-225491-3	1401V3-24-B03 (0-6)	SPLP East	Solid	1312	
500-225491-4	1401V3-24-B04 (0-6)	SPLP East	Solid	1312	
500-225491-5	1401V3-24-B05 (0-6)	SPLP East	Solid	1312	
500-225491-6	1401V3-24-B06 (0-6)	SPLP East	Solid	1312	
500-225491-7	1401V3-24-B07 (0-6)	SPLP East	Solid	1312	
500-225491-8	1401V3-24-B08 (0-6)	SPLP East	Solid	1312	
500-225491-9	1401V3-24-B09 (0-6)	SPLP East	Solid	1312	
LB 500-686391/2-B	Method Blank	SPLP East	Solid	1312	
500-225491-1 MS	1401V3-24-B01 (0-6)	SPLP East	Solid	1312	
500-225491-1 DU	1401V3-24-B01 (0-6)	SPLP East	Solid	1312	

Prep Batch: 686619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225491-1	1401V3-24-B01 (0-6)	TCLP	Solid	3010A	686387
500-225491-2	1401V3-24-B02 (0-6)	TCLP	Solid	3010A	686387
500-225491-3	1401V3-24-B03 (0-6)	TCLP	Solid	3010A	686387
500-225491-4	1401V3-24-B04 (0-6)	TCLP	Solid	3010A	686387
500-225491-5	1401V3-24-B05 (0-6)	TCLP	Solid	3010A	686387
500-225491-6	1401V3-24-B06 (0-6)	TCLP	Solid	3010A	686387
500-225491-7	1401V3-24-B07 (0-6)	TCLP	Solid	3010A	686387
500-225491-8	1401V3-24-B08 (0-6)	TCLP	Solid	3010A	686387
500-225491-9	1401V3-24-B09 (0-6)	TCLP	Solid	3010A	686387
LB 500-686387/1-B	Method Blank	TCLP	Solid	3010A	686387
LCS 500-686619/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-225491-1 MS	1401V3-24-B01 (0-6)	TCLP	Solid	3010A	686387
500-225491-1 DU	1401V3-24-B01 (0-6)	TCLP	Solid	3010A	686387

Prep Batch: 686622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225491-1	1401V3-24-B01 (0-6)	SPLP East	Solid	3010A	686391
500-225491-2	1401V3-24-B02 (0-6)	SPLP East	Solid	3010A	686391
500-225491-3	1401V3-24-B03 (0-6)	SPLP East	Solid	3010A	686391
500-225491-4	1401V3-24-B04 (0-6)	SPLP East	Solid	3010A	686391
500-225491-5	1401V3-24-B05 (0-6)	SPLP East	Solid	3010A	686391
500-225491-6	1401V3-24-B06 (0-6)	SPLP East	Solid	3010A	686391
500-225491-7	1401V3-24-B07 (0-6)	SPLP East	Solid	3010A	686391
500-225491-8	1401V3-24-B08 (0-6)	SPLP East	Solid	3010A	686391
500-225491-9	1401V3-24-B09 (0-6)	SPLP East	Solid	3010A	686391
LB 500-686391/2-B	Method Blank	SPLP East	Solid	3010A	686391
LCS 500-686622/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-225491-1 MS	1401V3-24-B01 (0-6)	SPLP East	Solid	3010A	686391
500-225491-1 DU	1401V3-24-B01 (0-6)	SPLP East	Solid	3010A	686391

Analysis Batch: 687032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225491-1	1401V3-24-B01 (0-6)	TCLP	Solid	6010B	686619
500-225491-2	1401V3-24-B02 (0-6)	TCLP	Solid	6010B	686619
500-225491-3	1401V3-24-B03 (0-6)	TCLP	Solid	6010B	686619
500-225491-4	1401V3-24-B04 (0-6)	TCLP	Solid	6010B	686619

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Metals (Continued)

Analysis Batch: 687032 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225491-5	1401V3-24-B05 (0-6)	TCLP	Solid	6010B	686619
500-225491-6	1401V3-24-B06 (0-6)	TCLP	Solid	6010B	686619
500-225491-7	1401V3-24-B07 (0-6)	TCLP	Solid	6010B	686619
500-225491-8	1401V3-24-B08 (0-6)	TCLP	Solid	6010B	686619
500-225491-9	1401V3-24-B09 (0-6)	TCLP	Solid	6010B	686619
LB 500-686387/1-B	Method Blank	TCLP	Solid	6010B	686619
LCS 500-686619/2-A	Lab Control Sample	Total/NA	Solid	6010B	686619
500-225491-1 MS	1401V3-24-B01 (0-6)	TCLP	Solid	6010B	686619
500-225491-1 DU	1401V3-24-B01 (0-6)	TCLP	Solid	6010B	686619

Prep Batch: 687085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225491-1	1401V3-24-B01 (0-6)	TCLP	Solid	7470A	686387
500-225491-2	1401V3-24-B02 (0-6)	TCLP	Solid	7470A	686387
500-225491-3	1401V3-24-B03 (0-6)	TCLP	Solid	7470A	686387
500-225491-4	1401V3-24-B04 (0-6)	TCLP	Solid	7470A	686387
500-225491-5	1401V3-24-B05 (0-6)	TCLP	Solid	7470A	686387
500-225491-6	1401V3-24-B06 (0-6)	TCLP	Solid	7470A	686387
500-225491-7	1401V3-24-B07 (0-6)	TCLP	Solid	7470A	686387
500-225491-8	1401V3-24-B08 (0-6)	TCLP	Solid	7470A	686387
500-225491-9	1401V3-24-B09 (0-6)	TCLP	Solid	7470A	686387
LB 500-686387/2-B	Method Blank	TCLP	Solid	7470A	686387
MB 500-687085/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-687085/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 687321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225491-1	1401V3-24-B01 (0-6)	TCLP	Solid	7470A	687085
500-225491-2	1401V3-24-B02 (0-6)	TCLP	Solid	7470A	687085
500-225491-3	1401V3-24-B03 (0-6)	TCLP	Solid	7470A	687085
500-225491-4	1401V3-24-B04 (0-6)	TCLP	Solid	7470A	687085
500-225491-5	1401V3-24-B05 (0-6)	TCLP	Solid	7470A	687085
500-225491-6	1401V3-24-B06 (0-6)	TCLP	Solid	7470A	687085
500-225491-7	1401V3-24-B07 (0-6)	TCLP	Solid	7470A	687085
500-225491-8	1401V3-24-B08 (0-6)	TCLP	Solid	7470A	687085
500-225491-9	1401V3-24-B09 (0-6)	TCLP	Solid	7470A	687085
LB 500-686387/2-B	Method Blank	TCLP	Solid	7470A	687085
MB 500-687085/12-A	Method Blank	Total/NA	Solid	7470A	687085
LCS 500-687085/14-A	Lab Control Sample	Total/NA	Solid	7470A	687085

Analysis Batch: 687339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225491-1	1401V3-24-B01 (0-6)	SPLP East	Solid	6010B	686622
500-225491-2	1401V3-24-B02 (0-6)	SPLP East	Solid	6010B	686622
500-225491-3	1401V3-24-B03 (0-6)	SPLP East	Solid	6010B	686622
500-225491-4	1401V3-24-B04 (0-6)	SPLP East	Solid	6010B	686622
500-225491-5	1401V3-24-B05 (0-6)	SPLP East	Solid	6010B	686622
500-225491-6	1401V3-24-B06 (0-6)	SPLP East	Solid	6010B	686622
500-225491-7	1401V3-24-B07 (0-6)	SPLP East	Solid	6010B	686622
500-225491-8	1401V3-24-B08 (0-6)	SPLP East	Solid	6010B	686622
500-225491-9	1401V3-24-B09 (0-6)	SPLP East	Solid	6010B	686622

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Metals (Continued)

Analysis Batch: 687339 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-686391/2-B	Method Blank	SPLP East	Solid	6010B	686622
LCS 500-686622/2-A	Lab Control Sample	Total/NA	Solid	6010B	686622
500-225491-1 MS	1401V3-24-B01 (0-6)	SPLP East	Solid	6010B	686622
500-225491-1 DU	1401V3-24-B01 (0-6)	SPLP East	Solid	6010B	686622

Analysis Batch: 687529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225491-1	1401V3-24-B01 (0-6)	TCLP	Solid	6020A	686619
500-225491-2	1401V3-24-B02 (0-6)	TCLP	Solid	6020A	686619
500-225491-3	1401V3-24-B03 (0-6)	TCLP	Solid	6020A	686619
500-225491-4	1401V3-24-B04 (0-6)	TCLP	Solid	6020A	686619
500-225491-5	1401V3-24-B05 (0-6)	TCLP	Solid	6020A	686619
500-225491-6	1401V3-24-B06 (0-6)	TCLP	Solid	6020A	686619
500-225491-7	1401V3-24-B07 (0-6)	TCLP	Solid	6020A	686619
500-225491-8	1401V3-24-B08 (0-6)	TCLP	Solid	6020A	686619
500-225491-9	1401V3-24-B09 (0-6)	TCLP	Solid	6020A	686619
LB 500-686387/1-B	Method Blank	TCLP	Solid	6020A	686619
LCS 500-686619/2-A	Lab Control Sample	Total/NA	Solid	6020A	686619
500-225491-1 MS	1401V3-24-B01 (0-6)	TCLP	Solid	6020A	686619
500-225491-1 DU	1401V3-24-B01 (0-6)	TCLP	Solid	6020A	686619

Prep Batch: 687586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225491-1	1401V3-24-B01 (0-6)	Total/NA	Solid	3050B	
500-225491-2	1401V3-24-B02 (0-6)	Total/NA	Solid	3050B	
500-225491-3	1401V3-24-B03 (0-6)	Total/NA	Solid	3050B	
500-225491-4	1401V3-24-B04 (0-6)	Total/NA	Solid	3050B	
500-225491-5	1401V3-24-B05 (0-6)	Total/NA	Solid	3050B	
500-225491-6	1401V3-24-B06 (0-6)	Total/NA	Solid	3050B	
500-225491-7	1401V3-24-B07 (0-6)	Total/NA	Solid	3050B	
500-225491-8	1401V3-24-B08 (0-6)	Total/NA	Solid	3050B	
500-225491-9	1401V3-24-B09 (0-6)	Total/NA	Solid	3050B	
MB 500-687586/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-687586/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCS 500-687586/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 687934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225491-1	1401V3-24-B01 (0-6)	Total/NA	Solid	7471B	
500-225491-2	1401V3-24-B02 (0-6)	Total/NA	Solid	7471B	
500-225491-3	1401V3-24-B03 (0-6)	Total/NA	Solid	7471B	
500-225491-4	1401V3-24-B04 (0-6)	Total/NA	Solid	7471B	
500-225491-5	1401V3-24-B05 (0-6)	Total/NA	Solid	7471B	
500-225491-6	1401V3-24-B06 (0-6)	Total/NA	Solid	7471B	
500-225491-7	1401V3-24-B07 (0-6)	Total/NA	Solid	7471B	
500-225491-8	1401V3-24-B08 (0-6)	Total/NA	Solid	7471B	
500-225491-9	1401V3-24-B09 (0-6)	Total/NA	Solid	7471B	
MB 500-687934/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-687934/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-225491-5 MS	1401V3-24-B05 (0-6)	Total/NA	Solid	7471B	
500-225491-5 MSD	1401V3-24-B05 (0-6)	Total/NA	Solid	7471B	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Metals (Continued)

Prep Batch: 687934 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225491-5 DU	1401V3-24-B05 (0-6)	Total/NA	Solid	7471B	

Analysis Batch: 688148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225491-1	1401V3-24-B01 (0-6)	Total/NA	Solid	6010B	687586
500-225491-2	1401V3-24-B02 (0-6)	Total/NA	Solid	6010B	687586
500-225491-3	1401V3-24-B03 (0-6)	Total/NA	Solid	6010B	687586
500-225491-4	1401V3-24-B04 (0-6)	Total/NA	Solid	6010B	687586
500-225491-5	1401V3-24-B05 (0-6)	Total/NA	Solid	6010B	687586
500-225491-6	1401V3-24-B06 (0-6)	Total/NA	Solid	6010B	687586
500-225491-7	1401V3-24-B07 (0-6)	Total/NA	Solid	6010B	687586
500-225491-8	1401V3-24-B08 (0-6)	Total/NA	Solid	6010B	687586
500-225491-9	1401V3-24-B09 (0-6)	Total/NA	Solid	6010B	687586
MB 500-687586/1-A	Method Blank	Total/NA	Solid	6010B	687586
LCS 500-687586/2-A	Lab Control Sample	Total/NA	Solid	6010B	687586

Analysis Batch: 688226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225491-1	1401V3-24-B01 (0-6)	Total/NA	Solid	7471B	687934
500-225491-2	1401V3-24-B02 (0-6)	Total/NA	Solid	7471B	687934
500-225491-3	1401V3-24-B03 (0-6)	Total/NA	Solid	7471B	687934
500-225491-4	1401V3-24-B04 (0-6)	Total/NA	Solid	7471B	687934
500-225491-5	1401V3-24-B05 (0-6)	Total/NA	Solid	7471B	687934
500-225491-6	1401V3-24-B06 (0-6)	Total/NA	Solid	7471B	687934
500-225491-7	1401V3-24-B07 (0-6)	Total/NA	Solid	7471B	687934
500-225491-8	1401V3-24-B08 (0-6)	Total/NA	Solid	7471B	687934
500-225491-9	1401V3-24-B09 (0-6)	Total/NA	Solid	7471B	687934
MB 500-687934/12-A	Method Blank	Total/NA	Solid	7471B	687934
LCS 500-687934/13-A	Lab Control Sample	Total/NA	Solid	7471B	687934
500-225491-5 MS	1401V3-24-B05 (0-6)	Total/NA	Solid	7471B	687934
500-225491-5 MSD	1401V3-24-B05 (0-6)	Total/NA	Solid	7471B	687934
500-225491-5 DU	1401V3-24-B05 (0-6)	Total/NA	Solid	7471B	687934

Analysis Batch: 688270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-687586/2-A ^2	Lab Control Sample	Total/NA	Solid	6010B	687586

Analysis Batch: 688435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225491-1	1401V3-24-B01 (0-6)	Total/NA	Solid	6010B	687586
500-225491-7	1401V3-24-B07 (0-6)	Total/NA	Solid	6010B	687586
500-225491-8	1401V3-24-B08 (0-6)	Total/NA	Solid	6010B	687586
500-225491-9	1401V3-24-B09 (0-6)	Total/NA	Solid	6010B	687586

General Chemistry

Analysis Batch: 686168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225491-1	1401V3-24-B01 (0-6)	Total/NA	Solid	9045D	
500-225491-2	1401V3-24-B02 (0-6)	Total/NA	Solid	9045D	
500-225491-3	1401V3-24-B03 (0-6)	Total/NA	Solid	9045D	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

General Chemistry (Continued)

Analysis Batch: 686168 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225491-4	1401V3-24-B04 (0-6)	Total/NA	Solid	9045D	
500-225491-5	1401V3-24-B05 (0-6)	Total/NA	Solid	9045D	
500-225491-6	1401V3-24-B06 (0-6)	Total/NA	Solid	9045D	
500-225491-7	1401V3-24-B07 (0-6)	Total/NA	Solid	9045D	
500-225491-8	1401V3-24-B08 (0-6)	Total/NA	Solid	9045D	
LCS 500-686168/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-686168/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 686396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225491-9	1401V3-24-B09 (0-6)	Total/NA	Solid	9045D	
LCS 500-686396/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-686396/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-225491-9 DU	1401V3-24-B09 (0-6)	Total/NA	Solid	9045D	

Analysis Batch: 687268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225491-1	1401V3-24-B01 (0-6)	Total/NA	Solid	Moisture	
500-225491-2	1401V3-24-B02 (0-6)	Total/NA	Solid	Moisture	
500-225491-3	1401V3-24-B03 (0-6)	Total/NA	Solid	Moisture	
500-225491-4	1401V3-24-B04 (0-6)	Total/NA	Solid	Moisture	
500-225491-5	1401V3-24-B05 (0-6)	Total/NA	Solid	Moisture	
500-225491-6	1401V3-24-B06 (0-6)	Total/NA	Solid	Moisture	
500-225491-7	1401V3-24-B07 (0-6)	Total/NA	Solid	Moisture	
500-225491-8	1401V3-24-B08 (0-6)	Total/NA	Solid	Moisture	
500-225491-9	1401V3-24-B09 (0-6)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (77-120)	DBFM (80-123)	TOL (76-120)
500-225491-1	1401V3-24-B01 (0-6)	92	112	93
500-225491-2	1401V3-24-B02 (0-6)	90	111	91
500-225491-3	1401V3-24-B03 (0-6)	93	112	93
500-225491-4	1401V3-24-B04 (0-6)	91	110	93
500-225491-5	1401V3-24-B05 (0-6)	91	111	93
500-225491-6	1401V3-24-B06 (0-6)	93	112	93
500-225491-7	1401V3-24-B07 (0-6)	91	112	91
500-225491-8	1401V3-24-B08 (0-6)	92	108	92
500-225491-9	1401V3-24-B09 (0-6)	92	110	96
LCS 310-372826/2-A	Lab Control Sample	102	99	100
MB 310-372826/1-A	Method Blank	92	107	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-225491-1	1401V3-24-B01 (0-6)	102	143	102	129	145	122
500-225491-2	1401V3-24-B02 (0-6)	105	179 S1+	99	146	138	122
500-225491-2 MS	1401V3-24-B02 (0-6)	105	150	98	134	138	130
500-225491-2 MSD	1401V3-24-B02 (0-6)	111	168 S1+	105	151	144	134
500-225491-3	1401V3-24-B03 (0-6)	86	123	91	102	136	113
500-225491-4	1401V3-24-B04 (0-6)	50	127	90	97	108	71
500-225491-5	1401V3-24-B05 (0-6)	50	72	46	64	74	49
500-225491-6	1401V3-24-B06 (0-6)	85	151	79	140	135	109
500-225491-7	1401V3-24-B07 (0-6)	96	137	99	111	133	87
500-225491-8	1401V3-24-B08 (0-6)	113	187 S1+	94	170 S1+	180 S1+	124
500-225491-9	1401V3-24-B09 (0-6)	123	169 S1+	114	167 S1+	179 S1+	149 S1+
LCS 500-686917/2-A	Lab Control Sample	98	131	88	117	116	108
MB 500-686917/1-A	Method Blank	129	199 S1+	106	151	162 S1+	136

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-372826/1-A
Matrix: Solid
Analysis Batch: 372827

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372826

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.11		0.11	0.020	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Benzene	<0.011		0.011	0.0019	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Bromodichloromethane	<0.011		0.011	0.00083	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Bromoform	<0.021		0.021	0.0014	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Bromomethane	<0.043		0.043	0.0034	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
2-Butanone (MEK)	<0.043		0.043	0.0032	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Carbon disulfide	<0.011		0.011	0.0026	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Carbon tetrachloride	<0.011		0.011	0.0030	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Chlorobenzene	<0.011		0.011	0.0016	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Chloroethane	<0.043		0.043	0.0077	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Chloroform	<0.011		0.011	0.0036	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Chloromethane	<0.043		0.043	0.0070	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
cis-1,2-Dichloroethene	<0.011		0.011	0.0016	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
cis-1,3-Dichloropropene	<0.011		0.011	0.0012	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Dibromochloromethane	<0.011		0.011	0.00047	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,1-Dichloroethane	<0.011		0.011	0.00092	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,2-Dichloroethane	<0.011		0.011	0.00066	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,1-Dichloroethene	<0.011		0.011	0.0015	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,2-Dichloropropane	<0.011		0.011	0.00092	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,3-Dichloropropene, Total	<0.021		0.021	0.0023	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Ethylbenzene	<0.011		0.011	0.0051	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
2-Hexanone	<0.043		0.043	0.0049	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Methylene Chloride	<0.11		0.11	0.062	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
4-Methyl-2-pentanone (MIBK)	<0.043		0.043	0.0036	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Methyl tert-butyl ether	<0.011		0.011	0.00047	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Styrene	<0.011		0.011	0.0075	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,1,2,2-Tetrachloroethane	<0.011		0.011	0.00075	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Tetrachloroethene	<0.011		0.011	0.0020	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Toluene	<0.011		0.011	0.0070	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
trans-1,2-Dichloroethene	<0.011		0.011	0.0013	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
trans-1,3-Dichloropropene	<0.011		0.011	0.0012	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,1,1-Trichloroethane	<0.011		0.011	0.00098	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,1,2-Trichloroethane	<0.011		0.011	0.00068	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Trichloroethene	<0.011		0.011	0.0030	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Vinyl acetate	<0.021		0.021	0.0036	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Vinyl chloride	<0.021		0.021	0.0075	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Xylenes, Total	<0.021		0.021	0.0077	mg/Kg		11/22/22 11:52	11/22/22 19:06	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	92		77 - 120	11/22/22 11:52	11/22/22 19:06	1
Dibromofluoromethane (Surr)	107		80 - 123	11/22/22 11:52	11/22/22 19:06	1
Toluene-d8 (Surr)	94		76 - 120	11/22/22 11:52	11/22/22 19:06	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-372826/2-A
Matrix: Solid
Analysis Batch: 372827

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372826

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	Limits
Acetone	0.172	0.139		mg/Kg		81		52 - 150
Benzene	0.0860	0.0822		mg/Kg		96		77 - 134
Bromodichloromethane	0.0860	0.0783		mg/Kg		91		78 - 122
Bromoform	0.0860	0.0820		mg/Kg		95		72 - 122
2-Butanone (MEK)	0.172	0.175		mg/Kg		102		60 - 150
Carbon disulfide	0.0860	0.0785		mg/Kg		91		61 - 142
Carbon tetrachloride	0.0860	0.0749		mg/Kg		87		77 - 127
Chlorobenzene	0.0860	0.0766		mg/Kg		89		76 - 120
Chloroform	0.0860	0.0733		mg/Kg		85		78 - 127
cis-1,2-Dichloroethene	0.0860	0.0821		mg/Kg		95		74 - 136
cis-1,3-Dichloropropene	0.0860	0.0815		mg/Kg		95		79 - 126
Dibromochloromethane	0.0860	0.0820		mg/Kg		95		78 - 122
1,1-Dichloroethane	0.0860	0.0831		mg/Kg		97		74 - 137
1,2-Dichloroethane	0.0860	0.0800		mg/Kg		93		79 - 132
1,1-Dichloroethene	0.0860	0.0731		mg/Kg		85		62 - 130
1,2-Dichloropropane	0.0860	0.0857		mg/Kg		100		78 - 135
Ethylbenzene	0.0860	0.0800		mg/Kg		93		78 - 122
2-Hexanone	0.172	0.177		mg/Kg		103		73 - 134
Methylene Chloride	0.0860	0.0786	J	mg/Kg		91		55 - 150
4-Methyl-2-pentanone (MIBK)	0.172	0.181		mg/Kg		105		75 - 135
Methyl tert-butyl ether	0.0860	0.0827		mg/Kg		96		73 - 135
Styrene	0.0860	0.0822		mg/Kg		96		75 - 120
1,1,2,2-Tetrachloroethane	0.0860	0.0854		mg/Kg		99		80 - 127
Tetrachloroethene	0.0860	0.0703		mg/Kg		82		72 - 121
Toluene	0.0860	0.0766		mg/Kg		89		77 - 121
trans-1,2-Dichloroethene	0.0860	0.0800		mg/Kg		93		71 - 134
trans-1,3-Dichloropropene	0.0860	0.0765		mg/Kg		89		77 - 122
1,1,1-Trichloroethane	0.0860	0.0778		mg/Kg		90		79 - 132
1,1,2-Trichloroethane	0.0860	0.0852		mg/Kg		99		80 - 124
Trichloroethene	0.0860	0.0801		mg/Kg		93		76 - 132
Vinyl acetate	0.172	0.153		mg/Kg		89		37 - 150
Xylenes, Total	0.172	0.160		mg/Kg		93		76 - 124

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		77 - 120
Dibromofluoromethane (Surr)	99		80 - 123
Toluene-d8 (Surr)	100		76 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-686917/1-A
Matrix: Solid
Analysis Batch: 687671

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686917

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		11/27/22 10:59	12/01/22 16:25	1

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-686917/1-A
Matrix: Solid
Analysis Batch: 687671

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686917

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Carbazole	<0.17		0.17	0.083	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Isophorone	<0.17		0.17	0.037	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		11/27/22 10:59	12/01/22 16:25	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-686917/1-A
Matrix: Solid
Analysis Batch: 687671

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686917

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Phenol	<0.17		0.17	0.074	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		11/27/22 10:59	12/01/22 16:25	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		11/27/22 10:59	12/01/22 16:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	129		43 - 145	11/27/22 10:59	12/01/22 16:25	1
2-Fluorophenol (Surr)	199	S1+	31 - 166	11/27/22 10:59	12/01/22 16:25	1
Nitrobenzene-d5 (Surr)	106		37 - 147	11/27/22 10:59	12/01/22 16:25	1
Phenol-d5 (Surr)	151		30 - 153	11/27/22 10:59	12/01/22 16:25	1
Terphenyl-d14 (Surr)	162	S1+	42 - 157	11/27/22 10:59	12/01/22 16:25	1
2,4,6-Tribromophenol (Surr)	136		31 - 143	11/27/22 10:59	12/01/22 16:25	1

Lab Sample ID: LCS 500-686917/2-A
Matrix: Solid
Analysis Batch: 687671

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686917

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.44		mg/Kg		108	65 - 124
Acenaphthylene	1.33	1.45		mg/Kg		109	68 - 120
Anthracene	1.33	1.39		mg/Kg		104	70 - 114
Benzo[a]anthracene	1.33	1.51		mg/Kg		113	67 - 122
Benzo[a]pyrene	1.33	1.42		mg/Kg		107	65 - 133
Benzo[b]fluoranthene	1.33	1.37		mg/Kg		103	69 - 129
Benzo[g,h,i]perylene	1.33	1.48		mg/Kg		111	72 - 131
Benzo[k]fluoranthene	1.33	1.30		mg/Kg		98	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.34		mg/Kg		101	60 - 112
Bis(2-chloroethyl)ether	1.33	1.42		mg/Kg		106	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.64		mg/Kg		123	72 - 131
4-Bromophenyl phenyl ether	1.33	1.32		mg/Kg		99	68 - 118
Butyl benzyl phthalate	1.33	1.54		mg/Kg		115	71 - 129
Carbazole	1.33	1.54		mg/Kg		115	65 - 142
4-Chloroaniline	1.33	0.722		mg/Kg		54	30 - 150
4-Chloro-3-methylphenol	1.33	1.49		mg/Kg		112	65 - 122
2-Chloronaphthalene	1.33	1.41		mg/Kg		106	69 - 114
2-Chlorophenol	1.33	1.46		mg/Kg		109	64 - 110
4-Chlorophenyl phenyl ether	1.33	1.41		mg/Kg		106	62 - 119
Chrysene	1.33	1.47		mg/Kg		110	63 - 120
Dibenz(a,h)anthracene	1.33	1.53		mg/Kg		115	64 - 131
Dibenzofuran	1.33	1.42		mg/Kg		107	66 - 115

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-686917/2-A
Matrix: Solid
Analysis Batch: 687671

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686917

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	1.33	1.22		mg/Kg		92	62 - 110
1,3-Dichlorobenzene	1.33	1.19		mg/Kg		89	65 - 124
1,4-Dichlorobenzene	1.33	1.23		mg/Kg		93	61 - 110
3,3'-Dichlorobenzidine	1.33	1.14		mg/Kg		85	35 - 128
2,4-Dichlorophenol	1.33	1.33		mg/Kg		100	58 - 120
Diethyl phthalate	1.33	1.42		mg/Kg		106	58 - 120
2,4-Dimethylphenol	1.33	1.36		mg/Kg		102	60 - 110
Dimethyl phthalate	1.33	1.41		mg/Kg		106	69 - 116
Di-n-butyl phthalate	1.33	1.48		mg/Kg		111	65 - 120
4,6-Dinitro-2-methylphenol	2.67	1.77		mg/Kg		66	10 - 110
2,4-Dinitrophenol	2.67	0.933		mg/Kg		35	10 - 100
2,4-Dinitrotoluene	1.33	1.43		mg/Kg		107	69 - 124
2,6-Dinitrotoluene	1.33	1.58		mg/Kg		119	70 - 123
Di-n-octyl phthalate	1.33	1.66		mg/Kg		125	68 - 134
Fluoranthene	1.33	1.44		mg/Kg		108	62 - 120
Fluorene	1.33	1.42		mg/Kg		106	62 - 120
Hexachlorobenzene	1.33	1.36		mg/Kg		102	63 - 124
Hexachlorobutadiene	1.33	1.29		mg/Kg		97	56 - 120
Hexachlorocyclopentadiene	1.33	<0.67		mg/Kg		13	10 - 133
Hexachloroethane	1.33	1.18		mg/Kg		88	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.60		mg/Kg		120	68 - 130
Isophorone	1.33	1.32		mg/Kg		99	55 - 110
2-Methylnaphthalene	1.33	1.28		mg/Kg		96	69 - 112
2-Methylphenol	1.33	1.42		mg/Kg		107	60 - 120
3 & 4 Methylphenol	1.33	1.45		mg/Kg		108	57 - 120
Naphthalene	1.33	1.27		mg/Kg		95	63 - 110
2-Nitroaniline	1.33	1.56		mg/Kg		117	57 - 124
3-Nitroaniline	1.33	0.979		mg/Kg		73	40 - 122
4-Nitroaniline	1.33	1.46		mg/Kg		109	60 - 160
Nitrobenzene	1.33	1.36		mg/Kg		102	60 - 116
2-Nitrophenol	1.33	1.43		mg/Kg		108	60 - 120
4-Nitrophenol	2.67	2.86		mg/Kg		107	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.37		mg/Kg		103	56 - 118
N-Nitrosodiphenylamine	1.33	1.37		mg/Kg		103	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.39		mg/Kg		104	40 - 124
Pentachlorophenol	2.67	1.86		mg/Kg		70	13 - 112
Phenanthrene	1.33	1.36		mg/Kg		102	62 - 120
Phenol	1.33	1.50		mg/Kg		113	56 - 122
Pyrene	1.33	1.50		mg/Kg		113	61 - 128
1,2,4-Trichlorobenzene	1.33	1.31		mg/Kg		98	66 - 117
2,4,5-Trichlorophenol	1.33	1.34		mg/Kg		100	50 - 120
2,4,6-Trichlorophenol	1.33	1.37		mg/Kg		103	57 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	98		43 - 145
2-Fluorophenol (Surr)	131		31 - 166
Nitrobenzene-d5 (Surr)	88		37 - 147
Phenol-d5 (Surr)	117		30 - 153

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-686917/2-A
Matrix: Solid
Analysis Batch: 687671

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686917

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Terphenyl-d14 (Surr)	116		42 - 157
2,4,6-Tribromophenol (Surr)	108		31 - 143

Lab Sample ID: 500-225491-2 MS
Matrix: Solid
Analysis Batch: 687671

Client Sample ID: 1401V3-24-B02 (0-6)
Prep Type: Total/NA
Prep Batch: 686917

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Acenaphthene	0.22		1.47	1.95		mg/Kg	*	117		65 - 124
Acenaphthylene	0.036	J F1	1.47	1.79		mg/Kg	*	119		68 - 120
Anthracene	0.36	F1	1.47	2.07	F1	mg/Kg	*	116		70 - 114
Benzo[a]anthracene	0.38	F1	1.47	2.15		mg/Kg	*	120		67 - 122
Benzo[a]pyrene	0.31	F1	1.47	2.02		mg/Kg	*	116		65 - 133
Benzo[b]fluoranthene	0.36	F1	1.47	2.16		mg/Kg	*	122		69 - 129
Benzo[g,h,i]perylene	0.099	F1	1.47	1.11	F1	mg/Kg	*	68		72 - 131
Benzo[k]fluoranthene	0.16	F1	1.47	2.07	F1	mg/Kg	*	129		68 - 127
Bis(2-chloroethoxy)methane	<0.19	F1	1.47	1.68	F1	mg/Kg	*	114		60 - 112
Bis(2-chloroethyl)ether	<0.19	F1	1.47	2.01	F1	mg/Kg	*	136		55 - 111
Bis(2-ethylhexyl) phthalate	<0.19	F1	1.47	2.21	F1	mg/Kg	*	150		72 - 131
4-Bromophenyl phenyl ether	<0.19	F1	1.47	1.73		mg/Kg	*	117		68 - 118
Butyl benzyl phthalate	<0.19	F1	1.47	2.07	F1	mg/Kg	*	141		71 - 129
Carbazole	<0.19		1.47	2.00		mg/Kg	*	136		65 - 142
4-Chloroaniline	<0.77		1.47	0.982		mg/Kg	*	67		30 - 150
4-Chloro-3-methylphenol	<0.38	F1	1.47	1.94	F1	mg/Kg	*	132		65 - 122
2-Chloronaphthalene	<0.19	F1	1.47	1.75	F1	mg/Kg	*	119		69 - 114
2-Chlorophenol	<0.19	F1	1.47	1.84	F1	mg/Kg	*	125		64 - 110
4-Chlorophenyl phenyl ether	<0.19	F1	1.47	1.79	F1	mg/Kg	*	121		62 - 119
Chrysene	0.42	F1	1.47	2.09		mg/Kg	*	113		63 - 120
Dibenz(a,h)anthracene	0.031	J	1.47	1.29		mg/Kg	*	85		64 - 131
Dibenzofuran	0.15	J F1	1.47	1.90	F1	mg/Kg	*	118		66 - 115
1,2-Dichlorobenzene	<0.19		1.47	1.53		mg/Kg	*	104		62 - 110
1,3-Dichlorobenzene	<0.19		1.47	1.53		mg/Kg	*	104		60 - 110
1,4-Dichlorobenzene	<0.19		1.47	1.56		mg/Kg	*	106		61 - 110
3,3'-Dichlorobenzidine	<0.19		1.47	1.01		mg/Kg	*	68		35 - 128
2,4-Dichlorophenol	<0.38		1.47	1.76		mg/Kg	*	120		58 - 120
Diethyl phthalate	<0.19	F1	1.47	1.80	F1	mg/Kg	*	122		58 - 120
2,4-Dimethylphenol	<0.38	F1	1.47	1.64	F1	mg/Kg	*	112		60 - 110
Dimethyl phthalate	<0.19	F1	1.47	1.78	F1	mg/Kg	*	121		69 - 116
Di-n-butyl phthalate	<0.19	F1	1.47	1.87	F1	mg/Kg	*	127		65 - 120
4,6-Dinitro-2-methylphenol	<0.77	F1	2.95	3.45	F1	mg/Kg	*	117		10 - 110
2,4-Dinitrophenol	<0.77	F1	2.95	3.02	F1	mg/Kg	*	102		10 - 100
2,4-Dinitrotoluene	<0.19	F1	1.47	1.81		mg/Kg	*	123		69 - 124
2,6-Dinitrotoluene	<0.19	F1	1.47	1.97	F1	mg/Kg	*	134		70 - 123
Di-n-octyl phthalate	<0.19	F1	1.47	2.10	F1	mg/Kg	*	142		68 - 134
Fluoranthene	1.1		1.47	2.59	E	mg/Kg	*	99		62 - 120
Fluorene	0.34		1.47	2.08		mg/Kg	*	118		62 - 120
Hexachlorobenzene	<0.077		1.47	1.74		mg/Kg	*	118		63 - 124
Hexachlorobutadiene	<0.19		1.47	1.56		mg/Kg	*	106		56 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-225491-2 MS
Matrix: Solid
Analysis Batch: 687671

Client Sample ID: 1401V3-24-B02 (0-6)
Prep Type: Total/NA
Prep Batch: 686917

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier		Result	Qualifier					
Hexachlorocyclopentadiene	<0.77	F1	1.47	<0.74	F1	mg/Kg	⊛	0	10	133
Hexachloroethane	<0.19		1.47	1.50		mg/Kg	⊛	102	60	114
Indeno[1,2,3-cd]pyrene	0.11		1.47	1.34		mg/Kg	⊛	83	68	130
Isophorone	<0.19	F1	1.47	1.60		mg/Kg	⊛	108	55	110
2-Methylnaphthalene	<0.077		1.47	1.63		mg/Kg	⊛	111	69	112
2-Methylphenol	<0.19	F1	1.47	1.77		mg/Kg	⊛	120	60	120
3 & 4 Methylphenol	<0.19	F1	1.47	1.78	F1	mg/Kg	⊛	121	57	120
Naphthalene	0.0092	J	1.47	1.61		mg/Kg	⊛	108	63	110
2-Nitroaniline	<0.19	F1	1.47	2.01	F1	mg/Kg	⊛	137	57	124
3-Nitroaniline	<0.38		1.47	1.53		mg/Kg	⊛	104	40	122
4-Nitroaniline	<0.38		1.47	1.75		mg/Kg	⊛	119	60	160
Nitrobenzene	<0.038	F1	1.47	1.73	F1	mg/Kg	⊛	117	60	116
2-Nitrophenol	<0.38	F1	1.47	1.79	F1	mg/Kg	⊛	121	60	120
4-Nitrophenol	<0.77	F1	2.95	3.61	F1	mg/Kg	⊛	123	30	122
N-Nitrosodi-n-propylamine	<0.077	F1	1.47	1.70		mg/Kg	⊛	115	56	118
N-Nitrosodiphenylamine	<0.19	F1	1.47	1.85	F1	mg/Kg	⊛	125	65	112
2,2'-oxybis[1-chloropropane]	<0.19		1.47	1.72		mg/Kg	⊛	117	40	124
Pentachlorophenol	<0.77		2.95	2.31		mg/Kg	⊛	78	13	112
Phenanthrene	1.3		1.47	2.69	E	mg/Kg	⊛	97	62	120
Phenol	<0.19	F1	1.47	1.95	F1	mg/Kg	⊛	132	56	122
Pyrene	1.1	F1	1.47	2.69	E	mg/Kg	⊛	109	61	128
1,2,4-Trichlorobenzene	<0.19		1.47	1.65		mg/Kg	⊛	112	66	117
2,4,5-Trichlorophenol	<0.38	F1	1.47	1.79	F1	mg/Kg	⊛	122	50	120
2,4,6-Trichlorophenol	<0.38	F1	1.47	1.77		mg/Kg	⊛	120	57	120

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	105		43 - 145
2-Fluorophenol (Surr)	150		31 - 166
Nitrobenzene-d5 (Surr)	98		37 - 147
Phenol-d5 (Surr)	134		30 - 153
Terphenyl-d14 (Surr)	138		42 - 157
2,4,6-Tribromophenol (Surr)	130		31 - 143

Lab Sample ID: 500-225491-2 MSD
Matrix: Solid
Analysis Batch: 687671

Client Sample ID: 1401V3-24-B02 (0-6)
Prep Type: Total/NA
Prep Batch: 686917

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Acenaphthene	0.22		1.49	1.99		mg/Kg	⊛	118	65	124	2	30
Acenaphthylene	0.036	J F1	1.49	1.95	F1	mg/Kg	⊛	128	68	120	8	30
Anthracene	0.36	F1	1.49	2.09	F1	mg/Kg	⊛	116	70	114	1	30
Benzo[a]anthracene	0.38	F1	1.49	2.46	F1	mg/Kg	⊛	139	67	122	13	30
Benzo[a]pyrene	0.31	F1	1.49	2.34	F1	mg/Kg	⊛	136	65	133	15	30
Benzo[b]fluoranthene	0.36	F1	1.49	2.54	F1	mg/Kg	⊛	146	69	129	16	30
Benzo[g,h,i]perylene	0.099	F1	1.49	1.14	F1	mg/Kg	⊛	70	72	131	3	30
Benzo[k]fluoranthene	0.16	F1	1.49	2.19	F1	mg/Kg	⊛	136	68	127	6	30
Bis(2-chloroethoxy)methane	<0.19	F1	1.49	1.75	F1	mg/Kg	⊛	117	60	112	4	30
Bis(2-chloroethyl)ether	<0.19	F1	1.49	1.83	F1	mg/Kg	⊛	122	55	111	9	30

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-225491-2 MSD

Matrix: Solid

Analysis Batch: 687671

Client Sample ID: 1401V3-24-B02 (0-6)

Prep Type: Total/NA

Prep Batch: 686917

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier		Added	Result				Qualifier		
Bis(2-ethylhexyl) phthalate	<0.19	F1	1.49	2.37	F1	mg/Kg	*	159	72 - 131	7	30
4-Bromophenyl phenyl ether	<0.19	F1	1.49	1.81	F1	mg/Kg	*	121	68 - 118	5	30
Butyl benzyl phthalate	<0.19	F1	1.49	2.20	F1	mg/Kg	*	147	71 - 129	6	30
Carbazole	<0.19		1.49	2.08		mg/Kg	*	139	65 - 142	4	30
4-Chloroaniline	<0.77		1.49	1.11		mg/Kg	*	74	30 - 150	12	30
4-Chloro-3-methylphenol	<0.38	F1	1.49	2.04	F1	mg/Kg	*	136	65 - 122	5	30
2-Chloronaphthalene	<0.19	F1	1.49	1.85	F1	mg/Kg	*	124	69 - 114	6	30
2-Chlorophenol	<0.19	F1	1.49	2.04	F1	mg/Kg	*	137	64 - 110	10	30
4-Chlorophenyl phenyl ether	<0.19	F1	1.49	1.87	F1	mg/Kg	*	125	62 - 119	5	30
Chrysene	0.42	F1	1.49	2.39	F1	mg/Kg	*	132	63 - 120	13	30
Dibenz(a,h)anthracene	0.031	J	1.49	1.32		mg/Kg	*	86	64 - 131	2	30
Dibenzofuran	0.15	J F1	1.49	1.98	F1	mg/Kg	*	122	66 - 115	4	30
1,2-Dichlorobenzene	<0.19		1.49	1.57		mg/Kg	*	105	62 - 110	2	30
1,3-Dichlorobenzene	<0.19		1.49	1.48		mg/Kg	*	99	60 - 110	4	30
1,4-Dichlorobenzene	<0.19		1.49	1.52		mg/Kg	*	102	61 - 110	2	30
3,3'-Dichlorobenzidine	<0.19		1.49	1.01		mg/Kg	*	68	35 - 128	0	30
2,4-Dichlorophenol	<0.38		1.49	1.77		mg/Kg	*	118	58 - 120	0	30
Diethyl phthalate	<0.19	F1	1.49	1.86	F1	mg/Kg	*	125	58 - 120	3	30
2,4-Dimethylphenol	<0.38	F1	1.49	1.72	F1	mg/Kg	*	115	60 - 110	4	30
Dimethyl phthalate	<0.19	F1	1.49	1.87	F1	mg/Kg	*	125	69 - 116	5	30
Di-n-butyl phthalate	<0.19	F1	1.49	1.92	F1	mg/Kg	*	128	65 - 120	3	30
4,6-Dinitro-2-methylphenol	<0.77	F1	2.99	3.46	F1	mg/Kg	*	116	10 - 110	0	30
2,4-Dinitrophenol	<0.77	F1	2.99	3.00		mg/Kg	*	100	10 - 100	1	30
2,4-Dinitrotoluene	<0.19	F1	1.49	1.88	F1	mg/Kg	*	126	69 - 124	3	30
2,6-Dinitrotoluene	<0.19	F1	1.49	2.12	F1	mg/Kg	*	142	70 - 123	7	30
Di-n-octyl phthalate	<0.19	F1	1.49	2.20	F1	mg/Kg	*	147	68 - 134	5	30
Fluoranthene	1.1		1.49	2.79	E	mg/Kg	*	111	62 - 120	8	30
Fluorene	0.34		1.49	2.10		mg/Kg	*	118	62 - 120	1	30
Hexachlorobenzene	<0.077		1.49	1.83		mg/Kg	*	122	63 - 124	5	30
Hexachlorobutadiene	<0.19		1.49	1.58		mg/Kg	*	106	56 - 120	1	30
Hexachlorocyclopentadiene	<0.77	F1	1.49	<0.75	F1	mg/Kg	*	0	10 - 133	NC	30
Hexachloroethane	<0.19		1.49	1.35		mg/Kg	*	90	60 - 114	11	30
Indeno[1,2,3-cd]pyrene	0.11		1.49	1.40		mg/Kg	*	86	68 - 130	5	30
Isophorone	<0.19	F1	1.49	1.70	F1	mg/Kg	*	114	55 - 110	6	30
2-Methylnaphthalene	<0.077		1.49	1.67		mg/Kg	*	112	69 - 112	3	30
2-Methylphenol	<0.19	F1	1.49	1.86	F1	mg/Kg	*	124	60 - 120	5	30
3 & 4 Methylphenol	<0.19	F1	1.49	1.97	F1	mg/Kg	*	132	57 - 120	10	30
Naphthalene	0.0092	J	1.49	1.64		mg/Kg	*	109	63 - 110	2	30
2-Nitroaniline	<0.19	F1	1.49	2.08	F1	mg/Kg	*	139	57 - 124	3	30
3-Nitroaniline	<0.38		1.49	1.58		mg/Kg	*	106	40 - 122	3	30
4-Nitroaniline	<0.38		1.49	1.83		mg/Kg	*	122	60 - 160	4	30
Nitrobenzene	<0.038	F1	1.49	1.77	F1	mg/Kg	*	118	60 - 116	2	30
2-Nitrophenol	<0.38	F1	1.49	1.91	F1	mg/Kg	*	128	60 - 120	7	30
4-Nitrophenol	<0.77	F1	2.99	3.94	F1	mg/Kg	*	132	30 - 122	9	30
N-Nitrosodi-n-propylamine	<0.077	F1	1.49	1.88	F1	mg/Kg	*	126	56 - 118	10	30
N-Nitrosodiphenylamine	<0.19	F1	1.49	1.90	F1	mg/Kg	*	127	65 - 112	2	30
2,2'-oxybis[1-chloropropane]	<0.19		1.49	1.83		mg/Kg	*	122	40 - 124	6	30
Pentachlorophenol	<0.77		2.99	2.59		mg/Kg	*	87	13 - 112	11	30
Phenanthrene	1.3		1.49	2.54		mg/Kg	*	85	62 - 120	6	30

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-225491-2 MSD

Matrix: Solid

Analysis Batch: 687671

Client Sample ID: 1401V3-24-B02 (0-6)

Prep Type: Total/NA

Prep Batch: 686917

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenol	<0.19	F1	1.49	2.16	F1	mg/Kg	☼	144	56 - 122	10	30
Pyrene	1.1	F1	1.49	3.01	E F1	mg/Kg	☼	129	61 - 128	11	30
1,2,4-Trichlorobenzene	<0.19		1.49	1.67		mg/Kg	☼	112	66 - 117	1	30
2,4,5-Trichlorophenol	<0.38	F1	1.49	1.98	F1	mg/Kg	☼	133	50 - 120	10	30
2,4,6-Trichlorophenol	<0.38	F1	1.49	1.86	F1	mg/Kg	☼	125	57 - 120	5	30

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
2-Fluorobiphenyl (Surr)	111		43 - 145
2-Fluorophenol (Surr)	168	S1+	31 - 166
Nitrobenzene-d5 (Surr)	105		37 - 147
Phenol-d5 (Surr)	151		30 - 153
Terphenyl-d14 (Surr)	144		42 - 157
2,4,6-Tribromophenol (Surr)	134		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-686619/2-A

Matrix: Solid

Analysis Batch: 687032

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 686619

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.502		mg/L		100	80 - 120
Beryllium	0.0500	0.0476		mg/L		95	80 - 120
Boron	1.00	1.14		mg/L		114	80 - 120
Cadmium	0.0500	0.0517		mg/L		103	80 - 120
Chromium	0.200	0.195		mg/L		98	80 - 120
Cobalt	0.500	0.513		mg/L		103	80 - 120
Iron	1.00	0.981		mg/L		98	80 - 120
Lead	0.100	0.0959		mg/L		96	80 - 120
Manganese	0.500	0.472		mg/L		94	80 - 120
Nickel	0.500	0.501		mg/L		100	80 - 120
Selenium	0.100	0.110		mg/L		110	80 - 120
Silver	0.0500	0.0539		mg/L		108	80 - 120
Zinc	0.500	0.546		mg/L		109	80 - 120

Lab Sample ID: LCS 500-686622/2-A

Matrix: Solid

Analysis Batch: 687339

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 686622

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.100	0.0965		mg/L		97	80 - 120
Manganese	0.500	0.482		mg/L		96	80 - 120

Lab Sample ID: MB 500-687586/1-A

Matrix: Solid

Analysis Batch: 688148

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 687586

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg		11/30/22 16:37	12/02/22 21:44	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 500-687586/1-A
Matrix: Solid
Analysis Batch: 688148

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687586

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<1.0		1.0	0.34	mg/Kg		11/30/22 16:37	12/02/22 21:44	1
Barium	<1.0		1.0	0.11	mg/Kg		11/30/22 16:37	12/02/22 21:44	1
Beryllium	<0.40		0.40	0.093	mg/Kg		11/30/22 16:37	12/02/22 21:44	1
Boron	<5.0		5.0	0.47	mg/Kg		11/30/22 16:37	12/02/22 21:44	1
Cadmium	<0.20		0.20	0.036	mg/Kg		11/30/22 16:37	12/02/22 21:44	1
Calcium	<20		20	3.4	mg/Kg		11/30/22 16:37	12/02/22 21:44	1
Chromium	<1.0		1.0	0.50	mg/Kg		11/30/22 16:37	12/02/22 21:44	1
Cobalt	<0.50		0.50	0.13	mg/Kg		11/30/22 16:37	12/02/22 21:44	1
Copper	<1.0		1.0	0.28	mg/Kg		11/30/22 16:37	12/02/22 21:44	1
Iron	<20		20	10	mg/Kg		11/30/22 16:37	12/02/22 21:44	1
Lead	<0.50		0.50	0.23	mg/Kg		11/30/22 16:37	12/02/22 21:44	1
Magnesium	<10		10	5.0	mg/Kg		11/30/22 16:37	12/02/22 21:44	1
Manganese	<1.0		1.0	0.15	mg/Kg		11/30/22 16:37	12/02/22 21:44	1
Nickel	<1.0		1.0	0.29	mg/Kg		11/30/22 16:37	12/02/22 21:44	1
Potassium	<50		50	18	mg/Kg		11/30/22 16:37	12/02/22 21:44	1
Selenium	<1.0		1.0	0.59	mg/Kg		11/30/22 16:37	12/02/22 21:44	1
Silver	<0.50		0.50	0.13	mg/Kg		11/30/22 16:37	12/02/22 21:44	1
Sodium	<100		100	15	mg/Kg		11/30/22 16:37	12/02/22 21:44	1
Thallium	<1.0		1.0	0.50	mg/Kg		11/30/22 16:37	12/02/22 21:44	1
Vanadium	<0.50		0.50	0.12	mg/Kg		11/30/22 16:37	12/02/22 21:44	1
Zinc	<2.0		2.0	0.88	mg/Kg		11/30/22 16:37	12/02/22 21:44	1

Lab Sample ID: LCS 500-687586/2-A
Matrix: Solid
Analysis Batch: 688148

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687586

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	46.2		mg/Kg		92	80 - 120
Arsenic	10.0	9.48		mg/Kg		95	80 - 120
Barium	200	199		mg/Kg		100	80 - 120
Beryllium	5.00	4.65		mg/Kg		93	80 - 120
Boron	100	86.1		mg/Kg		86	80 - 120
Cadmium	5.00	4.60		mg/Kg		92	80 - 120
Calcium	1000	982		mg/Kg		98	80 - 120
Chromium	20.0	19.1		mg/Kg		95	80 - 120
Cobalt	50.0	49.5		mg/Kg		99	80 - 120
Copper	25.0	24.3		mg/Kg		97	80 - 120
Iron	100	106		mg/Kg		106	80 - 120
Lead	10.0	9.33		mg/Kg		93	80 - 120
Magnesium	1000	938		mg/Kg		94	80 - 120
Manganese	50.0	47.5		mg/Kg		95	80 - 120
Nickel	50.0	48.2		mg/Kg		96	80 - 120
Potassium	1000	984		mg/Kg		98	80 - 120
Selenium	10.0	8.57		mg/Kg		86	80 - 120
Sodium	1000	988		mg/Kg		99	80 - 120
Thallium	10.0	9.29		mg/Kg		93	80 - 120
Vanadium	50.0	48.8		mg/Kg		98	80 - 120
Zinc	50.0	47.6		mg/Kg		95	80 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-687586/2-A ^2
Matrix: Solid
Analysis Batch: 688270

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687586

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	5.00	4.27		mg/Kg		85	80 - 120

Lab Sample ID: LB 500-686387/1-B
Matrix: Solid
Analysis Batch: 687032

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 686619

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		11/22/22 19:35	11/23/22 22:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 19:35	11/23/22 22:05	1
Boron	0.268	J	0.50	0.050	mg/L		11/22/22 19:35	11/23/22 22:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 19:35	11/23/22 22:05	1
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:05	1
Cobalt	<0.025		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:05	1
Iron	<0.40		0.40	0.20	mg/L		11/22/22 19:35	11/23/22 22:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 19:35	11/23/22 22:05	1
Manganese	<0.025		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:05	1
Nickel	<0.025		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:05	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 19:35	11/23/22 22:05	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 19:35	11/23/22 22:05	1
Zinc	<0.50		0.50	0.020	mg/L		11/22/22 19:35	11/23/22 22:05	1

Lab Sample ID: 500-225491-1 MS
Matrix: Solid
Analysis Batch: 687032

Client Sample ID: 1401V3-24-B01 (0-6)
Prep Type: TCLP
Prep Batch: 686619

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.25	J	0.500	0.763		mg/L		104	75 - 125
Beryllium	<0.0040		0.0500	0.0487		mg/L		97	75 - 125
Boron	0.28	J B	1.00	1.21		mg/L		93	75 - 125
Cadmium	<0.0050		0.0500	0.0545		mg/L		109	75 - 125
Chromium	<0.025		0.200	0.191		mg/L		95	75 - 125
Cobalt	<0.025		0.500	0.526		mg/L		105	75 - 125
Iron	<0.40		1.00	0.986		mg/L		99	75 - 125
Lead	<0.0075		0.100	0.0985		mg/L		99	75 - 125
Manganese	2.2		0.500	2.68	4	mg/L		105	75 - 125
Nickel	0.013	J	0.500	0.518		mg/L		101	75 - 125
Selenium	<0.050		0.100	0.116		mg/L		116	75 - 125
Silver	<0.025		0.0500	0.0546		mg/L		109	75 - 125
Zinc	<0.50		0.500	0.531		mg/L		106	75 - 125

Lab Sample ID: 500-225491-1 DU
Matrix: Solid
Analysis Batch: 687032

Client Sample ID: 1401V3-24-B01 (0-6)
Prep Type: TCLP
Prep Batch: 686619

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Barium	0.25	J	0.249	J	mg/L		1	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	0.28	J B	0.281	J	mg/L		1	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-225491-1 DU
Matrix: Solid
Analysis Batch: 687032

Client Sample ID: 1401V3-24-B01 (0-6)
Prep Type: TCLP
Prep Batch: 686619

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	<0.025		<0.025		mg/L		NC	20
Iron	<0.40		<0.40		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	2.2		2.16		mg/L		0.6	20
Nickel	0.013	J	0.0127	J	mg/L		4	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	<0.50		<0.50		mg/L		NC	20

Lab Sample ID: LB 500-686391/2-B
Matrix: Solid
Analysis Batch: 687339

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 686622

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 19:40	11/29/22 10:04	1
Manganese	<0.025		0.025	0.010	mg/L		11/22/22 19:40	11/29/22 10:04	1

Lab Sample ID: 500-225491-1 MS
Matrix: Solid
Analysis Batch: 687339

Client Sample ID: 1401V3-24-B01 (0-6)
Prep Type: SPLP East
Prep Batch: 686622

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier		Result	Qualifier					
Lead	0.020		0.100	0.119		mg/L		99	75 - 125	
Manganese	0.28		0.500	0.763		mg/L		96	75 - 125	

Lab Sample ID: 500-225491-1 DU
Matrix: Solid
Analysis Batch: 687339

Client Sample ID: 1401V3-24-B01 (0-6)
Prep Type: SPLP East
Prep Batch: 686622

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Lead	0.020		0.0185		mg/L		8	20
Manganese	0.28		0.285		mg/L		1	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-686619/2-A
Matrix: Solid
Analysis Batch: 687529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686619

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	Limits
		Result	Qualifier					
Antimony	0.500	0.492		mg/L		98	80 - 120	
Thallium	0.100	0.102		mg/L		102	80 - 120	

Lab Sample ID: LB 500-686387/1-B
Matrix: Solid
Analysis Batch: 687529

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 686619

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 19:35	11/29/22 17:40	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LB 500-686387/1-B
Matrix: Solid
Analysis Batch: 687529

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 686619

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 19:35	11/29/22 17:40	1

Lab Sample ID: 500-225491-1 MS
Matrix: Solid
Analysis Batch: 687529

Client Sample ID: 1401V3-24-B01 (0-6)
Prep Type: TCLP
Prep Batch: 686619

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0060		0.500	0.483		mg/L		97	75 - 125
Thallium	<0.0020		0.100	0.100		mg/L		100	75 - 125

Lab Sample ID: 500-225491-1 DU
Matrix: Solid
Analysis Batch: 687529

Client Sample ID: 1401V3-24-B01 (0-6)
Prep Type: TCLP
Prep Batch: 686619

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-687085/12-A
Matrix: Solid
Analysis Batch: 687321

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687085

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/28/22 12:00	11/29/22 10:40	1

Lab Sample ID: LCS 500-687085/14-A
Matrix: Solid
Analysis Batch: 687321

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687085

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00198	0.00185		mg/L		93	80 - 120

Lab Sample ID: LB 500-686387/2-B
Matrix: Solid
Analysis Batch: 687321

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 687085

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/28/22 12:00	11/29/22 11:16	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-687934/12-A
Matrix: Solid
Analysis Batch: 688226

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687934

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		12/02/22 15:35	12/05/22 07:34	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 500-687934/13-A
Matrix: Solid
Analysis Batch: 688226

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687934

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.152		mg/Kg		92	80 - 120

Lab Sample ID: 500-225491-5 MS
Matrix: Solid
Analysis Batch: 688226

Client Sample ID: 1401V3-24-B05 (0-6)
Prep Type: Total/NA
Prep Batch: 687934

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.033		0.0914	0.119		mg/Kg	✱	94	75 - 125

Lab Sample ID: 500-225491-5 MSD
Matrix: Solid
Analysis Batch: 688226

Client Sample ID: 1401V3-24-B05 (0-6)
Prep Type: Total/NA
Prep Batch: 687934

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.033		0.0919	0.121		mg/Kg	✱	96	75 - 125	1	20

Lab Sample ID: 500-225491-5 DU
Matrix: Solid
Analysis Batch: 688226

Client Sample ID: 1401V3-24-B05 (0-6)
Prep Type: Total/NA
Prep Batch: 687934

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.033		0.0310		mg/Kg	✱	6	20

Method: 9045D - pH

Lab Sample ID: 500-225491-9 DU
Matrix: Solid
Analysis Batch: 686396

Client Sample ID: 1401V3-24-B09 (0-6)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.3		7.3		SU		0.3	

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B01 (0-6)

Lab Sample ID: 500-225491-1

Date Collected: 11/15/22 13:25

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686391	AW	EET CHI	11/21/22 12:02 - 11/22/22 06:02 ¹
SPLP East	Prep	3010A			686622	LMB	EET CHI	11/22/22 19:40 - 11/22/22 20:10 ¹
SPLP East	Analysis	6010B		1	687339	JJB	EET CHI	11/29/22 10:10
TCLP	Leach	1311			686387	AW	EET CHI	11/21/22 14:55 - 11/22/22 06:55 ¹
TCLP	Prep	3010A			686619	LMB	EET CHI	11/22/22 19:35 - 11/22/22 20:05 ¹
TCLP	Analysis	6010B		1	687032	JJB	EET CHI	11/23/22 22:11
TCLP	Leach	1311			686387	AW	EET CHI	11/21/22 14:55 - 11/22/22 06:55 ¹
TCLP	Prep	3010A			686619	LMB	EET CHI	11/22/22 19:35 - 11/22/22 20:05 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 17:44
TCLP	Leach	1311			686387	AW	EET CHI	11/21/22 14:55 - 11/22/22 06:55 ¹
TCLP	Prep	7470A			687085	MJG	EET CHI	11/28/22 12:00 - 11/28/22 14:00 ¹
TCLP	Analysis	7470A		1	687321	MJG	EET CHI	11/29/22 11:23
Total/NA	Analysis	9045D		1	686168	LWN	EET CHI	11/20/22 19:23
Total/NA	Analysis	Moisture		1	687268	LWN	EET CHI	11/29/22 10:33

Client Sample ID: 1401V3-24-B01 (0-6)

Lab Sample ID: 500-225491-1

Date Collected: 11/15/22 13:25

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372778	MZR8	EET CF	11/16/22 08:00
Total/NA	Prep	5035			372826	MZR8	EET CF	11/22/22 11:52
Total/NA	Analysis	8260D		1	372827	MZR8	EET CF	11/22/22 23:14
Total/NA	Prep	3541			686917	EK	EET CHI	11/27/22 10:59 - 11/27/22 14:00 ¹
Total/NA	Analysis	8270D		1	687671	SS	EET CHI	12/01/22 17:11
Total/NA	Prep	3050B			687586	LMB	EET CHI	11/30/22 16:37 - 11/30/22 17:07 ¹
Total/NA	Analysis	6010B		1	688148	JJB	EET CHI	12/02/22 22:46
Total/NA	Prep	3050B			687586	LMB	EET CHI	11/30/22 16:37 - 11/30/22 17:07 ¹
Total/NA	Analysis	6010B		2	688435	JJB	EET CHI	12/05/22 15:12
Total/NA	Prep	7471B			687934	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 07:50

Client Sample ID: 1401V3-24-B02 (0-6)

Lab Sample ID: 500-225491-2

Date Collected: 11/15/22 13:35

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686391	AW	EET CHI	11/21/22 12:02 - 11/22/22 06:02 ¹
SPLP East	Prep	3010A			686622	LMB	EET CHI	11/22/22 19:40 - 11/22/22 20:10 ¹
SPLP East	Analysis	6010B		1	687339	JJB	EET CHI	11/29/22 10:23
TCLP	Leach	1311			686387	AW	EET CHI	11/21/22 14:55 - 11/22/22 06:55 ¹
TCLP	Prep	3010A			686619	LMB	EET CHI	11/22/22 19:35 - 11/22/22 20:05 ¹
TCLP	Analysis	6010B		1	687032	JJB	EET CHI	11/23/22 22:34
TCLP	Leach	1311			686387	AW	EET CHI	11/21/22 14:55 - 11/22/22 06:55 ¹
TCLP	Prep	3010A			686619	LMB	EET CHI	11/22/22 19:35 - 11/22/22 20:05 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 17:52

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B02 (0-6)

Lab Sample ID: 500-225491-2

Date Collected: 11/15/22 13:35

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			686387	AW	EET CHI	11/21/22 14:55 - 11/22/22 06:55 ¹
TCLP	Prep	7470A			687085	MJG	EET CHI	11/28/22 12:00 - 11/28/22 14:00 ¹
TCLP	Analysis	7470A		1	687321	MJG	EET CHI	11/29/22 11:26
Total/NA	Analysis	9045D		1	686168	LWN	EET CHI	11/20/22 19:25
Total/NA	Analysis	Moisture		1	687268	LWN	EET CHI	11/29/22 10:33

Client Sample ID: 1401V3-24-B02 (0-6)

Lab Sample ID: 500-225491-2

Date Collected: 11/15/22 13:35

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372778	MZR8	EET CF	11/16/22 08:00
Total/NA	Prep	5035			372826	MZR8	EET CF	11/22/22 11:52
Total/NA	Analysis	8260D		1	372827	MZR8	EET CF	11/22/22 23:39
Total/NA	Prep	3541			686917	EK	EET CHI	11/27/22 10:59 - 11/27/22 14:00 ¹
Total/NA	Analysis	8270D		1	687671	SS	EET CHI	12/01/22 17:34
Total/NA	Prep	3050B			687586	LMB	EET CHI	11/30/22 16:37 - 11/30/22 17:07 ¹
Total/NA	Analysis	6010B		1	688148	JJB	EET CHI	12/02/22 22:49
Total/NA	Prep	7471B			687934	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 07:52

Client Sample ID: 1401V3-24-B03 (0-6)

Lab Sample ID: 500-225491-3

Date Collected: 11/15/22 13:55

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686391	AW	EET CHI	11/21/22 12:02 - 11/22/22 06:02 ¹
SPLP East	Prep	3010A			686622	LMB	EET CHI	11/22/22 19:40 - 11/22/22 20:10 ¹
SPLP East	Analysis	6010B		1	687339	JJB	EET CHI	11/29/22 10:26
TCLP	Leach	1311			686387	AW	EET CHI	11/21/22 14:55 - 11/22/22 06:55 ¹
TCLP	Prep	3010A			686619	LMB	EET CHI	11/22/22 19:35 - 11/22/22 20:05 ¹
TCLP	Analysis	6010B		1	687032	JJB	EET CHI	11/23/22 22:38
TCLP	Leach	1311			686387	AW	EET CHI	11/21/22 14:55 - 11/22/22 06:55 ¹
TCLP	Prep	3010A			686619	LMB	EET CHI	11/22/22 19:35 - 11/22/22 20:05 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 17:54
TCLP	Leach	1311			686387	AW	EET CHI	11/21/22 14:55 - 11/22/22 06:55 ¹
TCLP	Prep	7470A			687085	MJG	EET CHI	11/28/22 12:00 - 11/28/22 14:00 ¹
TCLP	Analysis	7470A		1	687321	MJG	EET CHI	11/29/22 11:28
Total/NA	Analysis	9045D		1	686168	LWN	EET CHI	11/20/22 19:28
Total/NA	Analysis	Moisture		1	687268	LWN	EET CHI	11/29/22 10:33

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B03 (0-6)

Lab Sample ID: 500-225491-3

Date Collected: 11/15/22 13:55

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372778	MZR8	EET CF	11/16/22 08:00
Total/NA	Prep	5035			372826	MZR8	EET CF	11/22/22 11:52
Total/NA	Analysis	8260D		1	372827	MZR8	EET CF	11/23/22 00:03
Total/NA	Prep	3541			686917	EK	EET CHI	11/27/22 10:59 - 11/27/22 14:00 ¹
Total/NA	Analysis	8270D		1	687671	SS	EET CHI	12/01/22 18:43
Total/NA	Prep	3050B			687586	LMB	EET CHI	11/30/22 16:37 - 11/30/22 17:07 ¹
Total/NA	Analysis	6010B		1	688148	JJJ	EET CHI	12/02/22 22:52
Total/NA	Prep	7471B			687934	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 07:53

Client Sample ID: 1401V3-24-B04 (0-6)

Lab Sample ID: 500-225491-4

Date Collected: 11/15/22 14:20

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686391	AW	EET CHI	11/21/22 12:02 - 11/22/22 06:02 ¹
SPLP East	Prep	3010A			686622	LMB	EET CHI	11/22/22 19:40 - 11/22/22 20:10 ¹
SPLP East	Analysis	6010B		1	687339	JJJ	EET CHI	11/29/22 10:29
TCLP	Leach	1311			686387	AW	EET CHI	11/21/22 14:55 - 11/22/22 06:55 ¹
TCLP	Prep	3010A			686619	LMB	EET CHI	11/22/22 19:35 - 11/22/22 20:05 ¹
TCLP	Analysis	6010B		1	687032	JJJ	EET CHI	11/23/22 22:41
TCLP	Leach	1311			686387	AW	EET CHI	11/21/22 14:55 - 11/22/22 06:55 ¹
TCLP	Prep	3010A			686619	LMB	EET CHI	11/22/22 19:35 - 11/22/22 20:05 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 17:56
TCLP	Leach	1311			686387	AW	EET CHI	11/21/22 14:55 - 11/22/22 06:55 ¹
TCLP	Prep	7470A			687085	MJG	EET CHI	11/28/22 12:00 - 11/28/22 14:00 ¹
TCLP	Analysis	7470A		1	687321	MJG	EET CHI	11/29/22 11:47
Total/NA	Analysis	9045D		1	686168	LWN	EET CHI	11/20/22 19:30
Total/NA	Analysis	Moisture		1	687268	LWN	EET CHI	11/29/22 10:33

Client Sample ID: 1401V3-24-B04 (0-6)

Lab Sample ID: 500-225491-4

Date Collected: 11/15/22 14:20

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 76.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372778	MZR8	EET CF	11/16/22 08:00
Total/NA	Prep	5035			372826	MZR8	EET CF	11/22/22 11:52
Total/NA	Analysis	8260D		1	372827	MZR8	EET CF	11/23/22 00:28
Total/NA	Prep	3541			686917	EK	EET CHI	11/27/22 10:59 - 11/27/22 14:00 ¹
Total/NA	Analysis	8270D		1	687671	SS	EET CHI	12/01/22 19:06
Total/NA	Prep	3050B			687586	LMB	EET CHI	11/30/22 16:37 - 11/30/22 17:07 ¹
Total/NA	Analysis	6010B		1	688148	JJJ	EET CHI	12/02/22 23:01
Total/NA	Prep	7471B			687934	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 07:55

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B05 (0-6)

Lab Sample ID: 500-225491-5

Date Collected: 11/15/22 14:40

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686391	AW	EET CHI	11/21/22 12:02 - 11/22/22 06:02 ¹
SPLP East	Prep	3010A			686622	LMB	EET CHI	11/22/22 19:40 - 11/22/22 20:10 ¹
SPLP East	Analysis	6010B		1	687339	JJB	EET CHI	11/29/22 10:32
TCLP	Leach	1311			686387	AW	EET CHI	11/21/22 14:55 - 11/22/22 06:55 ¹
TCLP	Prep	3010A			686619	LMB	EET CHI	11/22/22 19:35 - 11/22/22 20:05 ¹
TCLP	Analysis	6010B		1	687032	JJB	EET CHI	11/23/22 22:44
TCLP	Leach	1311			686387	AW	EET CHI	11/21/22 14:55 - 11/22/22 06:55 ¹
TCLP	Prep	3010A			686619	LMB	EET CHI	11/22/22 19:35 - 11/22/22 20:05 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 17:58
TCLP	Leach	1311			686387	AW	EET CHI	11/21/22 14:55 - 11/22/22 06:55 ¹
TCLP	Prep	7470A			687085	MJG	EET CHI	11/28/22 12:00 - 11/28/22 14:00 ¹
TCLP	Analysis	7470A		1	687321	MJG	EET CHI	11/29/22 11:49
Total/NA	Analysis	9045D		1	686168	LWN	EET CHI	11/20/22 19:33
Total/NA	Analysis	Moisture		1	687268	LWN	EET CHI	11/29/22 10:33

Client Sample ID: 1401V3-24-B05 (0-6)

Lab Sample ID: 500-225491-5

Date Collected: 11/15/22 14:40

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372778	MZR8	EET CF	11/16/22 08:00
Total/NA	Prep	5035			372826	MZR8	EET CF	11/22/22 11:52
Total/NA	Analysis	8260D		1	372827	MZR8	EET CF	11/23/22 00:53
Total/NA	Prep	3541			686917	EK	EET CHI	11/27/22 10:59 - 11/27/22 14:00 ¹
Total/NA	Analysis	8270D		1	689306	SS	EET CHI	12/12/22 20:31
Total/NA	Prep	3050B			687586	LMB	EET CHI	11/30/22 16:37 - 11/30/22 17:07 ¹
Total/NA	Analysis	6010B		1	688148	JJB	EET CHI	12/02/22 23:05
Total/NA	Prep	7471B			687934	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 07:57

Client Sample ID: 1401V3-24-B06 (0-6)

Lab Sample ID: 500-225491-6

Date Collected: 11/15/22 14:55

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686391	AW	EET CHI	11/21/22 12:02 - 11/22/22 06:02 ¹
SPLP East	Prep	3010A			686622	LMB	EET CHI	11/22/22 19:40 - 11/22/22 20:10 ¹
SPLP East	Analysis	6010B		1	687339	JJB	EET CHI	11/29/22 10:42
TCLP	Leach	1311			686387	AW	EET CHI	11/21/22 14:55 - 11/22/22 06:55 ¹
TCLP	Prep	3010A			686619	LMB	EET CHI	11/22/22 19:35 - 11/22/22 20:05 ¹
TCLP	Analysis	6010B		1	687032	JJB	EET CHI	11/23/22 22:48
TCLP	Leach	1311			686387	AW	EET CHI	11/21/22 14:55 - 11/22/22 06:55 ¹
TCLP	Prep	3010A			686619	LMB	EET CHI	11/22/22 19:35 - 11/22/22 20:05 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 18:05

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B06 (0-6)

Lab Sample ID: 500-225491-6

Date Collected: 11/15/22 14:55

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			686387	AW	EET CHI	11/21/22 14:55 - 11/22/22 06:55 ¹
TCLP	Prep	7470A			687085	MJG	EET CHI	11/28/22 12:00 - 11/28/22 14:00 ¹
TCLP	Analysis	7470A		1	687321	MJG	EET CHI	11/29/22 11:51
Total/NA	Analysis	9045D		1	686168	LWN	EET CHI	11/20/22 19:35
Total/NA	Analysis	Moisture		1	687268	LWN	EET CHI	11/29/22 10:33

Client Sample ID: 1401V3-24-B06 (0-6)

Lab Sample ID: 500-225491-6

Date Collected: 11/15/22 14:55

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372778	MZR8	EET CF	11/16/22 08:00
Total/NA	Prep	5035			372826	MZR8	EET CF	11/22/22 11:52
Total/NA	Analysis	8260D		1	372827	MZR8	EET CF	11/23/22 01:18
Total/NA	Prep	3541			686917	EK	EET CHI	11/27/22 10:59 - 11/27/22 14:00 ¹
Total/NA	Analysis	8270D		1	687671	SS	EET CHI	12/01/22 19:52
Total/NA	Prep	3050B			687586	LMB	EET CHI	11/30/22 16:37 - 11/30/22 17:07 ¹
Total/NA	Analysis	6010B		1	688148	JJB	EET CHI	12/02/22 23:08
Total/NA	Prep	7471B			687934	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 08:09

Client Sample ID: 1401V3-24-B07 (0-6)

Lab Sample ID: 500-225491-7

Date Collected: 11/15/22 15:15

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686391	AW	EET CHI	11/21/22 12:02 - 11/22/22 06:02 ¹
SPLP East	Prep	3010A			686622	LMB	EET CHI	11/22/22 19:40 - 11/22/22 20:10 ¹
SPLP East	Analysis	6010B		1	687339	JJB	EET CHI	11/29/22 10:45
TCLP	Leach	1311			686387	AW	EET CHI	11/21/22 14:55 - 11/22/22 06:55 ¹
TCLP	Prep	3010A			686619	LMB	EET CHI	11/22/22 19:35 - 11/22/22 20:05 ¹
TCLP	Analysis	6010B		1	687032	JJB	EET CHI	11/23/22 22:51
TCLP	Leach	1311			686387	AW	EET CHI	11/21/22 14:55 - 11/22/22 06:55 ¹
TCLP	Prep	3010A			686619	LMB	EET CHI	11/22/22 19:35 - 11/22/22 20:05 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 18:07
TCLP	Leach	1311			686387	AW	EET CHI	11/21/22 14:55 - 11/22/22 06:55 ¹
TCLP	Prep	7470A			687085	MJG	EET CHI	11/28/22 12:00 - 11/28/22 14:00 ¹
TCLP	Analysis	7470A		1	687321	MJG	EET CHI	11/29/22 11:53
Total/NA	Analysis	9045D		1	686168	LWN	EET CHI	11/20/22 19:38
Total/NA	Analysis	Moisture		1	687268	LWN	EET CHI	11/29/22 10:33

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B07 (0-6)

Lab Sample ID: 500-225491-7

Date Collected: 11/15/22 15:15

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372778	MZR8	EET CF	11/16/22 08:00
Total/NA	Prep	5035			372826	MZR8	EET CF	11/22/22 11:52
Total/NA	Analysis	8260D		1	372827	MZR8	EET CF	11/23/22 01:42
Total/NA	Prep	3541			686917	EK	EET CHI	11/27/22 10:59 - 11/27/22 14:00 ¹
Total/NA	Analysis	8270D		2	687903	JSB	EET CHI	12/02/22 14:00
Total/NA	Prep	3050B			687586	LMB	EET CHI	11/30/22 16:37 - 11/30/22 17:07 ¹
Total/NA	Analysis	6010B		1	688148	JJJ	EET CHI	12/02/22 23:11
Total/NA	Prep	3050B			687586	LMB	EET CHI	11/30/22 16:37 - 11/30/22 17:07 ¹
Total/NA	Analysis	6010B		2	688435	JJJ	EET CHI	12/05/22 15:15
Total/NA	Prep	7471B			687934	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 08:11

Client Sample ID: 1401V3-24-B08 (0-6)

Lab Sample ID: 500-225491-8

Date Collected: 11/15/22 15:30

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686391	AW	EET CHI	11/21/22 12:02 - 11/22/22 06:02 ¹
SPLP East	Prep	3010A			686622	LMB	EET CHI	11/22/22 19:40 - 11/22/22 20:10 ¹
SPLP East	Analysis	6010B		1	687339	JJJ	EET CHI	11/29/22 10:48
TCLP	Leach	1311			686387	AW	EET CHI	11/21/22 14:55 - 11/22/22 06:55 ¹
TCLP	Prep	3010A			686619	LMB	EET CHI	11/22/22 19:35 - 11/22/22 20:05 ¹
TCLP	Analysis	6010B		1	687032	JJJ	EET CHI	11/23/22 22:54
TCLP	Leach	1311			686387	AW	EET CHI	11/21/22 14:55 - 11/22/22 06:55 ¹
TCLP	Prep	3010A			686619	LMB	EET CHI	11/22/22 19:35 - 11/22/22 20:05 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 18:09
TCLP	Leach	1311			686387	AW	EET CHI	11/21/22 14:55 - 11/22/22 06:55 ¹
TCLP	Prep	7470A			687085	MJG	EET CHI	11/28/22 12:00 - 11/28/22 14:00 ¹
TCLP	Analysis	7470A		1	687321	MJG	EET CHI	11/29/22 11:55
Total/NA	Analysis	9045D		1	686168	LWN	EET CHI	11/20/22 19:40
Total/NA	Analysis	Moisture		1	687268	LWN	EET CHI	11/29/22 10:33

Client Sample ID: 1401V3-24-B08 (0-6)

Lab Sample ID: 500-225491-8

Date Collected: 11/15/22 15:30

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372778	MZR8	EET CF	11/16/22 08:00
Total/NA	Prep	5035			372826	MZR8	EET CF	11/22/22 11:52
Total/NA	Analysis	8260D		1	372827	MZR8	EET CF	11/23/22 02:07
Total/NA	Prep	3541			686917	EK	EET CHI	11/27/22 10:59 - 11/27/22 14:00 ¹
Total/NA	Analysis	8270D		1	687671	SS	EET CHI	12/01/22 20:38
Total/NA	Prep	3050B			687586	LMB	EET CHI	11/30/22 16:37 - 11/30/22 17:07 ¹
Total/NA	Analysis	6010B		1	688148	JJJ	EET CHI	12/02/22 23:14

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Client Sample ID: 1401V3-24-B08 (0-6)

Lab Sample ID: 500-225491-8

Date Collected: 11/15/22 15:30

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			687586	LMB	EET CHI	11/30/22 16:37 - 11/30/22 17:07 ¹
Total/NA	Analysis	6010B		2	688435	JJJ	EET CHI	12/05/22 15:18
Total/NA	Prep	7471B			687934	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 08:13

Client Sample ID: 1401V3-24-B09 (0-6)

Lab Sample ID: 500-225491-9

Date Collected: 11/15/22 15:50

Matrix: Solid

Date Received: 11/15/22 18:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686391	AW	EET CHI	11/21/22 12:02 - 11/22/22 06:02 ¹
SPLP East	Prep	3010A			686622	LMB	EET CHI	11/22/22 19:40 - 11/22/22 20:10 ¹
SPLP East	Analysis	6010B		1	687339	JJJ	EET CHI	11/29/22 10:51
TCLP	Leach	1311			686387	AW	EET CHI	11/21/22 14:55 - 11/22/22 06:55 ¹
TCLP	Prep	3010A			686619	LMB	EET CHI	11/22/22 19:35 - 11/22/22 20:05 ¹
TCLP	Analysis	6010B		1	687032	JJJ	EET CHI	11/23/22 22:58
TCLP	Leach	1311			686387	AW	EET CHI	11/21/22 14:55 - 11/22/22 06:55 ¹
TCLP	Prep	3010A			686619	LMB	EET CHI	11/22/22 19:35 - 11/22/22 20:05 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 18:11
TCLP	Leach	1311			686387	AW	EET CHI	11/21/22 14:55 - 11/22/22 06:55 ¹
TCLP	Prep	7470A			687085	MJG	EET CHI	11/28/22 12:00 - 11/28/22 14:00 ¹
TCLP	Analysis	7470A		1	687321	MJG	EET CHI	11/29/22 11:58
Total/NA	Analysis	9045D		1	686396	LWN	EET CHI	11/21/22 16:11
Total/NA	Analysis	Moisture		1	687268	LWN	EET CHI	11/29/22 10:33

Client Sample ID: 1401V3-24-B09 (0-6)

Lab Sample ID: 500-225491-9

Date Collected: 11/15/22 15:50

Matrix: Solid

Date Received: 11/15/22 18:26

Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372778	MZR8	EET CF	11/16/22 08:00
Total/NA	Prep	5035			372826	MZR8	EET CF	11/22/22 11:52
Total/NA	Analysis	8260D		1	372827	MZR8	EET CF	11/23/22 02:32
Total/NA	Prep	3541			686917	EK	EET CHI	11/27/22 10:59 - 11/27/22 14:00 ¹
Total/NA	Analysis	8270D		1	687671	SS	EET CHI	12/01/22 21:01
Total/NA	Prep	3050B			687586	LMB	EET CHI	11/30/22 16:37 - 11/30/22 17:07 ¹
Total/NA	Analysis	6010B		1	688148	JJJ	EET CHI	12/02/22 23:17
Total/NA	Prep	3050B			687586	LMB	EET CHI	11/30/22 16:37 - 11/30/22 17:07 ¹
Total/NA	Analysis	6010B		5	688435	JJJ	EET CHI	12/05/22 15:22
Total/NA	Prep	7471B			687934	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 08:15

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Eurofins Chicago

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225491-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

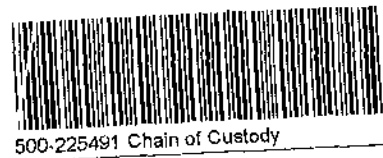
Laboratory: Eurofins Cedar Falls

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Colorado	Petroleum Storage Tank Program	IA100001 (OR)	09-29-23
Georgia	State	IA100001 (OR)	09-29-23
Illinois	NELAP	200024	11-28-22
Iowa	State	007	12-01-23
Kansas	NELAP	E-10341	01-31-23
Minnesota	NELAP	019-999-319	12-31-22
Minnesota (Petrofund)	State	3349	01-18-24
North Dakota	State	R-186	09-29-23
Oregon	NELAP	IA100001	09-29-23



Environment Testing
America



Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Chicago</u>			
City/State:	<u>CHY</u> <u>Univ Park</u>	STATE <u>IL</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>11-18-22</u>	TIME <u>1445</u>	Received By: <u>AL</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>1</u> of <u>2</u>	
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
Temperature Record			
Coolant:	<input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE		
Thermometer ID:	<u>R</u>	Correction Factor (°C):	<u>0</u>
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):	<u>1.5</u>	Corrected Temp (°C):	<u>1.5</u>
Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No			
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



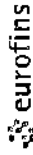
Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Chicago</u>			
City/State:	CITY <u>Univ Park</u>	STATE <u>IL</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>11-18-22</u>	TIME <u>1445</u>	Received By: <u>RL</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>2</u> of <u>2</u>	
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
<u>FW014</u>			
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>RL</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – if no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>0.7</u>		Corrected Temp (°C): <u>0.7</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No			
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

Chain of Custody Record



Environmental Testing

Client Information (Sub Contract Lab)		Lab PM: Wright, Richard	Center Tracking No(s): 500-167701-1
Shipping/Receiving		E-Mail: Richard.Wright@Eurofins.com	Page: Page 1 of 1
Company: Eurofins Environment Testing North Center		Accreditations Required (See note): NELAP - Illinois	Job #: 500-225491-1
Address: 3019 Venture Way, Cedar Falls, IA, 50613		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amehler H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other	
Due Date Requested: 12/1/2022		Analysis Requested:	
TAT Requested (days):		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Triama Z - other (specify)	
PO #:	WO #:	Field Filtered Sample (Yes or No)	
Project #: 50020822	SSOW#: 50020822	8280D/Frozen_dHR (MOD) Copy Analytes	
Sample Date		Field Filtered Sample (Yes or No)	
Sample Time		Preservation Code	
Sample Type (C-comp, G-grab)		Matrix (Residual, Swab, Over-spread, Bifilm, AVAL)	
Sample ID (Lab ID)		Special Instructions/Note:	
1401V3-24-B01 (0-6) (500-225491-1)	11/15/22 13:25 Central	Solid	
1401V3-24-B02 (0-6) (500-225491-2)	11/15/22 13:35 Central	Solid	
1401V3-24-B03 (0-6) (500-225491-3)	11/15/22 13:55 Central	Solid	
1401V3-24-B04 (0-6) (500-225491-4)	11/15/22 14:20 Central	Solid	
1401V3-24-B05 (0-6) (500-225491-5)	11/15/22 14:55 Central	Solid	
1401V3-24-B06 (0-6) (500-225491-6)	11/15/22 15:15 Central	Solid	
1401V3-24-B07 (0-6) (500-225491-7)	11/15/22 15:30 Central	Solid	
1401V3-24-B08 (0-6) (500-225491-8)	11/15/22 15:50 Central	Solid	
1401V3-24-B09 (0-6) (500-225491-9)	11/15/22 Central	Solid	

Notes: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank. 2

Empty Kit Relinquished by _____ Date _____ Time _____ Method of Shipment: _____
 Relinquished by *Shirley Smith* Date: 11/16/22 05:45 Company: *ML* Received by: _____ Date/Time: 11-18-22 14:45 Company: _____
 Relinquished by _____ Date/Time: _____ Company: _____
 Relinquished by _____ Date/Time: _____ Company: _____

Custody Seals Intact. Custody Seal No. Yes No
 Cooler Temperature(s) °C and Other Remarks:



Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225491-1

Login Number: 225491

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4,4.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225491-1

Login Number: 225491

List Number: 2

Creator: Kizer, Preston V

List Source: Eurofins Cedar Falls

List Creation: 11/18/22 06:20 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

PREPARED FOR

Attn: Dean Tiebot
WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602

Generated 12/6/2022 6:00:49 PM

JOB DESCRIPTION

IDOT - 196-002-WO 13 IL 56

JOB NUMBER

500-225544-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



Generated
12/6/2022 6:00:49 PM

Authorized for release by
Richard Wright, Senior Project Manager
Richard.Wright@et.eurofinsus.com
(708)746-0045



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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Job ID: 500-225544-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225544-1

Receipt

The samples were received on 11/16/2022 7:02 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.6° C and 2.9° C.

GC/MS VOA

Method 8260D: The following analyte(s) recovered outside control limits for the LCS associated with preparation batch 310-372906 and analytical batch 310-372908: Chloroform. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-687897 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane], 2,4-Dinitrophenol, 2-Fluorophenol (Surr), 2-Nitroaniline, 4-Nitroaniline, 4-Nitrophenol, Hexachlorocyclopentadiene, Nitrobenzene-d5 (Surr) and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-687897 was outside the method criteria for the following analyte(s): 1,2,4-Trichlorobenzene, 4-Chlorophenyl phenyl ether and Hexachlorobutadiene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-687960 was outside the method criteria for the following analyte(s): Pentachlorophenol and Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-687960 was outside the method criteria for the following analyte(s): 2-Fluorophenol (Surr), Benzo[g,h,i]perylene, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010B: The laboratory control sample (LCS) for prep batch 687802 recovered outside control limits for the following analytes: B-. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Client Sample ID: 1401V3-24-B10 (0-5)

Lab Sample ID: 500-225544-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.019	J	0.039	0.0053	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.016	J	0.039	0.0076	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.018	J	0.039	0.0085	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.015	J	0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.022	J	0.039	0.0073	mg/Kg	1	✳	8270D	Total/NA
Naphthalene	0.0061	J	0.039	0.0061	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.017	J	0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.022	J	0.039	0.0078	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.48	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	10		0.58	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	46		0.58	0.066	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.82		0.23	0.054	mg/Kg	1	✳	6010B	Total/NA
Boron	8.4		2.9	0.27	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.14		0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	32000	B	12	2.0	mg/Kg	1	✳	6010B	Total/NA
Chromium	16		0.58	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	12		0.29	0.076	mg/Kg	1	✳	6010B	Total/NA
Copper	23		0.58	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	20000		12	6.1	mg/Kg	1	✳	6010B	Total/NA
Lead	18		0.29	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	20000		5.8	2.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	370		0.58	0.085	mg/Kg	1	✳	6010B	Total/NA
Nickel	31		0.58	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	1900		29	10	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.42	J	0.58	0.34	mg/Kg	1	✳	6010B	Total/NA
Silver	0.36	B	0.29	0.075	mg/Kg	1	✳	6010B	Total/NA
Sodium	270		58	8.6	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.31	J	0.58	0.29	mg/Kg	1	✳	6010B	Total/NA
Vanadium	22		0.29	0.069	mg/Kg	1	✳	6010B	Total/NA
Zinc	62		1.2	0.51	mg/Kg	1	✳	6010B	Total/NA
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.83	J B *+	1.6	0.050	mg/L	1		6010B	TCLP
Manganese	0.82		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.64		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.037		0.019	0.0064	mg/Kg	1	✳	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-24-B11 (0-6)

Lab Sample ID: 500-225544-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.021	J	0.045	0.0083	mg/Kg	1	✳	8260D	Total/NA
2-Butanone (MEK)	0.0028	J	0.018	0.0013	mg/Kg	1	✳	8260D	Total/NA
Naphthalene	0.011	J	0.037	0.0058	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.55	J	1.1	0.21	mg/Kg	1	✳	6010B	Total/NA
Arsenic	9.3		0.55	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	25		2.7	0.31	mg/Kg	5	✳	6010B	Total/NA
Beryllium	0.56		0.22	0.051	mg/Kg	1	✳	6010B	Total/NA
Boron	8.8		2.7	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.17		0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	75000	B	55	9.3	mg/Kg	5	✳	6010B	Total/NA
Chromium	10		0.55	0.27	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Client Sample ID: 1401V3-24-B11 (0-6) (Continued)

Lab Sample ID: 500-225544-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	8.5		0.27	0.072	mg/Kg	1	✳	6010B	Total/NA
Copper	23		0.55	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	20000		55	29	mg/Kg	5	✳	6010B	Total/NA
Lead	13		0.27	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	47000		27	14	mg/Kg	5	✳	6010B	Total/NA
Manganese	310		0.55	0.080	mg/Kg	1	✳	6010B	Total/NA
Nickel	22		0.55	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	1600		27	9.7	mg/Kg	1	✳	6010B	Total/NA
Silver	0.30	B	0.27	0.071	mg/Kg	1	✳	6010B	Total/NA
Sodium	840		55	8.1	mg/Kg	1	✳	6010B	Total/NA
Vanadium	13		0.27	0.065	mg/Kg	1	✳	6010B	Total/NA
Zinc	65		1.1	0.48	mg/Kg	1	✳	6010B	Total/NA
Barium	0.20	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.82	J B **	1.6	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	2.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.71		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.028		0.017	0.0058	mg/Kg	1	✳	7471B	Total/NA
pH	7.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-24-B12 (0-6)

Lab Sample ID: 500-225544-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.017	J	0.050	0.0092	mg/Kg	1	✳	8260D	Total/NA
2-Butanone (MEK)	0.0030	J	0.020	0.0015	mg/Kg	1	✳	8260D	Total/NA
Benzo[a]anthracene	0.027	J	0.038	0.0051	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.032	J	0.038	0.0074	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.049		0.038	0.0082	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.013	J	0.038	0.012	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.021	J	0.038	0.011	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.033	J	0.038	0.010	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.043		0.038	0.0071	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.014	J	0.038	0.0099	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.015	J	0.038	0.0053	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.041		0.038	0.0076	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.41	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	7.6		0.55	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	55		0.55	0.063	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.70		0.22	0.052	mg/Kg	1	✳	6010B	Total/NA
Boron	6.9		2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.19		0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	30000	B	11	1.9	mg/Kg	1	✳	6010B	Total/NA
Chromium	14		0.55	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	11		0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Copper	20		0.55	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	17000		11	5.8	mg/Kg	1	✳	6010B	Total/NA
Lead	23		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	18000		5.5	2.7	mg/Kg	1	✳	6010B	Total/NA
Manganese	340		0.55	0.080	mg/Kg	1	✳	6010B	Total/NA
Nickel	26		0.55	0.16	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Client Sample ID: 1401V3-24-B12 (0-6) (Continued)

Lab Sample ID: 500-225544-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1700		28	9.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.40	J	0.55	0.33	mg/Kg	1	☼	6010B	Total/NA
Silver	0.34	B	0.28	0.071	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000		55	8.2	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.36	J	0.55	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	64		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Barium	0.64		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.81	J B **	1.6	0.050	mg/L	1		6010B	TCLP
Cobalt	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.24	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	8.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.025	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.035		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	7.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-24-B13 (0-6)

Lab Sample ID: 500-225544-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.025	J	0.046	0.0084	mg/Kg	1	☼	8260D	Total/NA
Benzo[a]anthracene	0.025	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.033	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.047		0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.021	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.035	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.048		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.011	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0085	J	0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.020	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.044		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.34	J	1.2	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.9		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	68		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.80		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Boron	7.5		2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.19		0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Calcium	16000	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	41		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	10000		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	280		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		29	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.41	B	0.29	0.074	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000		58	8.5	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Client Sample ID: 1401V3-24-B13 (0-6) (Continued)

Lab Sample ID: 500-225544-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	77		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Barium	0.71		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.83	J B **	1.6	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.025		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.38	J	0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.022		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	11		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.052	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.19		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	1.7		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.035		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010B	Metals (ICP)	SW846	EET CHI
6010B	SPLP Metals	SW846	EET CHI
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
Frozen Preserve	Freezing Samples	None	EET CF

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225544-1	1401V3-24-B10 (0-5)	Solid	11/16/22 09:50	11/16/22 19:02
500-225544-2	1401V3-24-B11 (0-6)	Solid	11/16/22 10:15	11/16/22 19:02
500-225544-3	1401V3-24-B12 (0-6)	Solid	11/16/22 10:30	11/16/22 19:02
500-225544-4	1401V3-24-B13 (0-6)	Solid	11/16/22 10:50	11/16/22 19:02

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Client Sample ID: 1401V3-24-B10 (0-5)

Lab Sample ID: 500-225544-1

Date Collected: 11/16/22 09:50

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 84.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.059		0.059	0.011	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
Benzene	<0.0059		0.0059	0.0011	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
Bromodichloromethane	<0.0059		0.0059	0.00046	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
Bromoform	<0.012		0.012	0.00075	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
Bromomethane	<0.024		0.024	0.0019	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
2-Butanone (MEK)	<0.024		0.024	0.0018	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
Carbon disulfide	<0.0059		0.0059	0.0014	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
Carbon tetrachloride	<0.0059		0.0059	0.0016	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
Chlorobenzene	<0.0059		0.0059	0.00091	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
Chloroethane	<0.024		0.024	0.0042	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
Chloroform	<0.0059		0.0059	0.0020	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
Chloromethane	<0.024		0.024	0.0039	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
cis-1,2-Dichloroethene	<0.0059		0.0059	0.00088	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
cis-1,3-Dichloropropene	<0.0059		0.0059	0.00066	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
Dibromochloromethane	<0.0059		0.0059	0.00026	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
1,1-Dichloroethane	<0.0059		0.0059	0.00051	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
1,2-Dichloroethane	<0.0059		0.0059	0.00036	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
1,1-Dichloroethene	<0.0059		0.0059	0.00082	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
1,2-Dichloropropane	<0.0059		0.0059	0.00051	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
1,3-Dichloropropene, Total	<0.012		0.012	0.0013	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
Ethylbenzene	<0.0059		0.0059	0.0028	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
2-Hexanone	<0.024		0.024	0.0027	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
Methylene Chloride	<0.059		0.059	0.034	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
4-Methyl-2-pentanone (MIBK)	<0.024		0.024	0.0020	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
Methyl tert-butyl ether	<0.0059		0.0059	0.00026	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
Styrene	<0.0059		0.0059	0.0041	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
1,1,2,2-Tetrachloroethane	<0.0059		0.0059	0.00041	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
Tetrachloroethene	<0.0059		0.0059	0.0011	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
Toluene	<0.0059		0.0059	0.0039	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
trans-1,2-Dichloroethene	<0.0059		0.0059	0.00072	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
trans-1,3-Dichloropropene	<0.0059		0.0059	0.00065	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
1,1,1-Trichloroethane	<0.0059		0.0059	0.00054	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
1,1,2-Trichloroethane	<0.0059		0.0059	0.00038	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
Trichloroethene	<0.0059		0.0059	0.0016	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
Vinyl acetate	<0.012		0.012	0.0020	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
Vinyl chloride	<0.012		0.012	0.0041	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1
Xylenes, Total	<0.012		0.012	0.0042	mg/Kg	☼	11/22/22 11:52	11/23/22 02:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		77 - 120	11/22/22 11:52	11/23/22 02:57	1
Dibromofluoromethane (Surr)	110		80 - 123	11/22/22 11:52	11/23/22 02:57	1
Toluene-d8 (Surr)	90		76 - 120	11/22/22 11:52	11/23/22 02:57	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Benzo[a]anthracene	0.019	J	0.039	0.0053	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Benzo[a]pyrene	0.016	J	0.039	0.0076	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Client Sample ID: 1401V3-24-B10 (0-5)

Lab Sample ID: 500-225544-1

Date Collected: 11/16/22 09:50

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 84.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	0.018	J	0.039	0.0085	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Chrysene	0.015	J	0.039	0.011	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Fluoranthene	0.022	J	0.039	0.0073	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Naphthalene	0.0061	J	0.039	0.0061	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Client Sample ID: 1401V3-24-B10 (0-5)

Lab Sample ID: 500-225544-1

Date Collected: 11/16/22 09:50

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 84.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Phenanthrene	0.017	J	0.039	0.0055	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Pyrene	0.022	J	0.039	0.0078	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	11/28/22 08:54	12/02/22 18:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	83		43 - 145				11/28/22 08:54	12/02/22 18:13	1
2-Fluorophenol (Surr)	86		31 - 166				11/28/22 08:54	12/02/22 18:13	1
Nitrobenzene-d5 (Surr)	58		37 - 147				11/28/22 08:54	12/02/22 18:13	1
Phenol-d5 (Surr)	70		30 - 153				11/28/22 08:54	12/02/22 18:13	1
Terphenyl-d14 (Surr)	118		42 - 157				11/28/22 08:54	12/02/22 18:13	1
2,4,6-Tribromophenol (Surr)	66		31 - 143				11/28/22 08:54	12/02/22 18:13	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J	1.2	0.23	mg/Kg	☼	12/01/22 14:54	12/05/22 15:43	1
Arsenic	10		0.58	0.20	mg/Kg	☼	12/01/22 14:54	12/05/22 15:43	1
Barium	46		0.58	0.066	mg/Kg	☼	12/01/22 14:54	12/05/22 15:43	1
Beryllium	0.82		0.23	0.054	mg/Kg	☼	12/01/22 14:54	12/05/22 15:43	1
Boron	8.4		2.9	0.27	mg/Kg	☼	12/01/22 14:54	12/05/22 15:43	1
Cadmium	0.14		0.12	0.021	mg/Kg	☼	12/01/22 14:54	12/05/22 15:43	1
Calcium	32000	B	12	2.0	mg/Kg	☼	12/01/22 14:54	12/05/22 15:43	1
Chromium	16		0.58	0.29	mg/Kg	☼	12/01/22 14:54	12/05/22 15:43	1
Cobalt	12		0.29	0.076	mg/Kg	☼	12/01/22 14:54	12/05/22 15:43	1
Copper	23		0.58	0.16	mg/Kg	☼	12/01/22 14:54	12/05/22 15:43	1
Iron	20000		12	6.1	mg/Kg	☼	12/01/22 14:54	12/05/22 15:43	1
Lead	18		0.29	0.13	mg/Kg	☼	12/01/22 14:54	12/05/22 15:43	1
Magnesium	20000		5.8	2.9	mg/Kg	☼	12/01/22 14:54	12/05/22 15:43	1
Manganese	370		0.58	0.085	mg/Kg	☼	12/01/22 14:54	12/05/22 15:43	1
Nickel	31		0.58	0.17	mg/Kg	☼	12/01/22 14:54	12/05/22 15:43	1
Potassium	1900		29	10	mg/Kg	☼	12/01/22 14:54	12/05/22 15:43	1
Selenium	0.42	J	0.58	0.34	mg/Kg	☼	12/01/22 14:54	12/05/22 15:43	1
Silver	0.36	B	0.29	0.075	mg/Kg	☼	12/01/22 14:54	12/05/22 15:43	1
Sodium	270		58	8.6	mg/Kg	☼	12/01/22 14:54	12/05/22 15:43	1
Thallium	0.31	J	0.58	0.29	mg/Kg	☼	12/01/22 14:54	12/05/22 15:43	1
Vanadium	22		0.29	0.069	mg/Kg	☼	12/01/22 14:54	12/05/22 15:43	1
Zinc	62		1.2	0.51	mg/Kg	☼	12/01/22 14:54	12/05/22 15:43	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.43	J	0.50	0.050	mg/L		12/01/22 16:59	12/02/22 18:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/01/22 16:59	12/02/22 18:54	1
Boron	0.83	J B *+	1.6	0.050	mg/L		12/01/22 16:59	12/02/22 18:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/01/22 16:59	12/02/22 18:54	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Client Sample ID: 1401V3-24-B10 (0-5)

Lab Sample ID: 500-225544-1

Date Collected: 11/16/22 09:50

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 84.1

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		12/01/22 16:59	12/02/22 18:54	1
Cobalt	<0.025		0.025	0.010	mg/L		12/01/22 16:59	12/02/22 18:54	1
Iron	<0.40		0.40	0.20	mg/L		12/01/22 16:59	12/02/22 18:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/01/22 16:59	12/02/22 18:54	1
Manganese	0.82		0.025	0.010	mg/L		12/01/22 16:59	12/02/22 18:54	1
Nickel	<0.025		0.025	0.010	mg/L		12/01/22 16:59	12/02/22 18:54	1
Selenium	<0.050		0.050	0.020	mg/L		12/01/22 16:59	12/02/22 18:54	1
Silver	<0.025		0.025	0.010	mg/L		12/01/22 16:59	12/02/22 18:54	1
Zinc	<0.50		0.50	0.020	mg/L		12/01/22 16:59	12/02/22 18:54	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.64		0.025	0.010	mg/L		12/01/22 17:10	12/05/22 20:06	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/01/22 16:59	12/02/22 18:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/01/22 16:59	12/02/22 18:00	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 10:45	12/05/22 11:32	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.019	0.0064	mg/Kg	☆	12/02/22 15:35	12/05/22 07:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.6		0.2	0.2	SU			11/21/22 16:50	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Client Sample ID: 1401V3-24-B11 (0-6)

Lab Sample ID: 500-225544-2

Date Collected: 11/16/22 10:15

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 87.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.021	J	0.045	0.0083	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
Benzene	<0.0045		0.0045	0.00081	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
Bromodichloromethane	<0.0045		0.0045	0.00035	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
Bromoform	<0.0090		0.0090	0.00058	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
Bromomethane	<0.018		0.018	0.0014	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
2-Butanone (MEK)	0.0028	J	0.018	0.0013	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
Carbon disulfide	<0.0045		0.0045	0.0011	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
Carbon tetrachloride	<0.0045		0.0045	0.0013	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
Chlorobenzene	<0.0045		0.0045	0.00069	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
Chloroethane	<0.018		0.018	0.0032	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
Chloroform	<0.0045	*	0.0045	0.0015	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
Chloromethane	<0.018		0.018	0.0030	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00067	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00050	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
Dibromochloromethane	<0.0045		0.0045	0.00020	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
1,1-Dichloroethane	<0.0045		0.0045	0.00039	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
1,2-Dichloroethane	<0.0045		0.0045	0.00028	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
1,1-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
1,2-Dichloropropane	<0.0045		0.0045	0.00039	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
1,3-Dichloropropane, Total	<0.0090		0.0090	0.00099	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
Ethylbenzene	<0.0045		0.0045	0.0022	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
2-Hexanone	<0.018		0.018	0.0021	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
Methylene Chloride	<0.045		0.045	0.026	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
4-Methyl-2-pentanone (MIBK)	<0.018		0.018	0.0015	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00020	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
Styrene	<0.0045		0.0045	0.0031	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00031	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
Tetrachloroethene	<0.0045		0.0045	0.00085	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
Toluene	<0.0045		0.0045	0.0030	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00055	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00049	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00041	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00029	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
Trichloroethene	<0.0045		0.0045	0.0013	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
Vinyl acetate	<0.0090		0.0090	0.0015	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
Vinyl chloride	<0.0090		0.0090	0.0031	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1
Xylenes, Total	<0.0090		0.0090	0.0032	mg/Kg	☼	11/23/22 08:03	11/24/22 00:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		77 - 120	11/23/22 08:03	11/24/22 00:13	1
Dibromofluoromethane (Surr)	112		80 - 123	11/23/22 08:03	11/24/22 00:13	1
Toluene-d8 (Surr)	91		76 - 120	11/23/22 08:03	11/24/22 00:13	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Client Sample ID: 1401V3-24-B11 (0-6)

Lab Sample ID: 500-225544-2

Date Collected: 11/16/22 10:15

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 87.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
Naphthalene	0.011	J	0.037	0.0058	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	11/28/22 08:54	12/02/22 18:37	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Client Sample ID: 1401V3-24-B11 (0-6)

Lab Sample ID: 500-225544-2

Date Collected: 11/16/22 10:15

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 87.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	✳	11/28/22 08:54	12/02/22 18:37	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	✳	11/28/22 08:54	12/02/22 18:37	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	✳	11/28/22 08:54	12/02/22 18:37	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	✳	11/28/22 08:54	12/02/22 18:37	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	✳	11/28/22 08:54	12/02/22 18:37	1
Phenol	<0.19		0.19	0.083	mg/Kg	✳	11/28/22 08:54	12/02/22 18:37	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	✳	11/28/22 08:54	12/02/22 18:37	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	✳	11/28/22 08:54	12/02/22 18:37	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	✳	11/28/22 08:54	12/02/22 18:37	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	✳	11/28/22 08:54	12/02/22 18:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	87		43 - 145				11/28/22 08:54	12/02/22 18:37	1
2-Fluorophenol (Surr)	93		31 - 166				11/28/22 08:54	12/02/22 18:37	1
Nitrobenzene-d5 (Surr)	59		37 - 147				11/28/22 08:54	12/02/22 18:37	1
Phenol-d5 (Surr)	76		30 - 153				11/28/22 08:54	12/02/22 18:37	1
Terphenyl-d14 (Surr)	124		42 - 157				11/28/22 08:54	12/02/22 18:37	1
2,4,6-Tribromophenol (Surr)	83		31 - 143				11/28/22 08:54	12/02/22 18:37	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J	1.1	0.21	mg/Kg	✳	12/01/22 14:54	12/05/22 15:46	1
Arsenic	9.3		0.55	0.19	mg/Kg	✳	12/01/22 14:54	12/05/22 15:46	1
Barium	25		2.7	0.31	mg/Kg	✳	12/01/22 14:54	12/06/22 11:47	5
Beryllium	0.56		0.22	0.051	mg/Kg	✳	12/01/22 14:54	12/05/22 15:46	1
Boron	8.8		2.7	0.26	mg/Kg	✳	12/01/22 14:54	12/05/22 15:46	1
Cadmium	0.17		0.11	0.020	mg/Kg	✳	12/01/22 14:54	12/05/22 15:46	1
Calcium	75000	B	55	9.3	mg/Kg	✳	12/01/22 14:54	12/06/22 11:47	5
Chromium	10		0.55	0.27	mg/Kg	✳	12/01/22 14:54	12/05/22 15:46	1
Cobalt	8.5		0.27	0.072	mg/Kg	✳	12/01/22 14:54	12/05/22 15:46	1
Copper	23		0.55	0.15	mg/Kg	✳	12/01/22 14:54	12/05/22 15:46	1
Iron	20000		55	29	mg/Kg	✳	12/01/22 14:54	12/06/22 11:47	5
Lead	13		0.27	0.13	mg/Kg	✳	12/01/22 14:54	12/05/22 15:46	1
Magnesium	47000		27	14	mg/Kg	✳	12/01/22 14:54	12/06/22 11:47	5
Manganese	310		0.55	0.080	mg/Kg	✳	12/01/22 14:54	12/05/22 15:46	1
Nickel	22		0.55	0.16	mg/Kg	✳	12/01/22 14:54	12/05/22 15:46	1
Potassium	1600		27	9.7	mg/Kg	✳	12/01/22 14:54	12/05/22 15:46	1
Selenium	<0.55		0.55	0.32	mg/Kg	✳	12/01/22 14:54	12/05/22 15:46	1
Silver	0.30	B	0.27	0.071	mg/Kg	✳	12/01/22 14:54	12/05/22 15:46	1
Sodium	840		55	8.1	mg/Kg	✳	12/01/22 14:54	12/05/22 15:46	1
Thallium	<0.55		0.55	0.27	mg/Kg	✳	12/01/22 14:54	12/05/22 15:46	1
Vanadium	13		0.27	0.065	mg/Kg	✳	12/01/22 14:54	12/05/22 15:46	1
Zinc	65		1.1	0.48	mg/Kg	✳	12/01/22 14:54	12/05/22 15:46	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.20	J	0.50	0.050	mg/L		12/01/22 16:59	12/02/22 18:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/01/22 16:59	12/02/22 18:58	1
Boron	0.82	J B *+	1.6	0.050	mg/L		12/01/22 16:59	12/02/22 18:58	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		12/01/22 16:59	12/02/22 18:58	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Client Sample ID: 1401V3-24-B11 (0-6)

Lab Sample ID: 500-225544-2

Date Collected: 11/16/22 10:15

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 87.0

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		12/01/22 16:59	12/02/22 18:58	1
Cobalt	<0.025		0.025	0.010	mg/L		12/01/22 16:59	12/02/22 18:58	1
Iron	<0.40		0.40	0.20	mg/L		12/01/22 16:59	12/02/22 18:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/01/22 16:59	12/02/22 18:58	1
Manganese	2.2		0.025	0.010	mg/L		12/01/22 16:59	12/02/22 18:58	1
Nickel	0.013	J	0.025	0.010	mg/L		12/01/22 16:59	12/02/22 18:58	1
Selenium	<0.050		0.050	0.020	mg/L		12/01/22 16:59	12/02/22 18:58	1
Silver	<0.025		0.025	0.010	mg/L		12/01/22 16:59	12/02/22 18:58	1
Zinc	<0.50		0.50	0.020	mg/L		12/01/22 16:59	12/02/22 18:58	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.71		0.025	0.010	mg/L		12/01/22 17:10	12/05/22 19:54	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/01/22 16:59	12/02/22 18:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/01/22 16:59	12/02/22 18:04	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 10:45	12/05/22 11:38	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.017	0.0058	mg/Kg	☆	12/02/22 15:35	12/05/22 07:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.0		0.2	0.2	SU			11/21/22 16:52	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Client Sample ID: 1401V3-24-B12 (0-6)

Lab Sample ID: 500-225544-3

Date Collected: 11/16/22 10:30

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 84.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.017	J	0.050	0.0092	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
Benzene	<0.0050		0.0050	0.00090	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
Bromodichloromethane	<0.0050		0.0050	0.00039	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
Bromoform	<0.010		0.010	0.00064	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
Bromomethane	<0.020		0.020	0.0016	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
2-Butanone (MEK)	0.0030	J	0.020	0.0015	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
Carbon disulfide	<0.0050		0.0050	0.0012	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
Carbon tetrachloride	<0.0050		0.0050	0.0014	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
Chlorobenzene	<0.0050		0.0050	0.00077	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
Chloroethane	<0.020		0.020	0.0036	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
Chloroform	<0.0050	*	0.0050	0.0017	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
Chloromethane	<0.020		0.020	0.0033	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00075	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00056	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
Dibromochloromethane	<0.0050		0.0050	0.00022	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
1,1-Dichloroethane	<0.0050		0.0050	0.00043	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
1,2-Dichloroethane	<0.0050		0.0050	0.00031	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
1,1-Dichloroethene	<0.0050		0.0050	0.00070	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
1,2-Dichloropropane	<0.0050		0.0050	0.00043	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
1,3-Dichloropropane, Total	<0.010		0.010	0.0011	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
Ethylbenzene	<0.0050		0.0050	0.0024	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
2-Hexanone	<0.020		0.020	0.0023	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
Methylene Chloride	<0.050		0.050	0.029	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
4-Methyl-2-pentanone (MIBK)	<0.020		0.020	0.0017	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00022	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
Styrene	<0.0050		0.0050	0.0035	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00035	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
Tetrachloroethene	<0.0050		0.0050	0.00095	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
Toluene	<0.0050		0.0050	0.0033	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00061	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00055	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00046	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00032	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
Vinyl acetate	<0.010		0.010	0.0017	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
Vinyl chloride	<0.010		0.010	0.0035	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1
Xylenes, Total	<0.010		0.010	0.0036	mg/Kg	☼	11/23/22 08:03	11/24/22 00:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		77 - 120	11/23/22 08:03	11/24/22 00:38	1
Dibromofluoromethane (Surr)	108		80 - 123	11/23/22 08:03	11/24/22 00:38	1
Toluene-d8 (Surr)	91		76 - 120	11/23/22 08:03	11/24/22 00:38	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Benzo[a]anthracene	0.027	J	0.038	0.0051	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Benzo[a]pyrene	0.032	J	0.038	0.0074	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Client Sample ID: 1401V3-24-B12 (0-6)

Lab Sample ID: 500-225544-3

Date Collected: 11/16/22 10:30

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 84.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	0.049		0.038	0.0082	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Benzo[g,h,i]perylene	0.013	J	0.038	0.012	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Benzo[k]fluoranthene	0.021	J	0.038	0.011	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Chrysene	0.033	J	0.038	0.010	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Fluoranthene	0.043		0.038	0.0071	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Indeno[1,2,3-cd]pyrene	0.014	J	0.038	0.0099	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Client Sample ID: 1401V3-24-B12 (0-6)

Lab Sample ID: 500-225544-3

Date Collected: 11/16/22 10:30

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 84.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Phenanthrene	0.015	J	0.038	0.0053	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Pyrene	0.041		0.038	0.0076	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	11/28/22 08:54	12/02/22 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	58		43 - 145				11/28/22 08:54	12/02/22 19:01	1
2-Fluorophenol (Surr)	55		31 - 166				11/28/22 08:54	12/02/22 19:01	1
Nitrobenzene-d5 (Surr)	40		37 - 147				11/28/22 08:54	12/02/22 19:01	1
Phenol-d5 (Surr)	51		30 - 153				11/28/22 08:54	12/02/22 19:01	1
Terphenyl-d14 (Surr)	102		42 - 157				11/28/22 08:54	12/02/22 19:01	1
2,4,6-Tribromophenol (Surr)	71		31 - 143				11/28/22 08:54	12/02/22 19:01	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.41	J	1.1	0.22	mg/Kg	☼	12/01/22 14:54	12/05/22 15:50	1
Arsenic	7.6		0.55	0.19	mg/Kg	☼	12/01/22 14:54	12/05/22 15:50	1
Barium	55		0.55	0.063	mg/Kg	☼	12/01/22 14:54	12/05/22 15:50	1
Beryllium	0.70		0.22	0.052	mg/Kg	☼	12/01/22 14:54	12/05/22 15:50	1
Boron	6.9		2.8	0.26	mg/Kg	☼	12/01/22 14:54	12/05/22 15:50	1
Cadmium	0.19		0.11	0.020	mg/Kg	☼	12/01/22 14:54	12/05/22 15:50	1
Calcium	30000	B	11	1.9	mg/Kg	☼	12/01/22 14:54	12/05/22 15:50	1
Chromium	14		0.55	0.27	mg/Kg	☼	12/01/22 14:54	12/05/22 15:50	1
Cobalt	11		0.28	0.073	mg/Kg	☼	12/01/22 14:54	12/05/22 15:50	1
Copper	20		0.55	0.16	mg/Kg	☼	12/01/22 14:54	12/05/22 15:50	1
Iron	17000		11	5.8	mg/Kg	☼	12/01/22 14:54	12/05/22 15:50	1
Lead	23		0.28	0.13	mg/Kg	☼	12/01/22 14:54	12/05/22 15:50	1
Magnesium	18000		5.5	2.7	mg/Kg	☼	12/01/22 14:54	12/05/22 15:50	1
Manganese	340		0.55	0.080	mg/Kg	☼	12/01/22 14:54	12/05/22 15:50	1
Nickel	26		0.55	0.16	mg/Kg	☼	12/01/22 14:54	12/05/22 15:50	1
Potassium	1700		28	9.8	mg/Kg	☼	12/01/22 14:54	12/05/22 15:50	1
Selenium	0.40	J	0.55	0.33	mg/Kg	☼	12/01/22 14:54	12/05/22 15:50	1
Silver	0.34	B	0.28	0.071	mg/Kg	☼	12/01/22 14:54	12/05/22 15:50	1
Sodium	1000		55	8.2	mg/Kg	☼	12/01/22 14:54	12/05/22 15:50	1
Thallium	0.36	J	0.55	0.28	mg/Kg	☼	12/01/22 14:54	12/05/22 15:50	1
Vanadium	19		0.28	0.065	mg/Kg	☼	12/01/22 14:54	12/05/22 15:50	1
Zinc	64		1.1	0.49	mg/Kg	☼	12/01/22 14:54	12/05/22 15:50	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.64		0.50	0.050	mg/L		12/01/22 16:59	12/02/22 19:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/01/22 16:59	12/02/22 19:07	1
Boron	0.81	J B *+	1.6	0.050	mg/L		12/01/22 16:59	12/02/22 19:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/01/22 16:59	12/02/22 19:07	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Client Sample ID: 1401V3-24-B12 (0-6)

Lab Sample ID: 500-225544-3

Date Collected: 11/16/22 10:30

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 84.6

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		12/01/22 16:59	12/02/22 19:07	1
Cobalt	0.017	J	0.025	0.010	mg/L		12/01/22 16:59	12/02/22 19:07	1
Iron	0.24	J	0.40	0.20	mg/L		12/01/22 16:59	12/02/22 19:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/01/22 16:59	12/02/22 19:07	1
Manganese	8.7		0.025	0.010	mg/L		12/01/22 16:59	12/02/22 19:07	1
Nickel	0.012	J	0.025	0.010	mg/L		12/01/22 16:59	12/02/22 19:07	1
Selenium	<0.050		0.050	0.020	mg/L		12/01/22 16:59	12/02/22 19:07	1
Silver	<0.025		0.025	0.010	mg/L		12/01/22 16:59	12/02/22 19:07	1
Zinc	0.025	J	0.50	0.020	mg/L		12/01/22 16:59	12/02/22 19:07	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.9		0.025	0.010	mg/L		12/01/22 17:10	12/05/22 19:57	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/01/22 16:59	12/02/22 18:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/01/22 16:59	12/02/22 18:07	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 10:45	12/05/22 11:40	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.019	0.0063	mg/Kg	☆	12/02/22 15:35	12/05/22 07:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.5		0.2	0.2	SU			11/21/22 16:55	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Client Sample ID: 1401V3-24-B13 (0-6)

Lab Sample ID: 500-225544-4

Date Collected: 11/16/22 10:50

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 83.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.025	J	0.046	0.0084	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
Benzene	<0.0046		0.0046	0.00082	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
Bromodichloromethane	<0.0046		0.0046	0.00036	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
Bromoform	<0.0091		0.0091	0.00058	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
Bromomethane	<0.018		0.018	0.0015	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
2-Butanone (MEK)	<0.018		0.018	0.0014	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
Carbon disulfide	<0.0046		0.0046	0.0011	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
Carbon tetrachloride	<0.0046		0.0046	0.0013	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
Chlorobenzene	<0.0046		0.0046	0.00070	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
Chloroethane	<0.018		0.018	0.0033	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
Chloroform	<0.0046	*	0.0046	0.0016	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
Chloromethane	<0.018		0.018	0.0030	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00068	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00051	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
Dibromochloromethane	<0.0046		0.0046	0.00020	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
1,1-Dichloroethane	<0.0046		0.0046	0.00039	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
1,2-Dichloroethane	<0.0046		0.0046	0.00028	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
1,1-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
1,2-Dichloropropane	<0.0046		0.0046	0.00039	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
1,3-Dichloropropane, Total	<0.0091		0.0091	0.0010	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
Ethylbenzene	<0.0046		0.0046	0.0022	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
2-Hexanone	<0.018		0.018	0.0021	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
Methylene Chloride	<0.046		0.046	0.026	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
4-Methyl-2-pentanone (MIBK)	<0.018		0.018	0.0016	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00020	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
Styrene	<0.0046		0.0046	0.0032	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00032	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
Tetrachloroethene	<0.0046		0.0046	0.00087	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
Toluene	<0.0046		0.0046	0.0030	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00056	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00050	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00042	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00029	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
Trichloroethene	<0.0046		0.0046	0.0013	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
Vinyl acetate	<0.0091		0.0091	0.0016	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
Vinyl chloride	<0.0091		0.0091	0.0032	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1
Xylenes, Total	<0.0091		0.0091	0.0033	mg/Kg	☼	11/23/22 08:03	11/24/22 01:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		77 - 120	11/23/22 08:03	11/24/22 01:03	1
Dibromofluoromethane (Surr)	110		80 - 123	11/23/22 08:03	11/24/22 01:03	1
Toluene-d8 (Surr)	92		76 - 120	11/23/22 08:03	11/24/22 01:03	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Benzo[a]anthracene	0.025	J	0.039	0.0053	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Benzo[a]pyrene	0.033	J	0.039	0.0076	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Client Sample ID: 1401V3-24-B13 (0-6)

Lab Sample ID: 500-225544-4

Date Collected: 11/16/22 10:50

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 83.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	0.047		0.039	0.0085	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Benzo[k]fluoranthene	0.021	J	0.039	0.012	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Chrysene	0.035	J	0.039	0.011	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Fluoranthene	0.048		0.039	0.0073	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Indeno[1,2,3-cd]pyrene	0.011	J	0.039	0.010	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Naphthalene	0.0085	J	0.039	0.0060	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Client Sample ID: 1401V3-24-B13 (0-6)

Lab Sample ID: 500-225544-4

Date Collected: 11/16/22 10:50

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 83.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Phenanthrene	0.020	J	0.039	0.0055	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Pyrene	0.044		0.039	0.0078	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	11/28/22 08:54	12/02/22 19:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	72		43 - 145				11/28/22 08:54	12/02/22 19:26	1
2-Fluorophenol (Surr)	76		31 - 166				11/28/22 08:54	12/02/22 19:26	1
Nitrobenzene-d5 (Surr)	50		37 - 147				11/28/22 08:54	12/02/22 19:26	1
Phenol-d5 (Surr)	62		30 - 153				11/28/22 08:54	12/02/22 19:26	1
Terphenyl-d14 (Surr)	104		42 - 157				11/28/22 08:54	12/02/22 19:26	1
2,4,6-Tribromophenol (Surr)	75		31 - 143				11/28/22 08:54	12/02/22 19:26	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.34	J	1.2	0.22	mg/Kg	☼	12/01/22 14:54	12/05/22 15:53	1
Arsenic	8.9		0.58	0.20	mg/Kg	☼	12/01/22 14:54	12/05/22 15:53	1
Barium	68		0.58	0.066	mg/Kg	☼	12/01/22 14:54	12/05/22 15:53	1
Beryllium	0.80		0.23	0.054	mg/Kg	☼	12/01/22 14:54	12/05/22 15:53	1
Boron	7.5		2.9	0.27	mg/Kg	☼	12/01/22 14:54	12/05/22 15:53	1
Cadmium	0.19		0.12	0.021	mg/Kg	☼	12/01/22 14:54	12/05/22 15:53	1
Calcium	16000	B	12	2.0	mg/Kg	☼	12/01/22 14:54	12/05/22 15:53	1
Chromium	16		0.58	0.29	mg/Kg	☼	12/01/22 14:54	12/05/22 15:53	1
Cobalt	12		0.29	0.076	mg/Kg	☼	12/01/22 14:54	12/05/22 15:53	1
Copper	22		0.58	0.16	mg/Kg	☼	12/01/22 14:54	12/05/22 15:53	1
Iron	18000		12	6.0	mg/Kg	☼	12/01/22 14:54	12/05/22 15:53	1
Lead	41		0.29	0.13	mg/Kg	☼	12/01/22 14:54	12/05/22 15:53	1
Magnesium	10000		5.8	2.9	mg/Kg	☼	12/01/22 14:54	12/05/22 15:53	1
Manganese	280		0.58	0.084	mg/Kg	☼	12/01/22 14:54	12/05/22 15:53	1
Nickel	28		0.58	0.17	mg/Kg	☼	12/01/22 14:54	12/05/22 15:53	1
Potassium	1800		29	10	mg/Kg	☼	12/01/22 14:54	12/05/22 15:53	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	12/01/22 14:54	12/05/22 15:53	1
Silver	0.41	B	0.29	0.074	mg/Kg	☼	12/01/22 14:54	12/05/22 15:53	1
Sodium	1000		58	8.5	mg/Kg	☼	12/01/22 14:54	12/05/22 15:53	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	12/01/22 14:54	12/05/22 15:53	1
Vanadium	24		0.29	0.068	mg/Kg	☼	12/01/22 14:54	12/05/22 15:53	1
Zinc	77		1.2	0.51	mg/Kg	☼	12/01/22 14:54	12/05/22 15:53	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.71		0.50	0.050	mg/L		12/01/22 16:59	12/02/22 19:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/01/22 16:59	12/02/22 19:11	1
Boron	0.83	J B *+	1.6	0.050	mg/L		12/01/22 16:59	12/02/22 19:11	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		12/01/22 16:59	12/02/22 19:11	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Client Sample ID: 1401V3-24-B13 (0-6)

Lab Sample ID: 500-225544-4

Date Collected: 11/16/22 10:50

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 83.6

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		12/01/22 16:59	12/02/22 19:11	1
Cobalt	0.025		0.025	0.010	mg/L		12/01/22 16:59	12/02/22 19:11	1
Iron	0.38	J	0.40	0.20	mg/L		12/01/22 16:59	12/02/22 19:11	1
Lead	0.022		0.0075	0.0075	mg/L		12/01/22 16:59	12/02/22 19:11	1
Manganese	11		0.025	0.010	mg/L		12/01/22 16:59	12/02/22 19:11	1
Nickel	0.018	J	0.025	0.010	mg/L		12/01/22 16:59	12/02/22 19:11	1
Selenium	<0.050		0.050	0.020	mg/L		12/01/22 16:59	12/02/22 19:11	1
Silver	<0.025		0.025	0.010	mg/L		12/01/22 16:59	12/02/22 19:11	1
Zinc	0.052	J	0.50	0.020	mg/L		12/01/22 16:59	12/02/22 19:11	1

Method: SW846 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.19		0.0075	0.0075	mg/L		12/01/22 17:10	12/05/22 20:00	1
Manganese	1.7		0.025	0.010	mg/L		12/01/22 17:10	12/05/22 20:00	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/01/22 16:59	12/02/22 18:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/01/22 16:59	12/02/22 18:10	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 10:45	12/05/22 11:42	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.019	0.0064	mg/Kg	☆	12/02/22 15:35	12/05/22 07:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.6		0.2	0.2	SU			11/21/22 16:57	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

GC/MS VOA

Pre Prep Batch: 372825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225544-1	1401V3-24-B10 (0-5)	Total/NA	Solid	Frozen Preserve	
500-225544-2	1401V3-24-B11 (0-6)	Total/NA	Solid	Frozen Preserve	
500-225544-3	1401V3-24-B12 (0-6)	Total/NA	Solid	Frozen Preserve	
500-225544-4	1401V3-24-B13 (0-6)	Total/NA	Solid	Frozen Preserve	

Prep Batch: 372826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225544-1	1401V3-24-B10 (0-5)	Total/NA	Solid	5035	372825
MB 310-372826/1-A	Method Blank	Total/NA	Solid	5035	
LCS 310-372826/2-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 372827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225544-1	1401V3-24-B10 (0-5)	Total/NA	Solid	8260D	372826
MB 310-372826/1-A	Method Blank	Total/NA	Solid	8260D	372826
LCS 310-372826/2-A	Lab Control Sample	Total/NA	Solid	8260D	372826

Prep Batch: 372906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225544-2	1401V3-24-B11 (0-6)	Total/NA	Solid	5035	372825
500-225544-3	1401V3-24-B12 (0-6)	Total/NA	Solid	5035	372825
500-225544-4	1401V3-24-B13 (0-6)	Total/NA	Solid	5035	372825
MB 310-372906/1-A	Method Blank	Total/NA	Solid	5035	
LCS 310-372906/2-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 372908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225544-2	1401V3-24-B11 (0-6)	Total/NA	Solid	8260D	372906
500-225544-3	1401V3-24-B12 (0-6)	Total/NA	Solid	8260D	372906
500-225544-4	1401V3-24-B13 (0-6)	Total/NA	Solid	8260D	372906
MB 310-372906/1-A	Method Blank	Total/NA	Solid	8260D	372906
LCS 310-372906/2-A	Lab Control Sample	Total/NA	Solid	8260D	372906

GC/MS Semi VOA

Prep Batch: 687027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225544-1	1401V3-24-B10 (0-5)	Total/NA	Solid	3541	
500-225544-2	1401V3-24-B11 (0-6)	Total/NA	Solid	3541	
500-225544-3	1401V3-24-B12 (0-6)	Total/NA	Solid	3541	
500-225544-4	1401V3-24-B13 (0-6)	Total/NA	Solid	3541	
MB 500-687027/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-687027/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 687897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225544-1	1401V3-24-B10 (0-5)	Total/NA	Solid	8270D	687027
500-225544-2	1401V3-24-B11 (0-6)	Total/NA	Solid	8270D	687027

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

GC/MS Semi VOA (Continued)

Analysis Batch: 687897 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225544-3	1401V3-24-B12 (0-6)	Total/NA	Solid	8270D	687027
500-225544-4	1401V3-24-B13 (0-6)	Total/NA	Solid	8270D	687027

Analysis Batch: 687960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-687027/1-A	Method Blank	Total/NA	Solid	8270D	687027
LCS 500-687027/2-A	Lab Control Sample	Total/NA	Solid	8270D	687027

Metals

Leach Batch: 687557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225544-1	1401V3-24-B10 (0-5)	TCLP	Solid	1311	
500-225544-2	1401V3-24-B11 (0-6)	TCLP	Solid	1311	
500-225544-3	1401V3-24-B12 (0-6)	TCLP	Solid	1311	
500-225544-4	1401V3-24-B13 (0-6)	TCLP	Solid	1311	
LB 500-687557/1-B	Method Blank	TCLP	Solid	1311	
LB 500-687557/2-B	Method Blank	TCLP	Solid	1311	
500-225544-1 MS	1401V3-24-B10 (0-5)	TCLP	Solid	1311	
500-225544-1 DU	1401V3-24-B10 (0-5)	TCLP	Solid	1311	

Leach Batch: 687563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225544-1	1401V3-24-B10 (0-5)	SPLP East	Solid	1312	
500-225544-2	1401V3-24-B11 (0-6)	SPLP East	Solid	1312	
500-225544-3	1401V3-24-B12 (0-6)	SPLP East	Solid	1312	
500-225544-4	1401V3-24-B13 (0-6)	SPLP East	Solid	1312	
LB 500-687563/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 687788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225544-1	1401V3-24-B10 (0-5)	Total/NA	Solid	3050B	
500-225544-2	1401V3-24-B11 (0-6)	Total/NA	Solid	3050B	
500-225544-3	1401V3-24-B12 (0-6)	Total/NA	Solid	3050B	
500-225544-4	1401V3-24-B13 (0-6)	Total/NA	Solid	3050B	
MB 500-687788/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-687788/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 687803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225544-1	1401V3-24-B10 (0-5)	TCLP	Solid	3010A	687557
500-225544-2	1401V3-24-B11 (0-6)	TCLP	Solid	3010A	687557
500-225544-3	1401V3-24-B12 (0-6)	TCLP	Solid	3010A	687557
500-225544-4	1401V3-24-B13 (0-6)	TCLP	Solid	3010A	687557
LB 500-687557/1-B	Method Blank	TCLP	Solid	3010A	687557
LCS 500-687803/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 687807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225544-1	1401V3-24-B10 (0-5)	SPLP East	Solid	3010A	687563
500-225544-2	1401V3-24-B11 (0-6)	SPLP East	Solid	3010A	687563

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Metals (Continued)

Prep Batch: 687807 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225544-3	1401V3-24-B12 (0-6)	SPLP East	Solid	3010A	687563
500-225544-4	1401V3-24-B13 (0-6)	SPLP East	Solid	3010A	687563
LB 500-687563/1-B	Method Blank	SPLP East	Solid	3010A	687563
LCS 500-687807/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 687930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225544-1	1401V3-24-B10 (0-5)	TCLP	Solid	7470A	687557
500-225544-2	1401V3-24-B11 (0-6)	TCLP	Solid	7470A	687557
500-225544-3	1401V3-24-B12 (0-6)	TCLP	Solid	7470A	687557
500-225544-4	1401V3-24-B13 (0-6)	TCLP	Solid	7470A	687557
LB 500-687557/2-B	Method Blank	TCLP	Solid	7470A	687557
MB 500-687930/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-687930/14-A	Lab Control Sample	Total/NA	Solid	7470A	
500-225544-1 MS	1401V3-24-B10 (0-5)	TCLP	Solid	7470A	687557
500-225544-1 DU	1401V3-24-B10 (0-5)	TCLP	Solid	7470A	687557

Prep Batch: 687934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225544-1	1401V3-24-B10 (0-5)	Total/NA	Solid	7471B	
500-225544-2	1401V3-24-B11 (0-6)	Total/NA	Solid	7471B	
500-225544-3	1401V3-24-B12 (0-6)	Total/NA	Solid	7471B	
500-225544-4	1401V3-24-B13 (0-6)	Total/NA	Solid	7471B	
MB 500-687934/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-687934/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 688208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225544-1	1401V3-24-B10 (0-5)	TCLP	Solid	6010B	687803
500-225544-2	1401V3-24-B11 (0-6)	TCLP	Solid	6010B	687803
500-225544-3	1401V3-24-B12 (0-6)	TCLP	Solid	6010B	687803
500-225544-4	1401V3-24-B13 (0-6)	TCLP	Solid	6010B	687803
LB 500-687557/1-B	Method Blank	TCLP	Solid	6010B	687803
LCS 500-687803/2-A	Lab Control Sample	Total/NA	Solid	6010B	687803

Analysis Batch: 688226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225544-1	1401V3-24-B10 (0-5)	Total/NA	Solid	7471B	687934
500-225544-2	1401V3-24-B11 (0-6)	Total/NA	Solid	7471B	687934
500-225544-3	1401V3-24-B12 (0-6)	Total/NA	Solid	7471B	687934
500-225544-4	1401V3-24-B13 (0-6)	Total/NA	Solid	7471B	687934
MB 500-687934/12-A	Method Blank	Total/NA	Solid	7471B	687934
LCS 500-687934/13-A	Lab Control Sample	Total/NA	Solid	7471B	687934

Analysis Batch: 688235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225544-1	1401V3-24-B10 (0-5)	TCLP	Solid	6020A	687803
500-225544-2	1401V3-24-B11 (0-6)	TCLP	Solid	6020A	687803
500-225544-3	1401V3-24-B12 (0-6)	TCLP	Solid	6020A	687803
500-225544-4	1401V3-24-B13 (0-6)	TCLP	Solid	6020A	687803
LB 500-687557/1-B	Method Blank	TCLP	Solid	6020A	687803

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Metals (Continued)

Analysis Batch: 688235 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-687803/2-A	Lab Control Sample	Total/NA	Solid	6020A	687803

Analysis Batch: 688267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225544-1	1401V3-24-B10 (0-5)	TCLP	Solid	7470A	687930
500-225544-2	1401V3-24-B11 (0-6)	TCLP	Solid	7470A	687930
500-225544-3	1401V3-24-B12 (0-6)	TCLP	Solid	7470A	687930
500-225544-4	1401V3-24-B13 (0-6)	TCLP	Solid	7470A	687930
LB 500-687557/2-B	Method Blank	TCLP	Solid	7470A	687930
MB 500-687930/12-A	Method Blank	Total/NA	Solid	7470A	687930
LCS 500-687930/14-A	Lab Control Sample	Total/NA	Solid	7470A	687930
500-225544-1 MS	1401V3-24-B10 (0-5)	TCLP	Solid	7470A	687930
500-225544-1 DU	1401V3-24-B10 (0-5)	TCLP	Solid	7470A	687930

Analysis Batch: 688392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225544-1	1401V3-24-B10 (0-5)	Total/NA	Solid	6010B	687788
500-225544-2	1401V3-24-B11 (0-6)	Total/NA	Solid	6010B	687788
500-225544-3	1401V3-24-B12 (0-6)	Total/NA	Solid	6010B	687788
500-225544-4	1401V3-24-B13 (0-6)	Total/NA	Solid	6010B	687788
MB 500-687788/1-A	Method Blank	Total/NA	Solid	6010B	687788
LCS 500-687788/2-A	Lab Control Sample	Total/NA	Solid	6010B	687788

Analysis Batch: 688394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225544-1	1401V3-24-B10 (0-5)	SPLP East	Solid	6010B	687807
500-225544-2	1401V3-24-B11 (0-6)	SPLP East	Solid	6010B	687807
500-225544-3	1401V3-24-B12 (0-6)	SPLP East	Solid	6010B	687807
500-225544-4	1401V3-24-B13 (0-6)	SPLP East	Solid	6010B	687807
LB 500-687563/1-B	Method Blank	SPLP East	Solid	6010B	687807
LCS 500-687807/2-A	Lab Control Sample	Total/NA	Solid	6010B	687807

Analysis Batch: 688497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225544-2	1401V3-24-B11 (0-6)	Total/NA	Solid	6010B	687788

General Chemistry

Analysis Batch: 686396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225544-1	1401V3-24-B10 (0-5)	Total/NA	Solid	9045D	
500-225544-2	1401V3-24-B11 (0-6)	Total/NA	Solid	9045D	
500-225544-3	1401V3-24-B12 (0-6)	Total/NA	Solid	9045D	
500-225544-4	1401V3-24-B13 (0-6)	Total/NA	Solid	9045D	
LCS 500-686396/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-686396/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 687302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225544-1	1401V3-24-B10 (0-5)	Total/NA	Solid	Moisture	
500-225544-2	1401V3-24-B11 (0-6)	Total/NA	Solid	Moisture	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

General Chemistry

Analysis Batch: 687310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225544-3	1401V3-24-B12 (0-6)	Total/NA	Solid	Moisture	
500-225544-4	1401V3-24-B13 (0-6)	Total/NA	Solid	Moisture	
500-225544-3 DU	1401V3-24-B12 (0-6)	Total/NA	Solid	Moisture	

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Surrogate Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (77-120)	DBFM (80-123)	TOL (76-120)
500-225544-1	1401V3-24-B10 (0-5)	91	110	90
500-225544-2	1401V3-24-B11 (0-6)	91	112	91
500-225544-3	1401V3-24-B12 (0-6)	90	108	91
500-225544-4	1401V3-24-B13 (0-6)	93	110	92
LCS 310-372826/2-A	Lab Control Sample	102	99	100
LCS 310-372906/2-A	Lab Control Sample	102	96	99
MB 310-372826/1-A	Method Blank	92	107	94
MB 310-372906/1-A	Method Blank	94	108	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-225544-1	1401V3-24-B10 (0-5)	83	86	58	70	118	66
500-225544-2	1401V3-24-B11 (0-6)	87	93	59	76	124	83
500-225544-3	1401V3-24-B12 (0-6)	58	55	40	51	102	71
500-225544-4	1401V3-24-B13 (0-6)	72	76	50	62	104	75
LCS 500-687027/2-A	Lab Control Sample	97	129	94	115	124	99
MB 500-687027/1-A	Method Blank	92	126	94	107	122	74

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-372826/1-A
Matrix: Solid
Analysis Batch: 372827

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372826

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.11		0.11	0.020	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Benzene	<0.011		0.011	0.0019	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Bromodichloromethane	<0.011		0.011	0.00083	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Bromoform	<0.021		0.021	0.0014	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Bromomethane	<0.043		0.043	0.0034	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
2-Butanone (MEK)	<0.043		0.043	0.0032	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Carbon disulfide	<0.011		0.011	0.0026	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Carbon tetrachloride	<0.011		0.011	0.0030	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Chlorobenzene	<0.011		0.011	0.0016	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Chloroethane	<0.043		0.043	0.0077	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Chloroform	<0.011		0.011	0.0036	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Chloromethane	<0.043		0.043	0.0070	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
cis-1,2-Dichloroethene	<0.011		0.011	0.0016	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
cis-1,3-Dichloropropene	<0.011		0.011	0.0012	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Dibromochloromethane	<0.011		0.011	0.00047	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,1-Dichloroethane	<0.011		0.011	0.00092	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,2-Dichloroethane	<0.011		0.011	0.00066	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,1-Dichloroethene	<0.011		0.011	0.0015	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,2-Dichloropropane	<0.011		0.011	0.00092	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,3-Dichloropropane, Total	<0.021		0.021	0.0023	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Ethylbenzene	<0.011		0.011	0.0051	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
2-Hexanone	<0.043		0.043	0.0049	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Methylene Chloride	<0.11		0.11	0.062	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
4-Methyl-2-pentanone (MIBK)	<0.043		0.043	0.0036	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Methyl tert-butyl ether	<0.011		0.011	0.00047	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Styrene	<0.011		0.011	0.0075	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,1,2,2-Tetrachloroethane	<0.011		0.011	0.00075	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Tetrachloroethene	<0.011		0.011	0.0020	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Toluene	<0.011		0.011	0.0070	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
trans-1,2-Dichloroethene	<0.011		0.011	0.0013	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
trans-1,3-Dichloropropene	<0.011		0.011	0.0012	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,1,1-Trichloroethane	<0.011		0.011	0.00098	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
1,1,2-Trichloroethane	<0.011		0.011	0.00068	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Trichloroethene	<0.011		0.011	0.0030	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Vinyl acetate	<0.021		0.021	0.0036	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Vinyl chloride	<0.021		0.021	0.0075	mg/Kg		11/22/22 11:52	11/22/22 19:06	1
Xylenes, Total	<0.021		0.021	0.0077	mg/Kg		11/22/22 11:52	11/22/22 19:06	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	92		77 - 120	11/22/22 11:52	11/22/22 19:06	1
Dibromofluoromethane (Surr)	107		80 - 123	11/22/22 11:52	11/22/22 19:06	1
Toluene-d8 (Surr)	94		76 - 120	11/22/22 11:52	11/22/22 19:06	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-372826/2-A
Matrix: Solid
Analysis Batch: 372827

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372826

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.172	0.139		mg/Kg		81	52 - 150
Benzene	0.0860	0.0822		mg/Kg		96	77 - 134
Bromodichloromethane	0.0860	0.0783		mg/Kg		91	78 - 122
Bromoform	0.0860	0.0820		mg/Kg		95	72 - 122
2-Butanone (MEK)	0.172	0.175		mg/Kg		102	60 - 150
Carbon disulfide	0.0860	0.0785		mg/Kg		91	61 - 142
Carbon tetrachloride	0.0860	0.0749		mg/Kg		87	77 - 127
Chlorobenzene	0.0860	0.0766		mg/Kg		89	76 - 120
Chloroform	0.0860	0.0733		mg/Kg		85	78 - 127
cis-1,2-Dichloroethene	0.0860	0.0821		mg/Kg		95	74 - 136
cis-1,3-Dichloropropene	0.0860	0.0815		mg/Kg		95	79 - 126
Dibromochloromethane	0.0860	0.0820		mg/Kg		95	78 - 122
1,1-Dichloroethane	0.0860	0.0831		mg/Kg		97	74 - 137
1,2-Dichloroethane	0.0860	0.0800		mg/Kg		93	79 - 132
1,1-Dichloroethene	0.0860	0.0731		mg/Kg		85	62 - 130
1,2-Dichloropropane	0.0860	0.0857		mg/Kg		100	78 - 135
Ethylbenzene	0.0860	0.0800		mg/Kg		93	78 - 122
2-Hexanone	0.172	0.177		mg/Kg		103	73 - 134
Methylene Chloride	0.0860	0.0786	J	mg/Kg		91	55 - 150
4-Methyl-2-pentanone (MIBK)	0.172	0.181		mg/Kg		105	75 - 135
Methyl tert-butyl ether	0.0860	0.0827		mg/Kg		96	73 - 135
Styrene	0.0860	0.0822		mg/Kg		96	75 - 120
1,1,2,2-Tetrachloroethane	0.0860	0.0854		mg/Kg		99	80 - 127
Tetrachloroethene	0.0860	0.0703		mg/Kg		82	72 - 121
Toluene	0.0860	0.0766		mg/Kg		89	77 - 121
trans-1,2-Dichloroethene	0.0860	0.0800		mg/Kg		93	71 - 134
trans-1,3-Dichloropropene	0.0860	0.0765		mg/Kg		89	77 - 122
1,1,1-Trichloroethane	0.0860	0.0778		mg/Kg		90	79 - 132
1,1,2-Trichloroethane	0.0860	0.0852		mg/Kg		99	80 - 124
Trichloroethene	0.0860	0.0801		mg/Kg		93	76 - 132
Vinyl acetate	0.172	0.153		mg/Kg		89	37 - 150
Xylenes, Total	0.172	0.160		mg/Kg		93	76 - 124

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		77 - 120
Dibromofluoromethane (Surr)	99		80 - 123
Toluene-d8 (Surr)	100		76 - 120

Lab Sample ID: MB 310-372906/1-A
Matrix: Solid
Analysis Batch: 372908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372906

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.089		0.089	0.016	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Benzene	<0.0089		0.0089	0.0016	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Bromodichloromethane	<0.0089		0.0089	0.00070	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Bromoform	<0.018		0.018	0.0011	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Bromomethane	<0.036		0.036	0.0029	mg/Kg		11/23/22 08:03	11/23/22 17:59	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-372906/1-A
Matrix: Solid
Analysis Batch: 372908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372906

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Butanone (MEK)	<0.036		0.036	0.0027	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Carbon disulfide	<0.0089		0.0089	0.0021	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Carbon tetrachloride	<0.0089		0.0089	0.0025	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Chlorobenzene	<0.0089		0.0089	0.0014	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Chloroethane	<0.036		0.036	0.0064	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Chloroform	<0.0089		0.0089	0.0030	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Chloromethane	<0.036		0.036	0.0059	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
cis-1,2-Dichloroethene	<0.0089		0.0089	0.0013	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
cis-1,3-Dichloropropene	<0.0089		0.0089	0.0010	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Dibromochloromethane	<0.0089		0.0089	0.00039	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
1,1-Dichloroethane	<0.0089		0.0089	0.00077	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
1,2-Dichloroethane	<0.0089		0.0089	0.00055	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
1,1-Dichloroethene	<0.0089		0.0089	0.0013	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
1,2-Dichloropropane	<0.0089		0.0089	0.00077	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
1,3-Dichloropropene, Total	<0.018		0.018	0.0020	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Ethylbenzene	<0.0089		0.0089	0.0043	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
2-Hexanone	<0.036		0.036	0.0041	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Methylene Chloride	<0.089		0.089	0.052	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
4-Methyl-2-pentanone (MIBK)	<0.036		0.036	0.0030	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Methyl tert-butyl ether	<0.0089		0.0089	0.00039	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Styrene	<0.0089		0.0089	0.0063	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
1,1,2,2-Tetrachloroethane	<0.0089		0.0089	0.00063	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Tetrachloroethene	<0.0089		0.0089	0.0017	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Toluene	<0.0089		0.0089	0.0059	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
trans-1,2-Dichloroethene	<0.0089		0.0089	0.0011	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
trans-1,3-Dichloropropene	<0.0089		0.0089	0.00098	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
1,1,1-Trichloroethane	<0.0089		0.0089	0.00082	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
1,1,2-Trichloroethane	<0.0089		0.0089	0.00057	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Trichloroethene	<0.0089		0.0089	0.0025	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Vinyl acetate	<0.018		0.018	0.0030	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Vinyl chloride	<0.018		0.018	0.0063	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Xylenes, Total	<0.018		0.018	0.0064	mg/Kg		11/23/22 08:03	11/23/22 17:59	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	94		77 - 120	11/23/22 08:03	11/23/22 17:59	1
Dibromofluoromethane (Surr)	108		80 - 123	11/23/22 08:03	11/23/22 17:59	1
Toluene-d8 (Surr)	94		76 - 120	11/23/22 08:03	11/23/22 17:59	1

Lab Sample ID: LCS 310-372906/2-A
Matrix: Solid
Analysis Batch: 372908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372906

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0708	0.0610		mg/Kg		86	77 - 134
Bromodichloromethane	0.0708	0.0588		mg/Kg		83	78 - 122
Bromoform	0.0708	0.0626		mg/Kg		88	72 - 122
2-Butanone (MEK)	0.142	0.140		mg/Kg		99	60 - 150

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-372906/2-A
Matrix: Solid
Analysis Batch: 372908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372906

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon disulfide	0.0708	0.0576		mg/Kg		81	61 - 142
Carbon tetrachloride	0.0708	0.0552		mg/Kg		78	77 - 127
Chlorobenzene	0.0708	0.0565		mg/Kg		80	76 - 120
Chloroform	0.0708	0.0543	*	mg/Kg		77	78 - 127
cis-1,2-Dichloroethene	0.0708	0.0608		mg/Kg		86	74 - 136
cis-1,3-Dichloropropene	0.0708	0.0613		mg/Kg		87	79 - 126
Dibromochloromethane	0.0708	0.0617		mg/Kg		87	78 - 122
1,1-Dichloroethane	0.0708	0.0612		mg/Kg		87	74 - 137
1,2-Dichloroethane	0.0708	0.0588		mg/Kg		83	79 - 132
1,1-Dichloroethene	0.0708	0.0540		mg/Kg		76	62 - 130
1,2-Dichloropropane	0.0708	0.0647		mg/Kg		91	78 - 135
Ethylbenzene	0.0708	0.0589		mg/Kg		83	78 - 122
2-Hexanone	0.142	0.135		mg/Kg		96	73 - 134
Methylene Chloride	0.0708	0.0644	J	mg/Kg		91	55 - 150
4-Methyl-2-pentanone (MIBK)	0.142	0.137		mg/Kg		97	75 - 135
Methyl tert-butyl ether	0.0708	0.0617		mg/Kg		87	73 - 135
Styrene	0.0708	0.0605		mg/Kg		86	75 - 120
1,1,2,2-Tetrachloroethane	0.0708	0.0618		mg/Kg		87	80 - 127
Tetrachloroethene	0.0708	0.0529		mg/Kg		75	72 - 121
Toluene	0.0708	0.0573		mg/Kg		81	77 - 121
trans-1,2-Dichloroethene	0.0708	0.0593		mg/Kg		84	71 - 134
trans-1,3-Dichloropropene	0.0708	0.0575		mg/Kg		81	77 - 122
1,1,1-Trichloroethane	0.0708	0.0573		mg/Kg		81	79 - 132
1,1,2-Trichloroethane	0.0708	0.0639		mg/Kg		90	80 - 124
Trichloroethene	0.0708	0.0604		mg/Kg		85	76 - 132
Vinyl acetate	0.142	0.0851		mg/Kg		60	37 - 150
Xylenes, Total	0.142	0.119		mg/Kg		84	76 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		77 - 120
Dibromofluoromethane (Surr)	96		80 - 123
Toluene-d8 (Surr)	99		76 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-687027/1-A
Matrix: Solid
Analysis Batch: 687960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		11/28/22 08:54	12/02/22 15:58	1

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-687027/1-A
Matrix: Solid
Analysis Batch: 687960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687027

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Carbazole	<0.17		0.17	0.083	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Isophorone	<0.17		0.17	0.037	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		11/28/22 08:54	12/02/22 15:58	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-687027/1-A
Matrix: Solid
Analysis Batch: 687960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Phenol	<0.17		0.17	0.074	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		11/28/22 08:54	12/02/22 15:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	92		43 - 145	11/28/22 08:54	12/02/22 15:58	1
2-Fluorophenol (Surr)	126		31 - 166	11/28/22 08:54	12/02/22 15:58	1
Nitrobenzene-d5 (Surr)	94		37 - 147	11/28/22 08:54	12/02/22 15:58	1
Phenol-d5 (Surr)	107		30 - 153	11/28/22 08:54	12/02/22 15:58	1
Terphenyl-d14 (Surr)	122		42 - 157	11/28/22 08:54	12/02/22 15:58	1
2,4,6-Tribromophenol (Surr)	74		31 - 143	11/28/22 08:54	12/02/22 15:58	1

Lab Sample ID: LCS 500-687027/2-A
Matrix: Solid
Analysis Batch: 687960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687027

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.42		mg/Kg		107	65 - 124
Acenaphthylene	1.33	1.45		mg/Kg		109	68 - 120
Anthracene	1.33	1.33		mg/Kg		100	70 - 114
Benzo[a]anthracene	1.33	1.51		mg/Kg		113	67 - 122
Benzo[a]pyrene	1.33	1.39		mg/Kg		104	65 - 133
Benzo[b]fluoranthene	1.33	1.30		mg/Kg		98	69 - 129
Benzo[g,h,i]perylene	1.33	1.61		mg/Kg		120	72 - 131
Benzo[k]fluoranthene	1.33	1.28		mg/Kg		96	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.35		mg/Kg		101	60 - 112
Bis(2-chloroethyl)ether	1.33	1.30		mg/Kg		98	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.62		mg/Kg		122	72 - 131
4-Bromophenyl phenyl ether	1.33	1.35		mg/Kg		101	68 - 118
Butyl benzyl phthalate	1.33	1.60		mg/Kg		120	71 - 129
Carbazole	1.33	1.47		mg/Kg		110	65 - 142
4-Chloroaniline	1.33	0.731		mg/Kg		55	30 - 150
4-Chloro-3-methylphenol	1.33	1.48		mg/Kg		111	65 - 122
2-Chloronaphthalene	1.33	1.41		mg/Kg		106	69 - 114
2-Chlorophenol	1.33	1.41		mg/Kg		106	64 - 110
4-Chlorophenyl phenyl ether	1.33	1.38		mg/Kg		103	62 - 119
Chrysene	1.33	1.43		mg/Kg		108	63 - 120
Dibenz(a,h)anthracene	1.33	1.61		mg/Kg		121	64 - 131
Dibenzofuran	1.33	1.41		mg/Kg		106	66 - 115
1,2-Dichlorobenzene	1.33	1.26		mg/Kg		95	62 - 110
1,3-Dichlorobenzene	1.33	1.26		mg/Kg		94	65 - 124
1,4-Dichlorobenzene	1.33	1.28		mg/Kg		96	61 - 110
3,3'-Dichlorobenzidine	1.33	1.09		mg/Kg		82	35 - 128
2,4-Dichlorophenol	1.33	1.33		mg/Kg		99	58 - 120
Diethyl phthalate	1.33	1.36		mg/Kg		102	58 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-687027/2-A
Matrix: Solid
Analysis Batch: 687960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687027

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dimethylphenol	1.33	1.47		mg/Kg		110	60 - 110
Dimethyl phthalate	1.33	1.37		mg/Kg		103	69 - 116
Di-n-butyl phthalate	1.33	1.39		mg/Kg		104	65 - 120
4,6-Dinitro-2-methylphenol	2.67	0.795		mg/Kg		30	10 - 110
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		12	10 - 100
2,4-Dinitrotoluene	1.33	1.39		mg/Kg		104	69 - 124
2,6-Dinitrotoluene	1.33	1.54		mg/Kg		116	70 - 123
Di-n-octyl phthalate	1.33	1.26		mg/Kg		95	68 - 134
Fluoranthene	1.33	1.31		mg/Kg		98	62 - 120
Fluorene	1.33	1.39		mg/Kg		104	62 - 120
Hexachlorobenzene	1.33	1.38		mg/Kg		103	63 - 124
Hexachlorobutadiene	1.33	1.29		mg/Kg		97	56 - 120
Hexachlorocyclopentadiene	1.33	0.285	J	mg/Kg		21	10 - 133
Hexachloroethane	1.33	1.26		mg/Kg		95	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.70		mg/Kg		128	68 - 130
Isophorone	1.33	1.33		mg/Kg		99	55 - 110
2-Methylnaphthalene	1.33	1.30		mg/Kg		98	69 - 112
2-Methylphenol	1.33	1.56		mg/Kg		117	60 - 120
3 & 4 Methylphenol	1.33	1.45		mg/Kg		109	57 - 120
Naphthalene	1.33	1.29		mg/Kg		97	63 - 110
2-Nitroaniline	1.33	1.50		mg/Kg		113	57 - 124
3-Nitroaniline	1.33	1.10		mg/Kg		83	40 - 122
4-Nitroaniline	1.33	1.32		mg/Kg		99	60 - 160
Nitrobenzene	1.33	1.36		mg/Kg		102	60 - 116
2-Nitrophenol	1.33	1.44		mg/Kg		108	60 - 120
4-Nitrophenol	2.67	2.51		mg/Kg		94	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.39		mg/Kg		104	56 - 118
N-Nitrosodiphenylamine	1.33	1.40		mg/Kg		105	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.32		mg/Kg		99	40 - 124
Pentachlorophenol	2.67	0.805		mg/Kg		30	13 - 112
Phenanthrene	1.33	1.38		mg/Kg		104	62 - 120
Phenol	1.33	1.45		mg/Kg		109	56 - 122
Pyrene	1.33	1.65		mg/Kg		124	61 - 128
1,2,4-Trichlorobenzene	1.33	1.34		mg/Kg		101	66 - 117
2,4,5-Trichlorophenol	1.33	1.30		mg/Kg		97	50 - 120
2,4,6-Trichlorophenol	1.33	1.32		mg/Kg		99	57 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	97		43 - 145
2-Fluorophenol (Surr)	129		31 - 166
Nitrobenzene-d5 (Surr)	94		37 - 147
Phenol-d5 (Surr)	115		30 - 153
Terphenyl-d14 (Surr)	124		42 - 157
2,4,6-Tribromophenol (Surr)	99		31 - 143

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-687788/1-A
Matrix: Solid
Analysis Batch: 688392

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687788

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		12/01/22 14:54	12/05/22 12:48	1
Arsenic	<1.0		1.0	0.34	mg/Kg		12/01/22 14:54	12/05/22 12:48	1
Barium	<1.0		1.0	0.11	mg/Kg		12/01/22 14:54	12/05/22 12:48	1
Beryllium	<0.40		0.40	0.093	mg/Kg		12/01/22 14:54	12/05/22 12:48	1
Boron	<5.0		5.0	0.47	mg/Kg		12/01/22 14:54	12/05/22 12:48	1
Cadmium	<0.20		0.20	0.036	mg/Kg		12/01/22 14:54	12/05/22 12:48	1
Calcium	7.11	J	20	3.4	mg/Kg		12/01/22 14:54	12/05/22 12:48	1
Chromium	<1.0		1.0	0.50	mg/Kg		12/01/22 14:54	12/05/22 12:48	1
Cobalt	<0.50		0.50	0.13	mg/Kg		12/01/22 14:54	12/05/22 12:48	1
Copper	<1.0		1.0	0.28	mg/Kg		12/01/22 14:54	12/05/22 12:48	1
Iron	<20		20	10	mg/Kg		12/01/22 14:54	12/05/22 12:48	1
Lead	<0.50		0.50	0.23	mg/Kg		12/01/22 14:54	12/05/22 12:48	1
Magnesium	<10		10	5.0	mg/Kg		12/01/22 14:54	12/05/22 12:48	1
Manganese	<1.0		1.0	0.15	mg/Kg		12/01/22 14:54	12/05/22 12:48	1
Nickel	<1.0		1.0	0.29	mg/Kg		12/01/22 14:54	12/05/22 12:48	1
Potassium	<50		50	18	mg/Kg		12/01/22 14:54	12/05/22 12:48	1
Selenium	<1.0		1.0	0.59	mg/Kg		12/01/22 14:54	12/05/22 12:48	1
Silver	0.167	J	0.50	0.13	mg/Kg		12/01/22 14:54	12/05/22 12:48	1
Sodium	<100		100	15	mg/Kg		12/01/22 14:54	12/05/22 12:48	1
Thallium	<1.0		1.0	0.50	mg/Kg		12/01/22 14:54	12/05/22 12:48	1
Vanadium	<0.50		0.50	0.12	mg/Kg		12/01/22 14:54	12/05/22 12:48	1
Zinc	<2.0		2.0	0.88	mg/Kg		12/01/22 14:54	12/05/22 12:48	1

Lab Sample ID: LCS 500-687788/2-A
Matrix: Solid
Analysis Batch: 688392

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687788

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Antimony	50.0	44.7		mg/Kg		89	80 - 120
Arsenic	10.0	9.37		mg/Kg		94	80 - 120
Barium	200	199		mg/Kg		99	80 - 120
Beryllium	5.00	4.48		mg/Kg		90	80 - 120
Boron	100	86.5		mg/Kg		86	80 - 120
Cadmium	5.00	4.49		mg/Kg		90	80 - 120
Calcium	1000	1000		mg/Kg		100	80 - 120
Chromium	20.0	19.5		mg/Kg		98	80 - 120
Cobalt	50.0	49.4		mg/Kg		99	80 - 120
Copper	25.0	24.4		mg/Kg		98	80 - 120
Iron	100	104		mg/Kg		104	80 - 120
Lead	10.0	9.24		mg/Kg		92	80 - 120
Magnesium	1000	932		mg/Kg		93	80 - 120
Manganese	50.0	46.2		mg/Kg		92	80 - 120
Nickel	50.0	48.0		mg/Kg		96	80 - 120
Potassium	1000	973		mg/Kg		97	80 - 120
Selenium	10.0	8.36		mg/Kg		84	80 - 120
Silver	5.00	4.16		mg/Kg		83	80 - 120
Sodium	1000	983		mg/Kg		98	80 - 120
Thallium	10.0	9.17		mg/Kg		92	80 - 120
Vanadium	50.0	48.6		mg/Kg		97	80 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-687788/2-A
Matrix: Solid
Analysis Batch: 688392

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687788

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	50.0	47.5		mg/Kg		95	80 - 120

Lab Sample ID: LCS 500-687803/2-A
Matrix: Solid
Analysis Batch: 688208

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687803

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.509		mg/L		102	80 - 120
Beryllium	0.0500	0.0478		mg/L		96	80 - 120
Boron	1.00	1.69	*+	mg/L		169	80 - 120
Cadmium	0.0500	0.0526		mg/L		105	80 - 120
Chromium	0.200	0.194		mg/L		97	80 - 120
Cobalt	0.500	0.514		mg/L		103	80 - 120
Iron	1.00	0.901		mg/L		90	80 - 120
Lead	0.100	0.0941		mg/L		94	80 - 120
Manganese	0.500	0.480		mg/L		96	80 - 120
Nickel	0.500	0.502		mg/L		100	80 - 120
Selenium	0.100	0.117		mg/L		117	80 - 120
Silver	0.0500	0.0525		mg/L		105	80 - 120
Zinc	0.500	0.545		mg/L		109	80 - 120

Lab Sample ID: LCS 500-687807/2-A
Matrix: Solid
Analysis Batch: 688394

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687807

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.100	0.0951		mg/L		95	80 - 120
Manganese	0.500	0.483		mg/L		97	80 - 120

Lab Sample ID: LB 500-687557/1-B
Matrix: Solid
Analysis Batch: 688208

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 687803

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		12/01/22 16:59	12/02/22 18:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/01/22 16:59	12/02/22 18:12	1
Boron	0.791	J	1.6	0.050	mg/L		12/01/22 16:59	12/02/22 18:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/01/22 16:59	12/02/22 18:12	1
Chromium	<0.025		0.025	0.010	mg/L		12/01/22 16:59	12/02/22 18:12	1
Cobalt	<0.025		0.025	0.010	mg/L		12/01/22 16:59	12/02/22 18:12	1
Iron	<0.40		0.40	0.20	mg/L		12/01/22 16:59	12/02/22 18:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/01/22 16:59	12/02/22 18:12	1
Manganese	<0.025		0.025	0.010	mg/L		12/01/22 16:59	12/02/22 18:12	1
Nickel	<0.025		0.025	0.010	mg/L		12/01/22 16:59	12/02/22 18:12	1
Selenium	<0.050		0.050	0.020	mg/L		12/01/22 16:59	12/02/22 18:12	1
Silver	<0.025		0.025	0.010	mg/L		12/01/22 16:59	12/02/22 18:12	1
Zinc	<0.50		0.50	0.020	mg/L		12/01/22 16:59	12/02/22 18:12	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-687563/1-B
Matrix: Solid
Analysis Batch: 688394

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 687807

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		12/01/22 17:10	12/05/22 19:12	1
Manganese	<0.025		0.025	0.010	mg/L		12/01/22 17:10	12/05/22 19:12	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-687803/2-A
Matrix: Solid
Analysis Batch: 688235

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687803

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.477		mg/L		95	80 - 120
Thallium	0.100	0.108		mg/L		108	80 - 120

Lab Sample ID: LB 500-687557/1-B
Matrix: Solid
Analysis Batch: 688235

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 687803

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/01/22 16:59	12/02/22 17:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/01/22 16:59	12/02/22 17:53	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-687930/12-A
Matrix: Solid
Analysis Batch: 688267

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687930

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 10:45	12/05/22 10:58	1

Lab Sample ID: LCS 500-687930/14-A
Matrix: Solid
Analysis Batch: 688267

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687930

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00190		mg/L		96	80 - 120

Lab Sample ID: LB 500-687557/2-B
Matrix: Solid
Analysis Batch: 688267

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 687930

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 10:45	12/05/22 11:00	1

Lab Sample ID: 500-225544-1 MS
Matrix: Solid
Analysis Batch: 688267

Client Sample ID: 1401V3-24-B10 (0-5)
Prep Type: TCLP
Prep Batch: 687930

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.000966		mg/L		97	75 - 125

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: 500-225544-1 DU
Matrix: Solid
Analysis Batch: 688267

Client Sample ID: 1401V3-24-B10 (0-5)
Prep Type: TCLP
Prep Batch: 687930

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-687934/12-A
Matrix: Solid
Analysis Batch: 688226

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687934

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		12/02/22 15:35	12/05/22 07:34	1

Lab Sample ID: LCS 500-687934/13-A
Matrix: Solid
Analysis Batch: 688226

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687934

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.165	0.152		mg/Kg		92	80 - 120

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Client Sample ID: 1401V3-24-B10 (0-5)

Lab Sample ID: 500-225544-1

Date Collected: 11/16/22 09:50

Matrix: Solid

Date Received: 11/16/22 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			687563	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
SPLP East	Prep	3010A			687807	LMB	EET CHI	12/01/22 17:10 - 12/01/22 17:40 ¹
SPLP East	Analysis	6010B		1	688394	JJB	EET CHI	12/05/22 20:06
TCLP	Leach	1311			687557	EA	EET CHI	11/30/22 12:44 - 12/01/22 06:44 ¹
TCLP	Prep	3010A			687803	LMB	EET CHI	12/01/22 16:59 - 12/01/22 17:29 ¹
TCLP	Analysis	6010B		1	688208	JJB	EET CHI	12/02/22 18:54
TCLP	Leach	1311			687557	EA	EET CHI	11/30/22 12:44 - 12/01/22 06:44 ¹
TCLP	Prep	3010A			687803	LMB	EET CHI	12/01/22 16:59 - 12/01/22 17:29 ¹
TCLP	Analysis	6020A		1	688235	FXG	EET CHI	12/02/22 18:00
TCLP	Leach	1311			687557	EA	EET CHI	11/30/22 12:44 - 12/01/22 06:44 ¹
TCLP	Prep	7470A			687930	MJG	EET CHI	12/02/22 10:45 - 12/02/22 12:45 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 11:32
Total/NA	Analysis	9045D		1	686396	LWN	EET CHI	11/21/22 16:50
Total/NA	Analysis	Moisture		1	687302	LWN	EET CHI	11/29/22 11:28

Client Sample ID: 1401V3-24-B10 (0-5)

Lab Sample ID: 500-225544-1

Date Collected: 11/16/22 09:50

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372825	MZR8	EET CF	11/17/22 10:00
Total/NA	Prep	5035			372826	MZR8	EET CF	11/22/22 11:52
Total/NA	Analysis	8260D		1	372827	MZR8	EET CF	11/23/22 02:57
Total/NA	Prep	3541			687027	KN	EET CHI	11/28/22 08:54 - 11/28/22 15:30 ¹
Total/NA	Analysis	8270D		1	687897	SS	EET CHI	12/02/22 18:13
Total/NA	Prep	3050B			687788	LMB	EET CHI	12/01/22 14:54 - 12/01/22 15:24 ¹
Total/NA	Analysis	6010B		1	688392	JJB	EET CHI	12/05/22 15:43
Total/NA	Prep	7471B			687934	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 07:42

Client Sample ID: 1401V3-24-B11 (0-6)

Lab Sample ID: 500-225544-2

Date Collected: 11/16/22 10:15

Matrix: Solid

Date Received: 11/16/22 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			687563	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
SPLP East	Prep	3010A			687807	LMB	EET CHI	12/01/22 17:10 - 12/01/22 17:40 ¹
SPLP East	Analysis	6010B		1	688394	JJB	EET CHI	12/05/22 19:54
TCLP	Leach	1311			687557	EA	EET CHI	11/30/22 12:44 - 12/01/22 06:44 ¹
TCLP	Prep	3010A			687803	LMB	EET CHI	12/01/22 16:59 - 12/01/22 17:29 ¹
TCLP	Analysis	6010B		1	688208	JJB	EET CHI	12/02/22 18:58
TCLP	Leach	1311			687557	EA	EET CHI	11/30/22 12:44 - 12/01/22 06:44 ¹
TCLP	Prep	3010A			687803	LMB	EET CHI	12/01/22 16:59 - 12/01/22 17:29 ¹
TCLP	Analysis	6020A		1	688235	FXG	EET CHI	12/02/22 18:04

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Client Sample ID: 1401V3-24-B11 (0-6)

Lab Sample ID: 500-225544-2

Date Collected: 11/16/22 10:15

Matrix: Solid

Date Received: 11/16/22 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			687557	EA	EET CHI	11/30/22 12:44 - 12/01/22 06:44 ¹
TCLP	Prep	7470A			687930	MJG	EET CHI	12/02/22 10:45 - 12/02/22 12:45 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 11:38
Total/NA	Analysis	9045D		1	686396	LWN	EET CHI	11/21/22 16:52
Total/NA	Analysis	Moisture		1	687302	LWN	EET CHI	11/29/22 11:28

Client Sample ID: 1401V3-24-B11 (0-6)

Lab Sample ID: 500-225544-2

Date Collected: 11/16/22 10:15

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372825	MZR8	EET CF	11/17/22 10:00
Total/NA	Prep	5035			372906	MZR8	EET CF	11/23/22 08:03
Total/NA	Analysis	8260D		1	372908	MZR8	EET CF	11/24/22 00:13
Total/NA	Prep	3541			687027	KN	EET CHI	11/28/22 08:54 - 11/28/22 15:30 ¹
Total/NA	Analysis	8270D		1	687897	SS	EET CHI	12/02/22 18:37
Total/NA	Prep	3050B			687788	LMB	EET CHI	12/01/22 14:54 - 12/01/22 15:24 ¹
Total/NA	Analysis	6010B		1	688392	JJJ	EET CHI	12/05/22 15:46
Total/NA	Prep	3050B			687788	LMB	EET CHI	12/01/22 14:54 - 12/01/22 15:24 ¹
Total/NA	Analysis	6010B		5	688497	JJJ	EET CHI	12/06/22 11:47
Total/NA	Prep	7471B			687934	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 07:44

Client Sample ID: 1401V3-24-B12 (0-6)

Lab Sample ID: 500-225544-3

Date Collected: 11/16/22 10:30

Matrix: Solid

Date Received: 11/16/22 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			687563	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
SPLP East	Prep	3010A			687807	LMB	EET CHI	12/01/22 17:10 - 12/01/22 17:40 ¹
SPLP East	Analysis	6010B		1	688394	JJJ	EET CHI	12/05/22 19:57
TCLP	Leach	1311			687557	EA	EET CHI	11/30/22 12:44 - 12/01/22 06:44 ¹
TCLP	Prep	3010A			687803	LMB	EET CHI	12/01/22 16:59 - 12/01/22 17:29 ¹
TCLP	Analysis	6010B		1	688208	JJJ	EET CHI	12/02/22 19:07
TCLP	Leach	1311			687557	EA	EET CHI	11/30/22 12:44 - 12/01/22 06:44 ¹
TCLP	Prep	3010A			687803	LMB	EET CHI	12/01/22 16:59 - 12/01/22 17:29 ¹
TCLP	Analysis	6020A		1	688235	FXG	EET CHI	12/02/22 18:07
TCLP	Leach	1311			687557	EA	EET CHI	11/30/22 12:44 - 12/01/22 06:44 ¹
TCLP	Prep	7470A			687930	MJG	EET CHI	12/02/22 10:45 - 12/02/22 12:45 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 11:40
Total/NA	Analysis	9045D		1	686396	LWN	EET CHI	11/21/22 16:55
Total/NA	Analysis	Moisture		1	687310	LWN	EET CHI	11/29/22 11:57

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Client Sample ID: 1401V3-24-B12 (0-6)

Lab Sample ID: 500-225544-3

Date Collected: 11/16/22 10:30

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372825	MZR8	EET CF	11/17/22 10:00
Total/NA	Prep	5035			372906	MZR8	EET CF	11/23/22 08:03
Total/NA	Analysis	8260D		1	372908	MZR8	EET CF	11/24/22 00:38
Total/NA	Prep	3541			687027	KN	EET CHI	11/28/22 08:54 - 11/28/22 15:30 ¹
Total/NA	Analysis	8270D		1	687897	SS	EET CHI	12/02/22 19:01
Total/NA	Prep	3050B			687788	LMB	EET CHI	12/01/22 14:54 - 12/01/22 15:24 ¹
Total/NA	Analysis	6010B		1	688392	JJB	EET CHI	12/05/22 15:50
Total/NA	Prep	7471B			687934	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 07:46

Client Sample ID: 1401V3-24-B13 (0-6)

Lab Sample ID: 500-225544-4

Date Collected: 11/16/22 10:50

Matrix: Solid

Date Received: 11/16/22 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			687563	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
SPLP East	Prep	3010A			687807	LMB	EET CHI	12/01/22 17:10 - 12/01/22 17:40 ¹
SPLP East	Analysis	6010B		1	688394	JJB	EET CHI	12/05/22 20:00
TCLP	Leach	1311			687557	EA	EET CHI	11/30/22 12:44 - 12/01/22 06:44 ¹
TCLP	Prep	3010A			687803	LMB	EET CHI	12/01/22 16:59 - 12/01/22 17:29 ¹
TCLP	Analysis	6010B		1	688208	JJB	EET CHI	12/02/22 19:11
TCLP	Leach	1311			687557	EA	EET CHI	11/30/22 12:44 - 12/01/22 06:44 ¹
TCLP	Prep	3010A			687803	LMB	EET CHI	12/01/22 16:59 - 12/01/22 17:29 ¹
TCLP	Analysis	6020A		1	688235	FXG	EET CHI	12/02/22 18:10
TCLP	Leach	1311			687557	EA	EET CHI	11/30/22 12:44 - 12/01/22 06:44 ¹
TCLP	Prep	7470A			687930	MJG	EET CHI	12/02/22 10:45 - 12/02/22 12:45 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 11:42
Total/NA	Analysis	9045D		1	686396	LWN	EET CHI	11/21/22 16:57
Total/NA	Analysis	Moisture		1	687310	LWN	EET CHI	11/29/22 11:57

Client Sample ID: 1401V3-24-B13 (0-6)

Lab Sample ID: 500-225544-4

Date Collected: 11/16/22 10:50

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372825	MZR8	EET CF	11/17/22 10:00
Total/NA	Prep	5035			372906	MZR8	EET CF	11/23/22 08:03
Total/NA	Analysis	8260D		1	372908	MZR8	EET CF	11/24/22 01:03
Total/NA	Prep	3541			687027	KN	EET CHI	11/28/22 08:54 - 11/28/22 15:30 ¹
Total/NA	Analysis	8270D		1	687897	SS	EET CHI	12/02/22 19:26
Total/NA	Prep	3050B			687788	LMB	EET CHI	12/01/22 14:54 - 12/01/22 15:24 ¹
Total/NA	Analysis	6010B		1	688392	JJB	EET CHI	12/05/22 15:53
Total/NA	Prep	7471B			687934	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 07:48

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401
EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225544-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

Laboratory: Eurofins Cedar Falls

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Colorado	Petroleum Storage Tank Program	IA100001 (OR)	09-29-23
Georgia	State	IA100001 (OR)	09-29-23
Illinois	NELAP	200024	11-28-22
Iowa	State	007	12-01-23
Kansas	NELAP	E-10341	01-31-23
Minnesota	NELAP	019-999-319	12-31-22
Minnesota (Petrofund)	State	3349	01-18-24
North Dakota	State	R-186	09-29-23
Oregon	NELAP	IA100001	09-29-23

Chain of Custody Record

541349



Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-6210

Client Contact		Project Manager <i>D. Niebout</i>		Site Contact <i>A. Haggel</i>		Date <i>11/16/22</i>		COC No <i>1</i>	
Company Name <i>WSP</i>		Tel/Email		Lab Contact <i>R. Wright</i>		Carrier		1 of 5 COCs	
Address <i>30 N LaSalle</i>		Analysis Turnaround Time							
City/State/Zip <i>Chicago IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below:							
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							
Fax		Perform MS / MSD (Y/N) pH % Solids VOCs SVOCs Total Metals TCLP *							
Project Name <i>180T - Butterfield Rd - W013</i>									
Site <i>31403035013</i>									
PO #									
QR Code		500-225544 COC							

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	pH	% Solids	VOCs	SVOCs	Total Metals	TCLP *	Sample Specific Notes
<i>1401U3-24-B10 (0-5)</i>	<i>11/16/22</i>	<i>0950</i>	<i>C</i>	<i>S</i>	<i>2</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>		
<i>1401U3-24-B11 (0-6)</i>	<i>11/16/22</i>	<i>1015</i>	<i>C</i>	<i>S</i>	<i>2</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>		
<i>1401U3-24-B12 (0-6)</i>	<i>11/16/22</i>	<i>1030</i>	<i>C</i>	<i>S</i>	<i>2</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>		
<i>1401U3-24-B13 (0-6)</i>	<i>11/16/22</i>	<i>1050</i>	<i>C</i>	<i>S</i>	<i>2</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>		



Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

Non-Hazardous Flammable Skin Irritant Poison B Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return to Client Disposal by Lab Archive for _____ Months

Special Instructions/QC Requirements & Comments:

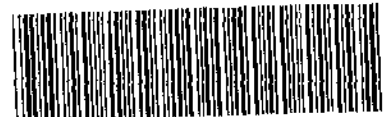
** SPL analysis based on TCLP results*

28 → 29, 24 → 21

Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No	Cooler Temp (°C) Obs'd	Cor'd	Therm ID No.
Retrieved by <i>Audrey Haggel</i>	Company <i>WSP</i>	Date/Time <i>11/16/22 1015</i>	Received by <i>[Signature]</i>	Company <i>WSP</i>
Retrieved by <i>[Signature]</i>	Company <i>WSP</i>	Date/Time <i>11/16/22</i>	Received by <i>[Signature]</i>	Company <i>EETA</i>
Retrieved by <i>[Signature]</i>	Company <i>EETA</i>	Date/Time <i>11/16/22 1902</i>	Received in Laboratory by <i>[Signature]</i>	Company <i>EETA</i>



Environment Testing
America



500-225544 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Chicago</u>			
City/State:	CITY <u>Univ Park</u>	STATE <u>IL</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>11-18-22</u>	TIME <u>1445</u>	Received By: <u>AL</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>1</u> of <u>2</u>	
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? <u>1</u>	
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>AL</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature - If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>1.9</u>		Corrected Temp (°C): <u>1.9</u>	
Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Chicago</u>			
City/State:	CITY <u>Univ Park</u>	STATE <u>IL</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>11-18-22</u>	TIME <u>1445</u>	Received By: <u>RL</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>2</u> of <u>2</u>	
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
<u>FW013</u>			
Temperature Record #1			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>RL</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>0.7</u>		Corrected Temp (°C): <u>0.7</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No			
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



Chain of Custody Record



See document "See PB"

Client Information (Sub Contract Lab)		Sampler	Lab Pk:	Carrier Tracking No(s):	COC No:
Shipping/Receiving		Phone:	Wright, Richard	State of Origin:	500-167702-1
Company		Address:	E-Mail:	Illinois	Page: Page 1 of 1
Eurofins Environment Testing North Cent		City:	Richard Wright@el.eurofins.com	Job #:	500-225544-1
3019 Venture Way,		State, Zip:	Ascertifications Required (See note):	Preservation Codes:	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Y - Trizma Z - other (specify)
Cedar Falls		PO #:	NELAP - Illinois	Analysis Requested	
IA, 50613		WO #:		Total Number of Containers	
Phone: 319-277-2401 (Tel) 319-277-2425 (Fax)		Project #:		Field Filtered Sample (Yes or No)	
Email:		50020822		Parent MS/MSD (Year or No)	
Project Name: IDOT - 196-002-WO 13 IL 56		SSOW#:		2880D/Frozen 48Hr (MOD) Copy Analyses	
Site:				Special Instructions/Note:	
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=bitumen, ASK)
1401V3-24-B10 (0-5) (500-225544-1)	11/16/22	09:50	Central	Solid	
1401V3-24-B11 (0-6) (500-225544-2)	11/16/22	10:15	Central	Solid	
1401V3-24-B12 (0-6) (500-225544-3)	11/16/22	10:30	Central	Solid	
1401V3-24-B13 (0-6) (500-225544-4)	11/16/22	10:50	Central	Solid	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed. The samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification

Unconfirmed Return To Client Disposal By Lab Archive For Months

Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank. 2

Special Instructions/QC Requirements.

Method of Shipment:

Empty Kit: Relinquished by _____ Date _____

Relinquished by _____ Date/Time: 11/18/22 0505 Company: MCV

Relinquished by _____ Date/Time: _____ Company: _____

Relinquished by _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No Custody Seal No _____

Cooler Temperature(s) °C and Other Remarks:



Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225544-1

Login Number: 225544

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.9,2.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225544-1

Login Number: 225544

List Number: 2

Creator: Kizer, Preston V

List Source: Eurofins Cedar Falls

List Creation: 11/18/22 06:18 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 365 & FAP 870 (Butterfield Road) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

21 W 500 Butterfield Road (ISGS #1401V3-25)

City: Lombard State: IL Zip Code: 60148

County: DuPage Township: Milton

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.8325 Longitude: -88.04554
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): _____ Approximate End Date (mm/dd/yyyy): _____

Estimated Volume of debris (cu. Yd.): 529

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov



This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Analytical Data Summary
PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

Key to Data Tables

- MAC = Maximum Allowable Concentration of Chemical Constituent in Uncontaminated Soil Used as Fill Material At Regulated Fill Operations
- mg/kg = Milligrams per kilogram.
- mg/L = Milligrams per liter.
- MSA = Metropolitan Statistical Area
- TACO = Tiered Approach to Corrective Action Objectives
- TCLP = Toxicity Characteristic Leaching Procedure.
- SCGIER = Soil Component of the Groundwater Ingestion Exposure Route
- SPLP = Synthetic Precipitation Leaching Procedure.
- ND = Not detected.
- NA = Not analyzed or not applicable.
- J = Estimated value.
- U = Analyte was analyzed for but not detected.
- PID = Photoionization detector.
- = No PID readings detected above background (within instrument margin of error).

Criteria Qualifiers and Shading

- # = pH is less than 6.25 or greater than 9.0 standard units.
- † = Concentration exceeds the most stringent MAC.
- m = Concentration exceeds the MAC for an MSA.
- * = Concentration exceeds the MAC for Chicago corporate limits.
- c = Concentration exceeds a TACO Tier 1 RO for the Construction Worker Exposure Route.
- r = Concentration exceeds a TACO Tier 1 soil RO for residential properties.
- L = The detected TCLP/SPLP concentration exceeds the TACO Tier 1 RO for the SCGIER.
-  = Concentration exceeds the most stringent MAC, but is below the MAC for an MSA.
-  = Concentration exceeds applicable comparison criteria.

PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

CONTAMINANTS OF CONCERN

SITE	ISGS #1401V3-25 (Peace Lutheran Church)		Comparison Criteria					
	1401V3-25-B01	1401V3-25-B03	MACs			TACO		
BORING								
SAMPLE	1401V3-25-B01 (0-6)	1401V3-25-B03 (0-6)						
MATRIX	Soil	Soil						
DEPTH (feet)	0-6	0-6						
pH	6.9	7.6						
PID (meter units)	--	--	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
VOCs (mg/kg)								
2-Butanone (MEK)	0.017 J	ND U	--	--	--	--	--	--
Acetone	0.057 J	ND U	25	--	--	70,000	100,000	--
SVOCs (mg/kg)								
Anthracene	0.018 J	ND U	12,000	--	2.6	23,000	610,000	--
Benzo(a)anthracene	0.0093 J	ND U	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	0.017 J	ND U	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	0.029 J	ND U	0.9	2.1	13	2.1	170	--
Benzo(k)fluoranthene	ND U	ND U	9	--	8.1	9	1,700	--
Chrysene	0.021 J	ND U	88	--	11	88	17,000	--
Fluoranthene	0.035 J	ND U	3,100	--	28	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.012 J	ND U	0.9	1.6	5.8	1.6	170	--
Naphthalene	ND U	ND U	1.8	--	0.26	170	1.8	--
Phenanthrene	0.023 J	ND U	--	--	15	--	--	--
Pyrene	0.023 J	ND U	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)								
Antimony	0.80 J	0.43 J	5	--	--	31	82	--
Arsenic	7.4	5.1	11.3	13	--	13	61	--
Barium	68	68	1,500	--	--	5,500	14,000	--
Beryllium	0.90	0.71	22	--	--	160	410	--
Boron	6.3	2.9 J	40	--	--	16,000	41,000	--
Cadmium	0.48	0.17	5.2	--	--	78	200	--
Calcium	26,000	2,700	--	--	--	--	--	--
Chromium	14	16	21	--	--	230	690	--
Cobalt	10	8.4	20	--	--	4,700	12,000	--
Copper	25	16	2,900	--	--	2,900	8,200	--
Iron	26,000 †m	14,000	15,000	15,900	--	--	--	--
Lead	27	14	107	--	--	400	700	--
Magnesium	15,000	3,000	325,000	--	--	--	730,000	--
Manganese	220	57	630	636	--	1,600	4,100	--
Mercury	ND U	0.040	0.89	--	--	10	0.1	--
Nickel	24	24	100	--	--	1,600	4,100	--
Potassium	920	790	--	--	--	--	--	--
Selenium	0.66 J	ND U	1.3	--	--	390	1,000	--
Silver	0.32 J	0.41	4.4	--	--	390	1,000	--
Sodium	230	2,200	--	--	--	--	--	--
Vanadium	24	24	550	--	--	550	1,400	--
Zinc	60	55	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)								
Barium	0.25 J	0.16 J	--	--	--	--	--	2
Iron	ND U	2.4	--	--	--	--	--	5
Manganese	0.56 L	0.052	--	--	--	--	--	0.15
SPLP Metals (mg/L)								
Manganese	0.20 L	NA	--	--	--	--	--	0.15

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ANALYTICAL REPORT

PREPARED FOR

Attn: Dean Tiebot
WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602
Generated 12/2/2022 2:47:37 PM

JOB DESCRIPTION

IDOT - 196-002-WO 13 IL 56

JOB NUMBER

500-225425-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225425-1

Job ID: 500-225425-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225425-1

Receipt

The samples were received on 11/14/2022 5:56 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.5° C and 3.6° C.

GC/MS VOA

Method 8260D: The method blank for preparation batch 310-372637 and analytical batch 310-372638 contained Bromomethane above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260D: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 310-372637 and analytical batch 310-372638 recovered outside control limits for the following analyte(s): Vinyl acetate. Vinyl acetate has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not. These results have been reported and qualified.

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 310-372637 and analytical batch 310-372638 recovered outside control limits for the following analyte(s): Vinyl acetate.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-687276 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-687276 was outside the method criteria for the following analyte(s): Terphenyl-d14, Pyrene and N-Nitrosodi-n-propylamine. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with preparation batch 500-686410 and analytical batch 500-687276 had 3 analytes outside control limits: Pyrene, 3-Nitroaniline and 4-Chloroaniline. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225425-1

Client Sample ID: 1401V3-25-B01 (0-6)

Lab Sample ID: 500-225425-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.057	J	0.090	0.016	mg/Kg	1	✳	8260D	Total/NA
2-Butanone (MEK)	0.017	J	0.036	0.0027	mg/Kg	1	✳	8260D	Total/NA
Phenanthrene	0.023	J	0.048	0.0067	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.018	J	0.048	0.0080	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.035	J	0.048	0.0089	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.023	J**	0.048	0.0096	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.0093	J	0.048	0.0065	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.021	J	0.048	0.013	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.029	J	0.048	0.010	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.017	J	0.048	0.0093	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.012	J	0.048	0.012	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.80	J	1.4	0.27	mg/Kg	1	✳	6010B	Total/NA
Arsenic	7.4		0.70	0.24	mg/Kg	1	✳	6010B	Total/NA
Barium	68		0.70	0.080	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.90		0.28	0.065	mg/Kg	1	✳	6010B	Total/NA
Boron	6.3		3.5	0.33	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.48		0.14	0.025	mg/Kg	1	✳	6010B	Total/NA
Calcium	26000	B	14	2.4	mg/Kg	1	✳	6010B	Total/NA
Chromium	14		0.70	0.35	mg/Kg	1	✳	6010B	Total/NA
Cobalt	10		0.35	0.092	mg/Kg	1	✳	6010B	Total/NA
Copper	25		0.70	0.20	mg/Kg	1	✳	6010B	Total/NA
Iron	26000		14	7.3	mg/Kg	1	✳	6010B	Total/NA
Lead	27		0.35	0.16	mg/Kg	1	✳	6010B	Total/NA
Magnesium	15000		7.0	3.5	mg/Kg	1	✳	6010B	Total/NA
Manganese	220		0.70	0.10	mg/Kg	1	✳	6010B	Total/NA
Nickel	24		0.70	0.20	mg/Kg	1	✳	6010B	Total/NA
Potassium	920		35	12	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.66	J	0.70	0.41	mg/Kg	1	✳	6010B	Total/NA
Silver	0.32	J	0.35	0.090	mg/Kg	1	✳	6010B	Total/NA
Sodium	230		70	10	mg/Kg	1	✳	6010B	Total/NA
Vanadium	24		0.35	0.083	mg/Kg	1	✳	6010B	Total/NA
Zinc	60		1.4	0.62	mg/Kg	1	✳	6010B	Total/NA
Barium	0.25	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.30	J B	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.56		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.20		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.030	B	0.023	0.0077	mg/Kg	1	✳	7471B	Total/NA
pH	6.9		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225425-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010B	Metals (ICP)	SW846	EET CHI
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
Frozen Preserve	Freezing Samples	None	EET CF

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225425-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225425-1	1401V3-25-B01 (0-6)	Solid	11/14/22 14:50	11/14/22 17:56

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225425-1

Client Sample ID: 1401V3-25-B01 (0-6)

Lab Sample ID: 500-225425-1

Date Collected: 11/14/22 14:50

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 68.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.057	J	0.090	0.016	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
Benzene	<0.0090		0.0090	0.0016	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
Bromodichloromethane	<0.0090		0.0090	0.00070	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
Bromoform	<0.018		0.018	0.0011	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
Bromomethane	<0.036		0.036	0.0029	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
2-Butanone (MEK)	0.017	J	0.036	0.0027	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
Carbon disulfide	<0.0090		0.0090	0.0021	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
Carbon tetrachloride	<0.0090		0.0090	0.0025	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
Chlorobenzene	<0.0090		0.0090	0.0014	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
Chloroethane	<0.036		0.036	0.0064	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
Chloroform	<0.0090		0.0090	0.0030	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
Chloromethane	<0.036		0.036	0.0059	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
cis-1,2-Dichloroethene	<0.0090		0.0090	0.0013	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
cis-1,3-Dichloropropene	<0.0090		0.0090	0.0010	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
Dibromochloromethane	<0.0090		0.0090	0.00039	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
1,1-Dichloroethane	<0.0090		0.0090	0.00077	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
1,2-Dichloroethane	<0.0090		0.0090	0.00056	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
1,1-Dichloroethene	<0.0090		0.0090	0.0013	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
1,2-Dichloropropane	<0.0090		0.0090	0.00077	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
1,3-Dichloropropane, Total	<0.018		0.018	0.0020	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
Ethylbenzene	<0.0090		0.0090	0.0043	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
2-Hexanone	<0.036		0.036	0.0041	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
Methylene Chloride	<0.090		0.090	0.052	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
4-Methyl-2-pentanone (MIBK)	<0.036		0.036	0.0030	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
Methyl tert-butyl ether	<0.0090		0.0090	0.00039	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
Styrene	<0.0090		0.0090	0.0063	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
1,1,2,2-Tetrachloroethane	<0.0090		0.0090	0.00063	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
Tetrachloroethene	<0.0090		0.0090	0.0017	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
Toluene	<0.0090		0.0090	0.0059	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
trans-1,2-Dichloroethene	<0.0090		0.0090	0.0011	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
trans-1,3-Dichloropropene	<0.0090		0.0090	0.00098	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
1,1,1-Trichloroethane	<0.0090		0.0090	0.00082	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
1,1,2-Trichloroethane	<0.0090		0.0090	0.00057	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
Trichloroethene	<0.0090		0.0090	0.0025	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
Vinyl acetate	<0.018	*1 *	0.018	0.0030	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
Vinyl chloride	<0.018		0.018	0.0063	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1
Xylenes, Total	<0.018		0.018	0.0064	mg/Kg	☼	11/21/22 08:33	11/22/22 11:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		77 - 120	11/21/22 08:33	11/22/22 11:04	1
Dibromofluoromethane (Surr)	112		80 - 123	11/21/22 08:33	11/22/22 11:04	1
Toluene-d8 (Surr)	94		76 - 120	11/21/22 08:33	11/22/22 11:04	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.24		0.24	0.11	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Bis(2-chloroethyl)ether	<0.24		0.24	0.072	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
1,3-Dichlorobenzene	<0.24		0.24	0.054	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
1,4-Dichlorobenzene	<0.24		0.24	0.062	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
1,2-Dichlorobenzene	<0.24		0.24	0.057	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225425-1

Client Sample ID: 1401V3-25-B01 (0-6)

Lab Sample ID: 500-225425-1

Date Collected: 11/14/22 14:50

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 68.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.24		0.24	0.077	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
2,2'-oxybis[1-chloropropane]	<0.24		0.24	0.056	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
N-Nitrosodi-n-propylamine	<0.097		0.097	0.059	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Hexachloroethane	<0.24		0.24	0.073	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
2-Chlorophenol	<0.24		0.24	0.082	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Nitrobenzene	<0.048		0.048	0.012	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Bis(2-chloroethoxy)methane	<0.24		0.24	0.049	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
1,2,4-Trichlorobenzene	<0.24		0.24	0.052	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Isophorone	<0.24		0.24	0.054	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
2,4-Dimethylphenol	<0.48		0.48	0.18	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Hexachlorobutadiene	<0.24		0.24	0.076	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Naphthalene	<0.048		0.048	0.0074	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
2,4-Dichlorophenol	<0.48		0.48	0.11	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
4-Chloroaniline	<0.97	*	0.97	0.23	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
2,4,6-Trichlorophenol	<0.48		0.48	0.17	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
2,4,5-Trichlorophenol	<0.48		0.48	0.11	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Hexachlorocyclopentadiene	<0.97		0.97	0.28	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
2-Methylnaphthalene	<0.097		0.097	0.0088	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
2-Nitroaniline	<0.24		0.24	0.065	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
2-Chloronaphthalene	<0.24		0.24	0.053	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
4-Chloro-3-methylphenol	<0.48		0.48	0.16	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
2,6-Dinitrotoluene	<0.24		0.24	0.095	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
2-Nitrophenol	<0.48		0.48	0.11	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
3-Nitroaniline	<0.48	*	0.48	0.15	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Dimethyl phthalate	<0.24		0.24	0.063	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
2,4-Dinitrophenol	<0.97		0.97	0.85	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Acenaphthylene	<0.048		0.048	0.0063	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
2,4-Dinitrotoluene	<0.24		0.24	0.076	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Acenaphthene	<0.048		0.048	0.0086	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Dibenzofuran	<0.24		0.24	0.056	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
4-Nitrophenol	<0.97		0.97	0.46	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Fluorene	<0.048		0.048	0.0068	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
4-Nitroaniline	<0.48		0.48	0.20	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
4-Bromophenyl phenyl ether	<0.24		0.24	0.063	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Hexachlorobenzene	<0.097		0.097	0.011	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Diethyl phthalate	<0.24		0.24	0.082	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
4-Chlorophenyl phenyl ether	<0.24		0.24	0.056	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Pentachlorophenol	<0.97		0.97	0.77	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
N-Nitrosodiphenylamine	<0.24		0.24	0.057	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
4,6-Dinitro-2-methylphenol	<0.97		0.97	0.39	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Phenanthrene	0.023	J	0.048	0.0067	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Anthracene	0.018	J	0.048	0.0080	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Carbazole	<0.24		0.24	0.12	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Di-n-butyl phthalate	<0.24		0.24	0.073	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Fluoranthene	0.035	J	0.048	0.0089	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Pyrene	0.023	J**	0.048	0.0096	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Butyl benzyl phthalate	<0.24		0.24	0.092	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Benzo[a]anthracene	0.0093	J	0.048	0.0065	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Chrysene	0.021	J	0.048	0.013	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225425-1

Client Sample ID: 1401V3-25-B01 (0-6)

Lab Sample ID: 500-225425-1

Date Collected: 11/14/22 14:50

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 68.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.24		0.24	0.067	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Bis(2-ethylhexyl) phthalate	<0.24		0.24	0.088	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Di-n-octyl phthalate	<0.24		0.24	0.078	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Benzo[b]fluoranthene	0.029	J	0.048	0.010	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Benzo[k]fluoranthene	<0.048		0.048	0.014	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Benzo[a]pyrene	0.017	J	0.048	0.0093	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Indeno[1,2,3-cd]pyrene	0.012	J	0.048	0.012	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Dibenz(a,h)anthracene	<0.048		0.048	0.0093	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
Benzo[g,h,i]perylene	<0.048		0.048	0.015	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1
3 & 4 Methylphenol	<0.24		0.24	0.080	mg/Kg	☼	11/22/22 07:18	11/29/22 15:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	107		31 - 166	11/22/22 07:18	11/29/22 15:12	1
Phenol-d5	95		30 - 153	11/22/22 07:18	11/29/22 15:12	1
Nitrobenzene-d5 (Surr)	76		37 - 147	11/22/22 07:18	11/29/22 15:12	1
2-Fluorobiphenyl (Surr)	77		43 - 145	11/22/22 07:18	11/29/22 15:12	1
2,4,6-Tribromophenol	82		31 - 143	11/22/22 07:18	11/29/22 15:12	1
Terphenyl-d14 (Surr)	120		42 - 157	11/22/22 07:18	11/29/22 15:12	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.80	J	1.4	0.27	mg/Kg	☼	11/23/22 15:20	11/29/22 18:07	1
Arsenic	7.4		0.70	0.24	mg/Kg	☼	11/23/22 15:20	11/29/22 18:07	1
Barium	68		0.70	0.080	mg/Kg	☼	11/23/22 15:20	11/29/22 18:07	1
Beryllium	0.90		0.28	0.065	mg/Kg	☼	11/23/22 15:20	11/29/22 18:07	1
Boron	6.3		3.5	0.33	mg/Kg	☼	11/23/22 15:20	11/29/22 18:07	1
Cadmium	0.48		0.14	0.025	mg/Kg	☼	11/23/22 15:20	11/29/22 18:07	1
Calcium	26000	B	14	2.4	mg/Kg	☼	11/23/22 15:20	11/29/22 18:07	1
Chromium	14		0.70	0.35	mg/Kg	☼	11/23/22 15:20	11/29/22 18:07	1
Cobalt	10		0.35	0.092	mg/Kg	☼	11/23/22 15:20	11/29/22 18:07	1
Copper	25		0.70	0.20	mg/Kg	☼	11/23/22 15:20	11/29/22 18:07	1
Iron	26000		14	7.3	mg/Kg	☼	11/23/22 15:20	11/29/22 18:07	1
Lead	27		0.35	0.16	mg/Kg	☼	11/23/22 15:20	11/29/22 18:07	1
Magnesium	15000		7.0	3.5	mg/Kg	☼	11/23/22 15:20	11/29/22 18:07	1
Manganese	220		0.70	0.10	mg/Kg	☼	11/23/22 15:20	11/29/22 18:07	1
Nickel	24		0.70	0.20	mg/Kg	☼	11/23/22 15:20	11/29/22 18:07	1
Potassium	920		35	12	mg/Kg	☼	11/23/22 15:20	11/29/22 18:07	1
Selenium	0.66	J	0.70	0.41	mg/Kg	☼	11/23/22 15:20	11/29/22 18:07	1
Silver	0.32	J	0.35	0.090	mg/Kg	☼	11/23/22 15:20	11/29/22 18:07	1
Sodium	230		70	10	mg/Kg	☼	11/23/22 15:20	11/29/22 18:07	1
Thallium	<0.70		0.70	0.35	mg/Kg	☼	11/23/22 15:20	11/29/22 18:07	1
Vanadium	24		0.35	0.083	mg/Kg	☼	11/23/22 15:20	11/29/22 18:07	1
Zinc	60		1.4	0.62	mg/Kg	☼	11/23/22 15:20	11/30/22 19:51	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.25	J	0.50	0.050	mg/L		11/22/22 18:35	11/30/22 16:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 18:35	11/30/22 16:39	1
Boron	0.30	J B	0.50	0.050	mg/L		11/22/22 18:35	11/30/22 16:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 18:35	11/30/22 16:39	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225425-1

Client Sample ID: 1401V3-25-B01 (0-6)

Lab Sample ID: 500-225425-1

Date Collected: 11/14/22 14:50

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 68.8

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:39	1
Cobalt	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:39	1
Iron	<0.40		0.40	0.20	mg/L		11/22/22 18:35	11/30/22 16:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 18:35	11/30/22 16:39	1
Manganese	0.56		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:39	1
Nickel	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:39	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 18:35	11/30/22 16:39	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:39	1
Zinc	<0.50		0.50	0.020	mg/L		11/22/22 18:35	11/30/22 16:39	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.20		0.025	0.010	mg/L		11/22/22 19:37	12/01/22 16:33	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 18:35	11/29/22 16:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 18:35	11/29/22 16:23	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 09:15	11/28/22 09:20	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030	B	0.023	0.0077	mg/Kg	☆	11/28/22 16:35	11/29/22 10:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.9		0.2	0.2	SU			11/18/22 19:04	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225425-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225425-1

GC/MS VOA

Pre Prep Batch: 372631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225425-1	1401V3-25-B01 (0-6)	Total/NA	Solid	Frozen Preserve	

Prep Batch: 372637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225425-1	1401V3-25-B01 (0-6)	Total/NA	Solid	5035	372631
MB 310-372637/1-A	Method Blank	Total/NA	Solid	5035	
LCS 310-372637/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 310-372637/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 372638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225425-1	1401V3-25-B01 (0-6)	Total/NA	Solid	8260D	372637
MB 310-372637/1-A	Method Blank	Total/NA	Solid	8260D	372637
LCS 310-372637/2-A	Lab Control Sample	Total/NA	Solid	8260D	372637
LCS 310-372637/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	372637

GC/MS Semi VOA

Prep Batch: 686410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225425-1	1401V3-25-B01 (0-6)	Total/NA	Solid	3541	
MB 500-686410/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-686410/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 687276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225425-1	1401V3-25-B01 (0-6)	Total/NA	Solid	8270D	686410
MB 500-686410/1-A	Method Blank	Total/NA	Solid	8270D	686410
LCS 500-686410/2-A	Lab Control Sample	Total/NA	Solid	8270D	686410

Metals

Leach Batch: 686377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225425-1	1401V3-25-B01 (0-6)	TCLP	Solid	1311	
LB 500-686377/1-B	Method Blank	TCLP	Solid	1311	
LB 500-686377/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 686388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225425-1	1401V3-25-B01 (0-6)	SPLP East	Solid	1312	
LB 500-686388/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 686617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225425-1	1401V3-25-B01 (0-6)	TCLP	Solid	3010A	686377
LB 500-686377/1-B	Method Blank	TCLP	Solid	3010A	686377
LCS 500-686617/2-A	Lab Control Sample	Total/NA	Solid	3010A	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225425-1

Metals

Prep Batch: 686620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225425-1	1401V3-25-B01 (0-6)	SPLP East	Solid	3010A	686388
LB 500-686388/1-B	Method Blank	SPLP East	Solid	3010A	686388
LCS 500-686620/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 686728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225425-1	1401V3-25-B01 (0-6)	TCLP	Solid	7470A	686377
LB 500-686377/1-C	Method Blank	TCLP	Solid	7470A	686377
MB 500-686728/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-686728/14-A	Lab Control Sample	Total/NA	Solid	7470A	
LCS 500-686728/32-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 686816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225425-1	1401V3-25-B01 (0-6)	Total/NA	Solid	3050B	
MB 500-686816/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-686816/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 687107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225425-1	1401V3-25-B01 (0-6)	Total/NA	Solid	7471B	
MB 500-687107/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-687107/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 687111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225425-1	1401V3-25-B01 (0-6)	TCLP	Solid	7470A	686728
LB 500-686377/1-C	Method Blank	TCLP	Solid	7470A	686728
MB 500-686728/12-A	Method Blank	Total/NA	Solid	7470A	686728
LCS 500-686728/14-A	Lab Control Sample	Total/NA	Solid	7470A	686728
LCS 500-686728/32-A	Lab Control Sample	Total/NA	Solid	7470A	686728

Analysis Batch: 687292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225425-1	1401V3-25-B01 (0-6)	Total/NA	Solid	7471B	687107
MB 500-687107/12-A	Method Blank	Total/NA	Solid	7471B	687107
LCS 500-687107/13-A	Lab Control Sample	Total/NA	Solid	7471B	687107

Analysis Batch: 687450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225425-1	1401V3-25-B01 (0-6)	Total/NA	Solid	6010B	686816
MB 500-686816/1-A	Method Blank	Total/NA	Solid	6010B	686816
LCS 500-686816/2-A	Lab Control Sample	Total/NA	Solid	6010B	686816

Analysis Batch: 687529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225425-1	1401V3-25-B01 (0-6)	TCLP	Solid	6020A	686617
LB 500-686377/1-B	Method Blank	TCLP	Solid	6020A	686617
LCS 500-686617/2-A	Lab Control Sample	Total/NA	Solid	6020A	686617

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225425-1

Metals

Analysis Batch: 687677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225425-1	1401V3-25-B01 (0-6)	Total/NA	Solid	6010B	686816

Analysis Batch: 687706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225425-1	1401V3-25-B01 (0-6)	TCLP	Solid	6010B	686617
LB 500-686377/1-B	Method Blank	TCLP	Solid	6010B	686617
LCS 500-686617/2-A	Lab Control Sample	Total/NA	Solid	6010B	686617

Analysis Batch: 687846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225425-1	1401V3-25-B01 (0-6)	SPLP East	Solid	6010B	686620
LB 500-686388/1-B	Method Blank	SPLP East	Solid	6010B	686620
LCS 500-686620/2-A	Lab Control Sample	Total/NA	Solid	6010B	686620

General Chemistry

Analysis Batch: 685957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225425-1	1401V3-25-B01 (0-6)	Total/NA	Solid	Moisture	

Analysis Batch: 686087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225425-1	1401V3-25-B01 (0-6)	Total/NA	Solid	9045D	
LCS 500-686087/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-686087/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-225425-1 DU	1401V3-25-B01 (0-6)	Total/NA	Solid	9045D	

Surrogate Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225425-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (77-120)	DBFM (80-123)	TOL (76-120)
500-225425-1	1401V3-25-B01 (0-6)	93	112	94
LCS 310-372637/2-A	Lab Control Sample	103	99	101
LCSD 310-372637/3-A	Lab Control Sample Dup	102	100	100
MB 310-372637/1-A	Method Blank	94	108	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP (31-166)	PHL (30-153)	NBZ (37-147)	FBP (43-145)	TBP (31-143)	TPHL (42-157)
500-225425-1	1401V3-25-B01 (0-6)	107	95	76	77	82	120
LCS 500-686410/2-A	Lab Control Sample	111	101	96	92	98	134
MB 500-686410/1-A	Method Blank	110	95	74	80	72	137

Surrogate Legend

2FP = 2-Fluorophenol

PHL = Phenol-d5

NBZ = Nitrobenzene-d5 (Surr)

FBP = 2-Fluorobiphenyl (Surr)

TBP = 2,4,6-Tribromophenol

TPHL = Terphenyl-d14 (Surr)

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225425-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-372637/1-A
Matrix: Solid
Analysis Batch: 372638

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372637

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.093		0.093	0.017	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Benzene	<0.0093		0.0093	0.0017	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Bromodichloromethane	<0.0093		0.0093	0.00073	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Bromoform	<0.019		0.019	0.0012	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Bromomethane	0.00332	J	0.037	0.0030	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
2-Butanone (MEK)	<0.037		0.037	0.0028	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Carbon disulfide	<0.0093		0.0093	0.0022	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Carbon tetrachloride	<0.0093		0.0093	0.0026	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Chlorobenzene	<0.0093		0.0093	0.0014	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Chloroethane	<0.037		0.037	0.0067	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Chloroform	<0.0093		0.0093	0.0032	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Chloromethane	<0.037		0.037	0.0061	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
cis-1,2-Dichloroethene	<0.0093		0.0093	0.0014	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
cis-1,3-Dichloropropene	<0.0093		0.0093	0.0010	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Dibromochloromethane	<0.0093		0.0093	0.00041	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,1-Dichloroethane	<0.0093		0.0093	0.00080	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,2-Dichloroethane	<0.0093		0.0093	0.00058	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,1-Dichloroethene	<0.0093		0.0093	0.0013	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,2-Dichloropropane	<0.0093		0.0093	0.00080	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,3-Dichloropropane, Total	<0.019		0.019	0.0020	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Ethylbenzene	<0.0093		0.0093	0.0045	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
2-Hexanone	<0.037		0.037	0.0043	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Methylene Chloride	<0.093		0.093	0.054	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
4-Methyl-2-pentanone (MIBK)	<0.037		0.037	0.0032	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Methyl tert-butyl ether	<0.0093		0.0093	0.00041	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Styrene	<0.0093		0.0093	0.0065	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,1,2,2-Tetrachloroethane	<0.0093		0.0093	0.00065	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Tetrachloroethene	<0.0093		0.0093	0.0018	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Toluene	<0.0093		0.0093	0.0061	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
trans-1,2-Dichloroethene	<0.0093		0.0093	0.0011	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
trans-1,3-Dichloropropene	<0.0093		0.0093	0.0010	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,1,1-Trichloroethane	<0.0093		0.0093	0.00086	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,1,2-Trichloroethane	<0.0093		0.0093	0.00060	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Trichloroethene	<0.0093		0.0093	0.0026	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Vinyl acetate	<0.019		0.019	0.0032	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Vinyl chloride	<0.019		0.019	0.0065	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Xylenes, Total	<0.019		0.019	0.0067	mg/Kg		11/21/22 08:33	11/22/22 07:46	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	94		77 - 120	11/21/22 08:33	11/22/22 07:46	1
Dibromofluoromethane (Surr)	108		80 - 123	11/21/22 08:33	11/22/22 07:46	1
Toluene-d8 (Surr)	93		76 - 120	11/21/22 08:33	11/22/22 07:46	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225425-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-372637/2-A
Matrix: Solid
Analysis Batch: 372638

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
							Limits	
Acetone	0.150	0.156		mg/Kg		104	52 - 150	
Benzene	0.0750	0.0813		mg/Kg		108	77 - 134	
Bromodichloromethane	0.0750	0.0784		mg/Kg		104	78 - 122	
Bromoform	0.0750	0.0807		mg/Kg		108	72 - 122	
2-Butanone (MEK)	0.150	0.167		mg/Kg		112	60 - 150	
Carbon disulfide	0.0750	0.0725		mg/Kg		97	61 - 142	
Carbon tetrachloride	0.0750	0.0762		mg/Kg		102	77 - 127	
Chlorobenzene	0.0750	0.0727		mg/Kg		97	76 - 120	
Chloroform	0.0750	0.0738		mg/Kg		98	78 - 127	
cis-1,2-Dichloroethene	0.0750	0.0822		mg/Kg		109	74 - 136	
cis-1,3-Dichloropropene	0.0750	0.0800		mg/Kg		107	79 - 126	
Dibromochloromethane	0.0750	0.0809		mg/Kg		108	78 - 122	
1,1-Dichloroethane	0.0750	0.0830		mg/Kg		111	74 - 137	
1,2-Dichloroethane	0.0750	0.0776		mg/Kg		103	79 - 132	
1,1-Dichloroethene	0.0750	0.0717		mg/Kg		96	62 - 130	
1,2-Dichloropropane	0.0750	0.0851		mg/Kg		113	78 - 135	
Ethylbenzene	0.0750	0.0766		mg/Kg		102	78 - 122	
2-Hexanone	0.150	0.167		mg/Kg		112	73 - 134	
Methylene Chloride	0.0750	0.0854	J	mg/Kg		114	55 - 150	
4-Methyl-2-pentanone (MIBK)	0.150	0.173		mg/Kg		115	75 - 135	
Methyl tert-butyl ether	0.0750	0.0790		mg/Kg		105	73 - 135	
Styrene	0.0750	0.0772		mg/Kg		103	75 - 120	
1,1,2,2-Tetrachloroethane	0.0750	0.0792		mg/Kg		106	80 - 127	
Tetrachloroethene	0.0750	0.0680		mg/Kg		91	72 - 121	
Toluene	0.0750	0.0758		mg/Kg		101	77 - 121	
trans-1,2-Dichloroethene	0.0750	0.0767		mg/Kg		102	71 - 134	
trans-1,3-Dichloropropene	0.0750	0.0728		mg/Kg		97	77 - 122	
1,1,1-Trichloroethane	0.0750	0.0783		mg/Kg		104	79 - 132	
1,1,2-Trichloroethane	0.0750	0.0835		mg/Kg		111	80 - 124	
Trichloroethene	0.0750	0.0785		mg/Kg		105	76 - 132	
Vinyl acetate	0.150	0.0450	*-	mg/Kg		30	37 - 150	
Xylenes, Total	0.150	0.152		mg/Kg		101	76 - 124	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		77 - 120
Dibromofluoromethane (Surr)	99		80 - 123
Toluene-d8 (Surr)	101		76 - 120

Lab Sample ID: LCSD 310-372637/3-A
Matrix: Solid
Analysis Batch: 372638

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 372637

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD	Limit
							Limits			
Acetone	0.184	0.182		mg/Kg		99	52 - 150	15	40	
Benzene	0.0920	0.0980		mg/Kg		107	77 - 134	19	40	
Bromodichloromethane	0.0920	0.0929		mg/Kg		101	78 - 122	17	35	
Bromoform	0.0920	0.0960		mg/Kg		104	72 - 122	17	40	
2-Butanone (MEK)	0.184	0.198		mg/Kg		108	60 - 150	17	39	

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225425-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 310-372637/3-A
Matrix: Solid
Analysis Batch: 372638

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 372637

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide	0.0920	0.0855		mg/Kg		93	61 - 142	16	40
Carbon tetrachloride	0.0920	0.0911		mg/Kg		99	77 - 127	18	40
Chlorobenzene	0.0920	0.0883		mg/Kg		96	76 - 120	19	40
Chloroform	0.0920	0.0877		mg/Kg		95	78 - 127	17	34
cis-1,2-Dichloroethene	0.0920	0.0961		mg/Kg		104	74 - 136	16	36
cis-1,3-Dichloropropene	0.0920	0.0972		mg/Kg		106	79 - 126	19	39
Dibromochloromethane	0.0920	0.0959		mg/Kg		104	78 - 122	17	37
1,1-Dichloroethane	0.0920	0.0993		mg/Kg		108	74 - 137	18	33
1,2-Dichloroethane	0.0920	0.0900		mg/Kg		98	79 - 132	15	34
1,1-Dichloroethene	0.0920	0.0861		mg/Kg		94	62 - 130	18	37
1,2-Dichloropropane	0.0920	0.101		mg/Kg		110	78 - 135	17	34
Ethylbenzene	0.0920	0.0914		mg/Kg		99	78 - 122	18	40
2-Hexanone	0.184	0.199		mg/Kg		108	73 - 134	17	40
Methylene Chloride	0.0920	0.0991	J	mg/Kg		108	55 - 150	15	35
4-Methyl-2-pentanone (MIBK)	0.184	0.206		mg/Kg		112	75 - 135	18	40
Methyl tert-butyl ether	0.0920	0.0962		mg/Kg		105	73 - 135	20	33
Styrene	0.0920	0.0924		mg/Kg		100	75 - 120	18	40
1,1,2,2-Tetrachloroethane	0.0920	0.0964		mg/Kg		105	80 - 127	20	38
Tetrachloroethene	0.0920	0.0817		mg/Kg		89	72 - 121	18	40
Toluene	0.0920	0.0903		mg/Kg		98	77 - 121	17	40
trans-1,2-Dichloroethene	0.0920	0.0933		mg/Kg		101	71 - 134	20	36
trans-1,3-Dichloropropene	0.0920	0.0878		mg/Kg		95	77 - 122	19	40
1,1,1-Trichloroethane	0.0920	0.0932		mg/Kg		101	79 - 132	17	39
1,1,2-Trichloroethane	0.0920	0.0992		mg/Kg		108	80 - 124	17	35
Trichloroethene	0.0920	0.0934		mg/Kg		102	76 - 132	17	40
Vinyl acetate	0.184	0.0944	*1	mg/Kg		51	37 - 150	71	40
Xylenes, Total	0.184	0.182		mg/Kg		99	76 - 124	18	40

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		77 - 120
Dibromofluoromethane (Surr)	100		80 - 123
Toluene-d8 (Surr)	100		76 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-686410/1-A
Matrix: Solid
Analysis Batch: 687276

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686410

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		11/22/22 07:18	11/29/22 12:25	1

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225425-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-686410/1-A
Matrix: Solid
Analysis Batch: 687276

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686410

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Isophorone	<0.17		0.17	0.037	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Carbazole	<0.17		0.17	0.083	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		11/22/22 07:18	11/29/22 12:25	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225425-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-686410/1-A
Matrix: Solid
Analysis Batch: 687276

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686410

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		11/22/22 07:18	11/29/22 12:25	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		11/22/22 07:18	11/29/22 12:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	110		31 - 166	11/22/22 07:18	11/29/22 12:25	1
Phenol-d5	95		30 - 153	11/22/22 07:18	11/29/22 12:25	1
Nitrobenzene-d5 (Surr)	74		37 - 147	11/22/22 07:18	11/29/22 12:25	1
2-Fluorobiphenyl (Surr)	80		43 - 145	11/22/22 07:18	11/29/22 12:25	1
2,4,6-Tribromophenol	72		31 - 143	11/22/22 07:18	11/29/22 12:25	1
Terphenyl-d14 (Surr)	137		42 - 157	11/22/22 07:18	11/29/22 12:25	1

Lab Sample ID: LCS 500-686410/2-A
Matrix: Solid
Analysis Batch: 687276

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686410

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.28		mg/Kg		96	56 - 122
Bis(2-chloroethyl)ether	1.33	1.36		mg/Kg		102	55 - 111
1,3-Dichlorobenzene	1.33	1.25		mg/Kg		93	65 - 124
1,4-Dichlorobenzene	1.33	1.30		mg/Kg		97	61 - 110
1,2-Dichlorobenzene	1.33	1.34		mg/Kg		100	62 - 110
2-Methylphenol	1.33	1.38		mg/Kg		104	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.30		mg/Kg		97	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.44		mg/Kg		108	56 - 118
Hexachloroethane	1.33	1.24		mg/Kg		93	60 - 114
2-Chlorophenol	1.33	1.25		mg/Kg		94	64 - 110
Nitrobenzene	1.33	1.38		mg/Kg		103	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.30		mg/Kg		97	60 - 112
1,2,4-Trichlorobenzene	1.33	1.17		mg/Kg		88	66 - 117
Isophorone	1.33	1.40		mg/Kg		105	55 - 110
2,4-Dimethylphenol	1.33	1.31		mg/Kg		98	60 - 110
Hexachlorobutadiene	1.33	1.12		mg/Kg		84	56 - 120
Naphthalene	1.33	1.37		mg/Kg		102	63 - 110
2,4-Dichlorophenol	1.33	1.14		mg/Kg		85	58 - 120
4-Chloroaniline	1.33	0.305	J *	mg/Kg		23	30 - 150
2,4,6-Trichlorophenol	1.33	1.21		mg/Kg		91	57 - 120
2,4,5-Trichlorophenol	1.33	1.17		mg/Kg		88	50 - 120
Hexachlorocyclopentadiene	1.33	0.944		mg/Kg		71	10 - 133
2-Methylnaphthalene	1.33	1.19		mg/Kg		89	69 - 112
2-Nitroaniline	1.33	1.37		mg/Kg		103	57 - 124
2-Chloronaphthalene	1.33	1.33		mg/Kg		99	69 - 114
4-Chloro-3-methylphenol	1.33	1.29		mg/Kg		97	65 - 122
2,6-Dinitrotoluene	1.33	1.35		mg/Kg		102	70 - 123
2-Nitrophenol	1.33	1.24		mg/Kg		93	60 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225425-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-686410/2-A
Matrix: Solid
Analysis Batch: 687276

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686410

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
3-Nitroaniline	1.33	0.513	*-	mg/Kg		38	40 - 122
Dimethyl phthalate	1.33	1.44		mg/Kg		108	69 - 116
2,4-Dinitrophenol	2.67	1.07		mg/Kg		40	10 - 100
Acenaphthylene	1.33	1.34		mg/Kg		101	68 - 120
2,4-Dinitrotoluene	1.33	1.41		mg/Kg		105	69 - 124
Acenaphthene	1.33	1.25		mg/Kg		94	65 - 124
Dibenzofuran	1.33	1.26		mg/Kg		95	66 - 115
4-Nitrophenol	2.67	2.17		mg/Kg		81	30 - 122
Fluorene	1.33	1.25		mg/Kg		94	62 - 120
4-Nitroaniline	1.33	1.03		mg/Kg		78	60 - 160
4-Bromophenyl phenyl ether	1.33	1.29		mg/Kg		96	68 - 118
Hexachlorobenzene	1.33	1.33		mg/Kg		100	63 - 124
Diethyl phthalate	1.33	1.32		mg/Kg		99	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.20		mg/Kg		90	62 - 119
Pentachlorophenol	2.67	1.52		mg/Kg		57	13 - 112
N-Nitrosodiphenylamine	1.33	1.20		mg/Kg		90	65 - 112
4,6-Dinitro-2-methylphenol	2.67	1.40		mg/Kg		53	10 - 110
Phenanthrene	1.33	1.25		mg/Kg		94	62 - 120
Anthracene	1.33	1.27		mg/Kg		95	70 - 114
Carbazole	1.33	1.27		mg/Kg		95	65 - 142
Di-n-butyl phthalate	1.33	1.26		mg/Kg		95	65 - 120
Fluoranthene	1.33	1.27		mg/Kg		95	62 - 120
Pyrene	1.33	1.73	*+	mg/Kg		130	61 - 128
Butyl benzyl phthalate	1.33	1.46		mg/Kg		110	71 - 129
Benzo[a]anthracene	1.33	1.53		mg/Kg		115	67 - 122
Chrysene	1.33	1.54		mg/Kg		116	63 - 120
3,3'-Dichlorobenzidine	1.33	0.906		mg/Kg		68	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.38		mg/Kg		104	72 - 131
Di-n-octyl phthalate	1.33	0.997		mg/Kg		75	68 - 134
Benzo[b]fluoranthene	1.33	1.25		mg/Kg		94	69 - 129
Benzo[k]fluoranthene	1.33	1.25		mg/Kg		94	68 - 127
Benzo[a]pyrene	1.33	1.27		mg/Kg		95	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.30		mg/Kg		97	68 - 130
Dibenz(a,h)anthracene	1.33	1.22		mg/Kg		91	64 - 131
Benzo[g,h,i]perylene	1.33	1.26		mg/Kg		95	72 - 131
3 & 4 Methylphenol	1.33	1.33		mg/Kg		99	57 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	111		31 - 166
Phenol-d5	101		30 - 153
Nitrobenzene-d5 (Surr)	96		37 - 147
2-Fluorobiphenyl (Surr)	92		43 - 145
2,4,6-Tribromophenol	98		31 - 143
Terphenyl-d14 (Surr)	134		42 - 157

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225425-1

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-686617/2-A
Matrix: Solid
Analysis Batch: 687706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686617

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.512		mg/L		102	80 - 120
Beryllium	0.0500	0.0493		mg/L		99	80 - 120
Boron	1.00	1.17		mg/L		117	80 - 120
Cadmium	0.0500	0.0525		mg/L		105	80 - 120
Chromium	0.200	0.197		mg/L		98	80 - 120
Cobalt	0.500	0.519		mg/L		104	80 - 120
Iron	1.00	0.988		mg/L		99	80 - 120
Lead	0.100	0.0960		mg/L		96	80 - 120
Manganese	0.500	0.490		mg/L		98	80 - 120
Nickel	0.500	0.508		mg/L		102	80 - 120
Selenium	0.100	0.110		mg/L		110	80 - 120
Silver	0.0500	0.0533		mg/L		107	80 - 120
Zinc	0.500	0.548		mg/L		110	80 - 120

Lab Sample ID: LCS 500-686620/2-A
Matrix: Solid
Analysis Batch: 687846

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686620

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.500	0.505		mg/L		101	80 - 120

Lab Sample ID: MB 500-686816/1-A
Matrix: Solid
Analysis Batch: 687450

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686816

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Arsenic	<1.0		1.0	0.34	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Barium	<1.0		1.0	0.11	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Beryllium	<0.40		0.40	0.093	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Boron	<5.0		5.0	0.47	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Cadmium	<0.20		0.20	0.036	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Calcium	6.81	J	20	3.4	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Chromium	<1.0		1.0	0.50	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Cobalt	<0.50		0.50	0.13	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Copper	<1.0		1.0	0.28	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Iron	<20		20	10	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Lead	<0.50		0.50	0.23	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Magnesium	<10		10	5.0	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Manganese	<1.0		1.0	0.15	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Nickel	<1.0		1.0	0.29	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Potassium	<50		50	18	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Selenium	<1.0		1.0	0.59	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Silver	<0.50		0.50	0.13	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Sodium	<100		100	15	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Thallium	<1.0		1.0	0.50	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Vanadium	<0.50		0.50	0.12	mg/Kg		11/23/22 15:20	11/29/22 16:35	1
Zinc	<2.0		2.0	0.88	mg/Kg		11/23/22 15:20	11/29/22 16:35	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225425-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-686816/2-A
Matrix: Solid
Analysis Batch: 687450

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686816

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	44.3		mg/Kg		89	80 - 120
Arsenic	10.0	9.02		mg/Kg		90	80 - 120
Barium	200	198		mg/Kg		99	80 - 120
Beryllium	5.00	4.59		mg/Kg		92	80 - 120
Boron	100	83.9		mg/Kg		84	80 - 120
Cadmium	5.00	4.57		mg/Kg		91	80 - 120
Calcium	1000	1010		mg/Kg		101	80 - 120
Chromium	20.0	19.9		mg/Kg		100	80 - 120
Cobalt	50.0	49.5		mg/Kg		99	80 - 120
Copper	25.0	24.5		mg/Kg		98	80 - 120
Iron	100	101		mg/Kg		101	80 - 120
Lead	10.0	9.39		mg/Kg		94	80 - 120
Magnesium	1000	930		mg/Kg		93	80 - 120
Manganese	50.0	48.6		mg/Kg		97	80 - 120
Nickel	50.0	48.2		mg/Kg		96	80 - 120
Potassium	1000	934		mg/Kg		93	80 - 120
Selenium	10.0	8.17		mg/Kg		82	80 - 120
Silver	5.00	4.30		mg/Kg		86	80 - 120
Sodium	1000	934		mg/Kg		93	80 - 120
Thallium	10.0	9.11		mg/Kg		91	80 - 120
Vanadium	50.0	49.3		mg/Kg		99	80 - 120
Zinc	50.0	48.2		mg/Kg		96	80 - 120

Lab Sample ID: LB 500-686377/1-B
Matrix: Solid
Analysis Batch: 687706

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 686617

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		11/22/22 18:35	11/30/22 15:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 18:35	11/30/22 15:38	1
Boron	0.276	J	0.50	0.050	mg/L		11/22/22 18:35	11/30/22 15:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 18:35	11/30/22 15:38	1
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:38	1
Cobalt	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:38	1
Iron	<0.40		0.40	0.20	mg/L		11/22/22 18:35	11/30/22 15:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 18:35	11/30/22 15:38	1
Manganese	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:38	1
Nickel	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:38	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 18:35	11/30/22 15:38	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:38	1
Zinc	<0.50		0.50	0.020	mg/L		11/22/22 18:35	11/30/22 15:38	1

Lab Sample ID: LB 500-686388/1-B
Matrix: Solid
Analysis Batch: 687846

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 686620

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		11/22/22 19:37	12/01/22 15:14	1

Eurolins Chicago

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225425-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-686617/2-A
Matrix: Solid
Analysis Batch: 687529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686617

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.486		mg/L		97	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: LB 500-686377/1-B
Matrix: Solid
Analysis Batch: 687529

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 686617

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 18:35	11/29/22 15:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 18:35	11/29/22 15:45	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-686728/12-A
Matrix: Solid
Analysis Batch: 687111

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686728

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 09:15	11/28/22 08:32	1

Lab Sample ID: LCS 500-686728/14-A
Matrix: Solid
Analysis Batch: 687111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686728

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00191		mg/L		96	80 - 120

Lab Sample ID: LCS 500-686728/32-A
Matrix: Solid
Analysis Batch: 687111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686728

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00191		mg/L		96	80 - 120

Lab Sample ID: LB 500-686377/1-C
Matrix: Solid
Analysis Batch: 687111

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 686728

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 09:15	11/28/22 08:34	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-687107/12-A
Matrix: Solid
Analysis Batch: 687292

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687107

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00635	J	0.017	0.0056	mg/Kg		11/28/22 16:35	11/29/22 09:07	1

Euofins Chicago

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225425-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 500-687107/13-A
Matrix: Solid
Analysis Batch: 687292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687107

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.166		mg/Kg		101	80 - 120

Method: 9045D - pH

Lab Sample ID: 500-225425-1 DU
Matrix: Solid
Analysis Batch: 686087

Client Sample ID: 1401V3-25-B01 (0-6)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	6.9		6.7		SU		2	



Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225425-1

Client Sample ID: 1401V3-25-B01 (0-6)

Lab Sample ID: 500-225425-1

Date Collected: 11/14/22 14:50

Matrix: Solid

Date Received: 11/14/22 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686388	AW	EET CHI	11/21/22 12:03 - 11/22/22 06:03 ¹
SPLP East	Prep	3010A			686620	LMB	EET CHI	11/22/22 19:37 - 11/22/22 20:07 ¹
SPLP East	Analysis	6010B		1	687846	JJB	EET CHI	12/01/22 16:33
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6010B		1	687706	JJB	EET CHI	11/30/22 16:39
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 16:23
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686728	MJG	EET CHI	11/23/22 09:15 - 11/23/22 11:15 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 09:20
Total/NA	Analysis	9045D		1	686087	LWN	EET CHI	11/18/22 19:04
Total/NA	Analysis	Moisture		1	685957	LWN	EET CHI	11/18/22 17:43

Client Sample ID: 1401V3-25-B01 (0-6)

Lab Sample ID: 500-225425-1

Date Collected: 11/14/22 14:50

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 68.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372631	MZR8	EET CF	11/15/22 09:07
Total/NA	Prep	5035			372637	MZR8	EET CF	11/21/22 08:33
Total/NA	Analysis	8260D		1	372638	MZR8	EET CF	11/22/22 11:04
Total/NA	Prep	3541			686410	KN	EET CHI	11/22/22 07:18 - 11/22/22 15:00 ¹
Total/NA	Analysis	8270D		1	687276	SS	EET CHI	11/29/22 15:12
Total/NA	Prep	3050B			686816	LMB	EET CHI	11/23/22 15:20 - 11/23/22 15:50 ¹
Total/NA	Analysis	6010B		1	687450	JJB	EET CHI	11/29/22 18:07
Total/NA	Prep	3050B			686816	LMB	EET CHI	11/23/22 15:20 - 11/23/22 15:50 ¹
Total/NA	Analysis	6010B		1	687677	JJB	EET CHI	11/30/22 19:51
Total/NA	Prep	7471B			687107	MJG	EET CHI	11/28/22 16:35
Total/NA	Analysis	7471B		1	687292	MJG	EET CHI	11/29/22 10:10

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225425-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

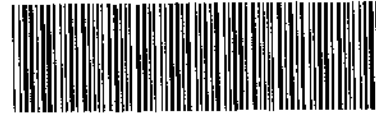
Laboratory: Eurofins Cedar Falls

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Colorado	Petroleum Storage Tank Program	IA100001 (OR)	09-29-23
Georgia	State	IA100001 (OR)	09-29-23
Illinois	NELAP	200024	11-29-22
Iowa	State	007	12-01-23
Kansas	NELAP	E-10341	01-31-23
Minnesota	NELAP	019-999-319	12-31-22
Minnesota (Petrofund)	State	3349	01-18-24
North Dakota	State	R-186	09-29-23
Oregon	NELAP	IA100001	09-29-23



Environment Testing
America



500-225425 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Chicago</u>			
City/State:	CITY <u>Unv Park</u>	STATE <u>IL</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>11-18-22</u>	TIME <u>1445</u>	Received By: <u>RL</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>1</u> of <u>2</u>	
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>R</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>1.9</u>		Corrected Temp (°C): <u>1.9</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

1
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Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Chicago</u>			
City/State:	CITY <u>Unv Park</u>	STATE <u>IL</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>11-18-22</u>	TIME <u>1445</u>	Received By: <u>AL</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>2</u> of <u>2</u>	
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
<u>FW008</u>			
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>AL</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>0.6</u>		Corrected Temp (°C): <u>0.6</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No			
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225425-1

Login Number: 225425

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5,3.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225425-1

Login Number: 225425

List Number: 2

Creator: Kizer, Preston V

List Source: Eurofins Cedar Falls

List Creation: 11/18/22 06:08 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

PREPARED FOR

Attn: Dean Tiebot
WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602

Generated 12/7/2022 1:05:50 PM

JOB DESCRIPTION

IDOT - 196-002-WO 13 IL 56

JOB NUMBER

500-225546-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



Generated
12/7/2022 1:05:50 PM

Authorized for release by
Richard Wright, Senior Project Manager
Richard.Wright@et.eurofinsus.com
(708)746-0045

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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225546-1

Job ID: 500-225546-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225546-1

Receipt

The samples were received on 11/16/2022 7:02 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.6° C and 2.9° C.

GC/MS VOA

Method 8260D: The method blank for preparation batch 310-373171 and analytical batch 310-373178 contained Acetone above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 310-372909 and analytical batch 310-372912 recovered outside control limits for the following analytes: Vinyl acetate. There was insufficient holding time remaining for reanalysis; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-687897 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane], 2,4-Dinitrophenol, 2-Fluorophenol (Surr), 2-Nitroaniline, 4-Nitroaniline, 4-Nitrophenol, Hexachlorocyclopentadiene, Nitrobenzene-d5 (Surr) and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-687897 was outside the method criteria for the following analyte(s): 1,2,4-Trichlorobenzene, 4-Chlorophenyl phenyl ether and Hexachlorobutadiene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-687960 was outside the method criteria for the following analyte(s): Pentachlorophenol and Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-687960 was outside the method criteria for the following analyte(s): 2-Fluorophenol (Surr), Benzo[g,h,i]perylene, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010B: The laboratory control sample (LCS) for prep batch 687802 recovered outside control limits for the following analytes: B-. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225546-1

Client Sample ID: 1401V3-25-B03 (0-6)

Lab Sample ID: 500-225546-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.43	J	1.2	0.24	mg/Kg	1	✳	6010B	Total/NA
Arsenic	5.1		0.61	0.21	mg/Kg	1	✳	6010B	Total/NA
Barium	68		0.61	0.069	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.71		0.24	0.057	mg/Kg	1	✳	6010B	Total/NA
Boron	2.9	J	3.0	0.28	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.17		0.12	0.022	mg/Kg	1	✳	6010B	Total/NA
Calcium	2700	B	12	2.1	mg/Kg	1	✳	6010B	Total/NA
Chromium	16		0.61	0.30	mg/Kg	1	✳	6010B	Total/NA
Cobalt	8.4		0.30	0.079	mg/Kg	1	✳	6010B	Total/NA
Copper	16		0.61	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	14000		12	6.3	mg/Kg	1	✳	6010B	Total/NA
Lead	14		0.30	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	3000	B	6.1	3.0	mg/Kg	1	✳	6010B	Total/NA
Manganese	57		0.61	0.088	mg/Kg	1	✳	6010B	Total/NA
Nickel	24		0.61	0.18	mg/Kg	1	✳	6010B	Total/NA
Potassium	790		30	11	mg/Kg	1	✳	6010B	Total/NA
Silver	0.41		0.30	0.078	mg/Kg	1	✳	6010B	Total/NA
Sodium	2200		61	9.0	mg/Kg	1	✳	6010B	Total/NA
Vanadium	24		0.30	0.072	mg/Kg	1	✳	6010B	Total/NA
Zinc	55		1.2	0.53	mg/Kg	1	✳	6010B	Total/NA
Barium	0.16	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.5	J B **	1.6	0.050	mg/L	1		6010B	TCLP
Iron	2.4		0.40	0.20	mg/L	1		6010B	TCLP
Manganese	0.052		0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.040		0.020	0.0067	mg/Kg	1	✳	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225546-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010B	Metals (ICP)	SW846	EET CHI
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
Frozen Preserve	Freezing Samples	None	EET CF

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225546-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225546-1	1401V3-25-B03 (0-6)	Solid	11/16/22 14:10	11/16/22 19:02

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225546-1

Client Sample ID: 1401V3-25-B03 (0-6)

Lab Sample ID: 500-225546-1

Date Collected: 11/16/22 14:10

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 78.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.044		0.044	0.0080	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
Benzene	<0.0044		0.0044	0.00079	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
Bromodichloromethane	<0.0044		0.0044	0.00034	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
Bromoform	<0.0087		0.0087	0.00056	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
Bromomethane	<0.017		0.017	0.0014	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
2-Butanone (MEK)	<0.017		0.017	0.0013	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
Carbon disulfide	<0.0044		0.0044	0.0010	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
Carbon tetrachloride	<0.0044		0.0044	0.0012	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
Chlorobenzene	<0.0044		0.0044	0.00067	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
Chloroethane	<0.017		0.017	0.0031	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
Chloroform	<0.0044		0.0044	0.0015	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
Chloromethane	<0.017		0.017	0.0029	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00065	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00049	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
Dibromochloromethane	<0.0044		0.0044	0.00019	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
1,1-Dichloroethane	<0.0044		0.0044	0.00038	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
1,2-Dichloroethane	<0.0044		0.0044	0.00027	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
1,1-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
1,2-Dichloropropane	<0.0044		0.0044	0.00038	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
1,3-Dichloropropane, Total	<0.0087		0.0087	0.00096	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
Ethylbenzene	<0.0044		0.0044	0.0021	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
2-Hexanone	<0.017		0.017	0.0020	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
Methylene Chloride	<0.044		0.044	0.025	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
4-Methyl-2-pentanone (MIBK)	<0.017		0.017	0.0015	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00019	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
Styrene	<0.0044		0.0044	0.0031	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00031	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
Tetrachloroethene	<0.0044		0.0044	0.00083	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
Toluene	<0.0044		0.0044	0.0029	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00053	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00048	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00040	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00028	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
Vinyl acetate	<0.0087		0.0087	0.0015	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
Vinyl chloride	<0.0087		0.0087	0.0031	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1
Xylenes, Total	<0.0087		0.0087	0.0031	mg/Kg	☼	11/29/22 07:51	11/29/22 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		77 - 120	11/29/22 07:51	11/29/22 15:30	1
Dibromofluoromethane (Surr)	112		80 - 123	11/29/22 07:51	11/29/22 15:30	1
Toluene-d8 (Surr)	93		76 - 120	11/29/22 07:51	11/29/22 15:30	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.042		0.042	0.0076	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Acenaphthylene	<0.042		0.042	0.0056	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Anthracene	<0.042		0.042	0.0071	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Benzo[a]anthracene	<0.042		0.042	0.0057	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Benzo[a]pyrene	<0.042		0.042	0.0082	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225546-1

Client Sample ID: 1401V3-25-B03 (0-6)

Lab Sample ID: 500-225546-1

Date Collected: 11/16/22 14:10

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 78.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.042		0.042	0.0091	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Butyl benzyl phthalate	<0.21		0.21	0.081	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Chrysene	<0.042		0.042	0.012	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0082	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
1,2-Dichlorobenzene	<0.21		0.21	0.051	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
1,3-Dichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Diethyl phthalate	<0.21		0.21	0.072	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Di-n-butyl phthalate	<0.21		0.21	0.065	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
4,6-Dinitro-2-methylphenol	<0.85		0.85	0.34	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
2,4-Dinitrophenol	<0.85		0.85	0.75	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Fluoranthene	<0.042		0.042	0.0079	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Fluorene	<0.042		0.042	0.0060	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Hexachlorobenzene	<0.085		0.085	0.0098	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Hexachlorobutadiene	<0.21		0.21	0.067	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Hexachlorocyclopentadiene	<0.85		0.85	0.24	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Isophorone	<0.21		0.21	0.048	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
2-Methylnaphthalene	<0.085		0.085	0.0078	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
3 & 4 Methylphenol	<0.21		0.21	0.071	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Nitrobenzene	<0.042		0.042	0.011	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
4-Nitrophenol	<0.85		0.85	0.40	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1

Eurofins Chicago

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225546-1

Client Sample ID: 1401V3-25-B03 (0-6)

Lab Sample ID: 500-225546-1

Date Collected: 11/16/22 14:10

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 78.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.085		0.085	0.052	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Pentachlorophenol	<0.85		0.85	0.68	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Phenanthrene	<0.042		0.042	0.0059	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Phenol	<0.21		0.21	0.094	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Pyrene	<0.042		0.042	0.0084	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
2,4,5-Trichlorophenol	<0.42		0.42	0.097	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
2,4,6-Trichlorophenol	<0.42		0.42	0.15	mg/Kg	☼	11/28/22 08:54	12/02/22 19:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	50		43 - 145				11/28/22 08:54	12/02/22 19:50	1
2-Fluorophenol (Surr)	61		31 - 166				11/28/22 08:54	12/02/22 19:50	1
Nitrobenzene-d5 (Surr)	41		37 - 147				11/28/22 08:54	12/02/22 19:50	1
Phenol-d5 (Surr)	59		30 - 153				11/28/22 08:54	12/02/22 19:50	1
Terphenyl-d14 (Surr)	112		42 - 157				11/28/22 08:54	12/02/22 19:50	1
2,4,6-Tribromophenol (Surr)	71		31 - 143				11/28/22 08:54	12/02/22 19:50	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J	1.2	0.24	mg/Kg	☼	12/01/22 14:51	12/06/22 13:14	1
Arsenic	5.1		0.61	0.21	mg/Kg	☼	12/01/22 14:51	12/06/22 13:14	1
Barium	68		0.61	0.069	mg/Kg	☼	12/01/22 14:51	12/06/22 13:14	1
Beryllium	0.71		0.24	0.057	mg/Kg	☼	12/01/22 14:51	12/06/22 13:14	1
Boron	2.9	J	3.0	0.28	mg/Kg	☼	12/01/22 14:51	12/06/22 13:14	1
Cadmium	0.17		0.12	0.022	mg/Kg	☼	12/01/22 14:51	12/06/22 13:14	1
Calcium	2700	B	12	2.1	mg/Kg	☼	12/01/22 14:51	12/06/22 13:14	1
Chromium	16		0.61	0.30	mg/Kg	☼	12/01/22 14:51	12/06/22 13:14	1
Cobalt	8.4		0.30	0.079	mg/Kg	☼	12/01/22 14:51	12/06/22 13:14	1
Copper	16		0.61	0.17	mg/Kg	☼	12/01/22 14:51	12/06/22 13:14	1
Iron	14000		12	6.3	mg/Kg	☼	12/01/22 14:51	12/06/22 13:14	1
Lead	14		0.30	0.14	mg/Kg	☼	12/01/22 14:51	12/06/22 13:14	1
Magnesium	3000	B	6.1	3.0	mg/Kg	☼	12/01/22 14:51	12/06/22 13:14	1
Manganese	57		0.61	0.088	mg/Kg	☼	12/01/22 14:51	12/06/22 13:14	1
Nickel	24		0.61	0.18	mg/Kg	☼	12/01/22 14:51	12/06/22 13:14	1
Potassium	790		30	11	mg/Kg	☼	12/01/22 14:51	12/06/22 13:14	1
Selenium	<0.61		0.61	0.36	mg/Kg	☼	12/01/22 14:51	12/06/22 13:14	1
Silver	0.41		0.30	0.078	mg/Kg	☼	12/01/22 14:51	12/06/22 13:14	1
Sodium	2200		61	9.0	mg/Kg	☼	12/01/22 14:51	12/06/22 13:14	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	12/01/22 14:51	12/06/22 13:14	1
Vanadium	24		0.30	0.072	mg/Kg	☼	12/01/22 14:51	12/06/22 13:14	1
Zinc	55		1.2	0.53	mg/Kg	☼	12/01/22 14:51	12/06/22 16:39	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.16	J	0.50	0.050	mg/L		12/01/22 16:54	12/02/22 17:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/01/22 16:54	12/02/22 17:51	1
Boron	1.5	J B *+	1.6	0.050	mg/L		12/01/22 16:54	12/02/22 17:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/01/22 16:54	12/02/22 17:51	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225546-1

Client Sample ID: 1401V3-25-B03 (0-6)

Lab Sample ID: 500-225546-1

Date Collected: 11/16/22 14:10

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 78.3

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:51	1
Cobalt	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:51	1
Iron	2.4		0.40	0.20	mg/L		12/01/22 16:54	12/02/22 17:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/01/22 16:54	12/02/22 17:51	1
Manganese	0.052		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:51	1
Nickel	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:51	1
Selenium	<0.050		0.050	0.020	mg/L		12/01/22 16:54	12/02/22 17:51	1
Silver	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:51	1
Zinc	<0.50		0.50	0.020	mg/L		12/01/22 16:54	12/02/22 17:51	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/01/22 16:54	12/02/22 17:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/01/22 16:54	12/02/22 17:26	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 10:45	12/05/22 10:45	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.020	0.0067	mg/Kg	☆	12/02/22 15:35	12/05/22 07:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.6		0.2	0.2	SU			11/21/22 17:50	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225546-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225546-1

GC/MS VOA

Pre Prep Batch: 372825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225546-1	1401V3-25-B03 (0-6)	Total/NA	Solid	Frozen Preserve	
500-225546-2	1401V3-25-B02 (0-6)	Total/NA	Solid	Frozen Preserve	

Prep Batch: 372909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225546-2	1401V3-25-B02 (0-6)	Total/NA	Solid	5035	372825
MB 310-372909/1-A	Method Blank	Total/NA	Solid	5035	
LCS 310-372909/2-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 372912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225546-2	1401V3-25-B02 (0-6)	Total/NA	Solid	8260D	372909
MB 310-372909/1-A	Method Blank	Total/NA	Solid	8260D	372909
LCS 310-372909/2-A	Lab Control Sample	Total/NA	Solid	8260D	372909

Prep Batch: 373171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225546-1	1401V3-25-B03 (0-6)	Total/NA	Solid	5035	372825
MB 310-373171/1-A	Method Blank	Total/NA	Solid	5035	
LCS 310-373171/2-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 373178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225546-1	1401V3-25-B03 (0-6)	Total/NA	Solid	8260D	373171
MB 310-373171/1-A	Method Blank	Total/NA	Solid	8260D	373171
LCS 310-373171/2-A	Lab Control Sample	Total/NA	Solid	8260D	373171

GC/MS Semi VOA

Prep Batch: 687027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225546-1	1401V3-25-B03 (0-6)	Total/NA	Solid	3541	
500-225546-2	1401V3-25-B02 (0-6)	Total/NA	Solid	3541	
MB 500-687027/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-687027/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 687897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225546-1	1401V3-25-B03 (0-6)	Total/NA	Solid	8270D	687027
500-225546-2	1401V3-25-B02 (0-6)	Total/NA	Solid	8270D	687027

Analysis Batch: 687960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-687027/1-A	Method Blank	Total/NA	Solid	8270D	687027
LCS 500-687027/2-A	Lab Control Sample	Total/NA	Solid	8270D	687027

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225546-1

Metals

Leach Batch: 687548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225546-1	1401V3-25-B03 (0-6)	TCLP	Solid	1311	
500-225546-2	1401V3-25-B02 (0-6)	TCLP	Solid	1311	
LB 500-687548/1-B	Method Blank	TCLP	Solid	1311	
LB 500-687548/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 687561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225546-2	1401V3-25-B02 (0-6)	SPLP East	Solid	1312	
LB 500-687561/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 687787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225546-1	1401V3-25-B03 (0-6)	Total/NA	Solid	3050B	
500-225546-2	1401V3-25-B02 (0-6)	Total/NA	Solid	3050B	
MB 500-687787/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-687787/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 687802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225546-1	1401V3-25-B03 (0-6)	TCLP	Solid	3010A	687548
500-225546-2	1401V3-25-B02 (0-6)	TCLP	Solid	3010A	687548
LB 500-687548/1-B	Method Blank	TCLP	Solid	3010A	687548
LCS 500-687802/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 687806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225546-2	1401V3-25-B02 (0-6)	SPLP East	Solid	3010A	687561
LB 500-687561/1-B	Method Blank	SPLP East	Solid	3010A	687561
LCS 500-687806/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 687929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225546-1	1401V3-25-B03 (0-6)	TCLP	Solid	7470A	687548
500-225546-2	1401V3-25-B02 (0-6)	TCLP	Solid	7470A	687548
LB 500-687548/1-C	Method Blank	TCLP	Solid	7470A	687548
MB 500-687929/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-687929/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 687933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225546-1	1401V3-25-B03 (0-6)	Total/NA	Solid	7471B	
500-225546-2	1401V3-25-B02 (0-6)	Total/NA	Solid	7471B	
MB 500-687933/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-687933/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 688208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225546-1	1401V3-25-B03 (0-6)	TCLP	Solid	6010B	687802
500-225546-2	1401V3-25-B02 (0-6)	TCLP	Solid	6010B	687802
LB 500-687548/1-B	Method Blank	TCLP	Solid	6010B	687802
LCS 500-687802/2-A	Lab Control Sample	Total/NA	Solid	6010B	687802

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225546-1

Metals

Analysis Batch: 688226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225546-1	1401V3-25-B03 (0-6)	Total/NA	Solid	7471B	687933
500-225546-2	1401V3-25-B02 (0-6)	Total/NA	Solid	7471B	687933
MB 500-687933/12-A	Method Blank	Total/NA	Solid	7471B	687933
LCS 500-687933/13-A	Lab Control Sample	Total/NA	Solid	7471B	687933

Analysis Batch: 688235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225546-1	1401V3-25-B03 (0-6)	TCLP	Solid	6020A	687802
500-225546-2	1401V3-25-B02 (0-6)	TCLP	Solid	6020A	687802
LB 500-687548/1-B	Method Blank	TCLP	Solid	6020A	687802
LCS 500-687802/2-A	Lab Control Sample	Total/NA	Solid	6020A	687802

Analysis Batch: 688267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225546-1	1401V3-25-B03 (0-6)	TCLP	Solid	7470A	687929
500-225546-2	1401V3-25-B02 (0-6)	TCLP	Solid	7470A	687929
LB 500-687548/1-C	Method Blank	TCLP	Solid	7470A	687929
MB 500-687929/12-A	Method Blank	Total/NA	Solid	7470A	687929
LCS 500-687929/14-A	Lab Control Sample	Total/NA	Solid	7470A	687929

Analysis Batch: 688394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225546-2	1401V3-25-B02 (0-6)	SPLP East	Solid	6010B	687806
LB 500-687561/1-B	Method Blank	SPLP East	Solid	6010B	687806
LCS 500-687806/2-A	Lab Control Sample	Total/NA	Solid	6010B	687806

Analysis Batch: 688504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225546-1	1401V3-25-B03 (0-6)	Total/NA	Solid	6010B	687787
500-225546-2	1401V3-25-B02 (0-6)	Total/NA	Solid	6010B	687787
MB 500-687787/1-A	Method Blank	Total/NA	Solid	6010B	687787
LCS 500-687787/2-A	Lab Control Sample	Total/NA	Solid	6010B	687787

Analysis Batch: 688665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225546-1	1401V3-25-B03 (0-6)	Total/NA	Solid	6010B	687787
500-225546-2	1401V3-25-B02 (0-6)	Total/NA	Solid	6010B	687787

General Chemistry

Analysis Batch: 686396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225546-1	1401V3-25-B03 (0-6)	Total/NA	Solid	9045D	
500-225546-2	1401V3-25-B02 (0-6)	Total/NA	Solid	9045D	
LCS 500-686396/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-686396/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 687331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225546-1	1401V3-25-B03 (0-6)	Total/NA	Solid	Moisture	
500-225546-2	1401V3-25-B02 (0-6)	Total/NA	Solid	Moisture	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225546-1

General Chemistry (Continued)

Analysis Batch: 687331 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225546-1 DU	1401V3-25-B03 (0-6)	Total/NA	Solid	Moisture	

1

2

3

4

5

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12

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14

15

Surrogate Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225546-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (77-120)	DBFM (80-123)	TOL (76-120)
500-225546-1	1401V3-25-B03 (0-6)	95	112	93
500-225546-2	1401V3-25-B02 (0-6)	93	110	93
LCS 310-372909/2-A	Lab Control Sample	102	100	98
LCS 310-373171/2-A	Lab Control Sample	105	98	98
MB 310-372909/1-A	Method Blank	96	108	92
MB 310-373171/1-A	Method Blank	96	106	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-225546-1	1401V3-25-B03 (0-6)	50	61	41	59	112	71
500-225546-2	1401V3-25-B02 (0-6)	61	65	41	48	104	72
LCS 500-687027/2-A	Lab Control Sample	97	129	94	115	124	99
MB 500-687027/1-A	Method Blank	92	126	94	107	122	74

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

TBP = 2,4,6-Tribromophenol (Surr)

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225546-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-372909/1-A
Matrix: Solid
Analysis Batch: 372912

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372909

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.098		0.098	0.018	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Benzene	<0.0098		0.0098	0.0018	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Bromodichloromethane	<0.0098		0.0098	0.00076	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Bromoform	<0.020		0.020	0.0013	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Bromomethane	<0.039		0.039	0.0031	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
2-Butanone (MEK)	<0.039		0.039	0.0029	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Carbon disulfide	<0.0098		0.0098	0.0024	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Carbon tetrachloride	<0.0098		0.0098	0.0027	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Chlorobenzene	<0.0098		0.0098	0.0015	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Chloroethane	<0.039		0.039	0.0071	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Chloroform	<0.0098		0.0098	0.0033	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Chloromethane	<0.039		0.039	0.0065	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
cis-1,2-Dichloroethene	<0.0098		0.0098	0.0015	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
cis-1,3-Dichloropropene	<0.0098		0.0098	0.0011	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Dibromochloromethane	<0.0098		0.0098	0.00043	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
1,1-Dichloroethane	<0.0098		0.0098	0.00084	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
1,2-Dichloroethane	<0.0098		0.0098	0.00061	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
1,1-Dichloroethene	<0.0098		0.0098	0.0014	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
1,2-Dichloropropane	<0.0098		0.0098	0.00084	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
1,3-Dichloropropene, Total	<0.020		0.020	0.0022	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Ethylbenzene	<0.0098		0.0098	0.0047	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
2-Hexanone	<0.039		0.039	0.0045	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Methylene Chloride	<0.098		0.098	0.057	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
4-Methyl-2-pentanone (MIBK)	<0.039		0.039	0.0033	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Methyl tert-butyl ether	<0.0098		0.0098	0.00043	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Styrene	<0.0098		0.0098	0.0069	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
1,1,2,2-Tetrachloroethane	<0.0098		0.0098	0.00069	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Tetrachloroethene	<0.0098		0.0098	0.0019	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Toluene	<0.0098		0.0098	0.0065	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
trans-1,2-Dichloroethene	<0.0098		0.0098	0.0012	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
trans-1,3-Dichloropropene	<0.0098		0.0098	0.0011	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
1,1,1-Trichloroethane	<0.0098		0.0098	0.00090	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
1,1,2-Trichloroethane	<0.0098		0.0098	0.00063	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Trichloroethene	<0.0098		0.0098	0.0027	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Vinyl acetate	<0.020		0.020	0.0033	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Vinyl chloride	<0.020		0.020	0.0069	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Xylenes, Total	<0.020		0.020	0.0071	mg/Kg		11/23/22 08:09	11/24/22 05:36	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	96		77 - 120	11/23/22 08:09	11/24/22 05:36	1
Dibromofluoromethane (Surr)	108		80 - 123	11/23/22 08:09	11/24/22 05:36	1
Toluene-d8 (Surr)	92		76 - 120	11/23/22 08:09	11/24/22 05:36	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225546-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-372909/2-A
Matrix: Solid
Analysis Batch: 372912

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372909

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.188	0.176		mg/Kg		94	52 - 150
Benzene	0.0939	0.0865		mg/Kg		92	77 - 134
Bromodichloromethane	0.0939	0.0828		mg/Kg		88	78 - 122
Bromoform	0.0939	0.0880		mg/Kg		94	72 - 122
2-Butanone (MEK)	0.188	0.196		mg/Kg		105	60 - 150
Carbon disulfide	0.0939	0.0796		mg/Kg		85	61 - 142
Carbon tetrachloride	0.0939	0.0778		mg/Kg		83	77 - 127
Chlorobenzene	0.0939	0.0772		mg/Kg		82	76 - 120
Chloroform	0.0939	0.0764		mg/Kg		81	78 - 127
cis-1,2-Dichloroethene	0.0939	0.0855		mg/Kg		91	74 - 136
cis-1,3-Dichloropropene	0.0939	0.0846		mg/Kg		90	79 - 126
Dibromochloromethane	0.0939	0.0860		mg/Kg		92	78 - 122
1,1-Dichloroethane	0.0939	0.0881		mg/Kg		94	74 - 137
1,2-Dichloroethane	0.0939	0.0853		mg/Kg		91	79 - 132
1,1-Dichloroethene	0.0939	0.0760		mg/Kg		81	62 - 130
1,2-Dichloropropane	0.0939	0.0905		mg/Kg		96	78 - 135
Ethylbenzene	0.0939	0.0796		mg/Kg		85	78 - 122
2-Hexanone	0.188	0.186		mg/Kg		99	73 - 134
Methylene Chloride	0.0939	0.0959	J	mg/Kg		102	55 - 150
4-Methyl-2-pentanone (MIBK)	0.188	0.194		mg/Kg		103	75 - 135
Methyl tert-butyl ether	0.0939	0.0888		mg/Kg		95	73 - 135
Styrene	0.0939	0.0812		mg/Kg		87	75 - 120
1,1,2,2-Tetrachloroethane	0.0939	0.0850		mg/Kg		91	80 - 127
Tetrachloroethene	0.0939	0.0697		mg/Kg		74	72 - 121
Toluene	0.0939	0.0793		mg/Kg		84	77 - 121
trans-1,2-Dichloroethene	0.0939	0.0822		mg/Kg		88	71 - 134
trans-1,3-Dichloropropene	0.0939	0.0781		mg/Kg		83	77 - 122
1,1,1-Trichloroethane	0.0939	0.0813		mg/Kg		87	79 - 132
1,1,2-Trichloroethane	0.0939	0.0908		mg/Kg		97	80 - 124
Trichloroethene	0.0939	0.0851		mg/Kg		91	76 - 132
Vinyl acetate	0.188	0.0350	*-	mg/Kg		19	37 - 150
Xylenes, Total	0.188	0.159		mg/Kg		85	76 - 124

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		77 - 120
Dibromofluoromethane (Surr)	100		80 - 123
Toluene-d8 (Surr)	98		76 - 120

Lab Sample ID: MB 310-373171/1-A
Matrix: Solid
Analysis Batch: 373178

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373171

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	0.0240	J	0.11	0.020	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
Benzene	<0.011		0.011	0.0019	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
Bromodichloromethane	<0.011		0.011	0.00083	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
Bromoform	<0.021		0.021	0.0014	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
Bromomethane	<0.043		0.043	0.0034	mg/Kg		11/29/22 07:51	11/29/22 10:08	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225546-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-373171/1-A
Matrix: Solid
Analysis Batch: 373178

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373171

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Butanone (MEK)	<0.043		0.043	0.0032	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
Carbon disulfide	<0.011		0.011	0.0026	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
Carbon tetrachloride	<0.011		0.011	0.0030	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
Chlorobenzene	<0.011		0.011	0.0016	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
Chloroethane	<0.043		0.043	0.0077	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
Chloroform	<0.011		0.011	0.0036	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
Chloromethane	<0.043		0.043	0.0070	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
cis-1,2-Dichloroethene	<0.011		0.011	0.0016	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
cis-1,3-Dichloropropene	<0.011		0.011	0.0012	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
Dibromochloromethane	<0.011		0.011	0.00047	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
1,1-Dichloroethane	<0.011		0.011	0.00091	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
1,2-Dichloroethane	<0.011		0.011	0.00066	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
1,1,1-Dichloroethane	<0.011		0.011	0.0015	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
1,2-Dichloropropane	<0.011		0.011	0.00091	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
1,3-Dichloropropane, Total	<0.021		0.021	0.0023	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
Ethylbenzene	<0.011		0.011	0.0051	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
2-Hexanone	<0.043		0.043	0.0049	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
Methylene Chloride	<0.11		0.11	0.062	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
4-Methyl-2-pentanone (MIBK)	<0.043		0.043	0.0036	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
Methyl tert-butyl ether	<0.011		0.011	0.00047	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
Styrene	<0.011		0.011	0.0074	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
1,1,2,2-Tetrachloroethane	<0.011		0.011	0.00074	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
Tetrachloroethene	<0.011		0.011	0.0020	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
Toluene	<0.011		0.011	0.0070	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
trans-1,2-Dichloroethene	<0.011		0.011	0.0013	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
trans-1,3-Dichloropropene	<0.011		0.011	0.0012	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
1,1,1-Trichloroethane	<0.011		0.011	0.00098	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
1,1,2-Trichloroethane	<0.011		0.011	0.00068	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
Trichloroethene	<0.011		0.011	0.0030	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
Vinyl acetate	<0.021		0.021	0.0036	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
Vinyl chloride	<0.021		0.021	0.0074	mg/Kg		11/29/22 07:51	11/29/22 10:08	1
Xylenes, Total	<0.021		0.021	0.0077	mg/Kg		11/29/22 07:51	11/29/22 10:08	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	96		77 - 120	11/29/22 07:51	11/29/22 10:08	1
Dibromofluoromethane (Surr)	106		80 - 123	11/29/22 07:51	11/29/22 10:08	1
Toluene-d8 (Surr)	91		76 - 120	11/29/22 07:51	11/29/22 10:08	1

Lab Sample ID: LCS 310-373171/2-A
Matrix: Solid
Analysis Batch: 373178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373171

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0695	0.0708		mg/Kg		102	77 - 134
Bromodichloromethane	0.0695	0.0658		mg/Kg		95	78 - 122
Bromoform	0.0695	0.0725		mg/Kg		104	72 - 122
2-Butanone (MEK)	0.139	0.154		mg/Kg		111	60 - 150

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225546-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-373171/2-A
Matrix: Solid
Analysis Batch: 373178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373171

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon disulfide	0.0695	0.0661		mg/Kg		95	61 - 142
Carbon tetrachloride	0.0695	0.0645		mg/Kg		93	77 - 127
Chlorobenzene	0.0695	0.0660		mg/Kg		95	76 - 120
Chloroform	0.0695	0.0628		mg/Kg		90	78 - 127
cis-1,2-Dichloroethene	0.0695	0.0703		mg/Kg		101	74 - 136
cis-1,3-Dichloropropene	0.0695	0.0711		mg/Kg		102	79 - 126
Dibromochloromethane	0.0695	0.0700		mg/Kg		101	78 - 122
1,1-Dichloroethane	0.0695	0.0694		mg/Kg		100	74 - 137
1,2-Dichloroethane	0.0695	0.0686		mg/Kg		99	79 - 132
1,1-Dichloroethene	0.0695	0.0622		mg/Kg		89	62 - 130
1,2-Dichloropropane	0.0695	0.0735		mg/Kg		106	78 - 135
Ethylbenzene	0.0695	0.0700		mg/Kg		101	78 - 122
2-Hexanone	0.139	0.145		mg/Kg		104	73 - 134
Methylene Chloride	0.0695	0.0709	J	mg/Kg		102	55 - 150
4-Methyl-2-pentanone (MIBK)	0.139	0.150		mg/Kg		108	75 - 135
Methyl tert-butyl ether	0.0695	0.0690		mg/Kg		99	73 - 135
Styrene	0.0695	0.0718		mg/Kg		103	75 - 120
1,1,2,2-Tetrachloroethane	0.0695	0.0706		mg/Kg		102	80 - 127
Tetrachloroethene	0.0695	0.0641		mg/Kg		92	72 - 121
Toluene	0.0695	0.0655		mg/Kg		94	77 - 121
trans-1,2-Dichloroethene	0.0695	0.0679		mg/Kg		98	71 - 134
trans-1,3-Dichloropropene	0.0695	0.0659		mg/Kg		95	77 - 122
1,1,1-Trichloroethane	0.0695	0.0651		mg/Kg		94	79 - 132
1,1,2-Trichloroethane	0.0695	0.0719		mg/Kg		103	80 - 124
Trichloroethene	0.0695	0.0705		mg/Kg		101	76 - 132
Vinyl acetate	0.139	0.150		mg/Kg		108	37 - 150
Xylenes, Total	0.139	0.140		mg/Kg		101	76 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		77 - 120
Dibromofluoromethane (Surr)	98		80 - 123
Toluene-d8 (Surr)	98		76 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-687027/1-A
Matrix: Solid
Analysis Batch: 687960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		11/28/22 08:54	12/02/22 15:58	1

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225546-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-687027/1-A
Matrix: Solid
Analysis Batch: 687960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687027

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Carbazole	<0.17		0.17	0.083	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Isophorone	<0.17		0.17	0.037	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		11/28/22 08:54	12/02/22 15:58	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225546-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-687027/1-A
Matrix: Solid
Analysis Batch: 687960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Phenol	<0.17		0.17	0.074	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		11/28/22 08:54	12/02/22 15:58	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		11/28/22 08:54	12/02/22 15:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	92		43 - 145	11/28/22 08:54	12/02/22 15:58	1
2-Fluorophenol (Surr)	126		31 - 166	11/28/22 08:54	12/02/22 15:58	1
Nitrobenzene-d5 (Surr)	94		37 - 147	11/28/22 08:54	12/02/22 15:58	1
Phenol-d5 (Surr)	107		30 - 153	11/28/22 08:54	12/02/22 15:58	1
Terphenyl-d14 (Surr)	122		42 - 157	11/28/22 08:54	12/02/22 15:58	1
2,4,6-Tribromophenol (Surr)	74		31 - 143	11/28/22 08:54	12/02/22 15:58	1

Lab Sample ID: LCS 500-687027/2-A
Matrix: Solid
Analysis Batch: 687960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687027

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.42		mg/Kg		107	65 - 124
Acenaphthylene	1.33	1.45		mg/Kg		109	68 - 120
Anthracene	1.33	1.33		mg/Kg		100	70 - 114
Benzo[a]anthracene	1.33	1.51		mg/Kg		113	67 - 122
Benzo[a]pyrene	1.33	1.39		mg/Kg		104	65 - 133
Benzo[b]fluoranthene	1.33	1.30		mg/Kg		98	69 - 129
Benzo[g,h,i]perylene	1.33	1.61		mg/Kg		120	72 - 131
Benzo[k]fluoranthene	1.33	1.28		mg/Kg		96	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.35		mg/Kg		101	60 - 112
Bis(2-chloroethyl)ether	1.33	1.30		mg/Kg		98	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.62		mg/Kg		122	72 - 131
4-Bromophenyl phenyl ether	1.33	1.35		mg/Kg		101	68 - 118
Butyl benzyl phthalate	1.33	1.60		mg/Kg		120	71 - 129
Carbazole	1.33	1.47		mg/Kg		110	65 - 142
4-Chloroaniline	1.33	0.731		mg/Kg		55	30 - 150
4-Chloro-3-methylphenol	1.33	1.48		mg/Kg		111	65 - 122
2-Chloronaphthalene	1.33	1.41		mg/Kg		106	69 - 114
2-Chlorophenol	1.33	1.41		mg/Kg		106	64 - 110
4-Chlorophenyl phenyl ether	1.33	1.38		mg/Kg		103	62 - 119
Chrysene	1.33	1.43		mg/Kg		108	63 - 120
Dibenz(a,h)anthracene	1.33	1.61		mg/Kg		121	64 - 131
Dibenzofuran	1.33	1.41		mg/Kg		106	66 - 115
1,2-Dichlorobenzene	1.33	1.26		mg/Kg		95	62 - 110
1,3-Dichlorobenzene	1.33	1.26		mg/Kg		94	65 - 124
1,4-Dichlorobenzene	1.33	1.28		mg/Kg		96	61 - 110
3,3'-Dichlorobenzidine	1.33	1.09		mg/Kg		82	35 - 128
2,4-Dichlorophenol	1.33	1.33		mg/Kg		99	58 - 120
Diethyl phthalate	1.33	1.36		mg/Kg		102	58 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225546-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-687027/2-A
Matrix: Solid
Analysis Batch: 687960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687027

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dimethylphenol	1.33	1.47		mg/Kg		110	60 - 110
Dimethyl phthalate	1.33	1.37		mg/Kg		103	69 - 116
Di-n-butyl phthalate	1.33	1.39		mg/Kg		104	65 - 120
4,6-Dinitro-2-methylphenol	2.67	0.795		mg/Kg		30	10 - 110
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		12	10 - 100
2,4-Dinitrotoluene	1.33	1.39		mg/Kg		104	69 - 124
2,6-Dinitrotoluene	1.33	1.54		mg/Kg		116	70 - 123
Di-n-octyl phthalate	1.33	1.26		mg/Kg		95	68 - 134
Fluoranthene	1.33	1.31		mg/Kg		98	62 - 120
Fluorene	1.33	1.39		mg/Kg		104	62 - 120
Hexachlorobenzene	1.33	1.38		mg/Kg		103	63 - 124
Hexachlorobutadiene	1.33	1.29		mg/Kg		97	56 - 120
Hexachlorocyclopentadiene	1.33	0.285	J	mg/Kg		21	10 - 133
Hexachloroethane	1.33	1.26		mg/Kg		95	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.70		mg/Kg		128	68 - 130
Isophorone	1.33	1.33		mg/Kg		99	55 - 110
2-Methylnaphthalene	1.33	1.30		mg/Kg		98	69 - 112
2-Methylphenol	1.33	1.56		mg/Kg		117	60 - 120
3 & 4 Methylphenol	1.33	1.45		mg/Kg		109	57 - 120
Naphthalene	1.33	1.29		mg/Kg		97	63 - 110
2-Nitroaniline	1.33	1.50		mg/Kg		113	57 - 124
3-Nitroaniline	1.33	1.10		mg/Kg		83	40 - 122
4-Nitroaniline	1.33	1.32		mg/Kg		99	60 - 160
Nitrobenzene	1.33	1.36		mg/Kg		102	60 - 116
2-Nitrophenol	1.33	1.44		mg/Kg		108	60 - 120
4-Nitrophenol	2.67	2.51		mg/Kg		94	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.39		mg/Kg		104	56 - 118
N-Nitrosodiphenylamine	1.33	1.40		mg/Kg		105	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.32		mg/Kg		99	40 - 124
Pentachlorophenol	2.67	0.805		mg/Kg		30	13 - 112
Phenanthrene	1.33	1.38		mg/Kg		104	62 - 120
Phenol	1.33	1.45		mg/Kg		109	56 - 122
Pyrene	1.33	1.65		mg/Kg		124	61 - 128
1,2,4-Trichlorobenzene	1.33	1.34		mg/Kg		101	66 - 117
2,4,5-Trichlorophenol	1.33	1.30		mg/Kg		97	50 - 120
2,4,6-Trichlorophenol	1.33	1.32		mg/Kg		99	57 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	97		43 - 145
2-Fluorophenol (Surr)	129		31 - 166
Nitrobenzene-d5 (Surr)	94		37 - 147
Phenol-d5 (Surr)	115		30 - 153
Terphenyl-d14 (Surr)	124		42 - 157
2,4,6-Tribromophenol (Surr)	99		31 - 143

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225546-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-687787/1-A
Matrix: Solid
Analysis Batch: 688504

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687787

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Arsenic	<1.0		1.0	0.34	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Barium	<1.0		1.0	0.11	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Beryllium	<0.40		0.40	0.093	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Boron	<5.0		5.0	0.47	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Cadmium	<0.20		0.20	0.036	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Calcium	13.3	J	20	3.4	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Chromium	<1.0		1.0	0.50	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Cobalt	<0.50		0.50	0.13	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Copper	<1.0		1.0	0.28	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Iron	<20		20	10	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Lead	<0.50		0.50	0.23	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Magnesium	9.58	J	10	5.0	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Manganese	<1.0		1.0	0.15	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Nickel	<1.0		1.0	0.29	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Potassium	<50		50	18	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Selenium	<1.0		1.0	0.59	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Silver	<0.50		0.50	0.13	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Sodium	<100		100	15	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Thallium	<1.0		1.0	0.50	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Vanadium	<0.50		0.50	0.12	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Zinc	<2.0		2.0	0.88	mg/Kg		12/01/22 14:51	12/06/22 11:35	1

Lab Sample ID: LCS 500-687787/2-A
Matrix: Solid
Analysis Batch: 688504

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687787

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	46.0		mg/Kg		92	80 - 120
Arsenic	10.0	9.28		mg/Kg		93	80 - 120
Barium	200	202		mg/Kg		101	80 - 120
Beryllium	5.00	4.50		mg/Kg		90	80 - 120
Boron	100	87.0		mg/Kg		87	80 - 120
Cadmium	5.00	4.58		mg/Kg		92	80 - 120
Calcium	1000	990		mg/Kg		99	80 - 120
Chromium	20.0	19.6		mg/Kg		98	80 - 120
Cobalt	50.0	50.0		mg/Kg		100	80 - 120
Copper	25.0	24.6		mg/Kg		99	80 - 120
Iron	100	105		mg/Kg		105	80 - 120
Lead	10.0	9.28		mg/Kg		93	80 - 120
Magnesium	1000	940		mg/Kg		94	80 - 120
Manganese	50.0	47.5		mg/Kg		95	80 - 120
Nickel	50.0	48.3		mg/Kg		97	80 - 120
Potassium	1000	986		mg/Kg		99	80 - 120
Selenium	10.0	8.41		mg/Kg		84	80 - 120
Silver	5.00	4.00		mg/Kg		80	80 - 120
Sodium	1000	998		mg/Kg		100	80 - 120
Thallium	10.0	9.31		mg/Kg		93	80 - 120
Vanadium	50.0	49.1		mg/Kg		98	80 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225546-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-687787/2-A
Matrix: Solid
Analysis Batch: 688504

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687787

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	50.0	47.3		mg/Kg		95	80 - 120

Lab Sample ID: LCS 500-687802/2-A
Matrix: Solid
Analysis Batch: 688208

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687802

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.512		mg/L		102	80 - 120
Beryllium	0.0500	0.0493		mg/L		99	80 - 120
Boron	1.00	1.68	*+	mg/L		168	80 - 120
Cadmium	0.0500	0.0525		mg/L		105	80 - 120
Chromium	0.200	0.194		mg/L		97	80 - 120
Cobalt	0.500	0.514		mg/L		103	80 - 120
Iron	1.00	1.09		mg/L		109	80 - 120
Lead	0.100	0.0923		mg/L		92	80 - 120
Manganese	0.500	0.484		mg/L		97	80 - 120
Nickel	0.500	0.499		mg/L		100	80 - 120
Selenium	0.100	0.112		mg/L		112	80 - 120
Silver	0.0500	0.0525		mg/L		105	80 - 120
Zinc	0.500	0.534		mg/L		107	80 - 120

Lab Sample ID: LCS 500-687806/2-A
Matrix: Solid
Analysis Batch: 688394

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.500	0.485		mg/L		97	80 - 120

Lab Sample ID: LB 500-687548/1-B
Matrix: Solid
Analysis Batch: 688208

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 687802

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		12/01/22 16:54	12/02/22 16:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/01/22 16:54	12/02/22 16:30	1
Boron	0.779	J	1.6	0.050	mg/L		12/01/22 16:54	12/02/22 16:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/01/22 16:54	12/02/22 16:30	1
Chromium	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:30	1
Cobalt	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:30	1
Iron	<0.40		0.40	0.20	mg/L		12/01/22 16:54	12/02/22 16:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/01/22 16:54	12/02/22 16:30	1
Manganese	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:30	1
Nickel	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:30	1
Selenium	<0.050		0.050	0.020	mg/L		12/01/22 16:54	12/02/22 16:30	1
Silver	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:30	1
Zinc	<0.50		0.50	0.020	mg/L		12/01/22 16:54	12/02/22 16:30	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225546-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-687561/1-B
Matrix: Solid
Analysis Batch: 688394

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 687806

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		12/01/22 17:06	12/05/22 22:07	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-687802/2-A
Matrix: Solid
Analysis Batch: 688235

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687802

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.488		mg/L		98	80 - 120
Thallium	0.100	0.109		mg/L		109	80 - 120

Lab Sample ID: LB 500-687548/1-B
Matrix: Solid
Analysis Batch: 688235

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 687802

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/01/22 16:54	12/02/22 15:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/01/22 16:54	12/02/22 15:56	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-687929/12-A
Matrix: Solid
Analysis Batch: 688267

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687929

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 10:45	12/05/22 09:39	1

Lab Sample ID: LCS 500-687929/14-A
Matrix: Solid
Analysis Batch: 688267

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687929

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00184		mg/L		93	80 - 120

Lab Sample ID: LB 500-687548/1-C
Matrix: Solid
Analysis Batch: 688267

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 687929

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 10:45	12/05/22 09:41	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-687933/12-A
Matrix: Solid
Analysis Batch: 688226

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687933

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		12/02/22 15:35	12/05/22 06:38	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225546-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: LCS 500-687933/13-A
Matrix: Solid
Analysis Batch: 688226

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687933

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.149		mg/Kg		90	80 - 120

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225546-1

Client Sample ID: 1401V3-25-B03 (0-6)

Lab Sample ID: 500-225546-1

Date Collected: 11/16/22 14:10

Matrix: Solid

Date Received: 11/16/22 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6010B		1	688208	JJB	EET CHI	12/02/22 17:51
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6020A		1	688235	FXG	EET CHI	12/02/22 17:26
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	7470A			687929	MJG	EET CHI	12/02/22 10:45 - 12/02/22 12:45 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 10:45
Total/NA	Analysis	9045D		1	686396	LWN	EET CHI	11/21/22 17:50
Total/NA	Analysis	Moisture		1	687331	LWN	EET CHI	11/29/22 13:11

Client Sample ID: 1401V3-25-B03 (0-6)

Lab Sample ID: 500-225546-1

Date Collected: 11/16/22 14:10

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372825	MZR8	EET CF	11/17/22 10:00
Total/NA	Prep	5035			373171	MZR8	EET CF	11/29/22 07:51
Total/NA	Analysis	8260D		1	373178	MZR8	EET CF	11/29/22 15:30
Total/NA	Prep	3541			687027	KN	EET CHI	11/28/22 08:54 - 11/28/22 15:30 ¹
Total/NA	Analysis	8270D		1	687897	SS	EET CHI	12/02/22 19:50
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		1	688504	JJB	EET CHI	12/06/22 13:14
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		1	688665	JJB	EET CHI	12/06/22 16:39
Total/NA	Prep	7471B			687933	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 07:30

Client Sample ID: 1401V3-25-B02 (0-6)

Lab Sample ID: 500-225546-2

Date Collected: 11/16/22 14:25

Matrix: Solid

Date Received: 11/16/22 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			687561	EA	EET CHI	11/30/22 10:07 - 12/01/22 04:07 ¹
SPLP East	Prep	3010A			687806	LMB	EET CHI	12/01/22 17:06 - 12/01/22 17:36 ¹
SPLP East	Analysis	6010B		1	688394	JJB	EET CHI	12/05/22 23:36
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6010B		1	688208	JJB	EET CHI	12/02/22 17:55
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6020A		1	688235	FXG	EET CHI	12/02/22 17:29
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	7470A			687929	MJG	EET CHI	12/02/22 10:45 - 12/02/22 12:45 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 10:47

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225546-1

Client Sample ID: 1401V3-25-B02 (0-6)

Lab Sample ID: 500-225546-2

Date Collected: 11/16/22 14:25

Matrix: Solid

Date Received: 11/16/22 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	686396	LWN	EET CHI	11/21/22 17:53
Total/NA	Analysis	Moisture		1	687331	LWN	EET CHI	11/29/22 13:11

Client Sample ID: 1401V3-25-B02 (0-6)

Lab Sample ID: 500-225546-2

Date Collected: 11/16/22 14:25

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372825	MZR8	EET CF	11/17/22 10:00
Total/NA	Prep	5035			372909	MZR8	EET CF	11/23/22 08:09
Total/NA	Analysis	8260D		1	372912	MZR8	EET CF	11/24/22 13:04
Total/NA	Prep	3541			687027	KN	EET CHI	11/28/22 08:54 - 11/28/22 15:30 ¹
Total/NA	Analysis	8270D		1	687897	SS	EET CHI	12/02/22 20:14
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		1	688504	JJB	EET CHI	12/06/22 13:17
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		2	688665	JJB	EET CHI	12/06/22 16:42
Total/NA	Prep	7471B			687933	MJG	EET CHI	12/02/22 15:35
Total/NA	Analysis	7471B		1	688226	MJG	EET CHI	12/05/22 07:32

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225546-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

Laboratory: Eurofins Cedar Falls

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Colorado	Petroleum Storage Tank Program	IA100001 (OR)	09-29-23
Georgia	State	IA100001 (OR)	09-29-23
Illinois	NELAP	200024	11-29-23
Iowa	State	007	12-01-23
Kansas	NELAP	E-10341	01-31-23
Minnesota	NELAP	019-999-319	12-31-22
Minnesota (Petrofund)	State	3349	01-18-24
North Dakota	State	R-186	09-29-23
Oregon	NELAP	IA100001	09-29-23



Environment Testing
America



500-225548 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Chicago</u>			
City/State:	CITY <u>Unv Park</u>	STATE <u>IL</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>11-18-22</u>	TIME <u>1445</u>	Received By: <u>AL</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>1</u> of <u>2</u>	
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
<u>Box VOC040</u>			
Temperature Record			
Coolant:	<input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____	<input type="checkbox"/> NONE	
Thermometer ID:	<u>AL</u>	Correction Factor (°C):	<u>0</u>
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):	<u>1.9</u>	Corrected Temp (°C):	<u>1.9</u>
• Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Chicago</u>			
City/State:	CITY <u>Unv Park</u>	STATE <u>IL</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>11-18-22</u>	TIME <u>1445</u>	Received By: <u>AL</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>2</u> of <u>2</u>	
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
<u>FW 012</u>			
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>AL</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature -- If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>0.7</u>		Corrected Temp (°C): <u>0.7</u>	
Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No			
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g , bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225546-1

Login Number: 225546

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.9,2.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225546-1

Login Number: 225546

List Number: 2

Creator: Kizer, Preston V

List Source: Eurofins Cedar Falls

List Creation: 11/18/22 06:17 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 365 & FAP 870 (Butterfield Road) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

21W 241-403 Ahlstrand, 2S 656 Bob O Link, 21W 080-101 Briarcliff, 21W 122-174 Butterfield, 2S 680-681 Gray (#1401V3-26)

City: Lombard State: IL Zip Code: 60148

County: DuPage Township: Milton

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.83273 Longitude: -88.03957
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): _____ Approximate End Date (mm/dd/yyyy): _____

Estimated Volume of debris (cu. Yd.): 3,571

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov



This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Analytical Data Summary
PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

Key to Data Tables

- MAC = Maximum Allowable Concentration of Chemical Constituent in Uncontaminated Soil Used as Fill Material At Regulated Fill Operations
- mg/kg = Milligrams per kilogram.
- mg/L = Milligrams per liter.
- MSA = Metropolitan Statistical Area
- TACO = Tiered Approach to Corrective Action Objectives
- TCLP = Toxicity Characteristic Leaching Procedure.
- SCGIER = Soil Component of the Groundwater Ingestion Exposure Route
- SPLP = Synthetic Precipitation Leaching Procedure.
- ND = Not detected.
- NA = Not analyzed or not applicable.
- J = Estimated value.
- U = Analyte was analyzed for but not detected.
- PID = Photoionization detector.
- = No PID readings detected above background (within instrument margin of error).

Criteria Qualifiers and Shading

- # = pH is less than 6.25 or greater than 9.0 standard units.
- † = Concentration exceeds the most stringent MAC.
- m = Concentration exceeds the MAC for an MSA.
- * = Concentration exceeds the MAC for Chicago corporate limits.
- c = Concentration exceeds a TACO Tier 1 RO for the Construction Worker Exposure Route.
- r = Concentration exceeds a TACO Tier 1 soil RO for residential properties.
- L = The detected TCLP/SPLP concentration exceeds the TACO Tier 1 RO for the SCGIER.
-  = Concentration exceeds the most stringent MAC, but is below the MAC for an MSA.
-  = Concentration exceeds applicable comparison criteria.

**PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11
CONTAMINANTS OF CONCERN**

SITE	ISGS #1401V3-26 (Residences)				Comparison Criteria					
	1401V3-26-B01		1401V3-26-B03		MACs			TACO		
BORING	1401V3-26-B01		1401V3-26-B03		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1401V3-26-B01 (0-5)	1401V3-26-B01 (5-10)	1401V3-26-B03 (0-5)	1401V3-26-B03 (5-10)						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-5	5-10	0-5	5-10						
pH	7.2	8.5	7.6	7.1						
PID (meter units)	--	--	--	--						
VOCs (mg/kg)										
2-Butanone (MEK)	ND U	ND U	ND U	0.0043 J	--	--	--	--	--	--
Acetone	ND U	ND U	ND U	0.026 J	25	--	--	70,000	100,000	--
SVOCs (mg/kg)										
Benzo(a)anthracene	ND U	ND U	0.0088 J	ND U	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	ND UJ	ND UJ	0.012 J	ND UJ	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	ND UJ	ND UJ	0.015 J	ND UJ	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	ND UJ	ND UJ	ND UJ	ND UJ	--	--	4.4	--	--	--
Benzo(k)fluoranthene	ND UJ	ND UJ	ND UJ	ND UJ	9	--	8.1	9	1,700	--
Chrysene	ND U	ND U	ND U	ND U	88	--	11	88	17,000	--
Dibenzo(a,h)anthracene	ND UJ	ND UJ	ND UJ	ND UJ	0.09	0.42	1	0.42	17	--
Fluoranthene	ND UJ	ND UJ	0.012 J	ND UJ	3,100	--	28	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND UJ	ND UJ	ND UJ	ND UJ	0.9	1.6	5.8	1.6	170	--
Naphthalene	0.0084 J	0.012 J	0.0064 J	0.0088 J	1.8	--	0.26	170	1.8	--
Phenanthrene	ND U	ND U	ND U	ND U	--	--	15	--	--	--
Pyrene	ND U	ND U	0.011 J	ND U	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)										
Antimony	0.56 J	0.30 J	0.62 J	0.73 J	5	--	--	31	82	--
Arsenic	10	3.6	11	10	11.3	13	--	13	61	--
Barium	41	8.3	29	48	1,500	--	--	5,500	14,000	--
Beryllium	0.67	0.36	0.71	0.81	22	--	--	160	410	--
Boron	8.7	6.2	8.2	7.6	40	--	--	16,000	41,000	--
Cadmium	0.20	0.23	0.25	0.19	5.2	--	--	78	200	--
Calcium	71,000	86,000	45,000	28,000	--	--	--	--	--	--
Chromium	13	5.8	13	16	21	--	--	230	690	--
Cobalt	11	5.7	11	14	20	--	--	4,700	12,000	--
Copper	24	17	28	24	2,900	--	--	2,900	8,200	--
Iron	23,000 †m	11,000	21,000 †m	22,000 †m	15,000	15,900	--	--	--	--
Lead	16	9.5	47	17	107	--	--	400	700	--
Magnesium	43,000	50,000	22,000	17,000	325,000	--	--	--	730,000	--
Manganese	380	200	330	540	630	636	--	1,600	4,100	--
Mercury	0.034	0.014 J	0.030	0.043	0.89	--	--	10	0.1	--
Nickel	26	16	30	34	100	--	--	1,600	4,100	--
Potassium	1,600	850	1,600	1,800	--	--	--	--	--	--
Selenium	ND U	ND U	ND U	ND U	1.3	--	--	390	1,000	--
Silver	0.25 J	0.078 J	0.23 J	0.29 J	4.4	--	--	390	1,000	--
Sodium	160	310	1,700	440	--	--	--	--	--	--
Thallium	0.46 J	ND U	0.32 J	0.42 J	2.6	--	--	6.3	160	--
Vanadium	17	9.6	17	21	550	--	--	550	1,400	--
Zinc	65	74	80	74	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	0.32 J	0.13 J	0.41 J	0.45 J	--	--	--	--	--	2
Cadmium	ND U	0.0028 J	ND U	0.0028 J	--	--	--	--	--	0.005
Cobalt	ND U	0.022 J	ND U	0.022 J	--	--	--	--	--	1
Iron	ND U	ND U	0.31 J	0.22 J	--	--	--	--	--	5
Lead	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	0.64 L	1.2 L	1.1 L	10 L	--	--	--	--	--	0.15
Nickel	ND U	0.028	ND U	0.016 J	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05
Zinc	ND U	0.30 J	ND U	ND U	--	--	--	--	--	5
SPLP Metals (mg/L)										
Lead	NA	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	0.39 L	0.35 L	0.96 L	0.95 L	--	--	--	--	--	0.15

PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11
CONTAMINANTS OF CONCERN

SITE	ISGS #1401V3-26 (Residences)				Comparison Criteria					
	1401V3-26-B04		1401V3-26-B05		MACs			TACO		
BORING					Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1401V3-26-B04 (0-5)	1401V3-26-B04 (5-10)	1401V3-26-B05 (0-5)	1401V3-26-B05 (5-10)						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-5	5-10	0-5	5-10						
pH	7.6	6.6	7.8	7.3						
PID (meter units)	--	--	--	--						
VOCs (mg/kg)										
2-Butanone (MEK)	ND U	0.0050 J	ND U	ND U	--	--	--	--	--	--
Acetone	ND U	0.032 J	ND U	ND U	25	--	--	70,000	100,000	--
SVOCs (mg/kg)										
Benzo(a)anthracene	ND U	ND U	ND U	0.040	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	ND U	ND UJ	ND U	0.065 J	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	ND U	ND UJ	ND U	0.11 J	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	ND U	ND UJ	ND U	0.024 J	--	--	4.4	--	--	--
Benzo(k)fluoranthene	ND U	ND UJ	ND U	0.040 J	9	--	8.1	9	1,700	--
Chrysene	ND U	ND U	ND U	0.061	88	--	11	88	17,000	--
Dibenzo(a,h)anthracene	ND U	ND UJ	ND U	0.0090 J	0.09	0.42	1	0.42	17	--
Fluoranthene	ND UJ	ND UJ	ND UJ	0.088 J	3,100	--	28	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND U	ND UJ	ND U	0.026 J	0.9	1.6	5.8	1.6	170	--
Naphthalene	0.0092 J	ND U	ND U	ND U	1.8	--	0.26	170	1.8	--
Phenanthrene	ND U	ND U	ND U	0.022 J	--	--	15	--	--	--
Pyrene	ND U	ND U	ND U	0.074	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)										
Antimony	0.54 J	0.37 J	0.58 J	0.58 J	5	--	--	31	82	--
Arsenic	10	3.1	9.8	8.3	11.3	13	--	13	61	--
Barium	26	50	55	66	1,500	--	--	5,500	14,000	--
Beryllium	0.66	0.65	0.83	0.79	22	--	--	160	410	--
Boron	9.5	8.8	10	11	40	--	--	16,000	41,000	--
Cadmium	0.24	0.13	0.29	0.77	5.2	--	--	78	200	--
Calcium	67,000	57,000	65,000	64,000	--	--	--	--	--	--
Chromium	13	15	17	20	21	--	--	230	690	--
Cobalt	12	8.9	13	11	20	--	--	4,700	12,000	--
Copper	22	16	25	23	2,900	--	--	2,900	8,200	--
Iron	18,000 †m	16,000 †m	21,000 †m	20,000 †m	15,000	15,900	--	--	--	--
Lead	15	10	33	30	107	--	--	400	700	--
Magnesium	30,000	31,000	32,000	28,000	325,000	--	--	--	730,000	--
Manganese	490	370	510	440	630	636	--	1,600	4,100	--
Mercury	0.024	0.043	0.041	0.028	0.89	--	--	10	0.1	--
Nickel	27	23	32	29	100	--	--	1,600	4,100	--
Potassium	1,800	1,800	2,300	2,300	--	--	--	--	--	--
Selenium	ND U	ND U	ND U	ND U	1.3	--	--	390	1,000	--
Silver	0.21 J	0.22 J	0.28 J	0.26 J	4.4	--	--	390	1,000	--
Sodium	1,000	450	2,100	1,600	--	--	--	--	--	--
Thallium	0.56	0.58 J	ND U	0.40 J	2.6	--	--	6.3	160	--
Vanadium	16	16	22	22	550	--	--	550	1,400	--
Zinc	76	53	69	70	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	0.29 J	0.60	0.45 J	0.64	--	--	--	--	--	2
Cadmium	0.0023 J	ND U	ND U	0.0049 J	--	--	--	--	--	0.005
Cobalt	ND U	0.035	ND U	0.11	--	--	--	--	--	1
Iron	0.33 J	ND U	0.30 J	1.5	--	--	--	--	--	5
Lead	ND U	ND U	ND U	0.0094 L	--	--	--	--	--	0.0075
Manganese	1.8 L	5.9 L	1.1 L	14 L	--	--	--	--	--	0.15
Nickel	0.016 J	0.029	ND U	0.082	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05
Zinc	ND U	ND U	ND U	0.046 J	--	--	--	--	--	5
SPLP Metals (mg/L)										
Lead	NA	NA	NA	0.16 L	--	--	--	--	--	0.0075
Manganese	1.1 L	0.23 L	1.3 L	2.6 L	--	--	--	--	--	0.15

**PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11
CONTAMINANTS OF CONCERN**

SITE	ISGS #1401V3-26 (Residences)				Comparison Criteria					
	1401V3-26-B06		1401V3-26-B08		MACs			TACO		
BORING	1401V3-26-B06		1401V3-26-B08		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1401V3-26-B06 (0-5)	1401V3-26-B06 (5-10)	1401V3-26-B08 (0-5)	1401V3-26-B08 (5-10)						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-5	5-10	0-5	5-10						
pH	8.5	7.7	7.4	6.8						
PID (meter units)	--	--	--	--						
VOCs (mg/kg)										
2-Butanone (MEK)	ND U	ND U	0.0032 J	0.0050 J	--	--	--	--	--	--
Acetone	ND U	ND U	0.019 J	0.039 J	25	--	--	70,000	100,000	--
SVOCs (mg/kg)										
Benzo(a)anthracene	ND U	ND U	ND U	ND U	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	ND U	ND U	ND U	0.0086 J	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	ND U	ND U	ND U	0.011 J	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	ND U	ND U	ND U	ND U	--	--	4.4	--	--	--
Benzo(k)fluoranthene	ND U	ND U	ND U	ND U	9	--	8.1	9	1,700	--
Chrysene	ND U	ND U	ND U	ND U	88	--	11	88	17,000	--
Dibenzo(a,h)anthracene	ND U	ND U	ND U	ND U	0.09	0.42	1	0.42	17	--
Fluoranthene	ND UJ	ND UJ	ND UJ	0.0080 J	3,100	--	28	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND U	ND U	ND U	ND U	0.9	1.6	5.8	1.6	170	--
Naphthalene	ND U	ND U	ND U	0.0077 J	1.8	--	0.26	170	1.8	--
Phenanthrene	ND U	ND U	ND U	ND U	--	--	15	--	--	--
Pyrene	ND U	ND U	ND U	ND U	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)										
Antimony	0.66 J	0.64 J	0.56 J	0.62 J	5	--	--	31	82	--
Arsenic	9.7	10	9.3 J	9.1	11.3	13	--	13	61	--
Barium	44	41	38	62	1,500	--	--	5,500	14,000	--
Beryllium	0.83	0.70	0.71	0.94	22	--	--	160	410	--
Boron	10	9.9	11 J	8.9	40	--	--	16,000	41,000	--
Cadmium	0.20	0.16	0.23	0.15	5.2	--	--	78	200	--
Calcium	34,000	76,000	64,000	18,000	--	--	--	--	--	--
Chromium	16	13	14	19	21	--	--	230	690	--
Cobalt	13	13	13	15	20	--	--	4,700	12,000	--
Copper	26	24	26 J	23	2,900	--	--	2,900	8,200	--
Iron	20,000 †m	24,000 †m	19,000 †m	23,000 †m	15,000	15,900	--	--	--	--
Lead	18	16	16 J	20	107	--	--	400	700	--
Magnesium	21,000	46,000	29,000	12,000	325,000	--	--	--	730,000	--
Manganese	370	330	350	460	630	636	--	1,600	4,100	--
Mercury	0.039	0.033	0.028	0.063	0.89	--	--	10	0.1	--
Nickel	32	29	30	35	100	--	--	1,600	4,100	--
Potassium	2,200	2,000	2,300 J	2,700	--	--	--	--	--	--
Selenium	0.42 J	ND U	ND UJ	0.51 J	1.3	--	--	390	1,000	--
Silver	0.27 J	0.20 J	0.24 J	0.34	4.4	--	--	390	1,000	--
Sodium	690	660	970	600	--	--	--	--	--	--
Thallium	0.43 J	0.63	0.42 J	ND U	2.6	--	--	6.3	160	--
Vanadium	22	18	19	25	550	--	--	550	1,400	--
Zinc	64	58	66	69	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	0.38 J	0.23 J	0.52	0.70	--	--	--	--	--	2
Cadmium	ND U	0.0026 J	0.0024 J	ND U	--	--	--	--	--	0.005
Cobalt	ND U	0.038	ND U	0.064	--	--	--	--	--	1
Iron	0.56	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	0.67 L	3.9 L	4.7 L	10 L	--	--	--	--	--	0.15
Nickel	ND U	0.035	ND U	0.047	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05
Zinc	ND U	ND U	ND U	0.079 J	--	--	--	--	--	5
SPLP Metals (mg/L)										
Lead	NA	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	0.60 L	0.72 L	1.7 L	0.92 L	--	--	--	--	--	0.15

**PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11
CONTAMINANTS OF CONCERN**

SITE	ISGS #1401V3-26 (Residences)			Comparison Criteria					
	1401V3-26-B09		1401V3-26-B10	MACs			TACO		
BORING	1401V3-26-B09		1401V3-26-B10	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1401V3-26-B09 (0-5)	1401V3-26-B09 (5-10)	1401V3-26-B10 (0-6)						
MATRIX	Soil	Soil	Soil						
DEPTH (feet)	0-5	5-10	0-6						
pH	7.4	6.7	8.1						
PID (meter units)	--	--	--						
VOCs (mg/kg)									
2-Butanone (MEK)	0.0069 J	0.0066 J	ND U	--	--	--	--	--	--
Acetone	0.031 J	0.019 J	ND U	25	--	--	70,000	100,000	--
SVOCs (mg/kg)									
Benzo(a)anthracene	ND U	ND U	ND U	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	ND U	ND U	ND U	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	ND U	ND U	ND U	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	ND UJ	ND U	ND U	--	--	4.4	--	--	--
Benzo(k)fluoranthene	ND U	ND U	ND U	9	--	8.1	9	1,700	--
Chrysene	ND U	ND U	ND U	88	--	11	88	17,000	--
Dibenzo(a,h)anthracene	ND UJ	ND U	ND U	0.09	0.42	1	0.42	17	--
Fluoranthene	ND UJ	ND UJ	ND U	3,100	--	28	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND UJ	ND U	ND U	0.9	1.6	5.8	1.6	170	--
Naphthalene	ND U	0.0076 J	ND U	1.8	--	0.26	170	1.8	--
Phenanthrene	ND U	ND U	ND U	--	--	15	--	--	--
Pyrene	ND U	ND U	ND UJ	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)									
Antimony	0.57 J	0.43 J	0.55 J	5	--	--	31	82	--
Arsenic	10	9.1	11	11.3	13	--	13	61	--
Barium	52	78	39	1,500	--	--	5,500	14,000	--
Beryllium	0.82	0.88	0.75	22	--	--	160	410	--
Boron	10	5.6	11	40	--	--	16,000	41,000	--
Cadmium	0.21	0.16	ND U	5.2	--	--	78	200	--
Calcium	55,000	10,000	68,000	--	--	--	--	--	--
Chromium	17	16	14	21	--	--	230	690	--
Cobalt	14	12	9.7	20	--	--	4,700	12,000	--
Copper	26	19	24	2,900	--	--	2,900	8,200	--
Iron	21,000 †m	17,000 †m	20,000 †m	15,000	15,900	--	--	--	--
Lead	32	60	14	107	--	--	400	700	--
Magnesium	25,000	6,300	31,000	325,000	--	--	--	730,000	--
Manganese	450	370	340	630	636	--	1,600	4,100	--
Mercury	0.048	0.063	ND U	0.89	--	--	10	0.1	--
Nickel	34	24	27	100	--	--	1,600	4,100	--
Potassium	2,400	2,000	2,000	--	--	--	--	--	--
Selenium	ND U	0.50 J	ND U	1.3	--	--	390	1,000	--
Silver	0.28 J	0.34	0.30	4.4	--	--	390	1,000	--
Sodium	960	240	400	--	--	--	--	--	--
Thallium	ND U	ND U	0.48 J	2.6	--	--	6.3	160	--
Vanadium	22	26	20	550	--	--	550	1,400	--
Zinc	73	71	64	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)									
Barium	0.71	0.67	0.30 J	--	--	--	--	--	2
Cadmium	ND U	ND U	0.0042 J	--	--	--	--	--	0.005
Cobalt	0.015 J	0.044	0.036	--	--	--	--	--	1
Iron	ND U	0.27 J	ND U	--	--	--	--	--	5
Lead	0.0080 L	0.016 L	ND U	--	--	--	--	--	0.0075
Manganese	6.6 L	10 L	3.4 L	--	--	--	--	--	0.15
Nickel	0.016 J	0.026	0.042	--	--	--	--	--	0.1
Selenium	ND U	0.022 J	ND U	--	--	--	--	--	0.05
Zinc	ND U	0.082 J	ND U	--	--	--	--	--	5
SPLP Metals (mg/L)									
Lead	0.22 L	0.20 L	NA	--	--	--	--	--	0.0075
Manganese	2.3 L	0.95 L	0.46 L	--	--	--	--	--	0.15

**PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11
CONTAMINANTS OF CONCERN**

SITE	ISGS #1401V3-26 (Residences)			Comparison Criteria					
	1401V3-26-B11	1401V3-26-B12	1401V3-26-B13	MACs			TACO		
SAMPLE	1401V3-26-B11 (0-6)	1401V3-26-B12 (0-6)	1401V3-26-B13 (0-2)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
MATRIX	Soil	Soil	Soil						
DEPTH (feet)	0-6	0-6	0-2						
pH	7.9	8.2	8.0						
PID (meter units)	--	--	--						
VOCs (mg/kg)									
2-Butanone (MEK)	ND U	ND U	ND U	--	--	--	--	--	--
Acetone	ND U	ND U	ND U	25	--	--	70,000	100,000	--
SVOCs (mg/kg)									
Benzo(a)anthracene	0.0068 J	ND U	0.038	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	0.0090 J	ND U	0.041	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	0.010 J	ND U	0.055	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	ND U	ND U	0.018 J	--	--	4.4	--	--	--
Benzo(k)fluoranthene	ND U	ND U	0.024 J	9	--	8.1	9	1,700	--
Chrysene	ND U	ND U	0.047	88	--	11	88	17,000	--
Dibenzo(a,h)anthracene	ND U	ND U	0.0079 J	0.09	0.42	1	0.42	17	--
Fluoranthene	0.016 J	ND U	0.099	3,100	--	28	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND U	ND U	0.022 J	0.9	1.6	5.8	1.6	170	--
Naphthalene	ND U	ND U	ND U	1.8	--	0.26	170	1.8	--
Phenanthrene	0.016 J	ND U	0.065	--	--	15	--	--	--
Pyrene	0.010 J	ND UJ	0.085	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)									
Antimony	0.46 J	0.52 J	0.36 J	5	--	--	31	82	--
Arsenic	8.8	6.2	10	11.3	13	--	13	61	--
Barium	72	50	46	1,500	--	--	5,500	14,000	--
Beryllium	0.99	0.87	0.77	22	--	--	160	410	--
Boron	11	14	11	40	--	--	16,000	41,000	--
Cadmium	ND U	ND U	ND U	5.2	--	--	78	200	--
Calcium	22,000	62,000	66,000	--	--	--	--	--	--
Chromium	20	19	15	21	--	--	230	690	--
Cobalt	14	19	9.8	20	--	--	4,700	12,000	--
Copper	24	23	25	2,900	--	--	2,900	8,200	--
Iron	22,000 †m	19,000 †m	19,000 †m	15,000	15,900	--	--	--	--
Lead	18	13	14	107	--	--	400	700	--
Magnesium	14,000	24,000	28,000	325,000	--	--	--	730,000	--
Manganese	450	410	300	630	636	--	1,600	4,100	--
Mercury	0.038	ND U	ND U	0.89	--	--	10	0.1	--
Nickel	33	34	26	100	--	--	1,600	4,100	--
Potassium	2,800	2,900	2,000	--	--	--	--	--	--
Selenium	0.37 J	ND U	0.35 J	1.3	--	--	390	1,000	--
Silver	0.46	0.34	0.29	4.4	--	--	390	1,000	--
Sodium	110	680	490	--	--	--	--	--	--
Thallium	ND U	0.35 J	0.56	2.6	--	--	6.3	160	--
Vanadium	28	23	20	550	--	--	550	1,400	--
Zinc	65	59	60	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)									
Barium	0.61	0.44 J	0.36 J	--	--	--	--	--	2
Cadmium	ND U	ND U	0.0039 J	--	--	--	--	--	0.005
Cobalt	ND U	ND U	0.022 J	--	--	--	--	--	1
Iron	ND U	ND U	2.7	--	--	--	--	--	5
Lead	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	0.25 L	0.88 L	3.4 L	--	--	--	--	--	0.15
Nickel	ND U	ND U	0.033	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U	--	--	--	--	--	0.05
Zinc	ND U	ND U	ND U	--	--	--	--	--	5
SPLP Metals (mg/L)									
Lead	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	0.36 L	0.86 L	0.53 L	--	--	--	--	--	0.15



ANALYTICAL REPORT

PREPARED FOR

Attn: Dean Tiebot
WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602
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JOB DESCRIPTION

IDOT - 196-002-WO 13 IL 56

JOB NUMBER

500-225424-1

Eurofins Chicago

Job Notes

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Authorization



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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Job ID: 500-225424-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225424-1

Receipt

The samples were received on 11/14/2022 5:56 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.5° C and 3.6° C.

GC/MS VOA

Method 8260D: The method blank for preparation batch 310-372637 and analytical batch 310-372638 contained Bromomethane above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260D: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 310-372637 and analytical batch 310-372638 recovered outside control limits for the following analyte(s): Vinyl acetate. Vinyl acetate has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not. These results have been reported and qualified.

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 310-372637 and analytical batch 310-372638 recovered outside control limits for the following analytes: Vinyl acetate.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The tailing factor for Pentachlorophenol and Benzidine failed in the DFTPP analysis. The tailing factor was acceptable in the CCVIS. This indicates the system was in control and no corrective action was required. (DFTPP 500-687051/1)

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-687051 was outside the method criteria for the following analyte(s): N-Nitrosodi-n-propylamine, Pyrene and Terphenyl-d14. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The tailing factor for Pentachlorophenol failed in the DFTPP analysis. The tailing factor was acceptable in the CCVIS. This indicates the system was in control and no corrective action was required. (DFTPP 500-686997/1)

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-686997 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-686997 was outside the method criteria for the following analyte(s): Benzo[g,h,i]perylene and Di-n-octyl phthalate. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with preparation batch 500-686640 and analytical batch 500-687276 had 1 analytes outside control limits: 3-Nitroaniline. These results have been reported and qualified.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-689306 was outside the method criteria for the following analyte(s): Terphenyl-d14. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Job ID: 500-225424-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Client Sample ID: 1401V3-26-B13 (0-2)

Lab Sample ID: 500-225424-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.065		0.037	0.0052	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.099		0.037	0.0070	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.085		0.037	0.0075	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.038		0.037	0.0051	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.047		0.037	0.010	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.055		0.037	0.0081	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.024	J	0.037	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.041		0.037	0.0073	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.022	J	0.037	0.0097	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.0079	J	0.037	0.0073	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.018	J	0.037	0.012	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.36	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	10		0.56	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	46		0.56	0.063	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.77		0.22	0.052	mg/Kg	1	✳	6010B	Total/NA
Boron	11	B	2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.19	B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	66000	B	56	9.4	mg/Kg	5	✳	6010B	Total/NA
Chromium	15		0.56	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	9.8		0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Copper	25		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	19000		11	5.8	mg/Kg	1	✳	6010B	Total/NA
Lead	14		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	28000		5.6	2.8	mg/Kg	1	✳	6010B	Total/NA
Manganese	300		0.56	0.081	mg/Kg	1	✳	6010B	Total/NA
Nickel	26		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	2000		28	9.8	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.35	J	0.56	0.33	mg/Kg	1	✳	6010B	Total/NA
Silver	0.29		0.28	0.072	mg/Kg	1	✳	6010B	Total/NA
Sodium	490		56	8.2	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.56		0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Vanadium	20		0.28	0.066	mg/Kg	1	✳	6010B	Total/NA
Zinc	60		1.1	0.49	mg/Kg	1	✳	6010B	Total/NA
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.32	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0039	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	2.7		0.40	0.20	mg/L	1		6010B	TCLP
Manganese	3.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.033		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.53		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.024	B	0.018	0.0059	mg/Kg	1	✳	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-26-B12 (0-6)

Lab Sample ID: 500-225424-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.52	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	6.2		0.57	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	50		0.57	0.065	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.87		0.23	0.053	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Euofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Client Sample ID: 1401V3-26-B12 (0-6) (Continued)

Lab Sample ID: 500-225424-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	14	B	2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.16	B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	62000	B	57	9.6	mg/Kg	5	✳	6010B	Total/NA
Chromium	19		0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	19		0.28	0.074	mg/Kg	1	✳	6010B	Total/NA
Copper	23		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	19000		11	5.9	mg/Kg	1	✳	6010B	Total/NA
Lead	13		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	24000		5.7	2.8	mg/Kg	1	✳	6010B	Total/NA
Manganese	410		0.57	0.082	mg/Kg	1	✳	6010B	Total/NA
Nickel	34		0.57	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	2900		28	10	mg/Kg	1	✳	6010B	Total/NA
Silver	0.34		0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Sodium	680		57	8.4	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.35	J	0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Vanadium	23		0.28	0.067	mg/Kg	1	✳	6010B	Total/NA
Zinc	59		1.1	0.50	mg/Kg	1	✳	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.28	J B	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.88		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.86		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.018	J B	0.019	0.0063	mg/Kg	1	✳	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-26-B11 (0-6)

Lab Sample ID: 500-225424-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.016	J	0.039	0.0054	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.016	J	0.039	0.0072	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.010	J	0.039	0.0078	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.0068	J	0.039	0.0052	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.010	J	0.039	0.0084	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.0090	J	0.039	0.0076	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.46	J	1.1	0.21	mg/Kg	1	✳	6010B	Total/NA
Arsenic	8.8		0.55	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	72		0.55	0.063	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.99		0.22	0.051	mg/Kg	1	✳	6010B	Total/NA
Boron	11	B	2.7	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.15	B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	22000	B	11	1.9	mg/Kg	1	✳	6010B	Total/NA
Chromium	20		0.55	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	14		0.27	0.072	mg/Kg	1	✳	6010B	Total/NA
Copper	24		0.55	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	22000		11	5.7	mg/Kg	1	✳	6010B	Total/NA
Lead	18		0.27	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	14000		5.5	2.7	mg/Kg	1	✳	6010B	Total/NA
Manganese	450		0.55	0.080	mg/Kg	1	✳	6010B	Total/NA
Nickel	33		0.55	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	2800		27	9.7	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.37	J	0.55	0.32	mg/Kg	1	✳	6010B	Total/NA
Silver	0.46		0.27	0.071	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Client Sample ID: 1401V3-26-B11 (0-6) (Continued)

Lab Sample ID: 500-225424-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	110		55	8.1	mg/Kg	1	☼	6010B	Total/NA
Vanadium	28		0.27	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	65		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Barium	0.61		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.29	J B	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.25		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.36		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.038	B	0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-26-B10 (0-6)

Lab Sample ID: 500-225424-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.55	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		0.57	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	39		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.75		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Boron	11	B	2.8	0.27	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.21	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Calcium	68000	B	57	9.6	mg/Kg	5	☼	6010B	Total/NA
Chromium	14		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.7		0.28	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	340		0.57	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		28	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.30		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Sodium	400		57	8.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.48	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	64		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Barium	0.30	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.36	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0042	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.036		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	3.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.042		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.46		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.024	B	0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010B	Metals (ICP)	SW846	EET CHI
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
Frozen Preserve	Freezing Samples	None	EET CF

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225424-1	1401V3-26-B13 (0-2)	Solid	11/14/22 13:42	11/14/22 17:56
500-225424-2	1401V3-26-B12 (0-6)	Solid	11/14/22 13:50	11/14/22 17:56
500-225424-3	1401V3-26-B11 (0-6)	Solid	11/14/22 14:10	11/14/22 17:56
500-225424-4	1401V3-26-B10 (0-6)	Solid	11/14/22 14:25	11/14/22 17:56

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Client Sample ID: 1401V3-26-B13 (0-2)

Lab Sample ID: 500-225424-1

Date Collected: 11/14/22 13:42

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 88.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.053		0.053	0.0098	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
Benzene	<0.0053		0.0053	0.00096	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
Bromodichloromethane	<0.0053		0.0053	0.00042	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
Bromoform	<0.011		0.011	0.00068	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
Bromomethane	<0.021		0.021	0.0017	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
2-Butanone (MEK)	<0.021		0.021	0.0016	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
Carbon disulfide	<0.0053		0.0053	0.0013	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
Carbon tetrachloride	<0.0053		0.0053	0.0015	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
Chlorobenzene	<0.0053		0.0053	0.00082	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
Chloroethane	<0.021		0.021	0.0038	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
Chloroform	<0.0053		0.0053	0.0018	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
Chloromethane	<0.021		0.021	0.0035	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.00080	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.00060	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
Dibromochloromethane	<0.0053		0.0053	0.00023	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
1,1-Dichloroethane	<0.0053		0.0053	0.00046	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
1,2-Dichloroethane	<0.0053		0.0053	0.00033	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
1,1-Dichloroethene	<0.0053		0.0053	0.00075	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
1,2-Dichloropropane	<0.0053		0.0053	0.00046	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
1,3-Dichloropropane, Total	<0.011		0.011	0.0012	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
Ethylbenzene	<0.0053		0.0053	0.0026	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
2-Hexanone	<0.021		0.021	0.0024	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
Methylene Chloride	<0.053		0.053	0.031	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
4-Methyl-2-pentanone (MIBK)	<0.021		0.021	0.0018	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
Methyl tert-butyl ether	<0.0053		0.0053	0.00023	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
Styrene	<0.0053		0.0053	0.0037	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
1,1,2,2-Tetrachloroethane	<0.0053		0.0053	0.00037	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
Tetrachloroethene	<0.0053		0.0053	0.0010	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
Toluene	<0.0053		0.0053	0.0035	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.00065	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.00059	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.00049	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.00034	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
Trichloroethene	<0.0053		0.0053	0.0015	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
Vinyl acetate	<0.011	*1 *	0.011	0.0018	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
Vinyl chloride	<0.011		0.011	0.0037	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1
Xylenes, Total	<0.011		0.011	0.0038	mg/Kg	☼	11/21/22 08:33	11/22/22 09:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		77 - 120	11/21/22 08:33	11/22/22 09:25	1
Dibromofluoromethane (Surr)	108		80 - 123	11/21/22 08:33	11/22/22 09:25	1
Toluene-d8 (Surr)	94		76 - 120	11/21/22 08:33	11/22/22 09:25	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Client Sample ID: 1401V3-26-B13 (0-2)

Lab Sample ID: 500-225424-1

Date Collected: 11/14/22 13:42

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 88.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
3-Nitroaniline	<0.37 *		0.37	0.12	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Phenanthrene	0.065		0.037	0.0052	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Fluoranthene	0.099		0.037	0.0070	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Pyrene	0.085		0.037	0.0075	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Benzo[a]anthracene	0.038		0.037	0.0051	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Chrysene	0.047		0.037	0.010	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Client Sample ID: 1401V3-26-B13 (0-2)

Lab Sample ID: 500-225424-1

Date Collected: 11/14/22 13:42

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 88.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Benzo[b]fluoranthene	0.055		0.037	0.0081	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Benzo[k]fluoranthene	0.024	J	0.037	0.011	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Benzo[a]pyrene	0.041		0.037	0.0073	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Indeno[1,2,3-cd]pyrene	0.022	J	0.037	0.0097	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Dibenz(a,h)anthracene	0.0079	J	0.037	0.0073	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Benzo[g,h,i]perylene	0.018	J	0.037	0.012	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	11/23/22 07:35	12/12/22 22:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	100		31 - 166				11/23/22 07:35	12/12/22 22:07	1
Phenol-d5	93		30 - 153				11/23/22 07:35	12/12/22 22:07	1
Nitrobenzene-d5 (Surr)	78		37 - 147				11/23/22 07:35	12/12/22 22:07	1
2-Fluorobiphenyl (Surr)	92		43 - 145				11/23/22 07:35	12/12/22 22:07	1
2,4,6-Tribromophenol	80		31 - 143				11/23/22 07:35	12/12/22 22:07	1
Terphenyl-d14 (Surr)	139		42 - 157				11/23/22 07:35	12/12/22 22:07	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.36	J	1.1	0.22	mg/Kg	☼	11/23/22 09:41	11/30/22 16:08	1
Arsenic	10		0.56	0.19	mg/Kg	☼	11/23/22 09:41	11/30/22 16:08	1
Barium	46		0.56	0.063	mg/Kg	☼	11/23/22 09:41	11/30/22 16:08	1
Beryllium	0.77		0.22	0.052	mg/Kg	☼	11/23/22 09:41	11/30/22 16:08	1
Boron	11	B	2.8	0.26	mg/Kg	☼	11/23/22 09:41	11/30/22 16:08	1
Cadmium	0.19	B	0.11	0.020	mg/Kg	☼	11/23/22 09:41	11/30/22 16:08	1
Calcium	66000	B	56	9.4	mg/Kg	☼	11/23/22 09:41	12/01/22 11:27	5
Chromium	15		0.56	0.27	mg/Kg	☼	11/23/22 09:41	11/30/22 16:08	1
Cobalt	9.8		0.28	0.073	mg/Kg	☼	11/23/22 09:41	11/30/22 16:08	1
Copper	25		0.56	0.16	mg/Kg	☼	11/23/22 09:41	11/30/22 16:08	1
Iron	19000		11	5.8	mg/Kg	☼	11/23/22 09:41	11/30/22 16:08	1
Lead	14		0.28	0.13	mg/Kg	☼	11/23/22 09:41	11/30/22 16:08	1
Magnesium	28000		5.6	2.8	mg/Kg	☼	11/23/22 09:41	11/30/22 16:08	1
Manganese	300		0.56	0.081	mg/Kg	☼	11/23/22 09:41	11/30/22 16:08	1
Nickel	26		0.56	0.16	mg/Kg	☼	11/23/22 09:41	11/30/22 16:08	1
Potassium	2000		28	9.8	mg/Kg	☼	11/23/22 09:41	11/30/22 16:08	1
Selenium	0.35	J	0.56	0.33	mg/Kg	☼	11/23/22 09:41	11/30/22 16:08	1
Silver	0.29		0.28	0.072	mg/Kg	☼	11/23/22 09:41	11/30/22 16:08	1
Sodium	490		56	8.2	mg/Kg	☼	11/23/22 09:41	11/30/22 16:08	1
Thallium	0.56		0.56	0.28	mg/Kg	☼	11/23/22 09:41	11/30/22 16:08	1
Vanadium	20		0.28	0.066	mg/Kg	☼	11/23/22 09:41	11/30/22 16:08	1
Zinc	60		1.1	0.49	mg/Kg	☼	11/23/22 09:41	11/30/22 16:08	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.36	J	0.50	0.050	mg/L		11/22/22 18:35	11/30/22 16:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 18:35	11/30/22 16:55	1
Boron	0.32	J B	0.50	0.050	mg/L		11/22/22 18:35	11/30/22 16:55	1
Cadmium	0.0039	J	0.0050	0.0020	mg/L		11/22/22 18:35	11/30/22 16:55	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Client Sample ID: 1401V3-26-B13 (0-2)

Lab Sample ID: 500-225424-1

Date Collected: 11/14/22 13:42

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 88.2

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:55	1
Cobalt	0.022	J	0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:55	1
Iron	2.7		0.40	0.20	mg/L		11/22/22 18:35	11/30/22 16:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 18:35	12/01/22 13:44	1
Manganese	3.4		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:55	1
Nickel	0.033		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:55	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 18:35	11/30/22 16:55	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:55	1
Zinc	<0.50		0.50	0.020	mg/L		11/22/22 18:35	11/30/22 16:55	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.53		0.025	0.010	mg/L		11/22/22 19:37	12/01/22 16:14	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 18:35	11/29/22 16:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 18:35	11/29/22 16:33	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 09:15	11/28/22 09:27	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024	B	0.018	0.0059	mg/Kg	☆	11/28/22 16:35	11/29/22 10:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.0		0.2	0.2	SU			11/17/22 18:53	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Client Sample ID: 1401V3-26-B12 (0-6)

Lab Sample ID: 500-225424-2

Date Collected: 11/14/22 13:50

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 82.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.045		0.045	0.0082	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
Benzene	<0.0045		0.0045	0.00080	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
Bromodichloromethane	<0.0045		0.0045	0.00035	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
Bromoform	<0.0089		0.0089	0.00057	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
Bromomethane	<0.018		0.018	0.0014	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
2-Butanone (MEK)	<0.018		0.018	0.0013	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
Carbon disulfide	<0.0045		0.0045	0.0011	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
Carbon tetrachloride	<0.0045		0.0045	0.0013	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
Chlorobenzene	<0.0045		0.0045	0.00069	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
Chloroethane	<0.018		0.018	0.0032	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
Chloroform	<0.0045		0.0045	0.0015	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
Chloromethane	<0.018		0.018	0.0030	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00067	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00050	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
Dibromochloromethane	<0.0045		0.0045	0.00020	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
1,1-Dichloroethane	<0.0045		0.0045	0.00038	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
1,2-Dichloroethane	<0.0045		0.0045	0.00028	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
1,1-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
1,2-Dichloropropane	<0.0045		0.0045	0.00038	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
1,3-Dichloropropene, Total	<0.0089		0.0089	0.00098	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
Ethylbenzene	<0.0045		0.0045	0.0021	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
2-Hexanone	<0.018		0.018	0.0021	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
Methylene Chloride	<0.045		0.045	0.026	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
4-Methyl-2-pentanone (MIBK)	<0.018		0.018	0.0015	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00020	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
Styrene	<0.0045		0.0045	0.0031	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00031	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
Tetrachloroethene	<0.0045		0.0045	0.00085	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
Toluene	<0.0045		0.0045	0.0030	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00055	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00049	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00041	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00029	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
Trichloroethene	<0.0045		0.0045	0.0013	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
Vinyl acetate	<0.0089	*1 *	0.0089	0.0015	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
Vinyl chloride	<0.0089		0.0089	0.0031	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1
Xylenes, Total	<0.0089		0.0089	0.0032	mg/Kg	☼	11/21/22 08:33	11/22/22 09:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		77 - 120	11/21/22 08:33	11/22/22 09:50	1
Dibromofluoromethane (Surr)	110		80 - 123	11/21/22 08:33	11/22/22 09:50	1
Toluene-d8 (Surr)	95		76 - 120	11/21/22 08:33	11/22/22 09:50	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	11/23/22 07:35	11/28/22 19:06	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	11/23/22 07:35	11/28/22 19:06	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/23/22 07:35	11/28/22 19:06	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	11/23/22 07:35	11/28/22 19:06	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	11/23/22 07:35	11/28/22 19:06	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Client Sample ID: 1401V3-26-B12 (0-6)

Lab Sample ID: 500-225424-2

Date Collected: 11/14/22 13:50

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 82.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
Isophorone	<0.20		0.20	0.045	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
3-Nitroaniline	<0.40 *		0.40	0.12	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
Carbazole	<0.20		0.20	0.10	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1
Chrysene	<0.040		0.040	0.011	mg/Kg	✳	11/23/22 07:35	11/28/22 19:06	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Client Sample ID: 1401V3-26-B12 (0-6)

Lab Sample ID: 500-225424-2

Date Collected: 11/14/22 13:50

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 82.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	11/23/22 07:35	11/28/22 19:06	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	11/23/22 07:35	11/28/22 19:06	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/23/22 07:35	11/28/22 19:06	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	11/23/22 07:35	11/28/22 19:06	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	11/23/22 07:35	11/28/22 19:06	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	11/23/22 07:35	11/28/22 19:06	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	11/23/22 07:35	11/28/22 19:06	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	11/23/22 07:35	11/28/22 19:06	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	11/23/22 07:35	11/28/22 19:06	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	11/23/22 07:35	11/28/22 19:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	94		31 - 166				11/23/22 07:35	11/28/22 19:06	1
Phenol-d5	61		30 - 153				11/23/22 07:35	11/28/22 19:06	1
Nitrobenzene-d5 (Surr)	63		37 - 147				11/23/22 07:35	11/28/22 19:06	1
2-Fluorobiphenyl (Surr)	65		43 - 145				11/23/22 07:35	11/28/22 19:06	1
2,4,6-Tribromophenol	60		31 - 143				11/23/22 07:35	11/28/22 19:06	1
Terphenyl-d14 (Surr)	141		42 - 157				11/23/22 07:35	11/28/22 19:06	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.52	J	1.1	0.22	mg/Kg	☼	11/23/22 09:41	11/30/22 16:12	1
Arsenic	6.2		0.57	0.19	mg/Kg	☼	11/23/22 09:41	11/30/22 16:12	1
Barium	50		0.57	0.065	mg/Kg	☼	11/23/22 09:41	11/30/22 16:12	1
Beryllium	0.87		0.23	0.053	mg/Kg	☼	11/23/22 09:41	11/30/22 16:12	1
Boron	14	B	2.8	0.26	mg/Kg	☼	11/23/22 09:41	11/30/22 16:12	1
Cadmium	0.16	B	0.11	0.020	mg/Kg	☼	11/23/22 09:41	11/30/22 16:12	1
Calcium	62000	B	57	9.6	mg/Kg	☼	11/23/22 09:41	12/01/22 11:30	5
Chromium	19		0.57	0.28	mg/Kg	☼	11/23/22 09:41	11/30/22 16:12	1
Cobalt	19		0.28	0.074	mg/Kg	☼	11/23/22 09:41	11/30/22 16:12	1
Copper	23		0.57	0.16	mg/Kg	☼	11/23/22 09:41	11/30/22 16:12	1
Iron	19000		11	5.9	mg/Kg	☼	11/23/22 09:41	11/30/22 16:12	1
Lead	13		0.28	0.13	mg/Kg	☼	11/23/22 09:41	11/30/22 16:12	1
Magnesium	24000		5.7	2.8	mg/Kg	☼	11/23/22 09:41	11/30/22 16:12	1
Manganese	410		0.57	0.082	mg/Kg	☼	11/23/22 09:41	11/30/22 16:12	1
Nickel	34		0.57	0.17	mg/Kg	☼	11/23/22 09:41	11/30/22 16:12	1
Potassium	2900		28	10	mg/Kg	☼	11/23/22 09:41	11/30/22 16:12	1
Selenium	<0.57		0.57	0.33	mg/Kg	☼	11/23/22 09:41	11/30/22 16:12	1
Silver	0.34		0.28	0.073	mg/Kg	☼	11/23/22 09:41	11/30/22 16:12	1
Sodium	680		57	8.4	mg/Kg	☼	11/23/22 09:41	11/30/22 16:12	1
Thallium	0.35	J	0.57	0.28	mg/Kg	☼	11/23/22 09:41	11/30/22 16:12	1
Vanadium	23		0.28	0.067	mg/Kg	☼	11/23/22 09:41	11/30/22 16:12	1
Zinc	59		1.1	0.50	mg/Kg	☼	11/23/22 09:41	11/30/22 16:12	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.44	J	0.50	0.050	mg/L		11/22/22 18:35	11/30/22 16:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 18:35	11/30/22 16:33	1
Boron	0.28	J B	0.50	0.050	mg/L		11/22/22 18:35	11/30/22 16:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 18:35	11/30/22 16:33	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Client Sample ID: 1401V3-26-B12 (0-6)

Lab Sample ID: 500-225424-2

Date Collected: 11/14/22 13:50

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 82.6

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:33	1
Cobalt	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:33	1
Iron	<0.40		0.40	0.20	mg/L		11/22/22 18:35	11/30/22 16:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 18:35	11/30/22 16:33	1
Manganese	0.88		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:33	1
Nickel	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:33	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 18:35	11/30/22 16:33	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:33	1
Zinc	<0.50		0.50	0.020	mg/L		11/22/22 18:35	11/30/22 16:33	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.86		0.025	0.010	mg/L		11/22/22 19:37	12/01/22 16:17	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 18:35	11/29/22 16:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 18:35	11/29/22 16:19	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 09:15	11/28/22 09:16	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J B	0.019	0.0063	mg/Kg	☆	11/28/22 16:35	11/29/22 10:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.2		0.2	0.2	SU			11/17/22 18:55	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Client Sample ID: 1401V3-26-B11 (0-6)

Lab Sample ID: 500-225424-3

Date Collected: 11/14/22 14:10

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 83.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.046		0.046	0.0084	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
Benzene	<0.0046		0.0046	0.00083	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
Bromodichloromethane	<0.0046		0.0046	0.00036	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
Bromoform	<0.0092		0.0092	0.00059	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
Bromomethane	<0.018		0.018	0.0015	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
2-Butanone (MEK)	<0.018		0.018	0.0014	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
Carbon disulfide	<0.0046		0.0046	0.0011	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
Carbon tetrachloride	<0.0046		0.0046	0.0013	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
Chlorobenzene	<0.0046		0.0046	0.00071	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
Chloroethane	<0.018		0.018	0.0033	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
Chloroform	<0.0046		0.0046	0.0016	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
Chloromethane	<0.018		0.018	0.0030	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00069	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00051	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
Dibromochloromethane	<0.0046		0.0046	0.00020	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
1,1-Dichloroethane	<0.0046		0.0046	0.00039	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
1,2-Dichloroethane	<0.0046		0.0046	0.00028	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
1,1-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
1,2-Dichloropropane	<0.0046		0.0046	0.00039	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
1,3-Dichloropropane, Total	<0.0092		0.0092	0.0010	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
Ethylbenzene	<0.0046		0.0046	0.0022	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
2-Hexanone	<0.018		0.018	0.0021	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
Methylene Chloride	<0.046		0.046	0.027	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
4-Methyl-2-pentanone (MIBK)	<0.018		0.018	0.0016	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00020	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
Styrene	<0.0046		0.0046	0.0032	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00032	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
Tetrachloroethene	<0.0046		0.0046	0.00087	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
Toluene	<0.0046		0.0046	0.0030	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00056	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00050	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00042	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00029	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
Trichloroethene	<0.0046		0.0046	0.0013	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
Vinyl acetate	<0.0092	*1 *	0.0092	0.0016	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
Vinyl chloride	<0.0092		0.0092	0.0032	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1
Xylenes, Total	<0.0092		0.0092	0.0033	mg/Kg	☼	11/21/22 08:33	11/22/22 10:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		77 - 120	11/21/22 08:33	11/22/22 10:14	1
Dibromofluoromethane (Surr)	112		80 - 123	11/21/22 08:33	11/22/22 10:14	1
Toluene-d8 (Surr)	92		76 - 120	11/21/22 08:33	11/22/22 10:14	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Client Sample ID: 1401V3-26-B11 (0-6)

Lab Sample ID: 500-225424-3

Date Collected: 11/14/22 14:10

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 83.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
3-Nitroaniline	<0.39	*	0.39	0.12	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Phenanthrene	0.016	J	0.039	0.0054	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Fluoranthene	0.016	J	0.039	0.0072	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Pyrene	0.010	J	0.039	0.0078	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Benzo[a]anthracene	0.0068	J	0.039	0.0052	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Client Sample ID: 1401V3-26-B11 (0-6)

Lab Sample ID: 500-225424-3

Date Collected: 11/14/22 14:10

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 83.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Benzo[b]fluoranthene	0.010	J	0.039	0.0084	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Benzo[a]pyrene	0.0090	J	0.039	0.0076	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	11/23/22 07:35	11/28/22 19:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	85		31 - 166	11/23/22 07:35	11/28/22 19:30	1
Phenol-d5	65		30 - 153	11/23/22 07:35	11/28/22 19:30	1
Nitrobenzene-d5 (Surr)	61		37 - 147	11/23/22 07:35	11/28/22 19:30	1
2-Fluorobiphenyl (Surr)	63		43 - 145	11/23/22 07:35	11/28/22 19:30	1
2,4,6-Tribromophenol	57		31 - 143	11/23/22 07:35	11/28/22 19:30	1
Terphenyl-d14 (Surr)	132		42 - 157	11/23/22 07:35	11/28/22 19:30	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.46	J	1.1	0.21	mg/Kg	☼	11/23/22 09:41	11/30/22 16:15	1
Arsenic	8.8		0.55	0.19	mg/Kg	☼	11/23/22 09:41	11/30/22 16:15	1
Barium	72		0.55	0.063	mg/Kg	☼	11/23/22 09:41	11/30/22 16:15	1
Beryllium	0.99		0.22	0.051	mg/Kg	☼	11/23/22 09:41	11/30/22 16:15	1
Boron	11	B	2.7	0.26	mg/Kg	☼	11/23/22 09:41	11/30/22 16:15	1
Cadmium	0.15	B	0.11	0.020	mg/Kg	☼	11/23/22 09:41	11/30/22 16:15	1
Calcium	22000	B	11	1.9	mg/Kg	☼	11/23/22 09:41	11/30/22 16:15	1
Chromium	20		0.55	0.27	mg/Kg	☼	11/23/22 09:41	11/30/22 16:15	1
Cobalt	14		0.27	0.072	mg/Kg	☼	11/23/22 09:41	11/30/22 16:15	1
Copper	24		0.55	0.15	mg/Kg	☼	11/23/22 09:41	11/30/22 16:15	1
Iron	22000		11	5.7	mg/Kg	☼	11/23/22 09:41	11/30/22 16:15	1
Lead	18		0.27	0.13	mg/Kg	☼	11/23/22 09:41	11/30/22 16:15	1
Magnesium	14000		5.5	2.7	mg/Kg	☼	11/23/22 09:41	11/30/22 16:15	1
Manganese	450		0.55	0.080	mg/Kg	☼	11/23/22 09:41	11/30/22 16:15	1
Nickel	33		0.55	0.16	mg/Kg	☼	11/23/22 09:41	11/30/22 16:15	1
Potassium	2800		27	9.7	mg/Kg	☼	11/23/22 09:41	11/30/22 16:15	1
Selenium	0.37	J	0.55	0.32	mg/Kg	☼	11/23/22 09:41	11/30/22 16:15	1
Silver	0.46		0.27	0.071	mg/Kg	☼	11/23/22 09:41	11/30/22 16:15	1
Sodium	110		55	8.1	mg/Kg	☼	11/23/22 09:41	11/30/22 16:15	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	11/23/22 09:41	11/30/22 16:15	1
Vanadium	28		0.27	0.065	mg/Kg	☼	11/23/22 09:41	11/30/22 16:15	1
Zinc	65		1.1	0.48	mg/Kg	☼	11/23/22 09:41	11/30/22 16:15	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.61		0.50	0.050	mg/L		11/22/22 18:35	11/30/22 16:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 18:35	11/30/22 16:36	1
Boron	0.29	J B	0.50	0.050	mg/L		11/22/22 18:35	11/30/22 16:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 18:35	11/30/22 16:36	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Client Sample ID: 1401V3-26-B11 (0-6)

Lab Sample ID: 500-225424-3

Date Collected: 11/14/22 14:10

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 83.1

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:36	1
Cobalt	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:36	1
Iron	<0.40		0.40	0.20	mg/L		11/22/22 18:35	11/30/22 16:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 18:35	11/30/22 16:36	1
Manganese	0.25		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:36	1
Nickel	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:36	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 18:35	11/30/22 16:36	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:36	1
Zinc	<0.50		0.50	0.020	mg/L		11/22/22 18:35	11/30/22 16:36	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.36		0.025	0.010	mg/L		11/22/22 19:37	12/01/22 16:20	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 18:35	11/29/22 16:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 18:35	11/29/22 16:21	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 09:15	11/28/22 09:18	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038	B	0.017	0.0058	mg/Kg	☆	11/28/22 16:35	11/29/22 10:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.9		0.2	0.2	SU			11/17/22 18:58	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Client Sample ID: 1401V3-26-B10 (0-6)

Lab Sample ID: 500-225424-4

Date Collected: 11/14/22 14:25

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 85.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.041		0.041	0.0075	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
Benzene	<0.0041		0.0041	0.00073	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
Bromodichloromethane	<0.0041		0.0041	0.00032	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
Bromoform	<0.0081		0.0081	0.00052	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
Bromomethane	<0.016		0.016	0.0013	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
2-Butanone (MEK)	<0.016		0.016	0.0012	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
Carbon disulfide	<0.0041		0.0041	0.00097	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
Carbon tetrachloride	<0.0041		0.0041	0.0011	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
Chlorobenzene	<0.0041		0.0041	0.00063	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
Chloroethane	<0.016		0.016	0.0029	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
Chloroform	<0.0041		0.0041	0.0014	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
Chloromethane	<0.016		0.016	0.0027	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00061	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00045	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
Dibromochloromethane	<0.0041		0.0041	0.00018	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
1,1-Dichloroethane	<0.0041		0.0041	0.00035	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
1,2-Dichloroethane	<0.0041		0.0041	0.00025	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
1,1-Dichloroethene	<0.0041		0.0041	0.00057	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
1,2-Dichloropropane	<0.0041		0.0041	0.00035	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
1,3-Dichloropropane, Total	<0.0081		0.0081	0.00089	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
Ethylbenzene	<0.0041		0.0041	0.0019	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
2-Hexanone	<0.016		0.016	0.0019	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
Methylene Chloride	<0.041		0.041	0.024	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
4-Methyl-2-pentanone (MIBK)	<0.016		0.016	0.0014	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00018	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
Styrene	<0.0041		0.0041	0.0028	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00028	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
Tetrachloroethene	<0.0041		0.0041	0.00077	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
Toluene	<0.0041		0.0041	0.0027	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00050	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00045	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00037	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00026	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
Vinyl acetate	<0.0081	*1 *	0.0081	0.0014	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
Vinyl chloride	<0.0081		0.0081	0.0028	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1
Xylenes, Total	<0.0081		0.0081	0.0029	mg/Kg	☼	11/21/22 08:33	11/22/22 10:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		77 - 120	11/21/22 08:33	11/22/22 10:39	1
Dibromofluoromethane (Surr)	110		80 - 123	11/21/22 08:33	11/22/22 10:39	1
Toluene-d8 (Surr)	94		76 - 120	11/21/22 08:33	11/22/22 10:39	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Client Sample ID: 1401V3-26-B10 (0-6)

Lab Sample ID: 500-225424-4

Date Collected: 11/14/22 14:25

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 85.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
3-Nitroaniline	<0.38	*	0.38	0.12	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	11/23/22 07:35	11/28/22 19:53	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Client Sample ID: 1401V3-26-B10 (0-6)

Lab Sample ID: 500-225424-4

Date Collected: 11/14/22 14:25

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 85.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☆	11/23/22 07:35	11/28/22 19:53	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☆	11/23/22 07:35	11/28/22 19:53	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☆	11/23/22 07:35	11/28/22 19:53	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☆	11/23/22 07:35	11/28/22 19:53	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☆	11/23/22 07:35	11/28/22 19:53	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☆	11/23/22 07:35	11/28/22 19:53	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☆	11/23/22 07:35	11/28/22 19:53	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☆	11/23/22 07:35	11/28/22 19:53	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☆	11/23/22 07:35	11/28/22 19:53	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☆	11/23/22 07:35	11/28/22 19:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	64		31 - 166				11/23/22 07:35	11/28/22 19:53	1
Phenol-d5	57		30 - 153				11/23/22 07:35	11/28/22 19:53	1
Nitrobenzene-d5 (Surr)	43		37 - 147				11/23/22 07:35	11/28/22 19:53	1
2-Fluorobiphenyl (Surr)	43		43 - 145				11/23/22 07:35	11/28/22 19:53	1
2,4,6-Tribromophenol	51		31 - 143				11/23/22 07:35	11/28/22 19:53	1
Terphenyl-d14 (Surr)	137		42 - 157				11/23/22 07:35	11/28/22 19:53	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J	1.1	0.22	mg/Kg	☆	11/23/22 09:41	11/30/22 16:18	1
Arsenic	11		0.57	0.19	mg/Kg	☆	11/23/22 09:41	11/30/22 16:18	1
Barium	39		0.57	0.065	mg/Kg	☆	11/23/22 09:41	11/30/22 16:18	1
Beryllium	0.75		0.23	0.053	mg/Kg	☆	11/23/22 09:41	11/30/22 16:18	1
Boron	11	B	2.8	0.27	mg/Kg	☆	11/23/22 09:41	11/30/22 16:18	1
Cadmium	0.21	B	0.11	0.020	mg/Kg	☆	11/23/22 09:41	11/30/22 16:18	1
Calcium	68000	B	57	9.6	mg/Kg	☆	11/23/22 09:41	12/01/22 11:33	5
Chromium	14		0.57	0.28	mg/Kg	☆	11/23/22 09:41	11/30/22 16:18	1
Cobalt	9.7		0.28	0.075	mg/Kg	☆	11/23/22 09:41	11/30/22 16:18	1
Copper	24		0.57	0.16	mg/Kg	☆	11/23/22 09:41	11/30/22 16:18	1
Iron	20000		11	5.9	mg/Kg	☆	11/23/22 09:41	11/30/22 16:18	1
Lead	14		0.28	0.13	mg/Kg	☆	11/23/22 09:41	11/30/22 16:18	1
Magnesium	31000		5.7	2.8	mg/Kg	☆	11/23/22 09:41	11/30/22 16:18	1
Manganese	340		0.57	0.083	mg/Kg	☆	11/23/22 09:41	11/30/22 16:18	1
Nickel	27		0.57	0.17	mg/Kg	☆	11/23/22 09:41	11/30/22 16:18	1
Potassium	2000		28	10	mg/Kg	☆	11/23/22 09:41	11/30/22 16:18	1
Selenium	<0.57		0.57	0.33	mg/Kg	☆	11/23/22 09:41	11/30/22 16:18	1
Silver	0.30		0.28	0.073	mg/Kg	☆	11/23/22 09:41	11/30/22 16:18	1
Sodium	400		57	8.4	mg/Kg	☆	11/23/22 09:41	11/30/22 16:18	1
Thallium	0.48	J	0.57	0.28	mg/Kg	☆	11/23/22 09:41	11/30/22 16:18	1
Vanadium	20		0.28	0.067	mg/Kg	☆	11/23/22 09:41	11/30/22 16:18	1
Zinc	64		1.1	0.50	mg/Kg	☆	11/23/22 09:41	11/30/22 16:18	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.30	J	0.50	0.050	mg/L		11/22/22 18:35	11/30/22 17:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 18:35	11/30/22 17:08	1
Boron	0.36	J B	0.50	0.050	mg/L		11/22/22 18:35	11/30/22 17:08	1
Cadmium	0.0042	J	0.0050	0.0020	mg/L		11/22/22 18:35	11/30/22 17:08	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Client Sample ID: 1401V3-26-B10 (0-6)

Lab Sample ID: 500-225424-4

Date Collected: 11/14/22 14:25

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 85.6

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 17:08	1
Cobalt	0.036		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 17:08	1
Iron	<0.40		0.40	0.20	mg/L		11/22/22 18:35	11/30/22 17:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 18:35	12/01/22 13:58	1
Manganese	3.4		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 17:08	1
Nickel	0.042		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 17:08	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 18:35	11/30/22 17:08	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 17:08	1
Zinc	<0.50		0.50	0.020	mg/L		11/22/22 18:35	11/30/22 17:08	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.46		0.025	0.010	mg/L		11/22/22 19:37	12/01/22 16:30	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 18:35	11/29/22 16:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 18:35	11/29/22 16:41	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 09:15	11/28/22 09:33	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024	B	0.017	0.0058	mg/Kg	☆	11/28/22 16:35	11/29/22 10:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.1		0.2	0.2	SU			11/17/22 19:00	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

GC/MS VOA

Pre Prep Batch: 372631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225424-1	1401V3-26-B13 (0-2)	Total/NA	Solid	Frozen Preserve	
500-225424-2	1401V3-26-B12 (0-6)	Total/NA	Solid	Frozen Preserve	
500-225424-3	1401V3-26-B11 (0-6)	Total/NA	Solid	Frozen Preserve	
500-225424-4	1401V3-26-B10 (0-6)	Total/NA	Solid	Frozen Preserve	

Prep Batch: 372637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225424-1	1401V3-26-B13 (0-2)	Total/NA	Solid	5035	372631
500-225424-2	1401V3-26-B12 (0-6)	Total/NA	Solid	5035	372631
500-225424-3	1401V3-26-B11 (0-6)	Total/NA	Solid	5035	372631
500-225424-4	1401V3-26-B10 (0-6)	Total/NA	Solid	5035	372631
MB 310-372637/1-A	Method Blank	Total/NA	Solid	5035	
LCS 310-372637/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 310-372637/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 372638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225424-1	1401V3-26-B13 (0-2)	Total/NA	Solid	8260D	372637
500-225424-2	1401V3-26-B12 (0-6)	Total/NA	Solid	8260D	372637
500-225424-3	1401V3-26-B11 (0-6)	Total/NA	Solid	8260D	372637
500-225424-4	1401V3-26-B10 (0-6)	Total/NA	Solid	8260D	372637
MB 310-372637/1-A	Method Blank	Total/NA	Solid	8260D	372637
LCS 310-372637/2-A	Lab Control Sample	Total/NA	Solid	8260D	372637
LCSD 310-372637/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	372637

GC/MS Semi VOA

Prep Batch: 686640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225424-1	1401V3-26-B13 (0-2)	Total/NA	Solid	3541	
500-225424-2	1401V3-26-B12 (0-6)	Total/NA	Solid	3541	
500-225424-3	1401V3-26-B11 (0-6)	Total/NA	Solid	3541	
500-225424-4	1401V3-26-B10 (0-6)	Total/NA	Solid	3541	
MB 500-686640/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-686640/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 687051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225424-2	1401V3-26-B12 (0-6)	Total/NA	Solid	8270D	686640
500-225424-3	1401V3-26-B11 (0-6)	Total/NA	Solid	8270D	686640
500-225424-4	1401V3-26-B10 (0-6)	Total/NA	Solid	8270D	686640

Analysis Batch: 687276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-686640/1-A	Method Blank	Total/NA	Solid	8270D	686640
LCS 500-686640/2-A	Lab Control Sample	Total/NA	Solid	8270D	686640

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

GC/MS Semi VOA

Analysis Batch: 689306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225424-1	1401V3-26-B13 (0-2)	Total/NA	Solid	8270D	686640

Metals

Leach Batch: 686377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225424-2	1401V3-26-B12 (0-6)	TCLP	Solid	1311	
500-225424-3	1401V3-26-B11 (0-6)	TCLP	Solid	1311	
LB 500-686377/1-B	Method Blank	TCLP	Solid	1311	
LB 500-686377/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 686385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225424-1	1401V3-26-B13 (0-2)	TCLP	Solid	1311	
500-225424-4	1401V3-26-B10 (0-6)	TCLP	Solid	1311	
LB2 500-686385/1-B	Method Blank	TCLP	Solid	1311	
LB2 500-686385/1-C	Method Blank	TCLP	Solid	1311	
500-225424-1 MS	1401V3-26-B13 (0-2)	TCLP	Solid	1311	
500-225424-1 DU	1401V3-26-B13 (0-2)	TCLP	Solid	1311	

Leach Batch: 686388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225424-1	1401V3-26-B13 (0-2)	SPLP East	Solid	1312	
500-225424-2	1401V3-26-B12 (0-6)	SPLP East	Solid	1312	
500-225424-3	1401V3-26-B11 (0-6)	SPLP East	Solid	1312	
500-225424-4	1401V3-26-B10 (0-6)	SPLP East	Solid	1312	
LB 500-686388/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 686617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225424-1	1401V3-26-B13 (0-2)	TCLP	Solid	3010A	686385
500-225424-2	1401V3-26-B12 (0-6)	TCLP	Solid	3010A	686377
500-225424-3	1401V3-26-B11 (0-6)	TCLP	Solid	3010A	686377
500-225424-4	1401V3-26-B10 (0-6)	TCLP	Solid	3010A	686385
LB 500-686377/1-B	Method Blank	TCLP	Solid	3010A	686377
LB2 500-686385/1-B	Method Blank	TCLP	Solid	3010A	686385
LCS 500-686617/20-A	Lab Control Sample	Total/NA	Solid	3010A	
LCS 500-686617/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-225424-1 MS	1401V3-26-B13 (0-2)	TCLP	Solid	3010A	686385
500-225424-1 DU	1401V3-26-B13 (0-2)	TCLP	Solid	3010A	686385

Prep Batch: 686620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225424-1	1401V3-26-B13 (0-2)	SPLP East	Solid	3010A	686388
500-225424-2	1401V3-26-B12 (0-6)	SPLP East	Solid	3010A	686388
500-225424-3	1401V3-26-B11 (0-6)	SPLP East	Solid	3010A	686388
500-225424-4	1401V3-26-B10 (0-6)	SPLP East	Solid	3010A	686388
LB 500-686388/1-B	Method Blank	SPLP East	Solid	3010A	686388
LCS 500-686620/2-A	Lab Control Sample	Total/NA	Solid	3010A	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Metals

Prep Batch: 686720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225424-1	1401V3-26-B13 (0-2)	Total/NA	Solid	3050B	
500-225424-2	1401V3-26-B12 (0-6)	Total/NA	Solid	3050B	
500-225424-3	1401V3-26-B11 (0-6)	Total/NA	Solid	3050B	
500-225424-4	1401V3-26-B10 (0-6)	Total/NA	Solid	3050B	
MB 500-686720/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-686720/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 686728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225424-1	1401V3-26-B13 (0-2)	TCLP	Solid	7470A	686385
500-225424-2	1401V3-26-B12 (0-6)	TCLP	Solid	7470A	686377
500-225424-3	1401V3-26-B11 (0-6)	TCLP	Solid	7470A	686377
500-225424-4	1401V3-26-B10 (0-6)	TCLP	Solid	7470A	686385
LB 500-686377/1-C	Method Blank	TCLP	Solid	7470A	686377
LB2 500-686385/1-C	Method Blank	TCLP	Solid	7470A	686385
MB 500-686728/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-686728/14-A	Lab Control Sample	Total/NA	Solid	7470A	
LCS 500-686728/32-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 687107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225424-1	1401V3-26-B13 (0-2)	Total/NA	Solid	7471B	
500-225424-2	1401V3-26-B12 (0-6)	Total/NA	Solid	7471B	
500-225424-3	1401V3-26-B11 (0-6)	Total/NA	Solid	7471B	
500-225424-4	1401V3-26-B10 (0-6)	Total/NA	Solid	7471B	
MB 500-687107/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-687107/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 687111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225424-1	1401V3-26-B13 (0-2)	TCLP	Solid	7470A	686728
500-225424-2	1401V3-26-B12 (0-6)	TCLP	Solid	7470A	686728
500-225424-3	1401V3-26-B11 (0-6)	TCLP	Solid	7470A	686728
500-225424-4	1401V3-26-B10 (0-6)	TCLP	Solid	7470A	686728
LB 500-686377/1-C	Method Blank	TCLP	Solid	7470A	686728
LB2 500-686385/1-C	Method Blank	TCLP	Solid	7470A	686728
MB 500-686728/12-A	Method Blank	Total/NA	Solid	7470A	686728
LCS 500-686728/14-A	Lab Control Sample	Total/NA	Solid	7470A	686728
LCS 500-686728/32-A	Lab Control Sample	Total/NA	Solid	7470A	686728

Analysis Batch: 687292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225424-1	1401V3-26-B13 (0-2)	Total/NA	Solid	7471B	687107
500-225424-2	1401V3-26-B12 (0-6)	Total/NA	Solid	7471B	687107
500-225424-3	1401V3-26-B11 (0-6)	Total/NA	Solid	7471B	687107
500-225424-4	1401V3-26-B10 (0-6)	Total/NA	Solid	7471B	687107
MB 500-687107/12-A	Method Blank	Total/NA	Solid	7471B	687107
LCS 500-687107/13-A	Lab Control Sample	Total/NA	Solid	7471B	687107

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Metals

Analysis Batch: 687529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225424-1	1401V3-26-B13 (0-2)	TCLP	Solid	6020A	686617
500-225424-2	1401V3-26-B12 (0-6)	TCLP	Solid	6020A	686617
500-225424-3	1401V3-26-B11 (0-6)	TCLP	Solid	6020A	686617
500-225424-4	1401V3-26-B10 (0-6)	TCLP	Solid	6020A	686617
LB 500-686377/1-B	Method Blank	TCLP	Solid	6020A	686617
LB2 500-686385/1-B	Method Blank	TCLP	Solid	6020A	686617
LCS 500-686617/20-A	Lab Control Sample	Total/NA	Solid	6020A	686617
LCS 500-686617/2-A	Lab Control Sample	Total/NA	Solid	6020A	686617
500-225424-1 MS	1401V3-26-B13 (0-2)	TCLP	Solid	6020A	686617
500-225424-1 DU	1401V3-26-B13 (0-2)	TCLP	Solid	6020A	686617

Analysis Batch: 687677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225424-1	1401V3-26-B13 (0-2)	Total/NA	Solid	6010B	686720
500-225424-2	1401V3-26-B12 (0-6)	Total/NA	Solid	6010B	686720
500-225424-3	1401V3-26-B11 (0-6)	Total/NA	Solid	6010B	686720
500-225424-4	1401V3-26-B10 (0-6)	Total/NA	Solid	6010B	686720
MB 500-686720/1-A	Method Blank	Total/NA	Solid	6010B	686720
LCS 500-686720/2-A	Lab Control Sample	Total/NA	Solid	6010B	686720

Analysis Batch: 687706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225424-1	1401V3-26-B13 (0-2)	TCLP	Solid	6010B	686617
500-225424-2	1401V3-26-B12 (0-6)	TCLP	Solid	6010B	686617
500-225424-3	1401V3-26-B11 (0-6)	TCLP	Solid	6010B	686617
500-225424-4	1401V3-26-B10 (0-6)	TCLP	Solid	6010B	686617
LB 500-686377/1-B	Method Blank	TCLP	Solid	6010B	686617
LB2 500-686385/1-B	Method Blank	TCLP	Solid	6010B	686617
LCS 500-686617/20-A	Lab Control Sample	Total/NA	Solid	6010B	686617
LCS 500-686617/2-A	Lab Control Sample	Total/NA	Solid	6010B	686617
500-225424-1 MS	1401V3-26-B13 (0-2)	TCLP	Solid	6010B	686617
500-225424-1 DU	1401V3-26-B13 (0-2)	TCLP	Solid	6010B	686617

Analysis Batch: 687778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225424-1	1401V3-26-B13 (0-2)	TCLP	Solid	6010B	686617
500-225424-4	1401V3-26-B10 (0-6)	TCLP	Solid	6010B	686617
500-225424-1 MS	1401V3-26-B13 (0-2)	TCLP	Solid	6010B	686617
500-225424-1 DU	1401V3-26-B13 (0-2)	TCLP	Solid	6010B	686617

Analysis Batch: 687779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225424-1	1401V3-26-B13 (0-2)	Total/NA	Solid	6010B	686720
500-225424-2	1401V3-26-B12 (0-6)	Total/NA	Solid	6010B	686720
500-225424-4	1401V3-26-B10 (0-6)	Total/NA	Solid	6010B	686720

Analysis Batch: 687846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225424-1	1401V3-26-B13 (0-2)	SPLP East	Solid	6010B	686620
500-225424-2	1401V3-26-B12 (0-6)	SPLP East	Solid	6010B	686620
500-225424-3	1401V3-26-B11 (0-6)	SPLP East	Solid	6010B	686620

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Metals (Continued)

Analysis Batch: 687846 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225424-4	1401V3-26-B10 (0-6)	SPLP East	Solid	6010B	686620
LB 500-686388/1-B	Method Blank	SPLP East	Solid	6010B	686620
LCS 500-686620/2-A	Lab Control Sample	Total/NA	Solid	6010B	686620

General Chemistry

Analysis Batch: 685686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225424-1	1401V3-26-B13 (0-2)	Total/NA	Solid	Moisture	
500-225424-2	1401V3-26-B12 (0-6)	Total/NA	Solid	Moisture	
500-225424-3	1401V3-26-B11 (0-6)	Total/NA	Solid	Moisture	
500-225424-4	1401V3-26-B10 (0-6)	Total/NA	Solid	Moisture	

Analysis Batch: 685788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225424-1	1401V3-26-B13 (0-2)	Total/NA	Solid	9045D	
500-225424-2	1401V3-26-B12 (0-6)	Total/NA	Solid	9045D	
500-225424-3	1401V3-26-B11 (0-6)	Total/NA	Solid	9045D	
500-225424-4	1401V3-26-B10 (0-6)	Total/NA	Solid	9045D	
LCS 500-685788/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-685788/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Surrogate Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	TOL
		(77-120)	(80-123)	(76-120)
500-225424-1	1401V3-26-B13 (0-2)	93	108	94
500-225424-2	1401V3-26-B12 (0-6)	91	110	95
500-225424-3	1401V3-26-B11 (0-6)	94	112	92
500-225424-4	1401V3-26-B10 (0-6)	92	110	94
LCS 310-372637/2-A	Lab Control Sample	103	99	101
LCS 310-372637/3-A	Lab Control Sample Dup	102	100	100
MB 310-372637/1-A	Method Blank	94	108	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP	PHL	NBZ	FBP	TBP	TPHL
		(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-225424-1	1401V3-26-B13 (0-2)	100	93	78	92	80	139
500-225424-2	1401V3-26-B12 (0-6)	94	61	63	65	60	141
500-225424-3	1401V3-26-B11 (0-6)	85	65	61	63	57	132
500-225424-4	1401V3-26-B10 (0-6)	64	57	43	43	51	137
LCS 500-686640/2-A	Lab Control Sample	108	99	92	88	95	131
MB 500-686640/1-A	Method Blank	110	96	74	79	84	133

Surrogate Legend

2FP = 2-Fluorophenol

PHL = Phenol-d5

NBZ = Nitrobenzene-d5 (Surr)

FBP = 2-Fluorobiphenyl (Surr)

TBP = 2,4,6-Tribromophenol

TPHL = Terphenyl-d14 (Surr)

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-372637/1-A
Matrix: Solid
Analysis Batch: 372638

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372637

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.093		0.093	0.017	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Benzene	<0.0093		0.0093	0.0017	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Bromodichloromethane	<0.0093		0.0093	0.00073	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Bromoform	<0.019		0.019	0.0012	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Bromomethane	0.00332	J	0.037	0.0030	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
2-Butanone (MEK)	<0.037		0.037	0.0028	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Carbon disulfide	<0.0093		0.0093	0.0022	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Carbon tetrachloride	<0.0093		0.0093	0.0026	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Chlorobenzene	<0.0093		0.0093	0.0014	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Chloroethane	<0.037		0.037	0.0067	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Chloroform	<0.0093		0.0093	0.0032	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Chloromethane	<0.037		0.037	0.0061	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
cis-1,2-Dichloroethene	<0.0093		0.0093	0.0014	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
cis-1,3-Dichloropropene	<0.0093		0.0093	0.0010	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Dibromochloromethane	<0.0093		0.0093	0.00041	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,1-Dichloroethane	<0.0093		0.0093	0.00080	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,2-Dichloroethane	<0.0093		0.0093	0.00058	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,1-Dichloroethene	<0.0093		0.0093	0.0013	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,2-Dichloropropane	<0.0093		0.0093	0.00080	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,3-Dichloropropene, Total	<0.019		0.019	0.0020	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Ethylbenzene	<0.0093		0.0093	0.0045	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
2-Hexanone	<0.037		0.037	0.0043	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Methylene Chloride	<0.093		0.093	0.054	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
4-Methyl-2-pentanone (MIBK)	<0.037		0.037	0.0032	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Methyl tert-butyl ether	<0.0093		0.0093	0.00041	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Styrene	<0.0093		0.0093	0.0065	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,1,2,2-Tetrachloroethane	<0.0093		0.0093	0.00065	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Tetrachloroethene	<0.0093		0.0093	0.0018	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Toluene	<0.0093		0.0093	0.0061	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
trans-1,2-Dichloroethene	<0.0093		0.0093	0.0011	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
trans-1,3-Dichloropropene	<0.0093		0.0093	0.0010	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,1,1-Trichloroethane	<0.0093		0.0093	0.00086	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,1,2-Trichloroethane	<0.0093		0.0093	0.00060	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Trichloroethene	<0.0093		0.0093	0.0026	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Vinyl acetate	<0.019		0.019	0.0032	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Vinyl chloride	<0.019		0.019	0.0065	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Xylenes, Total	<0.019		0.019	0.0067	mg/Kg		11/21/22 08:33	11/22/22 07:46	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	94		77 - 120	11/21/22 08:33	11/22/22 07:46	1
Dibromofluoromethane (Surr)	108		80 - 123	11/21/22 08:33	11/22/22 07:46	1
Toluene-d8 (Surr)	93		76 - 120	11/21/22 08:33	11/22/22 07:46	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-372637/2-A
Matrix: Solid
Analysis Batch: 372638

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Acetone	0.150	0.156		mg/Kg		104	52 - 150	
Benzene	0.0750	0.0813		mg/Kg		108	77 - 134	
Bromodichloromethane	0.0750	0.0784		mg/Kg		104	78 - 122	
Bromoform	0.0750	0.0807		mg/Kg		108	72 - 122	
2-Butanone (MEK)	0.150	0.167		mg/Kg		112	60 - 150	
Carbon disulfide	0.0750	0.0725		mg/Kg		97	61 - 142	
Carbon tetrachloride	0.0750	0.0762		mg/Kg		102	77 - 127	
Chlorobenzene	0.0750	0.0727		mg/Kg		97	76 - 120	
Chloroform	0.0750	0.0738		mg/Kg		98	78 - 127	
cis-1,2-Dichloroethene	0.0750	0.0822		mg/Kg		109	74 - 136	
cis-1,3-Dichloropropene	0.0750	0.0800		mg/Kg		107	79 - 126	
Dibromochloromethane	0.0750	0.0809		mg/Kg		108	78 - 122	
1,1-Dichloroethane	0.0750	0.0830		mg/Kg		111	74 - 137	
1,2-Dichloroethane	0.0750	0.0776		mg/Kg		103	79 - 132	
1,1-Dichloroethene	0.0750	0.0717		mg/Kg		96	62 - 130	
1,2-Dichloropropane	0.0750	0.0851		mg/Kg		113	78 - 135	
Ethylbenzene	0.0750	0.0766		mg/Kg		102	78 - 122	
2-Hexanone	0.150	0.167		mg/Kg		112	73 - 134	
Methylene Chloride	0.0750	0.0854	J	mg/Kg		114	55 - 150	
4-Methyl-2-pentanone (MIBK)	0.150	0.173		mg/Kg		115	75 - 135	
Methyl tert-butyl ether	0.0750	0.0790		mg/Kg		105	73 - 135	
Styrene	0.0750	0.0772		mg/Kg		103	75 - 120	
1,1,2,2-Tetrachloroethane	0.0750	0.0792		mg/Kg		106	80 - 127	
Tetrachloroethene	0.0750	0.0680		mg/Kg		91	72 - 121	
Toluene	0.0750	0.0758		mg/Kg		101	77 - 121	
trans-1,2-Dichloroethene	0.0750	0.0767		mg/Kg		102	71 - 134	
trans-1,3-Dichloropropene	0.0750	0.0728		mg/Kg		97	77 - 122	
1,1,1-Trichloroethane	0.0750	0.0783		mg/Kg		104	79 - 132	
1,1,2-Trichloroethane	0.0750	0.0835		mg/Kg		111	80 - 124	
Trichloroethene	0.0750	0.0785		mg/Kg		105	76 - 132	
Vinyl acetate	0.150	0.0450	*-	mg/Kg		30	37 - 150	
Xylenes, Total	0.150	0.152		mg/Kg		101	76 - 124	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		77 - 120
Dibromofluoromethane (Surr)	99		80 - 123
Toluene-d8 (Surr)	101		76 - 120

Lab Sample ID: LCSD 310-372637/3-A
Matrix: Solid
Analysis Batch: 372638

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 372637

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Acetone	0.184	0.182		mg/Kg		99	52 - 150	15	40	
Benzene	0.0920	0.0980		mg/Kg		107	77 - 134	19	40	
Bromodichloromethane	0.0920	0.0929		mg/Kg		101	78 - 122	17	35	
Bromoform	0.0920	0.0960		mg/Kg		104	72 - 122	17	40	
2-Butanone (MEK)	0.184	0.198		mg/Kg		108	60 - 150	17	39	

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 310-372637/3-A
Matrix: Solid
Analysis Batch: 372638

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 372637

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Carbon disulfide	0.0920	0.0855		mg/Kg		93	61 - 142	16	40	
Carbon tetrachloride	0.0920	0.0911		mg/Kg		99	77 - 127	18	40	
Chlorobenzene	0.0920	0.0883		mg/Kg		96	76 - 120	19	40	
Chloroform	0.0920	0.0877		mg/Kg		95	78 - 127	17	34	
cis-1,2-Dichloroethene	0.0920	0.0961		mg/Kg		104	74 - 136	16	36	
cis-1,3-Dichloropropene	0.0920	0.0972		mg/Kg		106	79 - 126	19	39	
Dibromochloromethane	0.0920	0.0959		mg/Kg		104	78 - 122	17	37	
1,1-Dichloroethane	0.0920	0.0993		mg/Kg		108	74 - 137	18	33	
1,2-Dichloroethane	0.0920	0.0900		mg/Kg		98	79 - 132	15	34	
1,1-Dichloroethene	0.0920	0.0861		mg/Kg		94	62 - 130	18	37	
1,2-Dichloropropane	0.0920	0.101		mg/Kg		110	78 - 135	17	34	
Ethylbenzene	0.0920	0.0914		mg/Kg		99	78 - 122	18	40	
2-Hexanone	0.184	0.199		mg/Kg		108	73 - 134	17	40	
Methylene Chloride	0.0920	0.0991	J	mg/Kg		108	55 - 150	15	35	
4-Methyl-2-pentanone (MIBK)	0.184	0.206		mg/Kg		112	75 - 135	18	40	
Methyl tert-butyl ether	0.0920	0.0962		mg/Kg		105	73 - 135	20	33	
Styrene	0.0920	0.0924		mg/Kg		100	75 - 120	18	40	
1,1,2,2-Tetrachloroethane	0.0920	0.0964		mg/Kg		105	80 - 127	20	38	
Tetrachloroethene	0.0920	0.0817		mg/Kg		89	72 - 121	18	40	
Toluene	0.0920	0.0903		mg/Kg		98	77 - 121	17	40	
trans-1,2-Dichloroethene	0.0920	0.0933		mg/Kg		101	71 - 134	20	36	
trans-1,3-Dichloropropene	0.0920	0.0878		mg/Kg		95	77 - 122	19	40	
1,1,1-Trichloroethane	0.0920	0.0932		mg/Kg		101	79 - 132	17	39	
1,1,2-Trichloroethane	0.0920	0.0992		mg/Kg		108	80 - 124	17	35	
Trichloroethene	0.0920	0.0934		mg/Kg		102	76 - 132	17	40	
Vinyl acetate	0.184	0.0944	*1	mg/Kg		51	37 - 150	71	40	
Xylenes, Total	0.184	0.182		mg/Kg		99	76 - 124	18	40	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		77 - 120
Dibromofluoromethane (Surr)	100		80 - 123
Toluene-d8 (Surr)	100		76 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-686640/1-A
Matrix: Solid
Analysis Batch: 687276

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686640

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		11/23/22 07:35	11/29/22 11:38	1

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-686640/1-A
Matrix: Solid
Analysis Batch: 687276

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686640

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Isophorone	<0.17		0.17	0.037	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Carbazole	<0.17		0.17	0.083	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		11/23/22 07:35	11/29/22 11:38	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-686640/1-A
Matrix: Solid
Analysis Batch: 687276

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686640

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		11/23/22 07:35	11/29/22 11:38	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		11/23/22 07:35	11/29/22 11:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	110		31 - 166	11/23/22 07:35	11/29/22 11:38	1
Phenol-d5	96		30 - 153	11/23/22 07:35	11/29/22 11:38	1
Nitrobenzene-d5 (Surr)	74		37 - 147	11/23/22 07:35	11/29/22 11:38	1
2-Fluorobiphenyl (Surr)	79		43 - 145	11/23/22 07:35	11/29/22 11:38	1
2,4,6-Tribromophenol	84		31 - 143	11/23/22 07:35	11/29/22 11:38	1
Terphenyl-d14 (Surr)	133		42 - 157	11/23/22 07:35	11/29/22 11:38	1

Lab Sample ID: LCS 500-686640/2-A
Matrix: Solid
Analysis Batch: 687276

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686640

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.22		mg/Kg		91	56 - 122
Bis(2-chloroethyl)ether	1.33	1.26		mg/Kg		94	55 - 111
1,3-Dichlorobenzene	1.33	1.20		mg/Kg		90	65 - 124
1,4-Dichlorobenzene	1.33	1.23		mg/Kg		92	61 - 110
1,2-Dichlorobenzene	1.33	1.26		mg/Kg		94	62 - 110
2-Methylphenol	1.33	1.29		mg/Kg		97	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.23		mg/Kg		92	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.36		mg/Kg		102	56 - 118
Hexachloroethane	1.33	1.17		mg/Kg		88	60 - 114
2-Chlorophenol	1.33	1.17		mg/Kg		88	64 - 110
Nitrobenzene	1.33	1.31		mg/Kg		98	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.24		mg/Kg		93	60 - 112
1,2,4-Trichlorobenzene	1.33	1.11		mg/Kg		83	66 - 117
Isophorone	1.33	1.33		mg/Kg		100	55 - 110
2,4-Dimethylphenol	1.33	1.26		mg/Kg		94	60 - 110
Hexachlorobutadiene	1.33	1.06		mg/Kg		80	56 - 120
Naphthalene	1.33	1.29		mg/Kg		96	63 - 110
2,4-Dichlorophenol	1.33	1.10		mg/Kg		82	58 - 120
4-Chloroaniline	1.33	0.403	J	mg/Kg		30	30 - 150
2,4,6-Trichlorophenol	1.33	1.13		mg/Kg		85	57 - 120
2,4,5-Trichlorophenol	1.33	1.10		mg/Kg		83	50 - 120
Hexachlorocyclopentadiene	1.33	0.898		mg/Kg		67	10 - 133
2-Methylnaphthalene	1.33	1.12		mg/Kg		84	69 - 112
2-Nitroaniline	1.33	1.28		mg/Kg		96	57 - 124
2-Chloronaphthalene	1.33	1.24		mg/Kg		93	69 - 114
4-Chloro-3-methylphenol	1.33	1.18		mg/Kg		89	65 - 122
2,6-Dinitrotoluene	1.33	1.28		mg/Kg		96	70 - 123
2-Nitrophenol	1.33	1.20		mg/Kg		90	60 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-686640/2-A
Matrix: Solid
Analysis Batch: 687276

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686640

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
3-Nitroaniline	1.33	0.524	*-	mg/Kg		39	40 - 122
Dimethyl phthalate	1.33	1.35		mg/Kg		101	69 - 116
2,4-Dinitrophenol	2.67	1.55		mg/Kg		58	10 - 100
Acenaphthylene	1.33	1.26		mg/Kg		95	68 - 120
2,4-Dinitrotoluene	1.33	1.34		mg/Kg		101	69 - 124
Acenaphthene	1.33	1.18		mg/Kg		88	65 - 124
Dibenzofuran	1.33	1.17		mg/Kg		88	66 - 115
4-Nitrophenol	2.67	1.95		mg/Kg		73	30 - 122
Fluorene	1.33	1.16		mg/Kg		87	62 - 120
4-Nitroaniline	1.33	1.03		mg/Kg		77	60 - 160
4-Bromophenyl phenyl ether	1.33	1.26		mg/Kg		95	68 - 118
Hexachlorobenzene	1.33	1.31		mg/Kg		98	63 - 124
Diethyl phthalate	1.33	1.23		mg/Kg		92	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.14		mg/Kg		85	62 - 119
Pentachlorophenol	2.67	1.69		mg/Kg		63	13 - 112
N-Nitrosodiphenylamine	1.33	1.16		mg/Kg		87	65 - 112
4,6-Dinitro-2-methylphenol	2.67	1.85		mg/Kg		69	10 - 110
Phenanthrene	1.33	1.23		mg/Kg		92	62 - 120
Anthracene	1.33	1.24		mg/Kg		93	70 - 114
Carbazole	1.33	1.24		mg/Kg		93	65 - 142
Di-n-butyl phthalate	1.33	1.24		mg/Kg		93	65 - 120
Fluoranthene	1.33	1.26		mg/Kg		94	62 - 120
Pyrene	1.33	1.64		mg/Kg		123	61 - 128
Butyl benzyl phthalate	1.33	1.41		mg/Kg		106	71 - 129
Benzo[a]anthracene	1.33	1.48		mg/Kg		111	67 - 122
Chrysene	1.33	1.47		mg/Kg		110	63 - 120
3,3'-Dichlorobenzidine	1.33	0.902		mg/Kg		68	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.33		mg/Kg		99	72 - 131
Di-n-octyl phthalate	1.33	0.979		mg/Kg		73	68 - 134
Benzo[b]fluoranthene	1.33	1.24		mg/Kg		93	69 - 129
Benzo[k]fluoranthene	1.33	1.23		mg/Kg		92	68 - 127
Benzo[a]pyrene	1.33	1.24		mg/Kg		93	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.29		mg/Kg		97	68 - 130
Dibenz(a,h)anthracene	1.33	1.22		mg/Kg		91	64 - 131
Benzo[g,h,i]perylene	1.33	1.26		mg/Kg		95	72 - 131
3 & 4 Methylphenol	1.33	1.25		mg/Kg		94	57 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	108		31 - 166
Phenol-d5	99		30 - 153
Nitrobenzene-d5 (Surr)	92		37 - 147
2-Fluorobiphenyl (Surr)	88		43 - 145
2,4,6-Tribromophenol	95		31 - 143
Terphenyl-d14 (Surr)	131		42 - 157

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-686617/20-A
Matrix: Solid
Analysis Batch: 687706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686617

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec
								%Rec
Barium	0.500	0.501		mg/L		100	80 - 120	
Beryllium	0.0500	0.0467		mg/L		93	80 - 120	
Boron	1.00	1.15		mg/L		115	80 - 120	
Cadmium	0.0500	0.0475		mg/L		95	80 - 120	
Chromium	0.200	0.190		mg/L		95	80 - 120	
Cobalt	0.500	0.483		mg/L		97	80 - 120	
Iron	1.00	1.03		mg/L		103	80 - 120	
Lead	0.100	0.0889		mg/L		89	80 - 120	
Manganese	0.500	0.478		mg/L		96	80 - 120	
Nickel	0.500	0.470		mg/L		94	80 - 120	
Selenium	0.100	0.0975		mg/L		98	80 - 120	
Silver	0.0500	0.0457		mg/L		91	80 - 120	
Zinc	0.500	0.460	J	mg/L		92	80 - 120	

Lab Sample ID: LCS 500-686617/2-A
Matrix: Solid
Analysis Batch: 687706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686617

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec
								%Rec
Barium	0.500	0.512		mg/L		102	80 - 120	
Beryllium	0.0500	0.0493		mg/L		99	80 - 120	
Boron	1.00	1.17		mg/L		117	80 - 120	
Cadmium	0.0500	0.0525		mg/L		105	80 - 120	
Chromium	0.200	0.197		mg/L		98	80 - 120	
Cobalt	0.500	0.519		mg/L		104	80 - 120	
Iron	1.00	0.988		mg/L		99	80 - 120	
Lead	0.100	0.0960		mg/L		96	80 - 120	
Manganese	0.500	0.490		mg/L		98	80 - 120	
Nickel	0.500	0.508		mg/L		102	80 - 120	
Selenium	0.100	0.110		mg/L		110	80 - 120	
Silver	0.0500	0.0533		mg/L		107	80 - 120	
Zinc	0.500	0.548		mg/L		110	80 - 120	

Lab Sample ID: LCS 500-686620/2-A
Matrix: Solid
Analysis Batch: 687846

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686620

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec
								%Rec
Manganese	0.500	0.505		mg/L		101	80 - 120	

Lab Sample ID: MB 500-686720/1-A
Matrix: Solid
Analysis Batch: 687677

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686720

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Arsenic	<1.0		1.0	0.34	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Barium	<1.0		1.0	0.11	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Beryllium	<0.40		0.40	0.093	mg/Kg		11/23/22 09:41	11/30/22 14:51	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 500-686720/1-A
Matrix: Solid
Analysis Batch: 687677

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686720

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	0.511	J	5.0	0.47	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Cadmium	0.0438	J	0.20	0.036	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Calcium	3.90	J	20	3.4	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Chromium	<1.0		1.0	0.50	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Cobalt	<0.50		0.50	0.13	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Copper	<1.0		1.0	0.28	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Iron	<20		20	10	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Lead	<0.50		0.50	0.23	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Magnesium	<10		10	5.0	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Manganese	<1.0		1.0	0.15	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Nickel	<1.0		1.0	0.29	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Potassium	<50		50	18	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Selenium	<1.0		1.0	0.59	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Silver	<0.50		0.50	0.13	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Sodium	<100		100	15	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Thallium	<1.0		1.0	0.50	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Vanadium	<0.50		0.50	0.12	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Zinc	<2.0		2.0	0.88	mg/Kg		11/23/22 09:41	11/30/22 14:51	1

Lab Sample ID: LCS 500-686720/2-A
Matrix: Solid
Analysis Batch: 687677

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686720

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	10.0	8.86		mg/Kg		89	80 - 120
Barium	200	193		mg/Kg		97	80 - 120
Beryllium	5.00	4.47		mg/Kg		89	80 - 120
Boron	100	83.3		mg/Kg		83	80 - 120
Cadmium	5.00	4.40		mg/Kg		88	80 - 120
Calcium	1000	954		mg/Kg		95	80 - 120
Chromium	20.0	19.1		mg/Kg		95	80 - 120
Cobalt	50.0	47.7		mg/Kg		95	80 - 120
Copper	25.0	24.2		mg/Kg		97	80 - 120
Iron	100	104		mg/Kg		104	80 - 120
Lead	10.0	9.15		mg/Kg		91	80 - 120
Magnesium	1000	896		mg/Kg		90	80 - 120
Manganese	50.0	46.0		mg/Kg		92	80 - 120
Nickel	50.0	46.4		mg/Kg		93	80 - 120
Potassium	1000	917		mg/Kg		92	80 - 120
Selenium	10.0	8.20		mg/Kg		82	80 - 120
Silver	5.00	4.19		mg/Kg		84	80 - 120
Sodium	1000	932		mg/Kg		93	80 - 120
Thallium	10.0	9.16		mg/Kg		92	80 - 120
Vanadium	50.0	47.4		mg/Kg		95	80 - 120
Zinc	50.0	46.5		mg/Kg		93	80 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-686377/1-B
Matrix: Solid
Analysis Batch: 687706

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 686617

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		11/22/22 18:35	11/30/22 15:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 18:35	11/30/22 15:38	1
Boron	0.276	J	0.50	0.050	mg/L		11/22/22 18:35	11/30/22 15:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 18:35	11/30/22 15:38	1
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:38	1
Cobalt	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:38	1
Iron	<0.40		0.40	0.20	mg/L		11/22/22 18:35	11/30/22 15:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 18:35	11/30/22 15:38	1
Manganese	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:38	1
Nickel	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:38	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 18:35	11/30/22 15:38	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:38	1
Zinc	<0.50		0.50	0.020	mg/L		11/22/22 18:35	11/30/22 15:38	1

Lab Sample ID: LB2 500-686385/1-B
Matrix: Solid
Analysis Batch: 687706

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 686617

Analyte	LB2 LB2		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		11/22/22 18:35	11/30/22 16:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 18:35	11/30/22 16:43	1
Boron	0.268	J	0.50	0.050	mg/L		11/22/22 18:35	11/30/22 16:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 18:35	11/30/22 16:43	1
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:43	1
Cobalt	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:43	1
Iron	<0.40		0.40	0.20	mg/L		11/22/22 18:35	11/30/22 16:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 18:35	11/30/22 16:43	1
Manganese	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:43	1
Nickel	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:43	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 18:35	11/30/22 16:43	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:43	1
Zinc	<0.50		0.50	0.020	mg/L		11/22/22 18:35	11/30/22 16:43	1

Lab Sample ID: 500-225424-1 MS
Matrix: Solid
Analysis Batch: 687706

Client Sample ID: 1401V3-26-B13 (0-2)
Prep Type: TCLP
Prep Batch: 686617

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Barium	0.36	J	0.500	0.875		mg/L		104		75 - 125
Beryllium	<0.0040		0.0500	0.0489		mg/L		98		75 - 125
Boron	0.32	J B	1.00	1.26		mg/L		93		75 - 125
Cadmium	0.0039	J	0.0500	0.0551		mg/L		102		75 - 125
Chromium	<0.025		0.200	0.187		mg/L		94		75 - 125
Cobalt	0.022	J	0.500	0.535		mg/L		103		75 - 125
Iron	2.7		1.00	3.73		mg/L		102		75 - 125
Manganese	3.4		0.500	3.90	4	mg/L		95		75 - 125
Nickel	0.033		0.500	0.526		mg/L		99		75 - 125
Selenium	<0.050		0.100	0.0994		mg/L		99		75 - 125
Silver	<0.025		0.0500	0.0504		mg/L		101		75 - 125

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-225424-1 MS
Matrix: Solid
Analysis Batch: 687706

Client Sample ID: 1401V3-26-B13 (0-2)
Prep Type: TCLP
Prep Batch: 686617

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	<0.50		0.500	0.500		mg/L		100	75 - 125

Lab Sample ID: 500-225424-1 MS
Matrix: Solid
Analysis Batch: 687778

Client Sample ID: 1401V3-26-B13 (0-2)
Prep Type: TCLP
Prep Batch: 686617

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	<0.0075		0.100	0.106		mg/L		106	75 - 125

Lab Sample ID: 500-225424-1 DU
Matrix: Solid
Analysis Batch: 687706

Client Sample ID: 1401V3-26-B13 (0-2)
Prep Type: TCLP
Prep Batch: 686617

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Barium	0.36	J	0.348	J	mg/L		3	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	0.32	J B	0.315	J	mg/L		3	20
Cadmium	0.0039	J	0.00358	J	mg/L		9	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	0.022	J	0.0213	J	mg/L		3	20
Iron	2.7		2.72		mg/L		0.05	20
Manganese	3.4		3.33		mg/L		3	20
Nickel	0.033		0.0330		mg/L		1	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	<0.50		0.0259	J	mg/L		NC	20

Lab Sample ID: 500-225424-1 DU
Matrix: Solid
Analysis Batch: 687778

Client Sample ID: 1401V3-26-B13 (0-2)
Prep Type: TCLP
Prep Batch: 686617

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	<0.0075		<0.0075		mg/L		NC	20

Lab Sample ID: LB 500-686388/1-B
Matrix: Solid
Analysis Batch: 687846

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 686620

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		11/22/22 19:37	12/01/22 15:14	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-686617/20-A
Matrix: Solid
Analysis Batch: 687529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686617

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.480		mg/L		96	80 - 120
Thallium	0.100	0.108		mg/L		108	80 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-686617/2-A
Matrix: Solid
Analysis Batch: 687529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686617

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.486		mg/L		97	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: LB 500-686377/1-B
Matrix: Solid
Analysis Batch: 687529

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 686617

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 18:35	11/29/22 15:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 18:35	11/29/22 15:45	1

Lab Sample ID: LB2 500-686385/1-B
Matrix: Solid
Analysis Batch: 687529

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 686617

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 18:35	11/29/22 16:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 18:35	11/29/22 16:29	1

Lab Sample ID: 500-225424-1 MS
Matrix: Solid
Analysis Batch: 687529

Client Sample ID: 1401V3-26-B13 (0-2)
Prep Type: TCLP
Prep Batch: 686617

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0060		0.500	0.453		mg/L		91	75 - 125
Thallium	<0.0020		0.100	0.101		mg/L		101	75 - 125

Lab Sample ID: 500-225424-1 DU
Matrix: Solid
Analysis Batch: 687529

Client Sample ID: 1401V3-26-B13 (0-2)
Prep Type: TCLP
Prep Batch: 686617

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-686728/12-A
Matrix: Solid
Analysis Batch: 687111

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686728

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 09:15	11/28/22 08:32	1

Lab Sample ID: LCS 500-686728/14-A
Matrix: Solid
Analysis Batch: 687111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686728

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00198	0.00191		mg/L		96	80 - 120

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LCS 500-686728/32-A
Matrix: Solid
Analysis Batch: 687111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686728

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00198	0.00191		mg/L		96	80 - 120

Lab Sample ID: LB 500-686377/1-C
Matrix: Solid
Analysis Batch: 687111

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 686728

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 09:15	11/28/22 08:34	1

Lab Sample ID: LB2 500-686385/1-C
Matrix: Solid
Analysis Batch: 687111

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 686728

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 09:15	11/28/22 09:23	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-687107/12-A
Matrix: Solid
Analysis Batch: 687292

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687107

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00635	J	0.017	0.0056	mg/Kg		11/28/22 16:35	11/29/22 09:07	1

Lab Sample ID: LCS 500-687107/13-A
Matrix: Solid
Analysis Batch: 687292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687107

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.165	0.166		mg/Kg		101	80 - 120

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Client Sample ID: 1401V3-26-B13 (0-2)

Lab Sample ID: 500-225424-1

Date Collected: 11/14/22 13:42

Matrix: Solid

Date Received: 11/14/22 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686388	AW	EET CHI	11/21/22 12:03 - 11/22/22 06:03 ¹
SPLP East	Prep	3010A			686620	LMB	EET CHI	11/22/22 19:37 - 11/22/22 20:07 ¹
SPLP East	Analysis	6010B		1	687846	JJJ	EET CHI	12/01/22 16:14
TCLP	Leach	1311			686385	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6010B		1	687778	JJJ	EET CHI	12/01/22 13:44
TCLP	Leach	1311			686385	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6010B		1	687706	JJJ	EET CHI	11/30/22 16:55
TCLP	Leach	1311			686385	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 16:33
TCLP	Leach	1311			686385	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686728	MJG	EET CHI	11/23/22 09:15 - 11/23/22 11:15 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 09:27
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 18:53
Total/NA	Analysis	Moisture		1	685686	LWN	EET CHI	11/17/22 16:49

Client Sample ID: 1401V3-26-B13 (0-2)

Lab Sample ID: 500-225424-1

Date Collected: 11/14/22 13:42

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372631	MZR8	EET CF	11/15/22 09:07
Total/NA	Prep	5035			372637	MZR8	EET CF	11/21/22 08:33
Total/NA	Analysis	8260D		1	372638	MZR8	EET CF	11/22/22 09:25
Total/NA	Prep	3541			686640	KN	EET CHI	11/23/22 07:35 - 11/23/22 15:00 ¹
Total/NA	Analysis	8270D		1	689306	SS	EET CHI	12/12/22 22:07
Total/NA	Prep	3050B			686720	BDE	EET CHI	11/23/22 09:41 - 11/23/22 10:11 ¹
Total/NA	Analysis	6010B		1	687677	JJJ	EET CHI	11/30/22 16:08
Total/NA	Prep	3050B			686720	BDE	EET CHI	11/23/22 09:41 - 11/23/22 10:11 ¹
Total/NA	Analysis	6010B		5	687779	JJJ	EET CHI	12/01/22 11:27
Total/NA	Prep	7471B			687107	MJG	EET CHI	11/28/22 16:35
Total/NA	Analysis	7471B		1	687292	MJG	EET CHI	11/29/22 10:02

Client Sample ID: 1401V3-26-B12 (0-6)

Lab Sample ID: 500-225424-2

Date Collected: 11/14/22 13:50

Matrix: Solid

Date Received: 11/14/22 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686388	AW	EET CHI	11/21/22 12:03 - 11/22/22 06:03 ¹
SPLP East	Prep	3010A			686620	LMB	EET CHI	11/22/22 19:37 - 11/22/22 20:07 ¹
SPLP East	Analysis	6010B		1	687846	JJJ	EET CHI	12/01/22 16:17
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6010B		1	687706	JJJ	EET CHI	11/30/22 16:33

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Client Sample ID: 1401V3-26-B12 (0-6)

Lab Sample ID: 500-225424-2

Date Collected: 11/14/22 13:50

Matrix: Solid

Date Received: 11/14/22 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 16:19
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686728	MJG	EET CHI	11/23/22 09:15 - 11/23/22 11:15 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 09:16
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 18:55
Total/NA	Analysis	Moisture		1	685686	LWN	EET CHI	11/17/22 16:49

Client Sample ID: 1401V3-26-B12 (0-6)

Lab Sample ID: 500-225424-2

Date Collected: 11/14/22 13:50

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372631	MZR8	EET CF	11/15/22 09:07
Total/NA	Prep	5035			372637	MZR8	EET CF	11/21/22 08:33
Total/NA	Analysis	8260D		1	372638	MZR8	EET CF	11/22/22 09:50
Total/NA	Prep	3541			686640	KN	EET CHI	11/23/22 07:35 - 11/23/22 15:00 ¹
Total/NA	Analysis	8270D		1	687051	SS	EET CHI	11/28/22 19:06
Total/NA	Prep	3050B			686720	BDE	EET CHI	11/23/22 09:41 - 11/23/22 10:11 ¹
Total/NA	Analysis	6010B		1	687677	JJB	EET CHI	11/30/22 16:12
Total/NA	Prep	3050B			686720	BDE	EET CHI	11/23/22 09:41 - 11/23/22 10:11 ¹
Total/NA	Analysis	6010B		5	687779	JJB	EET CHI	12/01/22 11:30
Total/NA	Prep	7471B			687107	MJG	EET CHI	11/28/22 16:35
Total/NA	Analysis	7471B		1	687292	MJG	EET CHI	11/29/22 10:04

Client Sample ID: 1401V3-26-B11 (0-6)

Lab Sample ID: 500-225424-3

Date Collected: 11/14/22 14:10

Matrix: Solid

Date Received: 11/14/22 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686388	AW	EET CHI	11/21/22 12:03 - 11/22/22 06:03 ¹
SPLP East	Prep	3010A			686620	LMB	EET CHI	11/22/22 19:37 - 11/22/22 20:07 ¹
SPLP East	Analysis	6010B		1	687846	JJB	EET CHI	12/01/22 16:20
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6010B		1	687706	JJB	EET CHI	11/30/22 16:36
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 16:21
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686728	MJG	EET CHI	11/23/22 09:15 - 11/23/22 11:15 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 09:18
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 18:58
Total/NA	Analysis	Moisture		1	685686	LWN	EET CHI	11/17/22 16:49

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Client Sample ID: 1401V3-26-B11 (0-6)

Lab Sample ID: 500-225424-3

Date Collected: 11/14/22 14:10

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372631	MZR8	EET CF	11/15/22 09:07
Total/NA	Prep	5035			372637	MZR8	EET CF	11/21/22 08:33
Total/NA	Analysis	8260D		1	372638	MZR8	EET CF	11/22/22 10:14
Total/NA	Prep	3541			686640	KN	EET CHI	11/23/22 07:35 - 11/23/22 15:00 ¹
Total/NA	Analysis	8270D		1	687051	SS	EET CHI	11/28/22 19:30
Total/NA	Prep	3050B			686720	BDE	EET CHI	11/23/22 09:41 - 11/23/22 10:11 ¹
Total/NA	Analysis	6010B		1	687677	JJB	EET CHI	11/30/22 16:15
Total/NA	Prep	7471B			687107	MJG	EET CHI	11/28/22 16:35
Total/NA	Analysis	7471B		1	687292	MJG	EET CHI	11/29/22 10:06

Client Sample ID: 1401V3-26-B10 (0-6)

Lab Sample ID: 500-225424-4

Date Collected: 11/14/22 14:25

Matrix: Solid

Date Received: 11/14/22 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686388	AW	EET CHI	11/21/22 12:03 - 11/22/22 06:03 ¹
SPLP East	Prep	3010A			686620	LMB	EET CHI	11/22/22 19:37 - 11/22/22 20:07 ¹
SPLP East	Analysis	6010B		1	687846	JJB	EET CHI	12/01/22 16:30
TCLP	Leach	1311			686385	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6010B		1	687778	JJB	EET CHI	12/01/22 13:58
TCLP	Leach	1311			686385	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6010B		1	687706	JJB	EET CHI	11/30/22 17:08
TCLP	Leach	1311			686385	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 16:41
TCLP	Leach	1311			686385	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686728	MJG	EET CHI	11/23/22 09:15 - 11/23/22 11:15 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 09:33
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 19:00
Total/NA	Analysis	Moisture		1	685686	LWN	EET CHI	11/17/22 16:49

Client Sample ID: 1401V3-26-B10 (0-6)

Lab Sample ID: 500-225424-4

Date Collected: 11/14/22 14:25

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372631	MZR8	EET CF	11/15/22 09:07
Total/NA	Prep	5035			372637	MZR8	EET CF	11/21/22 08:33
Total/NA	Analysis	8260D		1	372638	MZR8	EET CF	11/22/22 10:39
Total/NA	Prep	3541			686640	KN	EET CHI	11/23/22 07:35 - 11/23/22 15:00 ¹
Total/NA	Analysis	8270D		1	687051	SS	EET CHI	11/28/22 19:53
Total/NA	Prep	3050B			686720	BDE	EET CHI	11/23/22 09:41 - 11/23/22 10:11 ¹
Total/NA	Analysis	6010B		1	687677	JJB	EET CHI	11/30/22 16:18

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Client Sample ID: 1401V3-26-B10 (0-6)

Lab Sample ID: 500-225424-4

Date Collected: 11/14/22 14:25

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			686720	BDE	EET CHI	11/23/22 09:41 - 11/23/22 10:11 ¹
Total/NA	Analysis	6010B		5	687779	JJB	EET CHI	12/01/22 11:33
Total/NA	Prep	7471B			687107	MJG	EET CHI	11/28/22 16:35
Total/NA	Analysis	7471B		1	687292	MJG	EET CHI	11/29/22 10:08

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225424-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

Laboratory: Eurofins Cedar Falls

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Colorado	Petroleum Storage Tank Program	IA100001 (OR)	09-29-23
Georgia	State	IA100001 (OR)	09-29-23
Illinois	NELAP	200024	11-28-22
Iowa	State	007	12-01-23
Kansas	NELAP	E-10341	01-31-23
Minnesota	NELAP	019-999-319	12-31-22
Minnesota (Petrofund)	State	3349	01-18-24
North Dakota	State	R-186	09-29-23
Oregon	NELAP	IA100001	09-29-23

Chain of Custody Record

522946




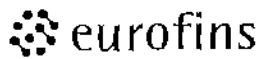
Environment Testing
TestAmerica

TAL-8210

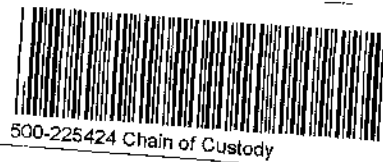
Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact Company Name: <u>WSP</u> Address: <u>30W LaSalle</u> City/State/Zip: <u>Chicago IL</u> Phone: _____ Fax: _____ Project Name: <u>WSPS-Boyle Field Test</u> Site: <u>3403635 013</u> P.O.#: _____		Project Manager <u>D. Tickel</u> Tel./Email: _____		Site Contact <u>A. [unclear]</u> Date: <u>11/14/22</u>		COC No <u>6</u> of <u>3</u> COCs									
Analysis Turnaround Time <input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Lab Contact <u>W. [unclear]</u> Carrier: _____		QR Code:  500-225424 COC		Sampler For Lab Use Only Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/> Job / SDG No: <u>500-225424</u>									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PH	90-200 (u)	VSLs	3055	Total Metals	TECP*	Sample Specific Notes
1 140103-26-B13 (0-2)		11/14/22	1347	C	S	2			X	X	X	X	X	X	
2 140103-26-B12 (0-6)		11/14/22	1350	C	S	2			X	X	X	X	X	X	
3 140103-26-B11 (0-6)		11/14/22	1410	C	S	2			X	X	X	X	X	X	
4 140103-26-B10 (0-6)		11/14/22	1425	C	S	2			X	X	X	X	X	X	
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other															
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Not Hazardous <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown								Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months							
Special Instructions/QC Requirements & Comments: *SPL analysis based on TECP results 3.3 → 3.5, 3.4 → 3.6															
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No _____		Cooler Temp (°C) Obs'd _____ Cor'd _____		Therm ID No _____									
Relinquished by <u>Medy Howell</u>		Company <u>WSP</u>		Date/Time <u>11/14/22 1620</u>		Received by <u>R.G. Ellis</u>		Company <u>ETA</u>		Date/Time <u>11/14/22 1620</u>					
Relinquished by <u>R.G. Ellis</u>		Company <u>ETA</u>		Date/Time <u>11/14/22 1756</u>		Received by _____		Company _____		Date/Time _____					
Relinquished by _____		Company _____		Date/Time _____		Received in Laboratory by <u>Ann [unclear]</u>		Company <u>ETA</u>		Date/Time <u>11/15/22 0715</u>					



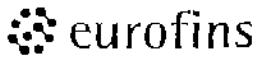
Environment Testing
America



Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Chicago</u>			
City/State:	CITY <u>Urv Park</u>	STATE <u>IL</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>11-18-22</u>	TIME <u>1445</u>	Received By: <u>PL</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____
Multiple Coolers?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>1</u> of <u>2</u>
Cooler Custody Seals Present?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>PL</u>		Correction Factor (°C): <u>0</u>	
* Temp Blank Temperature - If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>1.9</u>		Corrected Temp (°C): <u>1.9</u>	
Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling?		<input type="checkbox"/> Yes	<input type="checkbox"/> No
a) If yes: Is there evidence that the chilling process began?		<input type="checkbox"/> Yes	<input type="checkbox"/> No
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g, bulging septa, broken/cracked bottles, frozen solid?)		<input type="checkbox"/> Yes	<input type="checkbox"/> No
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			





Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Chicago</u>			
City/State:	CITY <u>Univ Park</u>	STATE <u>IL</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>11-18-22</u>	TIME <u>1445</u>	Received By: <u>PL</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____
Multiple Coolers?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>2</u> of <u>2</u>
Cooler Custody Seals Present?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓
<u>FW006</u>			
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>PL</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature - If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>0.6</u>		Corrected Temp (°C): <u>0.6</u>	
Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling?		<input type="checkbox"/> Yes	<input type="checkbox"/> No
a) If yes: Is there evidence that the chilling process began?		<input type="checkbox"/> Yes	<input type="checkbox"/> No
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?)		<input type="checkbox"/> Yes	<input type="checkbox"/> No
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225424-1

Login Number: 225424

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5,3.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225424-1

Login Number: 225424

List Number: 2

Creator: Kizer, Preston V

List Source: Eurofins Cedar Falls

List Creation: 11/18/22 06:06 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

PREPARED FOR

Attn: Dean Tiebot
WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602
Generated 12/12/2022 2:57:22 PM

JOB DESCRIPTION

IDOT - 196-002-WO 13 IL 56

JOB NUMBER

500-225545-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



Generated
12/12/2022 2:57:22 PM

Authorized for release by
Richard Wright, Senior Project Manager
Richard.Wright@et.eurofinsus.com
(708)746-0045

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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Job ID: 500-225545-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225545-1

Receipt

The samples were received on 11/16/2022 7:02 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

GC/MS VOA

Method 8260D: The following analyte(s) recovered outside control limits for the LCS associated with preparation batch 310-372906 and analytical batch 310-372908: Chloroform. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 310-372909 and analytical batch 310-372912 recovered outside control limits for the following analytes: Vinyl acetate. There was insufficient holding time remaining for reanalysis; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-688077 was outside the method criteria for the following analyte(s): 2,4-Dinitrophenol, 2-Fluorophenol (Surr), 2-Nitroaniline, 2-Nitrophenol, 4-Nitroaniline, 4-Nitrophenol, Hexachlorocyclopentadiene, Pentachlorophenol and Phenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with preparation batch 500-687172 and analytical batch 500-688077 had 3 analytes outside control limits: 3-Nitroaniline, 4-Nitroaniline and Hexachlorocyclopentadiene. These results have been reported and qualified.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-687172 and analytical batch 500-688077 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8270D: Perylene-d12 Internal standard (ISTD) response for the following samples was outside of acceptance limits: 1401V3-26-B05 (5-10) (500-225545-10), 1401V3-26-B04 (5-10) (500-225545-12), 1401V3-26-B03 (0-5) (500-225545-13), 1401V3-26-B03 (5-10) (500-225545-14), 1401V3-26-B02 (0-5) (500-225545-15), 1401V3-26-B01 (0-5) (500-225545-17) and 1401V3-26-B01 (5-10) (500-225545-18). Analytes associated to this internal standard were non-detect and/or below the reporting limit; therefore, re-analysis was not performed.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-688077 was outside the method criteria for the following analyte(s): 1,2,4-Trichlorobenzene, 2-Methylnaphthalene, 2-Fluorobiphenyl (Surr), Fluoranthene and Hexachlorobutadiene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The following sample contained one base surrogate outside acceptance limits: 1401V3-26-B02 (5-10) (500-225545-16). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010B: The laboratory control sample (LCS) for prep batch 687802 recovered outside control limits for the following analytes: B-. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Job ID: 500-225545-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B09 (0-5)

Lab Sample ID: 500-225545-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.031	J	0.049	0.0089	mg/Kg	1	✳	8260D	Total/NA
2-Butanone (MEK)	0.0069	J	0.019	0.0015	mg/Kg	1	✳	8260D	Total/NA
Antimony	0.57	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	10		0.59	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	52		0.59	0.068	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.82		0.24	0.056	mg/Kg	1	✳	6010B	Total/NA
Boron	10		3.0	0.28	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.21		0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	55000	B	59	10	mg/Kg	5	✳	6010B	Total/NA
Chromium	17		0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	14		0.30	0.078	mg/Kg	1	✳	6010B	Total/NA
Copper	26		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	21000		12	6.2	mg/Kg	1	✳	6010B	Total/NA
Lead	32		0.30	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	25000	B	5.9	2.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	450		0.59	0.086	mg/Kg	1	✳	6010B	Total/NA
Nickel	34		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	2400		30	11	mg/Kg	1	✳	6010B	Total/NA
Silver	0.28	J	0.30	0.077	mg/Kg	1	✳	6010B	Total/NA
Sodium	960		59	8.8	mg/Kg	1	✳	6010B	Total/NA
Vanadium	22		0.30	0.070	mg/Kg	1	✳	6010B	Total/NA
Zinc	73		1.2	0.52	mg/Kg	1	✳	6010B	Total/NA
Barium	0.71		0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.1	J B **	1.6	0.050	mg/L	1		6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.0080		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	6.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.22		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	2.3		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.048		0.019	0.0063	mg/Kg	1	✳	7471B	Total/NA
pH	7.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-26-B09 (5-10)

Lab Sample ID: 500-225545-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.019	J	0.053	0.0098	mg/Kg	1	✳	8260D	Total/NA
2-Butanone (MEK)	0.0066	J	0.021	0.0016	mg/Kg	1	✳	8260D	Total/NA
Naphthalene	0.0076	J	0.040	0.0062	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.43	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	9.1		0.60	0.21	mg/Kg	1	✳	6010B	Total/NA
Barium	78		0.60	0.069	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.88		0.24	0.056	mg/Kg	1	✳	6010B	Total/NA
Boron	5.6		3.0	0.28	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.16		0.12	0.022	mg/Kg	1	✳	6010B	Total/NA
Calcium	10000	B	12	2.0	mg/Kg	1	✳	6010B	Total/NA
Chromium	16		0.60	0.30	mg/Kg	1	✳	6010B	Total/NA
Cobalt	12		0.30	0.079	mg/Kg	1	✳	6010B	Total/NA
Copper	19		0.60	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	17000		12	6.3	mg/Kg	1	✳	6010B	Total/NA
Lead	60		0.30	0.14	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B09 (5-10) (Continued)

Lab Sample ID: 500-225545-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	6300	B	6.0	3.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	370		0.60	0.087	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		0.60	0.18	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		30	11	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.50	J	0.60	0.35	mg/Kg	1	☼	6010B	Total/NA
Silver	0.34		0.30	0.078	mg/Kg	1	☼	6010B	Total/NA
Sodium	240		60	8.9	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.30	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	71		1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Barium	0.67		0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.2	J B **	1.6	0.050	mg/L	1		6010B	TCLP
Cobalt	0.044		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.27	J	0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.016		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	10		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Selenium	0.022	J	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.082	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.20		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.95		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.063		0.020	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	6.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-26-B08 (0-5)

Lab Sample ID: 500-225545-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.019	J	0.044	0.0081	mg/Kg	1	☼	8260D	Total/NA
2-Butanone (MEK)	0.0032	J	0.018	0.0013	mg/Kg	1	☼	8260D	Total/NA
Antimony	0.56	J F1	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.3	F1	0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	38		0.59	0.068	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.71		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Boron	11	F1	3.0	0.28	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.23		0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Calcium	64000	B F2	59	10	mg/Kg	5	☼	6010B	Total/NA
Chromium	14		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.30	0.078	mg/Kg	1	☼	6010B	Total/NA
Copper	26	F1	0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	6.2	mg/Kg	1	☼	6010B	Total/NA
Lead	16	F1	0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000	B F2	5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	350	F2	0.59	0.086	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300	F1	30	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.24	J F1	0.30	0.076	mg/Kg	1	☼	6010B	Total/NA
Sodium	970		59	8.8	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.42	J	0.59	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.30	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	66		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Barium	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.1	J B **	1.6	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B08 (0-5) (Continued)

Lab Sample ID: 500-225545-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.0024	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	4.7		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.028		0.018	0.0059	mg/Kg	1	⊛	7471B	Total/NA
pH	7.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-26-B08 (5-10)

Lab Sample ID: 500-225545-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.039	J	0.045	0.0084	mg/Kg	1	⊛	8260D	Total/NA
2-Butanone (MEK)	0.0050	J	0.018	0.0014	mg/Kg	1	⊛	8260D	Total/NA
Benzo[a]pyrene	0.0086	J	0.040	0.0079	mg/Kg	1	⊛	8270D	Total/NA
Benzo[b]fluoranthene	0.011	J	0.040	0.0088	mg/Kg	1	⊛	8270D	Total/NA
Fluoranthene	0.0080	J	0.040	0.0075	mg/Kg	1	⊛	8270D	Total/NA
Naphthalene	0.0077	J	0.040	0.0062	mg/Kg	1	⊛	8270D	Total/NA
Antimony	0.62	J	1.2	0.23	mg/Kg	1	⊛	6010B	Total/NA
Arsenic	9.1		0.59	0.20	mg/Kg	1	⊛	6010B	Total/NA
Barium	62		0.59	0.067	mg/Kg	1	⊛	6010B	Total/NA
Beryllium	0.94		0.24	0.055	mg/Kg	1	⊛	6010B	Total/NA
Boron	8.9		2.9	0.27	mg/Kg	1	⊛	6010B	Total/NA
Cadmium	0.15		0.12	0.021	mg/Kg	1	⊛	6010B	Total/NA
Calcium	18000	B	12	2.0	mg/Kg	1	⊛	6010B	Total/NA
Chromium	19		0.59	0.29	mg/Kg	1	⊛	6010B	Total/NA
Cobalt	15		0.29	0.077	mg/Kg	1	⊛	6010B	Total/NA
Copper	23		0.59	0.16	mg/Kg	1	⊛	6010B	Total/NA
Iron	23000		12	6.1	mg/Kg	1	⊛	6010B	Total/NA
Lead	20		0.29	0.14	mg/Kg	1	⊛	6010B	Total/NA
Magnesium	12000	B	5.9	2.9	mg/Kg	1	⊛	6010B	Total/NA
Manganese	460		0.59	0.085	mg/Kg	1	⊛	6010B	Total/NA
Nickel	35		0.59	0.17	mg/Kg	1	⊛	6010B	Total/NA
Potassium	2700		29	10	mg/Kg	1	⊛	6010B	Total/NA
Selenium	0.51	J	0.59	0.35	mg/Kg	1	⊛	6010B	Total/NA
Silver	0.34		0.29	0.076	mg/Kg	1	⊛	6010B	Total/NA
Sodium	600		59	8.7	mg/Kg	1	⊛	6010B	Total/NA
Vanadium	25		0.29	0.069	mg/Kg	1	⊛	6010B	Total/NA
Zinc	69		1.2	0.52	mg/Kg	1	⊛	6010B	Total/NA
Barium	0.70		0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.1	J B *+	1.6	0.050	mg/L	1		6010B	TCLP
Cobalt	0.064		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	10		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.047		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.079	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.92		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.063		0.018	0.0061	mg/Kg	1	⊛	7471B	Total/NA
pH	6.8		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B06 (0-5)

Lab Sample ID: 500-225545-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.66	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	9.7		0.57	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	44		0.57	0.065	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.83		0.23	0.053	mg/Kg	1	✳	6010B	Total/NA
Boron	10		2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.20		0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	34000	B	11	1.9	mg/Kg	1	✳	6010B	Total/NA
Chromium	16		0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	13		0.28	0.074	mg/Kg	1	✳	6010B	Total/NA
Copper	26		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	20000		11	5.9	mg/Kg	1	✳	6010B	Total/NA
Lead	18		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	21000	B	5.7	2.8	mg/Kg	1	✳	6010B	Total/NA
Manganese	370		0.57	0.082	mg/Kg	1	✳	6010B	Total/NA
Nickel	32		0.57	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	2200		28	10	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.42	J	0.57	0.33	mg/Kg	1	✳	6010B	Total/NA
Silver	0.27	J	0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Sodium	690		57	8.4	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.43	J	0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Vanadium	22		0.28	0.067	mg/Kg	1	✳	6010B	Total/NA
Zinc	64		1.1	0.50	mg/Kg	1	✳	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.86	J B **	1.6	0.050	mg/L	1		6010B	TCLP
Iron	0.56		0.40	0.20	mg/L	1		6010B	TCLP
Manganese	0.67		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.60		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.039		0.018	0.0060	mg/Kg	1	✳	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-26-B06 (5-10)

Lab Sample ID: 500-225545-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.64	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	10		0.57	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	41		2.8	0.32	mg/Kg	5	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B06 (5-10) (Continued)

Lab Sample ID: 500-225545-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.70		0.23	0.053	mg/Kg	1	✳	6010B	Total/NA
Boron	9.9		2.8	0.27	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.16		0.11	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	76000	B	57	9.7	mg/Kg	5	✳	6010B	Total/NA
Chromium	13		0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	13		0.28	0.075	mg/Kg	1	✳	6010B	Total/NA
Copper	24		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	24000		57	30	mg/Kg	5	✳	6010B	Total/NA
Lead	16		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	46000	B	28	14	mg/Kg	5	✳	6010B	Total/NA
Manganese	330		0.57	0.083	mg/Kg	1	✳	6010B	Total/NA
Nickel	29		0.57	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	2000		28	10	mg/Kg	1	✳	6010B	Total/NA
Silver	0.20	J	0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Sodium	660		57	8.4	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.63		0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Vanadium	18		0.28	0.067	mg/Kg	1	✳	6010B	Total/NA
Zinc	58		5.7	2.5	mg/Kg	5	✳	6010B	Total/NA
Barium	0.23	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.81	J B **	1.6	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0026	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.038		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	3.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.035		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.72		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.033		0.019	0.0063	mg/Kg	1	✳	7471B	Total/NA
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-26-B05 (0-5)

Lab Sample ID: 500-225545-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.58	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	9.8		0.59	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	55		0.59	0.068	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.83		0.24	0.055	mg/Kg	1	✳	6010B	Total/NA
Boron	10		3.0	0.28	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.29		0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	65000	B	59	10	mg/Kg	5	✳	6010B	Total/NA
Chromium	17		0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	13		0.30	0.078	mg/Kg	1	✳	6010B	Total/NA
Copper	25		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	21000		12	6.2	mg/Kg	1	✳	6010B	Total/NA
Lead	33		0.30	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	32000	B	5.9	2.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	510		0.59	0.086	mg/Kg	1	✳	6010B	Total/NA
Nickel	32		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	2300		30	10	mg/Kg	1	✳	6010B	Total/NA
Silver	0.28	J	0.30	0.076	mg/Kg	1	✳	6010B	Total/NA
Sodium	2100		59	8.8	mg/Kg	1	✳	6010B	Total/NA
Vanadium	22		0.30	0.070	mg/Kg	1	✳	6010B	Total/NA
Zinc	69		5.9	2.6	mg/Kg	5	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B05 (0-5) (Continued)

Lab Sample ID: 500-225545-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.88	J B **	1.6	0.050	mg/L	1		6010B	TCLP
Iron	0.30	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.041		0.020	0.0066	mg/Kg	1	✳	7471B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-26-B05 (5-10)

Lab Sample ID: 500-225545-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.040		0.040	0.0054	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.065	*3	0.040	0.0078	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.11	*3	0.040	0.0087	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.024	J *3	0.040	0.013	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.040	*3	0.040	0.012	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.061		0.040	0.011	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.0090	J *3	0.040	0.0077	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.088		0.040	0.0074	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.026	J *3	0.040	0.010	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.022	J	0.040	0.0056	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.074		0.040	0.0080	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.58	J	1.2	0.24	mg/Kg	1	✳	6010B	Total/NA
Arsenic	8.3		0.61	0.21	mg/Kg	1	✳	6010B	Total/NA
Barium	66		0.61	0.069	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.79		0.24	0.057	mg/Kg	1	✳	6010B	Total/NA
Boron	11		3.0	0.28	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.77		0.12	0.022	mg/Kg	1	✳	6010B	Total/NA
Calcium	64000	B	61	10	mg/Kg	5	✳	6010B	Total/NA
Chromium	20		0.61	0.30	mg/Kg	1	✳	6010B	Total/NA
Cobalt	11		0.30	0.080	mg/Kg	1	✳	6010B	Total/NA
Copper	23		0.61	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	20000		12	6.3	mg/Kg	1	✳	6010B	Total/NA
Lead	30		0.30	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	28000	B	6.1	3.0	mg/Kg	1	✳	6010B	Total/NA
Manganese	440		0.61	0.088	mg/Kg	1	✳	6010B	Total/NA
Nickel	29		0.61	0.18	mg/Kg	1	✳	6010B	Total/NA
Potassium	2300		30	11	mg/Kg	1	✳	6010B	Total/NA
Silver	0.26	J	0.30	0.078	mg/Kg	1	✳	6010B	Total/NA
Sodium	1600		61	9.0	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.40	J	0.61	0.30	mg/Kg	1	✳	6010B	Total/NA
Vanadium	22		0.30	0.072	mg/Kg	1	✳	6010B	Total/NA
Zinc	70		6.1	2.7	mg/Kg	5	✳	6010B	Total/NA
Barium	0.64		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.80	J B **	1.6	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0049	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.11		0.025	0.010	mg/L	1		6010B	TCLP
Iron	1.5		0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.0094		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	14		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.082		0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B05 (5-10) (Continued)

Lab Sample ID: 500-225545-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.046	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.16		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	2.6		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.028		0.020	0.0065	mg/Kg	1	✳	7471B	Total/NA
pH	7.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-26-B04 (0-5)

Lab Sample ID: 500-225545-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0092	J	0.037	0.0058	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.54	J	1.1	0.21	mg/Kg	1	✳	6010B	Total/NA
Arsenic	10		0.53	0.18	mg/Kg	1	✳	6010B	Total/NA
Barium	26		0.53	0.061	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.66		0.21	0.050	mg/Kg	1	✳	6010B	Total/NA
Boron	9.5		2.7	0.25	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.24		0.11	0.019	mg/Kg	1	✳	6010B	Total/NA
Calcium	67000	B	53	9.0	mg/Kg	5	✳	6010B	Total/NA
Chromium	13		0.53	0.26	mg/Kg	1	✳	6010B	Total/NA
Cobalt	12		0.27	0.070	mg/Kg	1	✳	6010B	Total/NA
Copper	22		0.53	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	18000		11	5.5	mg/Kg	1	✳	6010B	Total/NA
Lead	15		0.27	0.12	mg/Kg	1	✳	6010B	Total/NA
Magnesium	30000	B	5.3	2.6	mg/Kg	1	✳	6010B	Total/NA
Manganese	490		0.53	0.077	mg/Kg	1	✳	6010B	Total/NA
Nickel	27		0.53	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	1800		27	9.4	mg/Kg	1	✳	6010B	Total/NA
Silver	0.21	J	0.27	0.069	mg/Kg	1	✳	6010B	Total/NA
Sodium	1000		53	7.9	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.56		0.53	0.27	mg/Kg	1	✳	6010B	Total/NA
Vanadium	16		0.27	0.063	mg/Kg	1	✳	6010B	Total/NA
Zinc	76		5.3	2.3	mg/Kg	5	✳	6010B	Total/NA
Barium	0.29	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.88	J B *+	1.6	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Iron	0.33	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.024		0.018	0.0059	mg/Kg	1	✳	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-26-B04 (5-10)

Lab Sample ID: 500-225545-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.032	J	0.045	0.0084	mg/Kg	1	✳	8260D	Total/NA
2-Butanone (MEK)	0.0050	J	0.018	0.0014	mg/Kg	1	✳	8260D	Total/NA
Antimony	0.37	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	3.1		0.59	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	50		0.59	0.067	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.65		0.23	0.055	mg/Kg	1	✳	6010B	Total/NA
Boron	8.8		2.9	0.27	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.13		0.12	0.021	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B04 (5-10) (Continued)

Lab Sample ID: 500-225545-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	57000	B	59	10	mg/Kg	5	✳	6010B	Total/NA
Chromium	15		0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	8.9		0.29	0.077	mg/Kg	1	✳	6010B	Total/NA
Copper	16		0.59	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	16000		12	6.1	mg/Kg	1	✳	6010B	Total/NA
Lead	10		0.29	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	31000	B	5.9	2.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	370		0.59	0.085	mg/Kg	1	✳	6010B	Total/NA
Nickel	23		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	1800		29	10	mg/Kg	1	✳	6010B	Total/NA
Silver	0.22	J	0.29	0.076	mg/Kg	1	✳	6010B	Total/NA
Sodium	450		59	8.7	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.58	J	0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Vanadium	16		0.29	0.069	mg/Kg	1	✳	6010B	Total/NA
Zinc	53		5.9	2.6	mg/Kg	5	✳	6010B	Total/NA
Barium	0.60		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.86	J B **	1.6	0.050	mg/L	1		6010B	TCLP
Cobalt	0.035		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	5.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.029		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.043		0.018	0.0059	mg/Kg	1	✳	7471B	Total/NA
pH	6.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-26-B03 (0-5)

Lab Sample ID: 500-225545-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0088	J	0.038	0.0051	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.012	J *3	0.038	0.0074	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.015	J *3	0.038	0.0082	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.012	J	0.038	0.0070	mg/Kg	1	✳	8270D	Total/NA
Naphthalene	0.0064	J	0.038	0.0058	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.011	J	0.038	0.0076	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.62	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	11		0.57	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	29		0.57	0.065	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.71		0.23	0.053	mg/Kg	1	✳	6010B	Total/NA
Boron	8.2		2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.25		0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	45000	B	57	9.6	mg/Kg	5	✳	6010B	Total/NA
Chromium	13		0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	11		0.28	0.074	mg/Kg	1	✳	6010B	Total/NA
Copper	28		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	21000		11	5.9	mg/Kg	1	✳	6010B	Total/NA
Lead	47		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	22000	B	5.7	2.8	mg/Kg	1	✳	6010B	Total/NA
Manganese	330		0.57	0.082	mg/Kg	1	✳	6010B	Total/NA
Nickel	30		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	1600		28	10	mg/Kg	1	✳	6010B	Total/NA
Silver	0.23	J	0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Sodium	1700		57	8.4	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B03 (0-5) (Continued)

Lab Sample ID: 500-225545-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Thallium	0.32	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	80		5.7	2.5	mg/Kg	5	☼	6010B	Total/NA
Barium	0.41	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.88	J B **	1.6	0.050	mg/L	1		6010B	TCLP
Iron	0.31	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.96		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.030		0.017	0.0056	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-26-B03 (5-10)

Lab Sample ID: 500-225545-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.026	J	0.051	0.0094	mg/Kg	1	☼	8260D	Total/NA
2-Butanone (MEK)	0.0043	J	0.020	0.0015	mg/Kg	1	☼	8260D	Total/NA
Naphthalene	0.0088	J	0.039	0.0061	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.73	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	10		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	48		0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.81		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Boron	7.6		3.0	0.28	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.19		0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Calcium	28000	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.30	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	22000		12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	17000	B	5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	540		0.59	0.086	mg/Kg	1	☼	6010B	Total/NA
Nickel	34		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		30	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.29	J	0.30	0.076	mg/Kg	1	☼	6010B	Total/NA
Sodium	440		59	8.7	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.42	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.30	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	74		5.9	2.6	mg/Kg	5	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.88	J B **	1.6	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0028	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.22	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	10		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.95		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.043		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	7.1		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B01 (0-5)

Lab Sample ID: 500-225545-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0084	J	0.039	0.0060	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.56	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	10		0.59	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	41		2.9	0.33	mg/Kg	5	✳	6010B	Total/NA
Beryllium	0.67		0.23	0.055	mg/Kg	1	✳	6010B	Total/NA
Boron	8.7		2.9	0.27	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.20		0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	71000	B	59	9.9	mg/Kg	5	✳	6010B	Total/NA
Chromium	13		0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	11		0.29	0.077	mg/Kg	1	✳	6010B	Total/NA
Copper	24		0.59	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	23000		59	31	mg/Kg	5	✳	6010B	Total/NA
Lead	16		0.29	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	43000	B	29	15	mg/Kg	5	✳	6010B	Total/NA
Manganese	380		0.59	0.085	mg/Kg	1	✳	6010B	Total/NA
Nickel	26		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	1600		29	10	mg/Kg	1	✳	6010B	Total/NA
Silver	0.25	J	0.29	0.076	mg/Kg	1	✳	6010B	Total/NA
Sodium	160		59	8.7	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.46	J	0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Vanadium	17		0.29	0.069	mg/Kg	1	✳	6010B	Total/NA
Zinc	65		5.9	2.6	mg/Kg	5	✳	6010B	Total/NA
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.85	J B **	1.6	0.050	mg/L	1		6010B	TCLP
Manganese	0.64		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.39		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.034		0.017	0.0058	mg/Kg	1	✳	7471B	Total/NA
pH	7.2		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B01 (5-10)

Lab Sample ID: 500-225545-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Naphthalene	0.012	J	0.035	0.0055	mg/Kg	1	☼		8270D	Total/NA
Antimony	0.30	J	1.1	0.21	mg/Kg	1	☼		6010B	Total/NA
Arsenic	3.6		0.54	0.19	mg/Kg	1	☼		6010B	Total/NA
Barium	8.3		2.7	0.31	mg/Kg	5	☼		6010B	Total/NA
Beryllium	0.36		0.22	0.051	mg/Kg	1	☼		6010B	Total/NA
Boron	6.2		2.7	0.25	mg/Kg	1	☼		6010B	Total/NA
Cadmium	0.23		0.11	0.020	mg/Kg	1	☼		6010B	Total/NA
Calcium	86000	B	54	9.2	mg/Kg	5	☼		6010B	Total/NA
Chromium	5.8		0.54	0.27	mg/Kg	1	☼		6010B	Total/NA
Cobalt	5.7		0.27	0.071	mg/Kg	1	☼		6010B	Total/NA
Copper	17		0.54	0.15	mg/Kg	1	☼		6010B	Total/NA
Iron	11000		54	28	mg/Kg	5	☼		6010B	Total/NA
Lead	9.5		0.27	0.13	mg/Kg	1	☼		6010B	Total/NA
Magnesium	50000	B	27	13	mg/Kg	5	☼		6010B	Total/NA
Manganese	200		0.54	0.079	mg/Kg	1	☼		6010B	Total/NA
Nickel	16		0.54	0.16	mg/Kg	1	☼		6010B	Total/NA
Potassium	850		27	9.6	mg/Kg	1	☼		6010B	Total/NA
Silver	0.078	J	0.27	0.070	mg/Kg	1	☼		6010B	Total/NA
Sodium	310		54	8.0	mg/Kg	1	☼		6010B	Total/NA
Vanadium	9.6		0.27	0.064	mg/Kg	1	☼		6010B	Total/NA
Zinc	74		5.4	2.4	mg/Kg	5	☼		6010B	Total/NA
Barium	0.13	J	0.50	0.050	mg/L	1			6010B	TCLP
Boron	0.84	J B **	1.6	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0028	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Cobalt	0.022	J	0.025	0.010	mg/L	1			6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.028		0.025	0.010	mg/L	1			6010B	TCLP
Zinc	0.30	J	0.50	0.020	mg/L	1			6010B	TCLP
Manganese	0.35		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.014	J	0.018	0.0060	mg/Kg	1	☼		7471B	Total/NA
pH	8.5		0.2	0.2	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010B	Metals (ICP)	SW846	EET CHI
6010B	SPLP Metals	SW846	EET CHI
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
Frozen Preserve	Freezing Samples	None	EET CF

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225545-1	1401V3-26-B09 (0-5)	Solid	11/16/22 11:15	11/16/22 19:02
500-225545-2	1401V3-26-B09 (5-10)	Solid	11/16/22 11:20	11/16/22 19:02
500-225545-3	1401V3-26-B08 (0-5)	Solid	11/16/22 11:30	11/16/22 19:02
500-225545-4	1401V3-26-B08 (5-10)	Solid	11/16/22 11:35	11/16/22 19:02
500-225545-7	1401V3-26-B06 (0-5)	Solid	11/16/22 13:45	11/16/22 19:02
500-225545-8	1401V3-26-B06 (5-10)	Solid	11/16/22 12:20	11/16/22 19:02
500-225545-9	1401V3-26-B05 (0-5)	Solid	11/16/22 12:25	11/16/22 19:02
500-225545-10	1401V3-26-B05 (5-10)	Solid	11/16/22 12:30	11/16/22 19:02
500-225545-11	1401V3-26-B04 (0-5)	Solid	11/16/22 12:45	11/16/22 19:02
500-225545-12	1401V3-26-B04 (5-10)	Solid	11/16/22 12:50	11/16/22 19:02
500-225545-13	1401V3-26-B03 (0-5)	Solid	11/16/22 13:00	11/16/22 19:02
500-225545-14	1401V3-26-B03 (5-10)	Solid	11/16/22 13:05	11/16/22 19:02
500-225545-17	1401V3-26-B01 (0-5)	Solid	11/16/22 13:40	11/16/22 19:02
500-225545-18	1401V3-26-B01 (5-10)	Solid	11/16/22 13:45	11/16/22 19:02



Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B09 (0-5)

Lab Sample ID: 500-225545-1

Date Collected: 11/16/22 11:15

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 83.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.031	J	0.049	0.0089	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
Benzene	<0.0049		0.0049	0.00087	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
Bromodichloromethane	<0.0049		0.0049	0.00038	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
Bromoform	<0.0097		0.0097	0.00062	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
Bromomethane	<0.019		0.019	0.0016	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
2-Butanone (MEK)	0.0069	J	0.019	0.0015	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
Carbon disulfide	<0.0049		0.0049	0.0012	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
Carbon tetrachloride	<0.0049		0.0049	0.0014	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
Chlorobenzene	<0.0049		0.0049	0.00075	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
Chloroethane	<0.019		0.019	0.0035	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
Chloroform	<0.0049	*	0.0049	0.0016	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
Chloromethane	<0.019		0.019	0.0032	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00073	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00054	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
Dibromochloromethane	<0.0049		0.0049	0.00021	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
1,1-Dichloroethane	<0.0049		0.0049	0.00042	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
1,2-Dichloroethane	<0.0049		0.0049	0.00030	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
1,1-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
1,2-Dichloropropane	<0.0049		0.0049	0.00042	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
1,3-Dichloropropane, Total	<0.0097		0.0097	0.0011	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
Ethylbenzene	<0.0049		0.0049	0.0023	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
2-Hexanone	<0.019		0.019	0.0022	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
Methylene Chloride	<0.049		0.049	0.028	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
4-Methyl-2-pentanone (MIBK)	<0.019		0.019	0.0016	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00021	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
Styrene	<0.0049		0.0049	0.0034	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00034	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
Tetrachloroethene	<0.0049		0.0049	0.00092	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
Toluene	<0.0049		0.0049	0.0032	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00059	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00053	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00045	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00031	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
Trichloroethene	<0.0049		0.0049	0.0014	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
Vinyl acetate	<0.0097		0.0097	0.0016	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
Vinyl chloride	<0.0097		0.0097	0.0034	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1
Xylenes, Total	<0.0097		0.0097	0.0035	mg/Kg	☼	11/23/22 08:03	11/24/22 01:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		77 - 120	11/23/22 08:03	11/24/22 01:27	1
Dibromofluoromethane (Surr)	110		80 - 123	11/23/22 08:03	11/24/22 01:27	1
Toluene-d8 (Surr)	91		76 - 120	11/23/22 08:03	11/24/22 01:27	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B09 (0-5)

Lab Sample ID: 500-225545-1

Date Collected: 11/16/22 11:15

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 83.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.039		0.039	0.0086	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
Benzo[g,h,i]perylene	<0.039	F1	0.039	0.013	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
4-Chloro-3-methylphenol	<0.39		0.39	0.14	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
Dibenz(a,h)anthracene	<0.039	F1	0.039	0.0077	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
1,2-Dichlorobenzene	<0.20	F1	0.20	0.047	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
Fluoranthene	<0.039		0.039	0.0074	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
Hexachlorobutadiene	<0.20	F1	0.20	0.062	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
Hexachlorocyclopentadiene	<0.80	F1 *-	0.80	0.23	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
Hexachloroethane	<0.20	F1	0.20	0.060	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
Indeno[1,2,3-cd]pyrene	<0.039	F1	0.039	0.010	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
3-Nitroaniline	<0.39	*-	0.39	0.12	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
4-Nitroaniline	<0.39	F1 *-	0.39	0.17	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	11/29/22 07:31	12/04/22 14:36	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B09 (0-5)

Lab Sample ID: 500-225545-1

Date Collected: 11/16/22 11:15

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 83.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	✳	11/29/22 07:31	12/04/22 14:36	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	✳	11/29/22 07:31	12/04/22 14:36	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	✳	11/29/22 07:31	12/04/22 14:36	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	✳	11/29/22 07:31	12/04/22 14:36	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	✳	11/29/22 07:31	12/04/22 14:36	1
Phenol	<0.20		0.20	0.088	mg/Kg	✳	11/29/22 07:31	12/04/22 14:36	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	✳	11/29/22 07:31	12/04/22 14:36	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	✳	11/29/22 07:31	12/04/22 14:36	1
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	✳	11/29/22 07:31	12/04/22 14:36	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	✳	11/29/22 07:31	12/04/22 14:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	104		43 - 145				11/29/22 07:31	12/04/22 14:36	1
2-Fluorophenol (Surr)	92		31 - 166				11/29/22 07:31	12/04/22 14:36	1
Nitrobenzene-d5 (Surr)	73		37 - 147				11/29/22 07:31	12/04/22 14:36	1
Phenol-d5 (Surr)	88		30 - 153				11/29/22 07:31	12/04/22 14:36	1
Terphenyl-d14 (Surr)	130		42 - 157				11/29/22 07:31	12/04/22 14:36	1
2,4,6-Tribromophenol (Surr)	88		31 - 143				11/29/22 07:31	12/04/22 14:36	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.57	J	1.2	0.23	mg/Kg	✳	12/01/22 14:51	12/06/22 11:41	1
Arsenic	10		0.59	0.20	mg/Kg	✳	12/01/22 14:51	12/06/22 11:41	1
Barium	52		0.59	0.068	mg/Kg	✳	12/01/22 14:51	12/06/22 11:41	1
Beryllium	0.82		0.24	0.056	mg/Kg	✳	12/01/22 14:51	12/06/22 11:41	1
Boron	10		3.0	0.28	mg/Kg	✳	12/01/22 14:51	12/06/22 11:41	1
Cadmium	0.21		0.12	0.021	mg/Kg	✳	12/01/22 14:51	12/06/22 11:41	1
Calcium	55000	B	59	10	mg/Kg	✳	12/01/22 14:51	12/06/22 16:45	5
Chromium	17		0.59	0.29	mg/Kg	✳	12/01/22 14:51	12/06/22 11:41	1
Cobalt	14		0.30	0.078	mg/Kg	✳	12/01/22 14:51	12/06/22 11:41	1
Copper	26		0.59	0.17	mg/Kg	✳	12/01/22 14:51	12/06/22 11:41	1
Iron	21000		12	6.2	mg/Kg	✳	12/01/22 14:51	12/06/22 11:41	1
Lead	32		0.30	0.14	mg/Kg	✳	12/01/22 14:51	12/06/22 11:41	1
Magnesium	25000	B	5.9	2.9	mg/Kg	✳	12/01/22 14:51	12/06/22 11:41	1
Manganese	450		0.59	0.086	mg/Kg	✳	12/01/22 14:51	12/06/22 11:41	1
Nickel	34		0.59	0.17	mg/Kg	✳	12/01/22 14:51	12/06/22 11:41	1
Potassium	2400		30	11	mg/Kg	✳	12/01/22 14:51	12/06/22 11:41	1
Selenium	<0.59		0.59	0.35	mg/Kg	✳	12/01/22 14:51	12/06/22 11:41	1
Silver	0.28	J	0.30	0.077	mg/Kg	✳	12/01/22 14:51	12/06/22 11:41	1
Sodium	960		59	8.8	mg/Kg	✳	12/01/22 14:51	12/06/22 11:41	1
Thallium	<0.59		0.59	0.30	mg/Kg	✳	12/01/22 14:51	12/06/22 11:41	1
Vanadium	22		0.30	0.070	mg/Kg	✳	12/01/22 14:51	12/06/22 11:41	1
Zinc	73		1.2	0.52	mg/Kg	✳	12/01/22 14:51	12/06/22 11:41	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.71		0.50	0.050	mg/L		12/01/22 16:54	12/02/22 16:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/01/22 16:54	12/02/22 16:37	1
Boron	1.1	J B *+	1.6	0.050	mg/L		12/01/22 16:54	12/02/22 16:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/01/22 16:54	12/02/22 16:37	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B09 (0-5)

Lab Sample ID: 500-225545-1

Date Collected: 11/16/22 11:15

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 83.1

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:37	1
Cobalt	0.015	J	0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:37	1
Iron	<0.40		0.40	0.20	mg/L		12/01/22 16:54	12/02/22 16:37	1
Lead	0.0080		0.0075	0.0075	mg/L		12/01/22 16:54	12/02/22 16:37	1
Manganese	6.6		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:37	1
Nickel	0.016	J	0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:37	1
Selenium	<0.050		0.050	0.020	mg/L		12/01/22 16:54	12/02/22 16:37	1
Silver	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:37	1
Zinc	<0.50		0.50	0.020	mg/L		12/01/22 16:54	12/02/22 16:37	1

Method: SW846 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.22		0.0075	0.0075	mg/L		12/01/22 17:06	12/05/22 22:13	1
Manganese	2.3		0.025	0.010	mg/L		12/01/22 17:06	12/05/22 22:13	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/01/22 16:54	12/02/22 16:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/01/22 16:54	12/02/22 16:03	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 10:45	12/05/22 09:45	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.019	0.0063	mg/Kg	☆	12/05/22 15:45	12/06/22 06:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.4		0.2	0.2	SU			11/21/22 17:00	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B09 (5-10)

Lab Sample ID: 500-225545-2

Date Collected: 11/16/22 11:20

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 79.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.019	J	0.053	0.0098	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
Benzene	<0.0053		0.0053	0.00095	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
Bromodichloromethane	<0.0053		0.0053	0.00041	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
Bromoform	<0.011		0.011	0.00068	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
Bromomethane	<0.021		0.021	0.0017	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
2-Butanone (MEK)	0.0066	J	0.021	0.0016	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
Carbon disulfide	<0.0053		0.0053	0.0013	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
Carbon tetrachloride	<0.0053		0.0053	0.0015	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
Chlorobenzene	<0.0053		0.0053	0.00082	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
Chloroethane	<0.021		0.021	0.0038	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
Chloroform	<0.0053	*	0.0053	0.0018	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
Chloromethane	<0.021		0.021	0.0035	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.00080	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.00059	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
Dibromochloromethane	<0.0053		0.0053	0.00023	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
1,1-Dichloroethane	<0.0053		0.0053	0.00046	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
1,2-Dichloroethane	<0.0053		0.0053	0.00033	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
1,1-Dichloroethene	<0.0053		0.0053	0.00074	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
1,2-Dichloropropane	<0.0053		0.0053	0.00046	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
1,3-Dichloropropane, Total	<0.011		0.011	0.0012	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
Ethylbenzene	<0.0053		0.0053	0.0025	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
2-Hexanone	<0.021		0.021	0.0024	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
Methylene Chloride	<0.053		0.053	0.031	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
4-Methyl-2-pentanone (MIBK)	<0.021		0.021	0.0018	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
Methyl tert-butyl ether	<0.0053		0.0053	0.00023	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
Styrene	<0.0053		0.0053	0.0037	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
1,1,2,2-Tetrachloroethane	<0.0053		0.0053	0.00037	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
Tetrachloroethene	<0.0053		0.0053	0.0010	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
Toluene	<0.0053		0.0053	0.0035	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.00065	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.00058	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.00049	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.00034	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
Trichloroethene	<0.0053		0.0053	0.0015	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
Vinyl acetate	<0.011		0.011	0.0018	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
Vinyl chloride	<0.011		0.011	0.0037	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1
Xylenes, Total	<0.011		0.011	0.0038	mg/Kg	☼	11/23/22 08:03	11/24/22 01:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		77 - 120	11/23/22 08:03	11/24/22 01:52	1
Dibromofluoromethane (Surr)	112		80 - 123	11/23/22 08:03	11/24/22 01:52	1
Toluene-d8 (Surr)	91		76 - 120	11/23/22 08:03	11/24/22 01:52	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1

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Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B09 (5-10)

Lab Sample ID: 500-225545-2

Date Collected: 11/16/22 11:20

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 79.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Hexachlorocyclopentadiene	<0.81	*-	0.81	0.23	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Naphthalene	0.0076	J	0.040	0.0062	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
3-Nitroaniline	<0.40	*-	0.40	0.12	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
4-Nitroaniline	<0.40	*-	0.40	0.17	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1

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Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B09 (5-10)

Lab Sample ID: 500-225545-2

Date Collected: 11/16/22 11:20

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 79.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	11/29/22 07:31	12/04/22 15:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	100		43 - 145				11/29/22 07:31	12/04/22 15:48	1
2-Fluorophenol (Surr)	82		31 - 166				11/29/22 07:31	12/04/22 15:48	1
Nitrobenzene-d5 (Surr)	71		37 - 147				11/29/22 07:31	12/04/22 15:48	1
Phenol-d5 (Surr)	61		30 - 153				11/29/22 07:31	12/04/22 15:48	1
Terphenyl-d14 (Surr)	118		42 - 157				11/29/22 07:31	12/04/22 15:48	1
2,4,6-Tribromophenol (Surr)	80		31 - 143				11/29/22 07:31	12/04/22 15:48	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J	1.2	0.23	mg/Kg	☼	12/01/22 14:51	12/06/22 11:51	1
Arsenic	9.1		0.60	0.21	mg/Kg	☼	12/01/22 14:51	12/06/22 11:51	1
Barium	78		0.60	0.069	mg/Kg	☼	12/01/22 14:51	12/06/22 11:51	1
Beryllium	0.88		0.24	0.056	mg/Kg	☼	12/01/22 14:51	12/06/22 11:51	1
Boron	5.6		3.0	0.28	mg/Kg	☼	12/01/22 14:51	12/06/22 11:51	1
Cadmium	0.16		0.12	0.022	mg/Kg	☼	12/01/22 14:51	12/06/22 11:51	1
Calcium	10000	B	12	2.0	mg/Kg	☼	12/01/22 14:51	12/06/22 11:51	1
Chromium	16		0.60	0.30	mg/Kg	☼	12/01/22 14:51	12/06/22 11:51	1
Cobalt	12		0.30	0.079	mg/Kg	☼	12/01/22 14:51	12/06/22 11:51	1
Copper	19		0.60	0.17	mg/Kg	☼	12/01/22 14:51	12/06/22 11:51	1
Iron	17000		12	6.3	mg/Kg	☼	12/01/22 14:51	12/06/22 11:51	1
Lead	60		0.30	0.14	mg/Kg	☼	12/01/22 14:51	12/06/22 11:51	1
Magnesium	6300	B	6.0	3.0	mg/Kg	☼	12/01/22 14:51	12/06/22 11:51	1
Manganese	370		0.60	0.087	mg/Kg	☼	12/01/22 14:51	12/06/22 11:51	1
Nickel	24		0.60	0.18	mg/Kg	☼	12/01/22 14:51	12/06/22 11:51	1
Potassium	2000		30	11	mg/Kg	☼	12/01/22 14:51	12/06/22 11:51	1
Selenium	0.50	J	0.60	0.35	mg/Kg	☼	12/01/22 14:51	12/06/22 11:51	1
Silver	0.34		0.30	0.078	mg/Kg	☼	12/01/22 14:51	12/06/22 11:51	1
Sodium	240		60	8.9	mg/Kg	☼	12/01/22 14:51	12/06/22 11:51	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	12/01/22 14:51	12/06/22 11:51	1
Vanadium	26		0.30	0.071	mg/Kg	☼	12/01/22 14:51	12/06/22 11:51	1
Zinc	71		1.2	0.53	mg/Kg	☼	12/01/22 14:51	12/06/22 11:51	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.67		0.50	0.050	mg/L		12/01/22 16:54	12/02/22 16:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/01/22 16:54	12/02/22 16:40	1
Boron	1.2	J B *+	1.6	0.050	mg/L		12/01/22 16:54	12/02/22 16:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/01/22 16:54	12/02/22 16:40	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B09 (5-10)

Lab Sample ID: 500-225545-2

Date Collected: 11/16/22 11:20

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 79.9

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:40	1
Cobalt	0.044		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:40	1
Iron	0.27	J	0.40	0.20	mg/L		12/01/22 16:54	12/02/22 16:40	1
Lead	0.016		0.0075	0.0075	mg/L		12/01/22 16:54	12/02/22 16:40	1
Manganese	10		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:40	1
Nickel	0.026		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:40	1
Selenium	0.022	J	0.050	0.020	mg/L		12/01/22 16:54	12/02/22 16:40	1
Silver	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:40	1
Zinc	0.082	J	0.50	0.020	mg/L		12/01/22 16:54	12/02/22 16:40	1

Method: SW846 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.20		0.0075	0.0075	mg/L		12/01/22 17:06	12/05/22 22:16	1
Manganese	0.95		0.025	0.010	mg/L		12/01/22 17:06	12/05/22 22:16	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/01/22 16:54	12/02/22 16:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/01/22 16:54	12/02/22 16:07	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 10:45	12/05/22 09:47	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.063		0.020	0.0067	mg/Kg	☆	12/05/22 15:45	12/06/22 06:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.7		0.2	0.2	SU			11/21/22 17:04	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B08 (0-5)

Lab Sample ID: 500-225545-3

Date Collected: 11/16/22 11:30

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 84.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.019	J	0.044	0.0081	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
Benzene	<0.0044		0.0044	0.00079	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
Bromodichloromethane	<0.0044		0.0044	0.00034	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
Bromoform	<0.0088		0.0088	0.00056	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
Bromomethane	<0.018		0.018	0.0014	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
2-Butanone (MEK)	0.0032	J	0.018	0.0013	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
Carbon disulfide	<0.0044		0.0044	0.0011	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
Carbon tetrachloride	<0.0044		0.0044	0.0012	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
Chlorobenzene	<0.0044		0.0044	0.00068	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
Chloroethane	<0.018		0.018	0.0032	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
Chloroform	<0.0044	*	0.0044	0.0015	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
Chloromethane	<0.018		0.018	0.0029	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00066	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00049	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
Dibromochloromethane	<0.0044		0.0044	0.00019	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
1,1-Dichloroethane	<0.0044		0.0044	0.00038	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
1,2-Dichloroethane	<0.0044		0.0044	0.00027	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
1,1-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
1,2-Dichloropropane	<0.0044		0.0044	0.00038	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
1,3-Dichloropropene, Total	<0.0088		0.0088	0.00097	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
Ethylbenzene	<0.0044		0.0044	0.0021	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
2-Hexanone	<0.018		0.018	0.0020	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
Methylene Chloride	<0.044		0.044	0.025	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
4-Methyl-2-pentanone (MIBK)	<0.018		0.018	0.0015	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00019	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
Styrene	<0.0044		0.0044	0.0031	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00031	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
Tetrachloroethene	<0.0044		0.0044	0.00083	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
Toluene	<0.0044		0.0044	0.0029	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00054	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00048	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00040	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00028	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
Vinyl acetate	<0.0088		0.0088	0.0015	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
Vinyl chloride	<0.0088		0.0088	0.0031	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1
Xylenes, Total	<0.0088		0.0088	0.0032	mg/Kg	☼	11/23/22 08:03	11/24/22 02:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		77 - 120	11/23/22 08:03	11/24/22 02:17	1
Dibromofluoromethane (Surr)	110		80 - 123	11/23/22 08:03	11/24/22 02:17	1
Toluene-d8 (Surr)	93		76 - 120	11/23/22 08:03	11/24/22 02:17	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B08 (0-5)

Lab Sample ID: 500-225545-3

Date Collected: 11/16/22 11:30

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 84.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
Hexachlorocyclopentadiene	<0.79	*	0.79	0.22	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
3-Nitroaniline	<0.39	*	0.39	0.12	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
4-Nitroaniline	<0.39	*	0.39	0.16	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	11/29/22 07:31	12/04/22 16:12	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B08 (0-5)

Lab Sample ID: 500-225545-3

Date Collected: 11/16/22 11:30

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 84.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	✳	11/29/22 07:31	12/04/22 16:12	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	✳	11/29/22 07:31	12/04/22 16:12	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	✳	11/29/22 07:31	12/04/22 16:12	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	✳	11/29/22 07:31	12/04/22 16:12	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	✳	11/29/22 07:31	12/04/22 16:12	1
Phenol	<0.20		0.20	0.087	mg/Kg	✳	11/29/22 07:31	12/04/22 16:12	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	✳	11/29/22 07:31	12/04/22 16:12	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	✳	11/29/22 07:31	12/04/22 16:12	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	✳	11/29/22 07:31	12/04/22 16:12	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	✳	11/29/22 07:31	12/04/22 16:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	77		43 - 145				11/29/22 07:31	12/04/22 16:12	1
2-Fluorophenol (Surr)	69		31 - 166				11/29/22 07:31	12/04/22 16:12	1
Nitrobenzene-d5 (Surr)	55		37 - 147				11/29/22 07:31	12/04/22 16:12	1
Phenol-d5 (Surr)	57		30 - 153				11/29/22 07:31	12/04/22 16:12	1
Terphenyl-d14 (Surr)	93		42 - 157				11/29/22 07:31	12/04/22 16:12	1
2,4,6-Tribromophenol (Surr)	61		31 - 143				11/29/22 07:31	12/04/22 16:12	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.56	J F1	1.2	0.23	mg/Kg	✳	12/01/22 14:51	12/06/22 11:54	1
Arsenic	9.3	F1	0.59	0.20	mg/Kg	✳	12/01/22 14:51	12/06/22 11:54	1
Barium	38		0.59	0.068	mg/Kg	✳	12/01/22 14:51	12/06/22 11:54	1
Beryllium	0.71		0.24	0.055	mg/Kg	✳	12/01/22 14:51	12/06/22 11:54	1
Boron	11	F1	3.0	0.28	mg/Kg	✳	12/01/22 14:51	12/06/22 11:54	1
Cadmium	0.23		0.12	0.021	mg/Kg	✳	12/01/22 14:51	12/06/22 11:54	1
Calcium	64000	B F2	59	10	mg/Kg	✳	12/01/22 14:51	12/06/22 16:48	5
Chromium	14		0.59	0.29	mg/Kg	✳	12/01/22 14:51	12/06/22 11:54	1
Cobalt	13		0.30	0.078	mg/Kg	✳	12/01/22 14:51	12/06/22 11:54	1
Copper	26	F1	0.59	0.17	mg/Kg	✳	12/01/22 14:51	12/06/22 11:54	1
Iron	19000		12	6.2	mg/Kg	✳	12/01/22 14:51	12/06/22 11:54	1
Lead	16	F1	0.30	0.14	mg/Kg	✳	12/01/22 14:51	12/06/22 11:54	1
Magnesium	29000	B F2	5.9	2.9	mg/Kg	✳	12/01/22 14:51	12/06/22 11:54	1
Manganese	350	F2	0.59	0.086	mg/Kg	✳	12/01/22 14:51	12/06/22 11:54	1
Nickel	30		0.59	0.17	mg/Kg	✳	12/01/22 14:51	12/06/22 11:54	1
Potassium	2300	F1	30	10	mg/Kg	✳	12/01/22 14:51	12/06/22 11:54	1
Selenium	<0.59	F1	0.59	0.35	mg/Kg	✳	12/01/22 14:51	12/06/22 11:54	1
Silver	0.24	J F1	0.30	0.076	mg/Kg	✳	12/01/22 14:51	12/06/22 11:54	1
Sodium	970		59	8.8	mg/Kg	✳	12/01/22 14:51	12/06/22 11:54	1
Thallium	0.42	J	0.59	0.30	mg/Kg	✳	12/01/22 14:51	12/06/22 11:54	1
Vanadium	19		0.30	0.070	mg/Kg	✳	12/01/22 14:51	12/06/22 11:54	1
Zinc	66		1.2	0.52	mg/Kg	✳	12/01/22 14:51	12/06/22 11:54	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.52		0.50	0.050	mg/L		12/01/22 16:54	12/02/22 16:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/01/22 16:54	12/02/22 16:43	1
Boron	1.1	J B *+	1.6	0.050	mg/L		12/01/22 16:54	12/02/22 16:43	1
Cadmium	0.0024	J	0.0050	0.0020	mg/L		12/01/22 16:54	12/02/22 16:43	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B08 (0-5)

Lab Sample ID: 500-225545-3

Date Collected: 11/16/22 11:30

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 84.2

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:43	1
Cobalt	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:43	1
Iron	<0.40		0.40	0.20	mg/L		12/01/22 16:54	12/02/22 16:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/01/22 16:54	12/02/22 16:43	1
Manganese	4.7		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:43	1
Nickel	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:43	1
Selenium	<0.050		0.050	0.020	mg/L		12/01/22 16:54	12/02/22 16:43	1
Silver	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:43	1
Zinc	<0.50		0.50	0.020	mg/L		12/01/22 16:54	12/02/22 16:43	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.7		0.025	0.010	mg/L		12/01/22 17:06	12/05/22 22:26	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/01/22 16:54	12/02/22 16:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/01/22 16:54	12/02/22 16:10	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 10:45	12/05/22 09:49	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.018	0.0059	mg/Kg	☆	12/05/22 15:45	12/06/22 06:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.4		0.2	0.2	SU			11/21/22 17:09	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B08 (5-10)

Lab Sample ID: 500-225545-4

Date Collected: 11/16/22 11:35

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 81.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.039	J	0.045	0.0084	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
Benzene	<0.0045		0.0045	0.00082	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
Bromodichloromethane	<0.0045		0.0045	0.00035	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
Bromoform	<0.0091		0.0091	0.00058	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
Bromomethane	<0.018		0.018	0.0015	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
2-Butanone (MEK)	0.0050	J	0.018	0.0014	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
Carbon disulfide	<0.0045		0.0045	0.0011	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
Carbon tetrachloride	<0.0045		0.0045	0.0013	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
Chlorobenzene	<0.0045		0.0045	0.00070	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
Chloroethane	<0.018		0.018	0.0033	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
Chloroform	<0.0045	*	0.0045	0.0015	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
Chloromethane	<0.018		0.018	0.0030	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00051	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
Dibromochloromethane	<0.0045		0.0045	0.00020	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
1,1-Dichloroethane	<0.0045		0.0045	0.00039	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
1,2-Dichloroethane	<0.0045		0.0045	0.00028	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
1,1-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
1,2-Dichloropropane	<0.0045		0.0045	0.00039	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
1,3-Dichloropropane, Total	<0.0091		0.0091	0.0010	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
Ethylbenzene	<0.0045		0.0045	0.0022	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
2-Hexanone	<0.018		0.018	0.0021	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
Methylene Chloride	<0.045		0.045	0.026	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
4-Methyl-2-pentanone (MIBK)	<0.018		0.018	0.0015	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00020	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
Styrene	<0.0045		0.0045	0.0032	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00032	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
Tetrachloroethene	<0.0045		0.0045	0.00086	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
Toluene	<0.0045		0.0045	0.0030	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00055	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00050	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00042	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00029	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
Trichloroethene	<0.0045		0.0045	0.0013	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
Vinyl acetate	<0.0091		0.0091	0.0015	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
Vinyl chloride	<0.0091		0.0091	0.0032	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1
Xylenes, Total	<0.0091		0.0091	0.0033	mg/Kg	☼	11/23/22 08:03	11/24/22 02:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		77 - 120	11/23/22 08:03	11/24/22 02:42	1
Dibromofluoromethane (Surr)	110		80 - 123	11/23/22 08:03	11/24/22 02:42	1
Toluene-d8 (Surr)	92		76 - 120	11/23/22 08:03	11/24/22 02:42	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Benzo[a]anthracene	<0.040		0.040	0.0055	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Benzo[a]pyrene	0.0086	J	0.040	0.0079	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B08 (5-10)

Lab Sample ID: 500-225545-4

Date Collected: 11/16/22 11:35

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 81.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	0.011	J	0.040	0.0088	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0079	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Fluoranthene	0.0080	J	0.040	0.0075	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Hexachlorocyclopentadiene	<0.82	*-	0.82	0.23	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Naphthalene	0.0077	J	0.040	0.0062	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
3-Nitroaniline	<0.40	*-	0.40	0.13	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
4-Nitroaniline	<0.40	*-	0.40	0.17	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B08 (5-10)

Lab Sample ID: 500-225545-4

Date Collected: 11/16/22 11:35

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 81.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Phenanthrene	<0.040		0.040	0.0057	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Pyrene	<0.040		0.040	0.0081	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	11/29/22 07:31	12/04/22 16:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	103		43 - 145				11/29/22 07:31	12/04/22 16:36	1
2-Fluorophenol (Surr)	84		31 - 166				11/29/22 07:31	12/04/22 16:36	1
Nitrobenzene-d5 (Surr)	75		37 - 147				11/29/22 07:31	12/04/22 16:36	1
Phenol-d5 (Surr)	81		30 - 153				11/29/22 07:31	12/04/22 16:36	1
Terphenyl-d14 (Surr)	117		42 - 157				11/29/22 07:31	12/04/22 16:36	1
2,4,6-Tribromophenol (Surr)	78		31 - 143				11/29/22 07:31	12/04/22 16:36	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.62	J	1.2	0.23	mg/Kg	☼	12/01/22 14:51	12/06/22 12:14	1
Arsenic	9.1		0.59	0.20	mg/Kg	☼	12/01/22 14:51	12/06/22 12:14	1
Barium	62		0.59	0.067	mg/Kg	☼	12/01/22 14:51	12/06/22 12:14	1
Beryllium	0.94		0.24	0.055	mg/Kg	☼	12/01/22 14:51	12/06/22 12:14	1
Boron	8.9		2.9	0.27	mg/Kg	☼	12/01/22 14:51	12/06/22 12:14	1
Cadmium	0.15		0.12	0.021	mg/Kg	☼	12/01/22 14:51	12/06/22 12:14	1
Calcium	18000	B	12	2.0	mg/Kg	☼	12/01/22 14:51	12/06/22 12:14	1
Chromium	19		0.59	0.29	mg/Kg	☼	12/01/22 14:51	12/06/22 12:14	1
Cobalt	15		0.29	0.077	mg/Kg	☼	12/01/22 14:51	12/06/22 12:14	1
Copper	23		0.59	0.16	mg/Kg	☼	12/01/22 14:51	12/06/22 12:14	1
Iron	23000		12	6.1	mg/Kg	☼	12/01/22 14:51	12/06/22 12:14	1
Lead	20		0.29	0.14	mg/Kg	☼	12/01/22 14:51	12/06/22 12:14	1
Magnesium	12000	B	5.9	2.9	mg/Kg	☼	12/01/22 14:51	12/06/22 12:14	1
Manganese	460		0.59	0.085	mg/Kg	☼	12/01/22 14:51	12/06/22 12:14	1
Nickel	35		0.59	0.17	mg/Kg	☼	12/01/22 14:51	12/06/22 12:14	1
Potassium	2700		29	10	mg/Kg	☼	12/01/22 14:51	12/06/22 12:14	1
Selenium	0.51	J	0.59	0.35	mg/Kg	☼	12/01/22 14:51	12/06/22 12:14	1
Silver	0.34		0.29	0.076	mg/Kg	☼	12/01/22 14:51	12/06/22 12:14	1
Sodium	600		59	8.7	mg/Kg	☼	12/01/22 14:51	12/06/22 12:14	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	12/01/22 14:51	12/06/22 12:14	1
Vanadium	25		0.29	0.069	mg/Kg	☼	12/01/22 14:51	12/06/22 12:14	1
Zinc	69		1.2	0.52	mg/Kg	☼	12/01/22 14:51	12/06/22 12:14	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.70		0.50	0.050	mg/L		12/01/22 16:54	12/02/22 16:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/01/22 16:54	12/02/22 16:47	1
Boron	1.1	J B *+	1.6	0.050	mg/L		12/01/22 16:54	12/02/22 16:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/01/22 16:54	12/02/22 16:47	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B08 (5-10)

Lab Sample ID: 500-225545-4

Date Collected: 11/16/22 11:35

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 81.1

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:47	1
Cobalt	0.064		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:47	1
Iron	<0.40		0.40	0.20	mg/L		12/01/22 16:54	12/02/22 16:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/01/22 16:54	12/02/22 16:47	1
Manganese	10		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:47	1
Nickel	0.047		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:47	1
Selenium	<0.050		0.050	0.020	mg/L		12/01/22 16:54	12/02/22 16:47	1
Silver	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:47	1
Zinc	0.079 J		0.50	0.020	mg/L		12/01/22 16:54	12/02/22 16:47	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.92		0.025	0.010	mg/L		12/01/22 17:06	12/05/22 22:29	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/01/22 16:54	12/02/22 16:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/01/22 16:54	12/02/22 16:13	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 10:45	12/05/22 09:52	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.063		0.018	0.0061	mg/Kg	☆	12/05/22 15:45	12/06/22 06:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.8		0.2	0.2	SU			11/21/22 17:11	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B06 (0-5)

Lab Sample ID: 500-225545-7

Date Collected: 11/16/22 13:45

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 87.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.053		0.053	0.0097	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
Benzene	<0.0053		0.0053	0.00095	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
Bromodichloromethane	<0.0053		0.0053	0.00041	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
Bromoform	<0.011		0.011	0.00067	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
Bromomethane	<0.021		0.021	0.0017	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
2-Butanone (MEK)	<0.021		0.021	0.0016	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
Carbon disulfide	<0.0053		0.0053	0.0013	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
Carbon tetrachloride	<0.0053		0.0053	0.0015	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
Chlorobenzene	<0.0053		0.0053	0.00081	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
Chloroethane	<0.021		0.021	0.0038	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
Chloroform	<0.0053		0.0053	0.0018	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
Chloromethane	<0.021		0.021	0.0035	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.00079	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.00059	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
Dibromochloromethane	<0.0053		0.0053	0.00023	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
1,1-Dichloroethane	<0.0053		0.0053	0.00045	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
1,2-Dichloroethane	<0.0053		0.0053	0.00033	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
1,1-Dichloroethene	<0.0053		0.0053	0.00074	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
1,2-Dichloropropane	<0.0053		0.0053	0.00045	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
1,3-Dichloropropane, Total	<0.011		0.011	0.0012	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
Ethylbenzene	<0.0053		0.0053	0.0025	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
2-Hexanone	<0.021		0.021	0.0024	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
Methylene Chloride	<0.053		0.053	0.031	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
4-Methyl-2-pentanone (MIBK)	<0.021		0.021	0.0018	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
Methyl tert-butyl ether	<0.0053		0.0053	0.00023	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
Styrene	<0.0053		0.0053	0.0037	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
1,1,2,2-Tetrachloroethane	<0.0053		0.0053	0.00037	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
Tetrachloroethene	<0.0053		0.0053	0.0010	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
Toluene	<0.0053		0.0053	0.0035	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.00064	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.00058	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.00048	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.00034	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
Trichloroethene	<0.0053		0.0053	0.0015	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
Vinyl acetate	<0.011	*	0.011	0.0018	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
Vinyl chloride	<0.011		0.011	0.0037	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1
Xylenes, Total	<0.011		0.011	0.0038	mg/Kg	☼	11/23/22 08:09	11/24/22 07:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		77 - 120	11/23/22 08:09	11/24/22 07:40	1
Dibromofluoromethane (Surr)	108		80 - 123	11/23/22 08:09	11/24/22 07:40	1
Toluene-d8 (Surr)	93		76 - 120	11/23/22 08:09	11/24/22 07:40	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0066	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
Benzo[a]pyrene	<0.036		0.036	0.0071	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B06 (0-5)

Lab Sample ID: 500-225545-7

Date Collected: 11/16/22 13:45

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 87.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.036		0.036	0.0079	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
Carbazole	<0.18		0.18	0.092	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
2-Chlorophenol	<0.18		0.18	0.063	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
Chrysene	<0.036		0.036	0.010	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0071	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.30	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
Fluoranthene	<0.036		0.036	0.0068	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
Fluorene	<0.036		0.036	0.0052	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
Hexachlorobutadiene	<0.18		0.18	0.058	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
Hexachlorocyclopentadiene	<0.74	*-	0.74	0.21	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0095	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
2-Methylnaphthalene	<0.074		0.074	0.0068	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
3-Nitroaniline	<0.36	*-	0.36	0.11	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
4-Nitroaniline	<0.36	*-	0.36	0.15	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
Nitrobenzene	<0.036		0.036	0.0092	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
2-Nitrophenol	<0.36		0.36	0.087	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	11/29/22 07:31	12/04/22 17:48	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B06 (0-5)

Lab Sample ID: 500-225545-7

Date Collected: 11/16/22 13:45

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 87.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	✳	11/29/22 07:31	12/04/22 17:48	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	✳	11/29/22 07:31	12/04/22 17:48	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.043	mg/Kg	✳	11/29/22 07:31	12/04/22 17:48	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	✳	11/29/22 07:31	12/04/22 17:48	1
Phenanthrene	<0.036		0.036	0.0051	mg/Kg	✳	11/29/22 07:31	12/04/22 17:48	1
Phenol	<0.18		0.18	0.082	mg/Kg	✳	11/29/22 07:31	12/04/22 17:48	1
Pyrene	<0.036		0.036	0.0073	mg/Kg	✳	11/29/22 07:31	12/04/22 17:48	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	✳	11/29/22 07:31	12/04/22 17:48	1
2,4,5-Trichlorophenol	<0.36		0.36	0.084	mg/Kg	✳	11/29/22 07:31	12/04/22 17:48	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	✳	11/29/22 07:31	12/04/22 17:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	90		43 - 145				11/29/22 07:31	12/04/22 17:48	1
2-Fluorophenol (Surr)	79		31 - 166				11/29/22 07:31	12/04/22 17:48	1
Nitrobenzene-d5 (Surr)	64		37 - 147				11/29/22 07:31	12/04/22 17:48	1
Phenol-d5 (Surr)	57		30 - 153				11/29/22 07:31	12/04/22 17:48	1
Terphenyl-d14 (Surr)	118		42 - 157				11/29/22 07:31	12/04/22 17:48	1
2,4,6-Tribromophenol (Surr)	62		31 - 143				11/29/22 07:31	12/04/22 17:48	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.66	J	1.1	0.22	mg/Kg	✳	12/01/22 14:51	12/06/22 12:30	1
Arsenic	9.7		0.57	0.19	mg/Kg	✳	12/01/22 14:51	12/06/22 12:30	1
Barium	44		0.57	0.065	mg/Kg	✳	12/01/22 14:51	12/06/22 12:30	1
Beryllium	0.83		0.23	0.053	mg/Kg	✳	12/01/22 14:51	12/06/22 12:30	1
Boron	10		2.8	0.26	mg/Kg	✳	12/01/22 14:51	12/06/22 12:30	1
Cadmium	0.20		0.11	0.020	mg/Kg	✳	12/01/22 14:51	12/06/22 12:30	1
Calcium	34000	B	11	1.9	mg/Kg	✳	12/01/22 14:51	12/06/22 12:30	1
Chromium	16		0.57	0.28	mg/Kg	✳	12/01/22 14:51	12/06/22 12:30	1
Cobalt	13		0.28	0.074	mg/Kg	✳	12/01/22 14:51	12/06/22 12:30	1
Copper	26		0.57	0.16	mg/Kg	✳	12/01/22 14:51	12/06/22 12:30	1
Iron	20000		11	5.9	mg/Kg	✳	12/01/22 14:51	12/06/22 12:30	1
Lead	18		0.28	0.13	mg/Kg	✳	12/01/22 14:51	12/06/22 12:30	1
Magnesium	21000	B	5.7	2.8	mg/Kg	✳	12/01/22 14:51	12/06/22 12:30	1
Manganese	370		0.57	0.082	mg/Kg	✳	12/01/22 14:51	12/06/22 12:30	1
Nickel	32		0.57	0.17	mg/Kg	✳	12/01/22 14:51	12/06/22 12:30	1
Potassium	2200		28	10	mg/Kg	✳	12/01/22 14:51	12/06/22 12:30	1
Selenium	0.42	J	0.57	0.33	mg/Kg	✳	12/01/22 14:51	12/06/22 12:30	1
Silver	0.27	J	0.28	0.073	mg/Kg	✳	12/01/22 14:51	12/06/22 12:30	1
Sodium	690		57	8.4	mg/Kg	✳	12/01/22 14:51	12/06/22 12:30	1
Thallium	0.43	J	0.57	0.28	mg/Kg	✳	12/01/22 14:51	12/06/22 12:30	1
Vanadium	22		0.28	0.067	mg/Kg	✳	12/01/22 14:51	12/06/22 12:30	1
Zinc	64		1.1	0.50	mg/Kg	✳	12/01/22 14:51	12/06/22 17:13	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.38	J	0.50	0.050	mg/L		12/01/22 16:54	12/02/22 16:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/01/22 16:54	12/02/22 16:56	1
Boron	0.86	J B *+	1.6	0.050	mg/L		12/01/22 16:54	12/02/22 16:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/01/22 16:54	12/02/22 16:56	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B06 (0-5)

Lab Sample ID: 500-225545-7

Date Collected: 11/16/22 13:45

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 87.4

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:56	1
Cobalt	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:56	1
Iron	0.56		0.40	0.20	mg/L		12/01/22 16:54	12/02/22 16:56	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/01/22 16:54	12/02/22 16:56	1
Manganese	0.67		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:56	1
Nickel	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:56	1
Selenium	<0.050		0.050	0.020	mg/L		12/01/22 16:54	12/02/22 16:56	1
Silver	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:56	1
Zinc	<0.50		0.50	0.020	mg/L		12/01/22 16:54	12/02/22 16:56	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.60		0.025	0.010	mg/L		12/01/22 17:06	12/05/22 22:39	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/01/22 16:54	12/02/22 16:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/01/22 16:54	12/02/22 16:24	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 10:45	12/05/22 10:02	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.018	0.0060	mg/Kg	☆	12/05/22 15:45	12/06/22 06:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.5		0.2	0.2	SU			11/21/22 17:18	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B06 (5-10)

Lab Sample ID: 500-225545-8

Date Collected: 11/16/22 12:20

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 85.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.041		0.041	0.0075	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
Benzene	<0.0041		0.0041	0.00073	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
Bromodichloromethane	<0.0041		0.0041	0.00032	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
Bromoform	<0.0081		0.0081	0.00052	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
Bromomethane	<0.016		0.016	0.0013	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
2-Butanone (MEK)	<0.016		0.016	0.0012	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
Carbon disulfide	<0.0041		0.0041	0.00097	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
Carbon tetrachloride	<0.0041		0.0041	0.0011	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
Chlorobenzene	<0.0041		0.0041	0.00062	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
Chloroethane	<0.016		0.016	0.0029	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
Chloroform	<0.0041		0.0041	0.0014	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
Chloromethane	<0.016		0.016	0.0027	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00061	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00045	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
Dibromochloromethane	<0.0041		0.0041	0.00018	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
1,1-Dichloroethane	<0.0041		0.0041	0.00035	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
1,2-Dichloroethane	<0.0041		0.0041	0.00025	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
1,1-Dichloroethene	<0.0041		0.0041	0.00057	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
1,2-Dichloropropane	<0.0041		0.0041	0.00035	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
1,3-Dichloropropene, Total	<0.0081		0.0081	0.00089	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
Ethylbenzene	<0.0041		0.0041	0.0019	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
2-Hexanone	<0.016		0.016	0.0019	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
Methylene Chloride	<0.041		0.041	0.024	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
4-Methyl-2-pentanone (MIBK)	<0.016		0.016	0.0014	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00018	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
Styrene	<0.0041		0.0041	0.0028	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00028	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
Tetrachloroethene	<0.0041		0.0041	0.00077	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
Toluene	<0.0041		0.0041	0.0027	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00049	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00045	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00037	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00026	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
Vinyl acetate	<0.0081	*	0.0081	0.0014	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
Vinyl chloride	<0.0081		0.0081	0.0028	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1
Xylenes, Total	<0.0081		0.0081	0.0029	mg/Kg	☼	11/23/22 08:09	11/24/22 08:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		77 - 120	11/23/22 08:09	11/24/22 08:05	1
Dibromofluoromethane (Surr)	109		80 - 123	11/23/22 08:09	11/24/22 08:05	1
Toluene-d8 (Surr)	93		76 - 120	11/23/22 08:09	11/24/22 08:05	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B06 (5-10)

Lab Sample ID: 500-225545-8

Date Collected: 11/16/22 12:20

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 85.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.038		0.038	0.0084	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
Hexachlorocyclopentadiene	<0.78	*	0.78	0.22	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
3-Nitroaniline	<0.38	*	0.38	0.12	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
4-Nitroaniline	<0.38	*	0.38	0.16	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	11/29/22 07:31	12/04/22 18:12	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B06 (5-10)

Lab Sample ID: 500-225545-8

Date Collected: 11/16/22 12:20

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 85.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	✳	11/29/22 07:31	12/04/22 18:12	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	✳	11/29/22 07:31	12/04/22 18:12	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	✳	11/29/22 07:31	12/04/22 18:12	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	✳	11/29/22 07:31	12/04/22 18:12	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	✳	11/29/22 07:31	12/04/22 18:12	1
Phenol	<0.19		0.19	0.086	mg/Kg	✳	11/29/22 07:31	12/04/22 18:12	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	✳	11/29/22 07:31	12/04/22 18:12	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	✳	11/29/22 07:31	12/04/22 18:12	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	✳	11/29/22 07:31	12/04/22 18:12	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	✳	11/29/22 07:31	12/04/22 18:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	106		43 - 145				11/29/22 07:31	12/04/22 18:12	1
2-Fluorophenol (Surr)	93		31 - 166				11/29/22 07:31	12/04/22 18:12	1
Nitrobenzene-d5 (Surr)	69		37 - 147				11/29/22 07:31	12/04/22 18:12	1
Phenol-d5 (Surr)	76		30 - 153				11/29/22 07:31	12/04/22 18:12	1
Terphenyl-d14 (Surr)	121		42 - 157				11/29/22 07:31	12/04/22 18:12	1
2,4,6-Tribromophenol (Surr)	67		31 - 143				11/29/22 07:31	12/04/22 18:12	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.64	J	1.1	0.22	mg/Kg	✳	12/01/22 14:51	12/06/22 12:33	1
Arsenic	10		0.57	0.19	mg/Kg	✳	12/01/22 14:51	12/06/22 12:33	1
Barium	41		2.8	0.32	mg/Kg	✳	12/01/22 14:51	12/06/22 17:16	5
Beryllium	0.70		0.23	0.053	mg/Kg	✳	12/01/22 14:51	12/06/22 12:33	1
Boron	9.9		2.8	0.27	mg/Kg	✳	12/01/22 14:51	12/06/22 12:33	1
Cadmium	0.16		0.11	0.021	mg/Kg	✳	12/01/22 14:51	12/06/22 12:33	1
Calcium	76000	B	57	9.7	mg/Kg	✳	12/01/22 14:51	12/06/22 17:16	5
Chromium	13		0.57	0.28	mg/Kg	✳	12/01/22 14:51	12/06/22 12:33	1
Cobalt	13		0.28	0.075	mg/Kg	✳	12/01/22 14:51	12/06/22 12:33	1
Copper	24		0.57	0.16	mg/Kg	✳	12/01/22 14:51	12/06/22 12:33	1
Iron	24000		57	30	mg/Kg	✳	12/01/22 14:51	12/06/22 17:16	5
Lead	16		0.28	0.13	mg/Kg	✳	12/01/22 14:51	12/06/22 12:33	1
Magnesium	46000	B	28	14	mg/Kg	✳	12/01/22 14:51	12/06/22 17:16	5
Manganese	330		0.57	0.083	mg/Kg	✳	12/01/22 14:51	12/06/22 12:33	1
Nickel	29		0.57	0.17	mg/Kg	✳	12/01/22 14:51	12/06/22 12:33	1
Potassium	2000		28	10	mg/Kg	✳	12/01/22 14:51	12/06/22 12:33	1
Selenium	<0.57		0.57	0.33	mg/Kg	✳	12/01/22 14:51	12/06/22 12:33	1
Silver	0.20	J	0.28	0.073	mg/Kg	✳	12/01/22 14:51	12/06/22 12:33	1
Sodium	660		57	8.4	mg/Kg	✳	12/01/22 14:51	12/06/22 12:33	1
Thallium	0.63		0.57	0.28	mg/Kg	✳	12/01/22 14:51	12/06/22 12:33	1
Vanadium	18		0.28	0.067	mg/Kg	✳	12/01/22 14:51	12/06/22 12:33	1
Zinc	58		5.7	2.5	mg/Kg	✳	12/01/22 14:51	12/06/22 17:16	5

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.23	J	0.50	0.050	mg/L		12/01/22 16:54	12/02/22 18:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/01/22 16:54	12/02/22 18:05	1
Boron	0.81	J B *+	1.6	0.050	mg/L		12/01/22 16:54	12/02/22 18:05	1
Cadmium	0.0026	J	0.0050	0.0020	mg/L		12/01/22 16:54	12/02/22 18:05	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B06 (5-10)

Lab Sample ID: 500-225545-8

Date Collected: 11/16/22 12:20

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 85.3

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 18:05	1
Cobalt	0.038		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 18:05	1
Iron	<0.40		0.40	0.20	mg/L		12/01/22 16:54	12/02/22 18:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/01/22 16:54	12/02/22 18:05	1
Manganese	3.9		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 18:05	1
Nickel	0.035		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 18:05	1
Selenium	<0.050		0.050	0.020	mg/L		12/01/22 16:54	12/02/22 18:05	1
Silver	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 18:05	1
Zinc	<0.50		0.50	0.020	mg/L		12/01/22 16:54	12/02/22 18:05	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.72		0.025	0.010	mg/L		12/01/22 17:06	12/05/22 22:42	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/01/22 16:54	12/02/22 17:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/01/22 16:54	12/02/22 17:39	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 10:45	12/05/22 10:53	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.019	0.0063	mg/Kg	☆	12/05/22 15:45	12/06/22 06:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.7		0.2	0.2	SU			11/21/22 17:21	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B05 (0-5)

Lab Sample ID: 500-225545-9

Date Collected: 11/16/22 12:25

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 80.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.047		0.047	0.0086	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
Benzene	<0.0047		0.0047	0.00084	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
Bromodichloromethane	<0.0047		0.0047	0.00036	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
Bromoform	<0.0093		0.0093	0.00060	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
Bromomethane	<0.019		0.019	0.0015	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
2-Butanone (MEK)	<0.019		0.019	0.0014	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
Carbon disulfide	<0.0047		0.0047	0.0011	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
Carbon tetrachloride	<0.0047		0.0047	0.0013	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
Chlorobenzene	<0.0047		0.0047	0.00072	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
Chloroethane	<0.019		0.019	0.0034	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
Chloroform	<0.0047		0.0047	0.0016	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
Chloromethane	<0.019		0.019	0.0031	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00070	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00052	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
Dibromochloromethane	<0.0047		0.0047	0.00020	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
1,1-Dichloroethane	<0.0047		0.0047	0.00040	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
1,2-Dichloroethane	<0.0047		0.0047	0.00029	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
1,1-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
1,2-Dichloropropane	<0.0047		0.0047	0.00040	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
1,3-Dichloropropane, Total	<0.0093		0.0093	0.0010	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
Ethylbenzene	<0.0047		0.0047	0.0022	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
2-Hexanone	<0.019		0.019	0.0021	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
Methylene Chloride	<0.047		0.047	0.027	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
4-Methyl-2-pentanone (MIBK)	<0.019		0.019	0.0016	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00020	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
Styrene	<0.0047		0.0047	0.0033	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00033	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
Tetrachloroethene	<0.0047		0.0047	0.00088	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
Toluene	<0.0047		0.0047	0.0031	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00057	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00051	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00043	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00030	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
Vinyl acetate	<0.0093	*	0.0093	0.0016	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
Vinyl chloride	<0.0093		0.0093	0.0033	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1
Xylenes, Total	<0.0093		0.0093	0.0034	mg/Kg	☼	11/23/22 08:09	11/24/22 08:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		77 - 120	11/23/22 08:09	11/24/22 08:30	1
Dibromofluoromethane (Surr)	111		80 - 123	11/23/22 08:09	11/24/22 08:30	1
Toluene-d8 (Surr)	91		76 - 120	11/23/22 08:09	11/24/22 08:30	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B05 (0-5)

Lab Sample ID: 500-225545-9

Date Collected: 11/16/22 12:25

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 80.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
4-Chloroaniline	<0.84		0.84	0.19	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.33	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
Hexachlorobenzene	<0.084		0.084	0.0096	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
Hexachlorocyclopentadiene	<0.84	*	0.84	0.24	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
2-Methylnaphthalene	<0.084		0.084	0.0076	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
3-Nitroaniline	<0.41	*	0.41	0.13	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
4-Nitroaniline	<0.41	*	0.41	0.17	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1
4-Nitrophenol	<0.84		0.84	0.39	mg/Kg	☼	11/29/22 07:31	12/04/22 18:36	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B05 (0-5)

Lab Sample ID: 500-225545-9

Date Collected: 11/16/22 12:25

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 80.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☆	11/29/22 07:31	12/04/22 18:36	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☆	11/29/22 07:31	12/04/22 18:36	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☆	11/29/22 07:31	12/04/22 18:36	1
Pentachlorophenol	<0.84		0.84	0.66	mg/Kg	☆	11/29/22 07:31	12/04/22 18:36	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☆	11/29/22 07:31	12/04/22 18:36	1
Phenol	<0.21		0.21	0.092	mg/Kg	☆	11/29/22 07:31	12/04/22 18:36	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☆	11/29/22 07:31	12/04/22 18:36	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☆	11/29/22 07:31	12/04/22 18:36	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☆	11/29/22 07:31	12/04/22 18:36	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☆	11/29/22 07:31	12/04/22 18:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	80		43 - 145				11/29/22 07:31	12/04/22 18:36	1
2-Fluorophenol (Surr)	62		31 - 166				11/29/22 07:31	12/04/22 18:36	1
Nitrobenzene-d5 (Surr)	56		37 - 147				11/29/22 07:31	12/04/22 18:36	1
Phenol-d5 (Surr)	53		30 - 153				11/29/22 07:31	12/04/22 18:36	1
Terphenyl-d14 (Surr)	97		42 - 157				11/29/22 07:31	12/04/22 18:36	1
2,4,6-Tribromophenol (Surr)	56		31 - 143				11/29/22 07:31	12/04/22 18:36	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.58	J	1.2	0.23	mg/Kg	☆	12/01/22 14:51	12/06/22 12:36	1
Arsenic	9.8		0.59	0.20	mg/Kg	☆	12/01/22 14:51	12/06/22 12:36	1
Barium	55		0.59	0.068	mg/Kg	☆	12/01/22 14:51	12/06/22 12:36	1
Beryllium	0.83		0.24	0.055	mg/Kg	☆	12/01/22 14:51	12/06/22 12:36	1
Boron	10		3.0	0.28	mg/Kg	☆	12/01/22 14:51	12/06/22 12:36	1
Cadmium	0.29		0.12	0.021	mg/Kg	☆	12/01/22 14:51	12/06/22 12:36	1
Calcium	65000	B	59	10	mg/Kg	☆	12/01/22 14:51	12/06/22 17:19	5
Chromium	17		0.59	0.29	mg/Kg	☆	12/01/22 14:51	12/06/22 12:36	1
Cobalt	13		0.30	0.078	mg/Kg	☆	12/01/22 14:51	12/06/22 12:36	1
Copper	25		0.59	0.17	mg/Kg	☆	12/01/22 14:51	12/06/22 12:36	1
Iron	21000		12	6.2	mg/Kg	☆	12/01/22 14:51	12/06/22 12:36	1
Lead	33		0.30	0.14	mg/Kg	☆	12/01/22 14:51	12/06/22 12:36	1
Magnesium	32000	B	5.9	2.9	mg/Kg	☆	12/01/22 14:51	12/06/22 12:36	1
Manganese	510		0.59	0.086	mg/Kg	☆	12/01/22 14:51	12/06/22 12:36	1
Nickel	32		0.59	0.17	mg/Kg	☆	12/01/22 14:51	12/06/22 12:36	1
Potassium	2300		30	10	mg/Kg	☆	12/01/22 14:51	12/06/22 12:36	1
Selenium	<0.59		0.59	0.35	mg/Kg	☆	12/01/22 14:51	12/06/22 12:36	1
Silver	0.28	J	0.30	0.076	mg/Kg	☆	12/01/22 14:51	12/06/22 12:36	1
Sodium	2100		59	8.8	mg/Kg	☆	12/01/22 14:51	12/06/22 12:36	1
Thallium	<0.59		0.59	0.30	mg/Kg	☆	12/01/22 14:51	12/06/22 12:36	1
Vanadium	22		0.30	0.070	mg/Kg	☆	12/01/22 14:51	12/06/22 12:36	1
Zinc	69		5.9	2.6	mg/Kg	☆	12/01/22 14:51	12/06/22 17:19	5

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.45	J	0.50	0.050	mg/L		12/01/22 16:54	12/02/22 17:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/01/22 16:54	12/02/22 17:00	1
Boron	0.88	J B *+	1.6	0.050	mg/L		12/01/22 16:54	12/02/22 17:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/01/22 16:54	12/02/22 17:00	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B05 (0-5)

Lab Sample ID: 500-225545-9

Date Collected: 11/16/22 12:25

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 80.2

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:00	1
Cobalt	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:00	1
Iron	0.30	J	0.40	0.20	mg/L		12/01/22 16:54	12/02/22 17:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/01/22 16:54	12/02/22 17:00	1
Manganese	1.1		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:00	1
Nickel	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:00	1
Selenium	<0.050		0.050	0.020	mg/L		12/01/22 16:54	12/02/22 17:00	1
Silver	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:00	1
Zinc	<0.50		0.50	0.020	mg/L		12/01/22 16:54	12/02/22 17:00	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.3		0.025	0.010	mg/L		12/01/22 17:06	12/05/22 22:45	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/01/22 16:54	12/02/22 16:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/01/22 16:54	12/02/22 16:27	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 10:45	12/05/22 10:04	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.020	0.0066	mg/Kg	☆	12/05/22 15:45	12/06/22 06:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.8		0.2	0.2	SU			11/21/22 17:23	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B05 (5-10)

Lab Sample ID: 500-225545-10

Date Collected: 11/16/22 12:30

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 81.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.047		0.047	0.0087	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
Benzene	<0.0047		0.0047	0.00085	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
Bromodichloromethane	<0.0047		0.0047	0.00037	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
Bromoform	<0.0095		0.0095	0.00061	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
Bromomethane	<0.019		0.019	0.0015	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
2-Butanone (MEK)	<0.019		0.019	0.0014	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
Carbon disulfide	<0.0047		0.0047	0.0011	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
Carbon tetrachloride	<0.0047		0.0047	0.0013	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
Chlorobenzene	<0.0047		0.0047	0.00073	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
Chloroethane	<0.019		0.019	0.0034	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
Chloroform	<0.0047		0.0047	0.0016	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
Chloromethane	<0.019		0.019	0.0031	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00071	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00053	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
Dibromochloromethane	<0.0047		0.0047	0.00021	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
1,1-Dichloroethane	<0.0047		0.0047	0.00041	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
1,2-Dichloroethane	<0.0047		0.0047	0.00029	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
1,1-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
1,2-Dichloropropane	<0.0047		0.0047	0.00041	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
1,3-Dichloropropene, Total	<0.0095		0.0095	0.0010	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
Ethylbenzene	<0.0047		0.0047	0.0023	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
2-Hexanone	<0.019		0.019	0.0022	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
Methylene Chloride	<0.047		0.047	0.028	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
4-Methyl-2-pentanone (MIBK)	<0.019		0.019	0.0016	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00021	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
Styrene	<0.0047		0.0047	0.0033	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00033	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
Tetrachloroethene	<0.0047		0.0047	0.00090	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
Toluene	<0.0047		0.0047	0.0031	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00058	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00052	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00044	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00030	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
Vinyl acetate	<0.0095	*	0.0095	0.0016	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
Vinyl chloride	<0.0095		0.0095	0.0033	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1
Xylenes, Total	<0.0095		0.0095	0.0034	mg/Kg	☼	11/23/22 08:09	11/24/22 08:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		77 - 120	11/23/22 08:09	11/24/22 08:55	1
Dibromofluoromethane (Surr)	108		80 - 123	11/23/22 08:09	11/24/22 08:55	1
Toluene-d8 (Surr)	94		76 - 120	11/23/22 08:09	11/24/22 08:55	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
Benzo[a]anthracene	0.040		0.040	0.0054	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
Benzo[a]pyrene	0.065	*3	0.040	0.0078	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B05 (5-10)

Lab Sample ID: 500-225545-10

Date Collected: 11/16/22 12:30

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 81.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	0.11	*3	0.040	0.0087	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
Benzo[g,h,i]perylene	0.024	J *3	0.040	0.013	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
Benzo[k]fluoranthene	0.040	*3	0.040	0.012	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
Chrysene	0.061		0.040	0.011	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
Dibenz(a,h)anthracene	0.0090	J *3	0.040	0.0077	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
Fluoranthene	0.088		0.040	0.0074	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
Hexachlorocyclopentadiene	<0.81	*-	0.81	0.23	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
Indeno[1,2,3-cd]pyrene	0.026	J *3	0.040	0.010	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
3-Nitroaniline	<0.40	*-	0.40	0.12	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
4-Nitroaniline	<0.40	*-	0.40	0.17	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	11/29/22 07:31	12/04/22 19:00	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B05 (5-10)

Lab Sample ID: 500-225545-10

Date Collected: 11/16/22 12:30

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 81.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☆	11/29/22 07:31	12/04/22 19:00	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☆	11/29/22 07:31	12/04/22 19:00	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☆	11/29/22 07:31	12/04/22 19:00	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☆	11/29/22 07:31	12/04/22 19:00	1
Phenanthrene	0.022	J	0.040	0.0056	mg/Kg	☆	11/29/22 07:31	12/04/22 19:00	1
Phenol	<0.20		0.20	0.089	mg/Kg	☆	11/29/22 07:31	12/04/22 19:00	1
Pyrene	0.074		0.040	0.0080	mg/Kg	☆	11/29/22 07:31	12/04/22 19:00	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☆	11/29/22 07:31	12/04/22 19:00	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☆	11/29/22 07:31	12/04/22 19:00	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☆	11/29/22 07:31	12/04/22 19:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	74		43 - 145				11/29/22 07:31	12/04/22 19:00	1
2-Fluorophenol (Surr)	68		31 - 166				11/29/22 07:31	12/04/22 19:00	1
Nitrobenzene-d5 (Surr)	53		37 - 147				11/29/22 07:31	12/04/22 19:00	1
Phenol-d5 (Surr)	67		30 - 153				11/29/22 07:31	12/04/22 19:00	1
Terphenyl-d14 (Surr)	114		42 - 157				11/29/22 07:31	12/04/22 19:00	1
2,4,6-Tribromophenol (Surr)	63		31 - 143				11/29/22 07:31	12/04/22 19:00	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.58	J	1.2	0.24	mg/Kg	☆	12/01/22 14:51	12/06/22 12:39	1
Arsenic	8.3		0.61	0.21	mg/Kg	☆	12/01/22 14:51	12/06/22 12:39	1
Barium	66		0.61	0.069	mg/Kg	☆	12/01/22 14:51	12/06/22 12:39	1
Beryllium	0.79		0.24	0.057	mg/Kg	☆	12/01/22 14:51	12/06/22 12:39	1
Boron	11		3.0	0.28	mg/Kg	☆	12/01/22 14:51	12/06/22 12:39	1
Cadmium	0.77		0.12	0.022	mg/Kg	☆	12/01/22 14:51	12/06/22 12:39	1
Calcium	64000	B	61	10	mg/Kg	☆	12/01/22 14:51	12/06/22 17:22	5
Chromium	20		0.61	0.30	mg/Kg	☆	12/01/22 14:51	12/06/22 12:39	1
Cobalt	11		0.30	0.080	mg/Kg	☆	12/01/22 14:51	12/06/22 12:39	1
Copper	23		0.61	0.17	mg/Kg	☆	12/01/22 14:51	12/06/22 12:39	1
Iron	20000		12	6.3	mg/Kg	☆	12/01/22 14:51	12/06/22 12:39	1
Lead	30		0.30	0.14	mg/Kg	☆	12/01/22 14:51	12/06/22 12:39	1
Magnesium	28000	B	6.1	3.0	mg/Kg	☆	12/01/22 14:51	12/06/22 12:39	1
Manganese	440		0.61	0.088	mg/Kg	☆	12/01/22 14:51	12/06/22 12:39	1
Nickel	29		0.61	0.18	mg/Kg	☆	12/01/22 14:51	12/06/22 12:39	1
Potassium	2300		30	11	mg/Kg	☆	12/01/22 14:51	12/06/22 12:39	1
Selenium	<0.61		0.61	0.36	mg/Kg	☆	12/01/22 14:51	12/06/22 12:39	1
Silver	0.26	J	0.30	0.078	mg/Kg	☆	12/01/22 14:51	12/06/22 12:39	1
Sodium	1600		61	9.0	mg/Kg	☆	12/01/22 14:51	12/06/22 12:39	1
Thallium	0.40	J	0.61	0.30	mg/Kg	☆	12/01/22 14:51	12/06/22 12:39	1
Vanadium	22		0.30	0.072	mg/Kg	☆	12/01/22 14:51	12/06/22 12:39	1
Zinc	70		6.1	2.7	mg/Kg	☆	12/01/22 14:51	12/06/22 17:22	5

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.64		0.50	0.050	mg/L		12/01/22 16:54	12/02/22 18:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/01/22 16:54	12/02/22 18:08	1
Boron	0.80	J B *+	1.6	0.050	mg/L		12/01/22 16:54	12/02/22 18:08	1
Cadmium	0.0049	J	0.0050	0.0020	mg/L		12/01/22 16:54	12/02/22 18:08	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B05 (5-10)

Lab Sample ID: 500-225545-10

Date Collected: 11/16/22 12:30

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 81.7

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 18:08	1
Cobalt	0.11		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 18:08	1
Iron	1.5		0.40	0.20	mg/L		12/01/22 16:54	12/02/22 18:08	1
Lead	0.0094		0.0075	0.0075	mg/L		12/01/22 16:54	12/02/22 18:08	1
Manganese	14		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 18:08	1
Nickel	0.082		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 18:08	1
Selenium	<0.050		0.050	0.020	mg/L		12/01/22 16:54	12/02/22 18:08	1
Silver	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 18:08	1
Zinc	0.046 J		0.50	0.020	mg/L		12/01/22 16:54	12/02/22 18:08	1

Method: SW846 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.16		0.0075	0.0075	mg/L		12/01/22 17:06	12/05/22 22:48	1
Manganese	2.6		0.025	0.010	mg/L		12/01/22 17:06	12/05/22 22:48	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/01/22 16:54	12/02/22 17:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/01/22 16:54	12/02/22 17:43	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 10:45	12/05/22 10:55	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.020	0.0065	mg/Kg	☆	12/05/22 15:45	12/06/22 06:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.3		0.2	0.2	SU			11/21/22 17:26	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B04 (0-5)

Lab Sample ID: 500-225545-11

Date Collected: 11/16/22 12:45

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 88.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.049		0.049	0.0091	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
Benzene	<0.0049		0.0049	0.00089	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
Bromodichloromethane	<0.0049		0.0049	0.00038	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
Bromoform	<0.0099		0.0099	0.00063	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
Bromomethane	<0.020		0.020	0.0016	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
2-Butanone (MEK)	<0.020		0.020	0.0015	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
Carbon disulfide	<0.0049		0.0049	0.0012	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
Carbon tetrachloride	<0.0049		0.0049	0.0014	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
Chlorobenzene	<0.0049		0.0049	0.00076	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
Chloroethane	<0.020		0.020	0.0036	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
Chloroform	<0.0049		0.0049	0.0017	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
Chloromethane	<0.020		0.020	0.0033	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00074	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00055	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
Dibromochloromethane	<0.0049		0.0049	0.00022	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
1,1-Dichloroethane	<0.0049		0.0049	0.00042	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
1,2-Dichloroethane	<0.0049		0.0049	0.00031	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
1,1-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
1,2-Dichloropropane	<0.0049		0.0049	0.00042	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
1,3-Dichloropropene, Total	<0.0099		0.0099	0.0011	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
Ethylbenzene	<0.0049		0.0049	0.0024	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
2-Hexanone	<0.020		0.020	0.0023	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
Methylene Chloride	<0.049		0.049	0.029	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
4-Methyl-2-pentanone (MIBK)	<0.020		0.020	0.0017	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00022	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
Styrene	<0.0049		0.0049	0.0035	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00035	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
Tetrachloroethene	<0.0049		0.0049	0.00094	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
Toluene	<0.0049		0.0049	0.0033	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00060	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00054	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00045	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00032	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
Trichloroethene	<0.0049		0.0049	0.0014	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
Vinyl acetate	<0.0099	*	0.0099	0.0017	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
Vinyl chloride	<0.0099		0.0099	0.0035	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1
Xylenes, Total	<0.0099		0.0099	0.0036	mg/Kg	☼	11/23/22 08:09	11/24/22 09:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		77 - 120	11/23/22 08:09	11/24/22 09:19	1
Dibromofluoromethane (Surr)	110		80 - 123	11/23/22 08:09	11/24/22 09:19	1
Toluene-d8 (Surr)	91		76 - 120	11/23/22 08:09	11/24/22 09:19	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B04 (0-5)

Lab Sample ID: 500-225545-11

Date Collected: 11/16/22 12:45

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 88.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
Hexachlorocyclopentadiene	<0.75	*	0.75	0.21	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
2-Methylnaphthalene	<0.075		0.075	0.0069	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
Naphthalene	0.0092	J	0.037	0.0058	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
3-Nitroaniline	<0.37	*	0.37	0.12	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
4-Nitroaniline	<0.37	*	0.37	0.16	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	☼	11/29/22 07:31	12/04/22 19:24	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B04 (0-5)

Lab Sample ID: 500-225545-11

Date Collected: 11/16/22 12:45

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 88.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	✳	11/29/22 07:31	12/04/22 19:24	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	✳	11/29/22 07:31	12/04/22 19:24	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	✳	11/29/22 07:31	12/04/22 19:24	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	✳	11/29/22 07:31	12/04/22 19:24	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	✳	11/29/22 07:31	12/04/22 19:24	1
Phenol	<0.19		0.19	0.083	mg/Kg	✳	11/29/22 07:31	12/04/22 19:24	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	✳	11/29/22 07:31	12/04/22 19:24	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	✳	11/29/22 07:31	12/04/22 19:24	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	✳	11/29/22 07:31	12/04/22 19:24	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	✳	11/29/22 07:31	12/04/22 19:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	94		43 - 145				11/29/22 07:31	12/04/22 19:24	1
2-Fluorophenol (Surr)	62		31 - 166				11/29/22 07:31	12/04/22 19:24	1
Nitrobenzene-d5 (Surr)	64		37 - 147				11/29/22 07:31	12/04/22 19:24	1
Phenol-d5 (Surr)	70		30 - 153				11/29/22 07:31	12/04/22 19:24	1
Terphenyl-d14 (Surr)	114		42 - 157				11/29/22 07:31	12/04/22 19:24	1
2,4,6-Tribromophenol (Surr)	63		31 - 143				11/29/22 07:31	12/04/22 19:24	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.54	J	1.1	0.21	mg/Kg	✳	12/01/22 14:51	12/06/22 12:42	1
Arsenic	10		0.53	0.18	mg/Kg	✳	12/01/22 14:51	12/06/22 12:42	1
Barium	26		0.53	0.061	mg/Kg	✳	12/01/22 14:51	12/06/22 12:42	1
Beryllium	0.66		0.21	0.050	mg/Kg	✳	12/01/22 14:51	12/06/22 12:42	1
Boron	9.5		2.7	0.25	mg/Kg	✳	12/01/22 14:51	12/06/22 12:42	1
Cadmium	0.24		0.11	0.019	mg/Kg	✳	12/01/22 14:51	12/06/22 12:42	1
Calcium	67000	B	53	9.0	mg/Kg	✳	12/01/22 14:51	12/06/22 17:25	5
Chromium	13		0.53	0.26	mg/Kg	✳	12/01/22 14:51	12/06/22 12:42	1
Cobalt	12		0.27	0.070	mg/Kg	✳	12/01/22 14:51	12/06/22 12:42	1
Copper	22		0.53	0.15	mg/Kg	✳	12/01/22 14:51	12/06/22 12:42	1
Iron	18000		11	5.5	mg/Kg	✳	12/01/22 14:51	12/06/22 12:42	1
Lead	15		0.27	0.12	mg/Kg	✳	12/01/22 14:51	12/06/22 12:42	1
Magnesium	30000	B	5.3	2.6	mg/Kg	✳	12/01/22 14:51	12/06/22 12:42	1
Manganese	490		0.53	0.077	mg/Kg	✳	12/01/22 14:51	12/06/22 12:42	1
Nickel	27		0.53	0.16	mg/Kg	✳	12/01/22 14:51	12/06/22 12:42	1
Potassium	1800		27	9.4	mg/Kg	✳	12/01/22 14:51	12/06/22 12:42	1
Selenium	<0.53		0.53	0.31	mg/Kg	✳	12/01/22 14:51	12/06/22 12:42	1
Silver	0.21	J	0.27	0.069	mg/Kg	✳	12/01/22 14:51	12/06/22 12:42	1
Sodium	1000		53	7.9	mg/Kg	✳	12/01/22 14:51	12/06/22 12:42	1
Thallium	0.56		0.53	0.27	mg/Kg	✳	12/01/22 14:51	12/06/22 12:42	1
Vanadium	16		0.27	0.063	mg/Kg	✳	12/01/22 14:51	12/06/22 12:42	1
Zinc	76		5.3	2.3	mg/Kg	✳	12/01/22 14:51	12/06/22 17:25	5

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.29	J	0.50	0.050	mg/L		12/01/22 16:54	12/02/22 17:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/01/22 16:54	12/02/22 17:09	1
Boron	0.88	J B *+	1.6	0.050	mg/L		12/01/22 16:54	12/02/22 17:09	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		12/01/22 16:54	12/02/22 17:09	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B04 (0-5)

Lab Sample ID: 500-225545-11

Date Collected: 11/16/22 12:45

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 88.5

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:09	1
Cobalt	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:09	1
Iron	0.33	J	0.40	0.20	mg/L		12/01/22 16:54	12/02/22 17:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/01/22 16:54	12/02/22 17:09	1
Manganese	1.8		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:09	1
Nickel	0.016	J	0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:09	1
Selenium	<0.050		0.050	0.020	mg/L		12/01/22 16:54	12/02/22 17:09	1
Silver	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:09	1
Zinc	<0.50		0.50	0.020	mg/L		12/01/22 16:54	12/02/22 17:09	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.1		0.025	0.010	mg/L		12/01/22 17:06	12/05/22 22:51	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/01/22 16:54	12/02/22 16:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/01/22 16:54	12/02/22 16:37	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 10:45	12/05/22 10:06	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.018	0.0059	mg/Kg	☆	12/05/22 15:45	12/06/22 07:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.6		0.2	0.2	SU			11/21/22 17:31	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B04 (5-10)

Lab Sample ID: 500-225545-12

Date Collected: 11/16/22 12:50

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 82.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.032	J	0.045	0.0084	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
Benzene	<0.0045		0.0045	0.00082	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
Bromodichloromethane	<0.0045		0.0045	0.00035	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
Bromoform	<0.0091		0.0091	0.00058	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
Bromomethane	<0.018		0.018	0.0015	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
2-Butanone (MEK)	0.0050	J	0.018	0.0014	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
Carbon disulfide	<0.0045		0.0045	0.0011	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
Carbon tetrachloride	<0.0045		0.0045	0.0013	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
Chlorobenzene	<0.0045		0.0045	0.00070	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
Chloroethane	<0.018		0.018	0.0033	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
Chloroform	<0.0045		0.0045	0.0015	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
Chloromethane	<0.018		0.018	0.0030	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00051	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
Dibromochloromethane	<0.0045		0.0045	0.00020	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
1,1-Dichloroethane	<0.0045		0.0045	0.00039	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
1,2-Dichloroethane	<0.0045		0.0045	0.00028	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
1,1-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
1,2-Dichloropropane	<0.0045		0.0045	0.00039	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
1,3-Dichloropropene, Total	<0.0091		0.0091	0.0010	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
Ethylbenzene	<0.0045		0.0045	0.0022	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
2-Hexanone	<0.018		0.018	0.0021	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
Methylene Chloride	<0.045		0.045	0.026	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
4-Methyl-2-pentanone (MIBK)	<0.018		0.018	0.0015	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00020	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
Styrene	<0.0045		0.0045	0.0032	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00032	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
Tetrachloroethene	<0.0045		0.0045	0.00086	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
Toluene	<0.0045		0.0045	0.0030	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00055	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00050	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00042	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00029	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
Trichloroethene	<0.0045		0.0045	0.0013	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
Vinyl acetate	<0.0091	*-	0.0091	0.0015	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
Vinyl chloride	<0.0091		0.0091	0.0032	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1
Xylenes, Total	<0.0091		0.0091	0.0033	mg/Kg	☼	11/23/22 08:09	11/24/22 09:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		77 - 120	11/23/22 08:09	11/24/22 09:44	1
Dibromofluoromethane (Surr)	107		80 - 123	11/23/22 08:09	11/24/22 09:44	1
Toluene-d8 (Surr)	92		76 - 120	11/23/22 08:09	11/24/22 09:44	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Benzo[a]pyrene	<0.039	*3	0.039	0.0075	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B04 (5-10)

Lab Sample ID: 500-225545-12

Date Collected: 11/16/22 12:50

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 82.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.039	*3	0.039	0.0084	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Benzo[g,h,i]perylene	<0.039	*3	0.039	0.012	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Benzo[k]fluoranthene	<0.039	*3	0.039	0.011	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Dibenz(a,h)anthracene	<0.039	*3	0.039	0.0075	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Hexachlorocyclopentadiene	<0.78	*-	0.78	0.22	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Indeno[1,2,3-cd]pyrene	<0.039	*3	0.039	0.010	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
3-Nitroaniline	<0.39	*-	0.39	0.12	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
4-Nitroaniline	<0.39	*-	0.39	0.16	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B04 (5-10)

Lab Sample ID: 500-225545-12

Date Collected: 11/16/22 12:50

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 82.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	11/29/22 07:31	12/04/22 19:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	60		43 - 145				11/29/22 07:31	12/04/22 19:49	1
2-Fluorophenol (Surr)	57		31 - 166				11/29/22 07:31	12/04/22 19:49	1
Nitrobenzene-d5 (Surr)	42		37 - 147				11/29/22 07:31	12/04/22 19:49	1
Phenol-d5 (Surr)	52		30 - 153				11/29/22 07:31	12/04/22 19:49	1
Terphenyl-d14 (Surr)	92		42 - 157				11/29/22 07:31	12/04/22 19:49	1
2,4,6-Tribromophenol (Surr)	55		31 - 143				11/29/22 07:31	12/04/22 19:49	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J	1.2	0.23	mg/Kg	☼	12/01/22 14:51	12/06/22 12:46	1
Arsenic	3.1		0.59	0.20	mg/Kg	☼	12/01/22 14:51	12/06/22 12:46	1
Barium	50		0.59	0.067	mg/Kg	☼	12/01/22 14:51	12/06/22 12:46	1
Beryllium	0.65		0.23	0.055	mg/Kg	☼	12/01/22 14:51	12/06/22 12:46	1
Boron	8.8		2.9	0.27	mg/Kg	☼	12/01/22 14:51	12/06/22 12:46	1
Cadmium	0.13		0.12	0.021	mg/Kg	☼	12/01/22 14:51	12/06/22 12:46	1
Calcium	57000	B	59	10	mg/Kg	☼	12/01/22 14:51	12/06/22 17:28	5
Chromium	15		0.59	0.29	mg/Kg	☼	12/01/22 14:51	12/06/22 12:46	1
Cobalt	8.9		0.29	0.077	mg/Kg	☼	12/01/22 14:51	12/06/22 12:46	1
Copper	16		0.59	0.16	mg/Kg	☼	12/01/22 14:51	12/06/22 12:46	1
Iron	16000		12	6.1	mg/Kg	☼	12/01/22 14:51	12/06/22 12:46	1
Lead	10		0.29	0.14	mg/Kg	☼	12/01/22 14:51	12/06/22 12:46	1
Magnesium	31000	B	5.9	2.9	mg/Kg	☼	12/01/22 14:51	12/06/22 12:46	1
Manganese	370		0.59	0.085	mg/Kg	☼	12/01/22 14:51	12/06/22 12:46	1
Nickel	23		0.59	0.17	mg/Kg	☼	12/01/22 14:51	12/06/22 12:46	1
Potassium	1800		29	10	mg/Kg	☼	12/01/22 14:51	12/06/22 12:46	1
Selenium	<0.59		0.59	0.35	mg/Kg	☼	12/01/22 14:51	12/06/22 12:46	1
Silver	0.22	J	0.29	0.076	mg/Kg	☼	12/01/22 14:51	12/06/22 12:46	1
Sodium	450		59	8.7	mg/Kg	☼	12/01/22 14:51	12/06/22 12:46	1
Thallium	0.58	J	0.59	0.29	mg/Kg	☼	12/01/22 14:51	12/06/22 12:46	1
Vanadium	16		0.29	0.069	mg/Kg	☼	12/01/22 14:51	12/06/22 12:46	1
Zinc	53		5.9	2.6	mg/Kg	☼	12/01/22 14:51	12/06/22 17:28	5

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.60		0.50	0.050	mg/L		12/01/22 16:54	12/02/22 17:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/01/22 16:54	12/02/22 17:13	1
Boron	0.86	J B *+	1.6	0.050	mg/L		12/01/22 16:54	12/02/22 17:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/01/22 16:54	12/02/22 17:13	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B04 (5-10)

Lab Sample ID: 500-225545-12

Date Collected: 11/16/22 12:50

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 82.2

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:13	1
Cobalt	0.035		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:13	1
Iron	<0.40		0.40	0.20	mg/L		12/01/22 16:54	12/02/22 17:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/01/22 16:54	12/02/22 17:13	1
Manganese	5.9		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:13	1
Nickel	0.029		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:13	1
Selenium	<0.050		0.050	0.020	mg/L		12/01/22 16:54	12/02/22 17:13	1
Silver	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:13	1
Zinc	<0.50		0.50	0.020	mg/L		12/01/22 16:54	12/02/22 17:13	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.23		0.025	0.010	mg/L		12/01/22 17:06	12/05/22 22:55	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/01/22 16:54	12/02/22 16:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/01/22 16:54	12/02/22 16:41	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 10:45	12/05/22 10:09	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.018	0.0059	mg/Kg	☆	12/05/22 15:45	12/06/22 07:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.6		0.2	0.2	SU			11/21/22 17:33	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B03 (0-5)

Lab Sample ID: 500-225545-13

Date Collected: 11/16/22 13:00

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 86.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.047		0.047	0.0087	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
Benzene	<0.0047		0.0047	0.00085	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
Bromodichloromethane	<0.0047		0.0047	0.00037	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
Bromoform	<0.0094		0.0094	0.00060	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
Bromomethane	<0.019		0.019	0.0015	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
2-Butanone (MEK)	<0.019		0.019	0.0014	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
Carbon disulfide	<0.0047		0.0047	0.0011	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
Carbon tetrachloride	<0.0047		0.0047	0.0013	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
Chlorobenzene	<0.0047		0.0047	0.00073	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
Chloroethane	<0.019		0.019	0.0034	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
Chloroform	<0.0047		0.0047	0.0016	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
Chloromethane	<0.019		0.019	0.0031	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00071	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00053	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
Dibromochloromethane	<0.0047		0.0047	0.00021	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
1,1-Dichloroethane	<0.0047		0.0047	0.00041	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
1,2-Dichloroethane	<0.0047		0.0047	0.00029	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
1,1-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
1,2-Dichloropropane	<0.0047		0.0047	0.00041	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
1,3-Dichloropropene, Total	<0.0094		0.0094	0.0010	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
Ethylbenzene	<0.0047		0.0047	0.0023	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
2-Hexanone	<0.019		0.019	0.0022	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
Methylene Chloride	<0.047		0.047	0.027	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
4-Methyl-2-pentanone (MIBK)	<0.019		0.019	0.0016	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00021	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
Styrene	<0.0047		0.0047	0.0033	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00033	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
Tetrachloroethene	<0.0047		0.0047	0.00090	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
Toluene	<0.0047		0.0047	0.0031	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00058	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00052	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00043	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00030	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
Vinyl acetate	<0.0094	*	0.0094	0.0016	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
Vinyl chloride	<0.0094		0.0094	0.0033	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1
Xylenes, Total	<0.0094		0.0094	0.0034	mg/Kg	☼	11/23/22 08:09	11/24/22 10:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		77 - 120	11/23/22 08:09	11/24/22 10:09	1
Dibromofluoromethane (Surr)	109		80 - 123	11/23/22 08:09	11/24/22 10:09	1
Toluene-d8 (Surr)	91		76 - 120	11/23/22 08:09	11/24/22 10:09	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Benzo[a]anthracene	0.0088	J	0.038	0.0051	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Benzo[a]pyrene	0.012	J *3	0.038	0.0074	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B03 (0-5)

Lab Sample ID: 500-225545-13

Date Collected: 11/16/22 13:00

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 86.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	0.015	J *3	0.038	0.0082	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Benzo[g,h,i]perylene	<0.038	*3	0.038	0.012	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Benzo[k]fluoranthene	<0.038	*3	0.038	0.011	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Dibenz(a,h)anthracene	<0.038	*3	0.038	0.0073	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Fluoranthene	0.012	J	0.038	0.0070	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Hexachlorocyclopentadiene	<0.77	*-	0.77	0.22	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Indeno[1,2,3-cd]pyrene	<0.038	*3	0.038	0.0099	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Naphthalene	0.0064	J	0.038	0.0058	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
3-Nitroaniline	<0.38	*-	0.38	0.12	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
4-Nitroaniline	<0.38	*-	0.38	0.16	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B03 (0-5)

Lab Sample ID: 500-225545-13

Date Collected: 11/16/22 13:00

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 86.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Pyrene	0.011	J	0.038	0.0076	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	11/29/22 07:31	12/04/22 20:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	72		43 - 145				11/29/22 07:31	12/04/22 20:13	1
2-Fluorophenol (Surr)	57		31 - 166				11/29/22 07:31	12/04/22 20:13	1
Nitrobenzene-d5 (Surr)	53		37 - 147				11/29/22 07:31	12/04/22 20:13	1
Phenol-d5 (Surr)	58		30 - 153				11/29/22 07:31	12/04/22 20:13	1
Terphenyl-d14 (Surr)	104		42 - 157				11/29/22 07:31	12/04/22 20:13	1
2,4,6-Tribromophenol (Surr)	59		31 - 143				11/29/22 07:31	12/04/22 20:13	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.62	J	1.1	0.22	mg/Kg	☼	12/01/22 14:51	12/06/22 12:49	1
Arsenic	11		0.57	0.19	mg/Kg	☼	12/01/22 14:51	12/06/22 12:49	1
Barium	29		0.57	0.065	mg/Kg	☼	12/01/22 14:51	12/06/22 12:49	1
Beryllium	0.71		0.23	0.053	mg/Kg	☼	12/01/22 14:51	12/06/22 12:49	1
Boron	8.2		2.8	0.26	mg/Kg	☼	12/01/22 14:51	12/06/22 12:49	1
Cadmium	0.25		0.11	0.020	mg/Kg	☼	12/01/22 14:51	12/06/22 12:49	1
Calcium	45000	B	57	9.6	mg/Kg	☼	12/01/22 14:51	12/06/22 17:38	5
Chromium	13		0.57	0.28	mg/Kg	☼	12/01/22 14:51	12/06/22 12:49	1
Cobalt	11		0.28	0.074	mg/Kg	☼	12/01/22 14:51	12/06/22 12:49	1
Copper	28		0.57	0.16	mg/Kg	☼	12/01/22 14:51	12/06/22 12:49	1
Iron	21000		11	5.9	mg/Kg	☼	12/01/22 14:51	12/06/22 12:49	1
Lead	47		0.28	0.13	mg/Kg	☼	12/01/22 14:51	12/06/22 12:49	1
Magnesium	22000	B	5.7	2.8	mg/Kg	☼	12/01/22 14:51	12/06/22 12:49	1
Manganese	330		0.57	0.082	mg/Kg	☼	12/01/22 14:51	12/06/22 12:49	1
Nickel	30		0.57	0.16	mg/Kg	☼	12/01/22 14:51	12/06/22 12:49	1
Potassium	1600		28	10	mg/Kg	☼	12/01/22 14:51	12/06/22 12:49	1
Selenium	<0.57		0.57	0.33	mg/Kg	☼	12/01/22 14:51	12/06/22 12:49	1
Silver	0.23	J	0.28	0.073	mg/Kg	☼	12/01/22 14:51	12/06/22 12:49	1
Sodium	1700		57	8.4	mg/Kg	☼	12/01/22 14:51	12/06/22 12:49	1
Thallium	0.32	J	0.57	0.28	mg/Kg	☼	12/01/22 14:51	12/06/22 12:49	1
Vanadium	17		0.28	0.067	mg/Kg	☼	12/01/22 14:51	12/06/22 12:49	1
Zinc	80		5.7	2.5	mg/Kg	☼	12/01/22 14:51	12/06/22 17:38	5

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.41	J	0.50	0.050	mg/L		12/01/22 16:54	12/02/22 17:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/01/22 16:54	12/02/22 17:16	1
Boron	0.88	J B *+	1.6	0.050	mg/L		12/01/22 16:54	12/02/22 17:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/01/22 16:54	12/02/22 17:16	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B03 (0-5)

Lab Sample ID: 500-225545-13

Date Collected: 11/16/22 13:00

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 86.3

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:16	1
Cobalt	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:16	1
Iron	0.31	J	0.40	0.20	mg/L		12/01/22 16:54	12/02/22 17:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/01/22 16:54	12/02/22 17:16	1
Manganese	1.1		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:16	1
Nickel	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:16	1
Selenium	<0.050		0.050	0.020	mg/L		12/01/22 16:54	12/02/22 17:16	1
Silver	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:16	1
Zinc	<0.50		0.50	0.020	mg/L		12/01/22 16:54	12/02/22 17:16	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.96		0.025	0.010	mg/L		12/01/22 17:06	12/05/22 23:08	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/01/22 16:54	12/02/22 16:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/01/22 16:54	12/02/22 16:44	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 10:45	12/05/22 10:11	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.017	0.0056	mg/Kg	☆	12/05/22 15:45	12/06/22 07:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.6		0.2	0.2	SU			11/21/22 17:36	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B03 (5-10)

Lab Sample ID: 500-225545-14

Date Collected: 11/16/22 13:05

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 83.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.026	J	0.051	0.0094	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
Benzene	<0.0051		0.0051	0.00092	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
Bromodichloromethane	<0.0051		0.0051	0.00040	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
Bromoform	<0.010		0.010	0.00065	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
Bromomethane	<0.020		0.020	0.0016	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
2-Butanone (MEK)	0.0043	J	0.020	0.0015	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
Carbon disulfide	<0.0051		0.0051	0.0012	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
Carbon tetrachloride	<0.0051		0.0051	0.0014	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
Chlorobenzene	<0.0051		0.0051	0.00078	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
Chloroethane	<0.020		0.020	0.0037	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
Chloroform	<0.0051		0.0051	0.0017	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
Chloromethane	<0.020		0.020	0.0034	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00076	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00057	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
Dibromochloromethane	<0.0051		0.0051	0.00022	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
1,1-Dichloroethane	<0.0051		0.0051	0.00044	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
1,2-Dichloroethane	<0.0051		0.0051	0.00032	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
1,1-Dichloroethene	<0.0051		0.0051	0.00071	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
1,2-Dichloropropane	<0.0051		0.0051	0.00044	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
1,3-Dichloropropane, Total	<0.010		0.010	0.0011	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
Ethylbenzene	<0.0051		0.0051	0.0024	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
2-Hexanone	<0.020		0.020	0.0023	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
Methylene Chloride	<0.051		0.051	0.030	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
4-Methyl-2-pentanone (MIBK)	<0.020		0.020	0.0017	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00022	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
Styrene	<0.0051		0.0051	0.0036	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.00036	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
Tetrachloroethene	<0.0051		0.0051	0.00097	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
Toluene	<0.0051		0.0051	0.0034	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00062	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00056	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00047	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00033	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
Trichloroethene	<0.0051		0.0051	0.0014	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
Vinyl acetate	<0.010	*-	0.010	0.0017	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
Vinyl chloride	<0.010		0.010	0.0036	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1
Xylenes, Total	<0.010		0.010	0.0037	mg/Kg	☼	11/23/22 08:09	11/24/22 10:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		77 - 120	11/23/22 08:09	11/24/22 10:34	1
Dibromofluoromethane (Surr)	108		80 - 123	11/23/22 08:09	11/24/22 10:34	1
Toluene-d8 (Surr)	92		76 - 120	11/23/22 08:09	11/24/22 10:34	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Benzo[a]pyrene	<0.039	*3	0.039	0.0077	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B03 (5-10)

Lab Sample ID: 500-225545-14

Date Collected: 11/16/22 13:05

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 83.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.039	*3	0.039	0.0085	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Benzo[g,h,i]perylene	<0.039	*3	0.039	0.013	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Benzo[k]fluoranthene	<0.039	*3	0.039	0.012	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Dibenz(a,h)anthracene	<0.039	*3	0.039	0.0076	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Hexachlorocyclopentadiene	<0.80	*-	0.80	0.23	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Indeno[1,2,3-cd]pyrene	<0.039	*3	0.039	0.010	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Naphthalene	0.0088	J	0.039	0.0061	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
3-Nitroaniline	<0.39	*-	0.39	0.12	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
4-Nitroaniline	<0.39	*-	0.39	0.17	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B03 (5-10)

Lab Sample ID: 500-225545-14

Date Collected: 11/16/22 13:05

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 83.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	11/29/22 07:31	12/04/22 20:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	62		43 - 145				11/29/22 07:31	12/04/22 20:37	1
2-Fluorophenol (Surr)	55		31 - 166				11/29/22 07:31	12/04/22 20:37	1
Nitrobenzene-d5 (Surr)	44		37 - 147				11/29/22 07:31	12/04/22 20:37	1
Phenol-d5 (Surr)	56		30 - 153				11/29/22 07:31	12/04/22 20:37	1
Terphenyl-d14 (Surr)	107		42 - 157				11/29/22 07:31	12/04/22 20:37	1
2,4,6-Tribromophenol (Surr)	61		31 - 143				11/29/22 07:31	12/04/22 20:37	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.73	J	1.2	0.23	mg/Kg	☼	12/01/22 14:51	12/06/22 12:52	1
Arsenic	10		0.59	0.20	mg/Kg	☼	12/01/22 14:51	12/06/22 12:52	1
Barium	48		0.59	0.067	mg/Kg	☼	12/01/22 14:51	12/06/22 12:52	1
Beryllium	0.81		0.24	0.055	mg/Kg	☼	12/01/22 14:51	12/06/22 12:52	1
Boron	7.6		3.0	0.28	mg/Kg	☼	12/01/22 14:51	12/06/22 12:52	1
Cadmium	0.19		0.12	0.021	mg/Kg	☼	12/01/22 14:51	12/06/22 12:52	1
Calcium	28000	B	12	2.0	mg/Kg	☼	12/01/22 14:51	12/06/22 12:52	1
Chromium	16		0.59	0.29	mg/Kg	☼	12/01/22 14:51	12/06/22 12:52	1
Cobalt	14		0.30	0.077	mg/Kg	☼	12/01/22 14:51	12/06/22 12:52	1
Copper	24		0.59	0.17	mg/Kg	☼	12/01/22 14:51	12/06/22 12:52	1
Iron	22000		12	6.1	mg/Kg	☼	12/01/22 14:51	12/06/22 12:52	1
Lead	17		0.30	0.14	mg/Kg	☼	12/01/22 14:51	12/06/22 12:52	1
Magnesium	17000	B	5.9	2.9	mg/Kg	☼	12/01/22 14:51	12/06/22 12:52	1
Manganese	540		0.59	0.086	mg/Kg	☼	12/01/22 14:51	12/06/22 12:52	1
Nickel	34		0.59	0.17	mg/Kg	☼	12/01/22 14:51	12/06/22 12:52	1
Potassium	1800		30	10	mg/Kg	☼	12/01/22 14:51	12/06/22 12:52	1
Selenium	<0.59		0.59	0.35	mg/Kg	☼	12/01/22 14:51	12/06/22 12:52	1
Silver	0.29	J	0.30	0.076	mg/Kg	☼	12/01/22 14:51	12/06/22 12:52	1
Sodium	440		59	8.7	mg/Kg	☼	12/01/22 14:51	12/06/22 12:52	1
Thallium	0.42	J	0.59	0.29	mg/Kg	☼	12/01/22 14:51	12/06/22 12:52	1
Vanadium	21		0.30	0.070	mg/Kg	☼	12/01/22 14:51	12/06/22 12:52	1
Zinc	74		5.9	2.6	mg/Kg	☼	12/01/22 14:51	12/06/22 17:41	5

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.45	J	0.50	0.050	mg/L		12/01/22 16:54	12/02/22 17:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/01/22 16:54	12/02/22 17:19	1
Boron	0.88	J B *+	1.6	0.050	mg/L		12/01/22 16:54	12/02/22 17:19	1
Cadmium	0.0028	J	0.0050	0.0020	mg/L		12/01/22 16:54	12/02/22 17:19	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B03 (5-10)

Lab Sample ID: 500-225545-14

Date Collected: 11/16/22 13:05

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 83.0

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:19	1
Cobalt	0.022	J	0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:19	1
Iron	0.22	J	0.40	0.20	mg/L		12/01/22 16:54	12/02/22 17:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/01/22 16:54	12/02/22 17:19	1
Manganese	10		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:19	1
Nickel	0.016	J	0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:19	1
Selenium	<0.050		0.050	0.020	mg/L		12/01/22 16:54	12/02/22 17:19	1
Silver	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:19	1
Zinc	<0.50		0.50	0.020	mg/L		12/01/22 16:54	12/02/22 17:19	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.95		0.025	0.010	mg/L		12/01/22 17:06	12/05/22 23:11	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/01/22 16:54	12/02/22 16:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/01/22 16:54	12/02/22 16:48	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 10:45	12/05/22 10:13	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.019	0.0062	mg/Kg	☆	12/05/22 15:45	12/06/22 07:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.1		0.2	0.2	SU			11/21/22 17:38	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B01 (0-5)

Lab Sample ID: 500-225545-17

Date Collected: 11/16/22 13:40

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 84.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.046		0.046	0.0085	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
Benzene	<0.0046		0.0046	0.00084	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
Bromodichloromethane	<0.0046		0.0046	0.00036	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
Bromoform	<0.0093		0.0093	0.00059	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
Bromomethane	<0.019		0.019	0.0015	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
2-Butanone (MEK)	<0.019		0.019	0.0014	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
Carbon disulfide	<0.0046		0.0046	0.0011	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
Carbon tetrachloride	<0.0046		0.0046	0.0013	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
Chlorobenzene	<0.0046		0.0046	0.00071	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
Chloroethane	<0.019		0.019	0.0033	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
Chloroform	<0.0046		0.0046	0.0016	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
Chloromethane	<0.019		0.019	0.0031	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00052	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
Dibromochloromethane	<0.0046		0.0046	0.00020	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
1,1-Dichloroethane	<0.0046		0.0046	0.00040	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
1,2-Dichloroethane	<0.0046		0.0046	0.00029	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
1,1-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
1,2-Dichloropropane	<0.0046		0.0046	0.00040	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
1,3-Dichloropropene, Total	<0.0093		0.0093	0.0010	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
Ethylbenzene	<0.0046		0.0046	0.0022	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
2-Hexanone	<0.019		0.019	0.0021	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
Methylene Chloride	<0.046		0.046	0.027	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
4-Methyl-2-pentanone (MIBK)	<0.019		0.019	0.0016	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00020	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
Styrene	<0.0046		0.0046	0.0032	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00032	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
Tetrachloroethene	<0.0046		0.0046	0.00088	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
Toluene	<0.0046		0.0046	0.0031	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00057	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00051	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00043	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00030	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
Trichloroethene	<0.0046		0.0046	0.0013	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
Vinyl acetate	<0.0093	*	0.0093	0.0016	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
Vinyl chloride	<0.0093		0.0093	0.0032	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1
Xylenes, Total	<0.0093		0.0093	0.0033	mg/Kg	☼	11/23/22 08:09	11/24/22 11:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		77 - 120	11/23/22 08:09	11/24/22 11:49	1
Dibromofluoromethane (Surr)	110		80 - 123	11/23/22 08:09	11/24/22 11:49	1
Toluene-d8 (Surr)	93		76 - 120	11/23/22 08:09	11/24/22 11:49	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Benzo[a]pyrene	<0.039	*3	0.039	0.0075	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B01 (0-5)

Lab Sample ID: 500-225545-17

Date Collected: 11/16/22 13:40

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 84.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.039	*3	0.039	0.0084	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Benzo[g,h,i]perylene	<0.039	*3	0.039	0.013	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Benzo[k]fluoranthene	<0.039	*3	0.039	0.011	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Dibenz(a,h)anthracene	<0.039	*3	0.039	0.0075	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Hexachlorocyclopentadiene	<0.79	*-	0.79	0.22	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Indeno[1,2,3-cd]pyrene	<0.039	*3	0.039	0.010	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Naphthalene	0.0084	J	0.039	0.0060	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
3-Nitroaniline	<0.39	*-	0.39	0.12	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
4-Nitroaniline	<0.39	*-	0.39	0.16	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B01 (0-5)

Lab Sample ID: 500-225545-17

Date Collected: 11/16/22 13:40

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 84.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	11/29/22 07:31	12/04/22 21:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	96		43 - 145				11/29/22 07:31	12/04/22 21:49	1
2-Fluorophenol (Surr)	72		31 - 166				11/29/22 07:31	12/04/22 21:49	1
Nitrobenzene-d5 (Surr)	64		37 - 147				11/29/22 07:31	12/04/22 21:49	1
Phenol-d5 (Surr)	76		30 - 153				11/29/22 07:31	12/04/22 21:49	1
Terphenyl-d14 (Surr)	141		42 - 157				11/29/22 07:31	12/04/22 21:49	1
2,4,6-Tribromophenol (Surr)	77		31 - 143				11/29/22 07:31	12/04/22 21:49	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.56	J	1.2	0.23	mg/Kg	☼	12/01/22 14:51	12/06/22 13:08	1
Arsenic	10		0.59	0.20	mg/Kg	☼	12/01/22 14:51	12/06/22 13:08	1
Barium	41		2.9	0.33	mg/Kg	☼	12/01/22 14:51	12/06/22 17:50	5
Beryllium	0.67		0.23	0.055	mg/Kg	☼	12/01/22 14:51	12/06/22 13:08	1
Boron	8.7		2.9	0.27	mg/Kg	☼	12/01/22 14:51	12/06/22 13:08	1
Cadmium	0.20		0.12	0.021	mg/Kg	☼	12/01/22 14:51	12/06/22 13:08	1
Calcium	71000	B	59	9.9	mg/Kg	☼	12/01/22 14:51	12/06/22 17:50	5
Chromium	13		0.59	0.29	mg/Kg	☼	12/01/22 14:51	12/06/22 13:08	1
Cobalt	11		0.29	0.077	mg/Kg	☼	12/01/22 14:51	12/06/22 13:08	1
Copper	24		0.59	0.16	mg/Kg	☼	12/01/22 14:51	12/06/22 13:08	1
Iron	23000		59	31	mg/Kg	☼	12/01/22 14:51	12/06/22 17:50	5
Lead	16		0.29	0.14	mg/Kg	☼	12/01/22 14:51	12/06/22 13:08	1
Magnesium	43000	B	29	15	mg/Kg	☼	12/01/22 14:51	12/06/22 17:50	5
Manganese	380		0.59	0.085	mg/Kg	☼	12/01/22 14:51	12/06/22 13:08	1
Nickel	26		0.59	0.17	mg/Kg	☼	12/01/22 14:51	12/06/22 13:08	1
Potassium	1600		29	10	mg/Kg	☼	12/01/22 14:51	12/06/22 13:08	1
Selenium	<0.59		0.59	0.34	mg/Kg	☼	12/01/22 14:51	12/06/22 13:08	1
Silver	0.25	J	0.29	0.076	mg/Kg	☼	12/01/22 14:51	12/06/22 13:08	1
Sodium	160		59	8.7	mg/Kg	☼	12/01/22 14:51	12/06/22 13:08	1
Thallium	0.46	J	0.59	0.29	mg/Kg	☼	12/01/22 14:51	12/06/22 13:08	1
Vanadium	17		0.29	0.069	mg/Kg	☼	12/01/22 14:51	12/06/22 13:08	1
Zinc	65		5.9	2.6	mg/Kg	☼	12/01/22 14:51	12/06/22 17:50	5

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.32	J	0.50	0.050	mg/L		12/01/22 16:54	12/02/22 17:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/01/22 16:54	12/02/22 17:29	1
Boron	0.85	J B *+	1.6	0.050	mg/L		12/01/22 16:54	12/02/22 17:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/01/22 16:54	12/02/22 17:29	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B01 (0-5)

Lab Sample ID: 500-225545-17

Date Collected: 11/16/22 13:40

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 84.6

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:29	1
Cobalt	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:29	1
Iron	<0.40		0.40	0.20	mg/L		12/01/22 16:54	12/02/22 17:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/01/22 16:54	12/02/22 17:29	1
Manganese	0.64		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:29	1
Nickel	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:29	1
Selenium	<0.050		0.050	0.020	mg/L		12/01/22 16:54	12/02/22 17:29	1
Silver	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:29	1
Zinc	<0.50		0.50	0.020	mg/L		12/01/22 16:54	12/02/22 17:29	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.39		0.025	0.010	mg/L		12/01/22 17:06	12/05/22 23:17	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/01/22 16:54	12/02/22 16:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/01/22 16:54	12/02/22 16:58	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 10:45	12/05/22 10:19	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.017	0.0058	mg/Kg	☆	12/05/22 15:45	12/06/22 07:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.2		0.2	0.2	SU			11/21/22 17:45	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B01 (5-10)

Lab Sample ID: 500-225545-18

Date Collected: 11/16/22 13:45

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 89.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.040		0.040	0.0074	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
Benzene	<0.0040		0.0040	0.00073	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
Bromodichloromethane	<0.0040		0.0040	0.00031	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
Bromoform	<0.0081		0.0081	0.00052	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
Bromomethane	<0.016		0.016	0.0013	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
2-Butanone (MEK)	<0.016		0.016	0.0012	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
Carbon disulfide	<0.0040		0.0040	0.00097	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
Carbon tetrachloride	<0.0040		0.0040	0.0011	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
Chlorobenzene	<0.0040		0.0040	0.00062	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
Chloroethane	<0.016		0.016	0.0029	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
Chloroform	<0.0040		0.0040	0.0014	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
Chloromethane	<0.016		0.016	0.0027	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00061	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00045	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
Dibromochloromethane	<0.0040		0.0040	0.00018	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
1,1-Dichloroethane	<0.0040		0.0040	0.00035	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
1,2-Dichloroethane	<0.0040		0.0040	0.00025	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
1,1-Dichloroethene	<0.0040		0.0040	0.00057	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
1,2-Dichloropropane	<0.0040		0.0040	0.00035	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
1,3-Dichloropropene, Total	<0.0081		0.0081	0.00089	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
Ethylbenzene	<0.0040		0.0040	0.0019	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
2-Hexanone	<0.016		0.016	0.0019	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
Methylene Chloride	<0.040		0.040	0.023	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
4-Methyl-2-pentanone (MIBK)	<0.016		0.016	0.0014	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00018	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
Styrene	<0.0040		0.0040	0.0028	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00028	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
Tetrachloroethene	<0.0040		0.0040	0.00077	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
Toluene	<0.0040		0.0040	0.0027	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00049	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.00044	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00037	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00026	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
Vinyl acetate	<0.0081	*	0.0081	0.0014	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
Vinyl chloride	<0.0081		0.0081	0.0028	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1
Xylenes, Total	<0.0081		0.0081	0.0029	mg/Kg	☼	11/23/22 08:09	11/24/22 12:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		77 - 120	11/23/22 08:09	11/24/22 12:14	1
Dibromofluoromethane (Surr)	110		80 - 123	11/23/22 08:09	11/24/22 12:14	1
Toluene-d8 (Surr)	92		76 - 120	11/23/22 08:09	11/24/22 12:14	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.035		0.035	0.0064	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
Acenaphthylene	<0.035		0.035	0.0047	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
Anthracene	<0.035		0.035	0.0059	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
Benzo[a]anthracene	<0.035		0.035	0.0048	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
Benzo[a]pyrene	<0.035	*3	0.035	0.0069	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B01 (5-10)

Lab Sample ID: 500-225545-18

Date Collected: 11/16/22 13:45

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 89.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.035	*3	0.035	0.0077	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
Benzo[g,h,i]perylene	<0.035	*3	0.035	0.011	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
Benzo[k]fluoranthene	<0.035	*3	0.035	0.010	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
Carbazole	<0.18		0.18	0.089	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
Chrysene	<0.035		0.035	0.0097	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
Dibenz(a,h)anthracene	<0.035	*3	0.035	0.0069	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
2,4-Dichlorophenol	<0.35		0.35	0.085	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
2,4-Dimethylphenol	<0.35		0.35	0.14	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.29	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
2,4-Dinitrophenol	<0.72		0.72	0.63	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
Fluoranthene	<0.035		0.035	0.0066	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
Fluorene	<0.035		0.035	0.0050	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
Hexachlorobenzene	<0.072		0.072	0.0083	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
Hexachlorocyclopentadiene	<0.72	*-	0.72	0.20	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
Indeno[1,2,3-cd]pyrene	<0.035	*3	0.035	0.0092	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
2-Methylnaphthalene	<0.072		0.072	0.0065	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
Naphthalene	0.012	J	0.035	0.0055	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
3-Nitroaniline	<0.35	*-	0.35	0.11	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
4-Nitroaniline	<0.35	*-	0.35	0.15	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
Nitrobenzene	<0.035		0.035	0.0089	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☼	11/29/22 07:31	12/04/22 22:13	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B01 (5-10)

Lab Sample ID: 500-225545-18

Date Collected: 11/16/22 13:45

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 89.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.072		0.072	0.044	mg/Kg	✳	11/29/22 07:31	12/04/22 22:13	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	✳	11/29/22 07:31	12/04/22 22:13	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	✳	11/29/22 07:31	12/04/22 22:13	1
Pentachlorophenol	<0.72		0.72	0.57	mg/Kg	✳	11/29/22 07:31	12/04/22 22:13	1
Phenanthrene	<0.035		0.035	0.0050	mg/Kg	✳	11/29/22 07:31	12/04/22 22:13	1
Phenol	<0.18		0.18	0.079	mg/Kg	✳	11/29/22 07:31	12/04/22 22:13	1
Pyrene	<0.035		0.035	0.0071	mg/Kg	✳	11/29/22 07:31	12/04/22 22:13	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	✳	11/29/22 07:31	12/04/22 22:13	1
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	✳	11/29/22 07:31	12/04/22 22:13	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	✳	11/29/22 07:31	12/04/22 22:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	112		43 - 145				11/29/22 07:31	12/04/22 22:13	1
2-Fluorophenol (Surr)	83		31 - 166				11/29/22 07:31	12/04/22 22:13	1
Nitrobenzene-d5 (Surr)	79		37 - 147				11/29/22 07:31	12/04/22 22:13	1
Phenol-d5 (Surr)	84		30 - 153				11/29/22 07:31	12/04/22 22:13	1
Terphenyl-d14 (Surr)	137		42 - 157				11/29/22 07:31	12/04/22 22:13	1
2,4,6-Tribromophenol (Surr)	86		31 - 143				11/29/22 07:31	12/04/22 22:13	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.30	J	1.1	0.21	mg/Kg	✳	12/01/22 14:51	12/06/22 13:11	1
Arsenic	3.6		0.54	0.19	mg/Kg	✳	12/01/22 14:51	12/06/22 13:11	1
Barium	8.3		2.7	0.31	mg/Kg	✳	12/01/22 14:51	12/06/22 17:53	5
Beryllium	0.36		0.22	0.051	mg/Kg	✳	12/01/22 14:51	12/06/22 13:11	1
Boron	6.2		2.7	0.25	mg/Kg	✳	12/01/22 14:51	12/06/22 13:11	1
Cadmium	0.23		0.11	0.020	mg/Kg	✳	12/01/22 14:51	12/06/22 13:11	1
Calcium	86000	B	54	9.2	mg/Kg	✳	12/01/22 14:51	12/06/22 17:53	5
Chromium	5.8		0.54	0.27	mg/Kg	✳	12/01/22 14:51	12/06/22 13:11	1
Cobalt	5.7		0.27	0.071	mg/Kg	✳	12/01/22 14:51	12/06/22 13:11	1
Copper	17		0.54	0.15	mg/Kg	✳	12/01/22 14:51	12/06/22 13:11	1
Iron	11000		54	28	mg/Kg	✳	12/01/22 14:51	12/06/22 17:53	5
Lead	9.5		0.27	0.13	mg/Kg	✳	12/01/22 14:51	12/06/22 13:11	1
Magnesium	50000	B	27	13	mg/Kg	✳	12/01/22 14:51	12/06/22 17:53	5
Manganese	200		0.54	0.079	mg/Kg	✳	12/01/22 14:51	12/06/22 13:11	1
Nickel	16		0.54	0.16	mg/Kg	✳	12/01/22 14:51	12/06/22 13:11	1
Potassium	850		27	9.6	mg/Kg	✳	12/01/22 14:51	12/06/22 13:11	1
Selenium	<0.54		0.54	0.32	mg/Kg	✳	12/01/22 14:51	12/06/22 13:11	1
Silver	0.078	J	0.27	0.070	mg/Kg	✳	12/01/22 14:51	12/06/22 13:11	1
Sodium	310		54	8.0	mg/Kg	✳	12/01/22 14:51	12/06/22 13:11	1
Thallium	<0.54		0.54	0.27	mg/Kg	✳	12/01/22 14:51	12/06/22 13:11	1
Vanadium	9.6		0.27	0.064	mg/Kg	✳	12/01/22 14:51	12/06/22 13:11	1
Zinc	74		5.4	2.4	mg/Kg	✳	12/01/22 14:51	12/06/22 17:53	5

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.13	J	0.50	0.050	mg/L		12/01/22 16:54	12/02/22 17:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/01/22 16:54	12/02/22 17:32	1
Boron	0.84	J B *+	1.6	0.050	mg/L		12/01/22 16:54	12/02/22 17:32	1
Cadmium	0.0028	J	0.0050	0.0020	mg/L		12/01/22 16:54	12/02/22 17:32	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B01 (5-10)

Lab Sample ID: 500-225545-18

Date Collected: 11/16/22 13:45

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 89.2

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:32	1
Cobalt	0.022	J	0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:32	1
Iron	<0.40		0.40	0.20	mg/L		12/01/22 16:54	12/02/22 17:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/01/22 16:54	12/02/22 17:32	1
Manganese	1.2		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:32	1
Nickel	0.028		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:32	1
Selenium	<0.050		0.050	0.020	mg/L		12/01/22 16:54	12/02/22 17:32	1
Silver	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:32	1
Zinc	0.30	J	0.50	0.020	mg/L		12/01/22 16:54	12/02/22 17:32	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.35		0.025	0.010	mg/L		12/01/22 17:06	12/05/22 23:20	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/01/22 16:54	12/02/22 17:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/01/22 16:54	12/02/22 17:01	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 10:45	12/05/22 10:21	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.018	0.0060	mg/Kg	☆	12/05/22 15:45	12/06/22 07:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.5		0.2	0.2	SU			11/21/22 17:48	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*3	ISTD response or retention time outside acceptable limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

GC/MS VOA

Pre Prep Batch: 372825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-1	1401V3-26-B09 (0-5)	Total/NA	Solid	Frozen Preserve	
500-225545-2	1401V3-26-B09 (5-10)	Total/NA	Solid	Frozen Preserve	
500-225545-3	1401V3-26-B08 (0-5)	Total/NA	Solid	Frozen Preserve	
500-225545-4	1401V3-26-B08 (5-10)	Total/NA	Solid	Frozen Preserve	
500-225545-5	1401V3-26-B07 (0-5)	Total/NA	Solid	Frozen Preserve	
500-225545-6	1401V3-26-B07 (5-10)	Total/NA	Solid	Frozen Preserve	
500-225545-7	1401V3-26-B06 (0-5)	Total/NA	Solid	Frozen Preserve	
500-225545-8	1401V3-26-B06 (5-10)	Total/NA	Solid	Frozen Preserve	
500-225545-9	1401V3-26-B05 (0-5)	Total/NA	Solid	Frozen Preserve	
500-225545-10	1401V3-26-B05 (5-10)	Total/NA	Solid	Frozen Preserve	
500-225545-11	1401V3-26-B04 (0-5)	Total/NA	Solid	Frozen Preserve	
500-225545-12	1401V3-26-B04 (5-10)	Total/NA	Solid	Frozen Preserve	
500-225545-13	1401V3-26-B03 (0-5)	Total/NA	Solid	Frozen Preserve	
500-225545-14	1401V3-26-B03 (5-10)	Total/NA	Solid	Frozen Preserve	
500-225545-15	1401V3-26-B02 (0-5)	Total/NA	Solid	Frozen Preserve	
500-225545-16	1401V3-26-B02 (5-10)	Total/NA	Solid	Frozen Preserve	
500-225545-17	1401V3-26-B01 (0-5)	Total/NA	Solid	Frozen Preserve	
500-225545-18	1401V3-26-B01 (5-10)	Total/NA	Solid	Frozen Preserve	

Prep Batch: 372906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-1	1401V3-26-B09 (0-5)	Total/NA	Solid	5035	372825
500-225545-2	1401V3-26-B09 (5-10)	Total/NA	Solid	5035	372825
500-225545-3	1401V3-26-B08 (0-5)	Total/NA	Solid	5035	372825
500-225545-4	1401V3-26-B08 (5-10)	Total/NA	Solid	5035	372825
MB 310-372906/1-A	Method Blank	Total/NA	Solid	5035	
LCS 310-372906/2-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 372908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-1	1401V3-26-B09 (0-5)	Total/NA	Solid	8260D	372906
500-225545-2	1401V3-26-B09 (5-10)	Total/NA	Solid	8260D	372906
500-225545-3	1401V3-26-B08 (0-5)	Total/NA	Solid	8260D	372906
500-225545-4	1401V3-26-B08 (5-10)	Total/NA	Solid	8260D	372906
MB 310-372906/1-A	Method Blank	Total/NA	Solid	8260D	372906
LCS 310-372906/2-A	Lab Control Sample	Total/NA	Solid	8260D	372906

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

GC/MS VOA

Prep Batch: 372909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-5	1401V3-26-B07 (0-5)	Total/NA	Solid	5035	372825
500-225545-6	1401V3-26-B07 (5-10)	Total/NA	Solid	5035	372825
500-225545-7	1401V3-26-B06 (0-5)	Total/NA	Solid	5035	372825
500-225545-8	1401V3-26-B06 (5-10)	Total/NA	Solid	5035	372825
500-225545-9	1401V3-26-B05 (0-5)	Total/NA	Solid	5035	372825
500-225545-10	1401V3-26-B05 (5-10)	Total/NA	Solid	5035	372825
500-225545-11	1401V3-26-B04 (0-5)	Total/NA	Solid	5035	372825
500-225545-12	1401V3-26-B04 (5-10)	Total/NA	Solid	5035	372825
500-225545-13	1401V3-26-B03 (0-5)	Total/NA	Solid	5035	372825
500-225545-14	1401V3-26-B03 (5-10)	Total/NA	Solid	5035	372825
500-225545-15	1401V3-26-B02 (0-5)	Total/NA	Solid	5035	372825
500-225545-16	1401V3-26-B02 (5-10)	Total/NA	Solid	5035	372825
500-225545-17	1401V3-26-B01 (0-5)	Total/NA	Solid	5035	372825
500-225545-18	1401V3-26-B01 (5-10)	Total/NA	Solid	5035	372825
MB 310-372909/1-A	Method Blank	Total/NA	Solid	5035	
LCS 310-372909/2-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 372912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-5	1401V3-26-B07 (0-5)	Total/NA	Solid	8260D	372909
500-225545-6	1401V3-26-B07 (5-10)	Total/NA	Solid	8260D	372909
500-225545-7	1401V3-26-B06 (0-5)	Total/NA	Solid	8260D	372909
500-225545-8	1401V3-26-B06 (5-10)	Total/NA	Solid	8260D	372909
500-225545-9	1401V3-26-B05 (0-5)	Total/NA	Solid	8260D	372909
500-225545-10	1401V3-26-B05 (5-10)	Total/NA	Solid	8260D	372909
500-225545-11	1401V3-26-B04 (0-5)	Total/NA	Solid	8260D	372909
500-225545-12	1401V3-26-B04 (5-10)	Total/NA	Solid	8260D	372909
500-225545-13	1401V3-26-B03 (0-5)	Total/NA	Solid	8260D	372909
500-225545-14	1401V3-26-B03 (5-10)	Total/NA	Solid	8260D	372909
500-225545-15	1401V3-26-B02 (0-5)	Total/NA	Solid	8260D	372909
500-225545-16	1401V3-26-B02 (5-10)	Total/NA	Solid	8260D	372909
500-225545-17	1401V3-26-B01 (0-5)	Total/NA	Solid	8260D	372909
500-225545-18	1401V3-26-B01 (5-10)	Total/NA	Solid	8260D	372909
MB 310-372909/1-A	Method Blank	Total/NA	Solid	8260D	372909
LCS 310-372909/2-A	Lab Control Sample	Total/NA	Solid	8260D	372909

GC/MS Semi VOA

Prep Batch: 687172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-1	1401V3-26-B09 (0-5)	Total/NA	Solid	3541	
500-225545-2	1401V3-26-B09 (5-10)	Total/NA	Solid	3541	
500-225545-3	1401V3-26-B08 (0-5)	Total/NA	Solid	3541	
500-225545-4	1401V3-26-B08 (5-10)	Total/NA	Solid	3541	
500-225545-5	1401V3-26-B07 (0-5)	Total/NA	Solid	3541	
500-225545-6	1401V3-26-B07 (5-10)	Total/NA	Solid	3541	
500-225545-7	1401V3-26-B06 (0-5)	Total/NA	Solid	3541	
500-225545-8	1401V3-26-B06 (5-10)	Total/NA	Solid	3541	
500-225545-9	1401V3-26-B05 (0-5)	Total/NA	Solid	3541	
500-225545-10	1401V3-26-B05 (5-10)	Total/NA	Solid	3541	
500-225545-11	1401V3-26-B04 (0-5)	Total/NA	Solid	3541	

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

GC/MS Semi VOA (Continued)

Prep Batch: 687172 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-12	1401V3-26-B04 (5-10)	Total/NA	Solid	3541	
500-225545-13	1401V3-26-B03 (0-5)	Total/NA	Solid	3541	
500-225545-14	1401V3-26-B03 (5-10)	Total/NA	Solid	3541	
500-225545-15	1401V3-26-B02 (0-5)	Total/NA	Solid	3541	
500-225545-16	1401V3-26-B02 (5-10)	Total/NA	Solid	3541	
500-225545-17	1401V3-26-B01 (0-5)	Total/NA	Solid	3541	
500-225545-18	1401V3-26-B01 (5-10)	Total/NA	Solid	3541	
MB 500-687172/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-687172/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-225545-1 MS	1401V3-26-B09 (0-5)	Total/NA	Solid	3541	
500-225545-1 MSD	1401V3-26-B09 (0-5)	Total/NA	Solid	3541	

Analysis Batch: 688077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-1	1401V3-26-B09 (0-5)	Total/NA	Solid	8270D	687172
500-225545-2	1401V3-26-B09 (5-10)	Total/NA	Solid	8270D	687172
500-225545-3	1401V3-26-B08 (0-5)	Total/NA	Solid	8270D	687172
500-225545-4	1401V3-26-B08 (5-10)	Total/NA	Solid	8270D	687172
500-225545-5	1401V3-26-B07 (0-5)	Total/NA	Solid	8270D	687172
500-225545-6	1401V3-26-B07 (5-10)	Total/NA	Solid	8270D	687172
500-225545-7	1401V3-26-B06 (0-5)	Total/NA	Solid	8270D	687172
500-225545-8	1401V3-26-B06 (5-10)	Total/NA	Solid	8270D	687172
500-225545-9	1401V3-26-B05 (0-5)	Total/NA	Solid	8270D	687172
500-225545-10	1401V3-26-B05 (5-10)	Total/NA	Solid	8270D	687172
500-225545-11	1401V3-26-B04 (0-5)	Total/NA	Solid	8270D	687172
500-225545-12	1401V3-26-B04 (5-10)	Total/NA	Solid	8270D	687172
500-225545-13	1401V3-26-B03 (0-5)	Total/NA	Solid	8270D	687172
500-225545-14	1401V3-26-B03 (5-10)	Total/NA	Solid	8270D	687172
500-225545-15	1401V3-26-B02 (0-5)	Total/NA	Solid	8270D	687172
500-225545-17	1401V3-26-B01 (0-5)	Total/NA	Solid	8270D	687172
500-225545-18	1401V3-26-B01 (5-10)	Total/NA	Solid	8270D	687172
MB 500-687172/1-A	Method Blank	Total/NA	Solid	8270D	687172
LCS 500-687172/2-A	Lab Control Sample	Total/NA	Solid	8270D	687172
500-225545-1 MS	1401V3-26-B09 (0-5)	Total/NA	Solid	8270D	687172
500-225545-1 MSD	1401V3-26-B09 (0-5)	Total/NA	Solid	8270D	687172

Analysis Batch: 688441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-16	1401V3-26-B02 (5-10)	Total/NA	Solid	8270D	687172

Metals

Leach Batch: 687548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-1	1401V3-26-B09 (0-5)	TCLP	Solid	1311	
500-225545-2	1401V3-26-B09 (5-10)	TCLP	Solid	1311	
500-225545-3	1401V3-26-B08 (0-5)	TCLP	Solid	1311	
500-225545-4	1401V3-26-B08 (5-10)	TCLP	Solid	1311	
500-225545-5	1401V3-26-B07 (0-5)	TCLP	Solid	1311	
500-225545-6	1401V3-26-B07 (5-10)	TCLP	Solid	1311	
500-225545-7	1401V3-26-B06 (0-5)	TCLP	Solid	1311	

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Metals (Continued)

Leach Batch: 687548 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-9	1401V3-26-B05 (0-5)	TCLP	Solid	1311	
500-225545-11	1401V3-26-B04 (0-5)	TCLP	Solid	1311	
500-225545-12	1401V3-26-B04 (5-10)	TCLP	Solid	1311	
500-225545-13	1401V3-26-B03 (0-5)	TCLP	Solid	1311	
500-225545-14	1401V3-26-B03 (5-10)	TCLP	Solid	1311	
500-225545-15	1401V3-26-B02 (0-5)	TCLP	Solid	1311	
500-225545-16	1401V3-26-B02 (5-10)	TCLP	Solid	1311	
500-225545-17	1401V3-26-B01 (0-5)	TCLP	Solid	1311	
500-225545-18	1401V3-26-B01 (5-10)	TCLP	Solid	1311	
LB 500-687548/1-B	Method Blank	TCLP	Solid	1311	
LB 500-687548/1-C	Method Blank	TCLP	Solid	1311	
500-225545-18 MS	1401V3-26-B01 (5-10)	TCLP	Solid	1311	
500-225545-18 DU	1401V3-26-B01 (5-10)	TCLP	Solid	1311	

Leach Batch: 687556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-8	1401V3-26-B06 (5-10)	TCLP	Solid	1311	
500-225545-10	1401V3-26-B05 (5-10)	TCLP	Solid	1311	
LB2 500-687556/1-B	Method Blank	TCLP	Solid	1311	
LB2 500-687556/2-B	Method Blank	TCLP	Solid	1311	

Leach Batch: 687561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-1	1401V3-26-B09 (0-5)	SPLP East	Solid	1312	
500-225545-2	1401V3-26-B09 (5-10)	SPLP East	Solid	1312	
500-225545-3	1401V3-26-B08 (0-5)	SPLP East	Solid	1312	
500-225545-4	1401V3-26-B08 (5-10)	SPLP East	Solid	1312	
500-225545-5	1401V3-26-B07 (0-5)	SPLP East	Solid	1312	
500-225545-6	1401V3-26-B07 (5-10)	SPLP East	Solid	1312	
500-225545-7	1401V3-26-B06 (0-5)	SPLP East	Solid	1312	
500-225545-8	1401V3-26-B06 (5-10)	SPLP East	Solid	1312	
500-225545-9	1401V3-26-B05 (0-5)	SPLP East	Solid	1312	
500-225545-10	1401V3-26-B05 (5-10)	SPLP East	Solid	1312	
500-225545-11	1401V3-26-B04 (0-5)	SPLP East	Solid	1312	
500-225545-12	1401V3-26-B04 (5-10)	SPLP East	Solid	1312	
500-225545-13	1401V3-26-B03 (0-5)	SPLP East	Solid	1312	
500-225545-14	1401V3-26-B03 (5-10)	SPLP East	Solid	1312	
500-225545-15	1401V3-26-B02 (0-5)	SPLP East	Solid	1312	
500-225545-17	1401V3-26-B01 (0-5)	SPLP East	Solid	1312	
500-225545-18	1401V3-26-B01 (5-10)	SPLP East	Solid	1312	
LB 500-687561/1-B	Method Blank	SPLP East	Solid	1312	
500-225545-18 MS	1401V3-26-B01 (5-10)	SPLP East	Solid	1312	
500-225545-18 DU	1401V3-26-B01 (5-10)	SPLP East	Solid	1312	

Prep Batch: 687787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-1	1401V3-26-B09 (0-5)	Total/NA	Solid	3050B	
500-225545-2	1401V3-26-B09 (5-10)	Total/NA	Solid	3050B	
500-225545-3	1401V3-26-B08 (0-5)	Total/NA	Solid	3050B	
500-225545-4	1401V3-26-B08 (5-10)	Total/NA	Solid	3050B	
500-225545-5	1401V3-26-B07 (0-5)	Total/NA	Solid	3050B	

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Metals (Continued)

Prep Batch: 687787 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-6	1401V3-26-B07 (5-10)	Total/NA	Solid	3050B	
500-225545-7	1401V3-26-B06 (0-5)	Total/NA	Solid	3050B	
500-225545-8	1401V3-26-B06 (5-10)	Total/NA	Solid	3050B	
500-225545-9	1401V3-26-B05 (0-5)	Total/NA	Solid	3050B	
500-225545-10	1401V3-26-B05 (5-10)	Total/NA	Solid	3050B	
500-225545-11	1401V3-26-B04 (0-5)	Total/NA	Solid	3050B	
500-225545-12	1401V3-26-B04 (5-10)	Total/NA	Solid	3050B	
500-225545-13	1401V3-26-B03 (0-5)	Total/NA	Solid	3050B	
500-225545-14	1401V3-26-B03 (5-10)	Total/NA	Solid	3050B	
500-225545-15	1401V3-26-B02 (0-5)	Total/NA	Solid	3050B	
500-225545-16	1401V3-26-B02 (5-10)	Total/NA	Solid	3050B	
500-225545-17	1401V3-26-B01 (0-5)	Total/NA	Solid	3050B	
500-225545-18	1401V3-26-B01 (5-10)	Total/NA	Solid	3050B	
MB 500-687787/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-687787/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-225545-3 MS	1401V3-26-B08 (0-5)	Total/NA	Solid	3050B	
500-225545-3 MSD	1401V3-26-B08 (0-5)	Total/NA	Solid	3050B	
500-225545-3 DU	1401V3-26-B08 (0-5)	Total/NA	Solid	3050B	

Prep Batch: 687802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-1	1401V3-26-B09 (0-5)	TCLP	Solid	3010A	687548
500-225545-2	1401V3-26-B09 (5-10)	TCLP	Solid	3010A	687548
500-225545-3	1401V3-26-B08 (0-5)	TCLP	Solid	3010A	687548
500-225545-4	1401V3-26-B08 (5-10)	TCLP	Solid	3010A	687548
500-225545-5	1401V3-26-B07 (0-5)	TCLP	Solid	3010A	687548
500-225545-6	1401V3-26-B07 (5-10)	TCLP	Solid	3010A	687548
500-225545-7	1401V3-26-B06 (0-5)	TCLP	Solid	3010A	687548
500-225545-8	1401V3-26-B06 (5-10)	TCLP	Solid	3010A	687556
500-225545-9	1401V3-26-B05 (0-5)	TCLP	Solid	3010A	687548
500-225545-10	1401V3-26-B05 (5-10)	TCLP	Solid	3010A	687556
500-225545-11	1401V3-26-B04 (0-5)	TCLP	Solid	3010A	687548
500-225545-12	1401V3-26-B04 (5-10)	TCLP	Solid	3010A	687548
500-225545-13	1401V3-26-B03 (0-5)	TCLP	Solid	3010A	687548
500-225545-14	1401V3-26-B03 (5-10)	TCLP	Solid	3010A	687548
500-225545-15	1401V3-26-B02 (0-5)	TCLP	Solid	3010A	687548
500-225545-16	1401V3-26-B02 (5-10)	TCLP	Solid	3010A	687548
500-225545-17	1401V3-26-B01 (0-5)	TCLP	Solid	3010A	687548
500-225545-18	1401V3-26-B01 (5-10)	TCLP	Solid	3010A	687548
LB 500-687548/1-B	Method Blank	TCLP	Solid	3010A	687548
LB2 500-687556/1-B	Method Blank	TCLP	Solid	3010A	687556
LCS 500-687802/24-A	Lab Control Sample	Total/NA	Solid	3010A	
LCS 500-687802/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-225545-18 MS	1401V3-26-B01 (5-10)	TCLP	Solid	3010A	687548
500-225545-18 DU	1401V3-26-B01 (5-10)	TCLP	Solid	3010A	687548

Prep Batch: 687806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-1	1401V3-26-B09 (0-5)	SPLP East	Solid	3010A	687561
500-225545-2	1401V3-26-B09 (5-10)	SPLP East	Solid	3010A	687561
500-225545-3	1401V3-26-B08 (0-5)	SPLP East	Solid	3010A	687561

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Metals (Continued)

Prep Batch: 687806 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-4	1401V3-26-B08 (5-10)	SPLP East	Solid	3010A	687561
500-225545-5	1401V3-26-B07 (0-5)	SPLP East	Solid	3010A	687561
500-225545-6	1401V3-26-B07 (5-10)	SPLP East	Solid	3010A	687561
500-225545-7	1401V3-26-B06 (0-5)	SPLP East	Solid	3010A	687561
500-225545-8	1401V3-26-B06 (5-10)	SPLP East	Solid	3010A	687561
500-225545-9	1401V3-26-B05 (0-5)	SPLP East	Solid	3010A	687561
500-225545-10	1401V3-26-B05 (5-10)	SPLP East	Solid	3010A	687561
500-225545-11	1401V3-26-B04 (0-5)	SPLP East	Solid	3010A	687561
500-225545-12	1401V3-26-B04 (5-10)	SPLP East	Solid	3010A	687561
500-225545-13	1401V3-26-B03 (0-5)	SPLP East	Solid	3010A	687561
500-225545-14	1401V3-26-B03 (5-10)	SPLP East	Solid	3010A	687561
500-225545-15	1401V3-26-B02 (0-5)	SPLP East	Solid	3010A	687561
500-225545-17	1401V3-26-B01 (0-5)	SPLP East	Solid	3010A	687561
500-225545-18	1401V3-26-B01 (5-10)	SPLP East	Solid	3010A	687561
LB 500-687561/1-B	Method Blank	SPLP East	Solid	3010A	687561
LCS 500-687806/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-225545-18 MS	1401V3-26-B01 (5-10)	SPLP East	Solid	3010A	687561
500-225545-18 DU	1401V3-26-B01 (5-10)	SPLP East	Solid	3010A	687561

Prep Batch: 687929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-1	1401V3-26-B09 (0-5)	TCLP	Solid	7470A	687548
500-225545-2	1401V3-26-B09 (5-10)	TCLP	Solid	7470A	687548
500-225545-3	1401V3-26-B08 (0-5)	TCLP	Solid	7470A	687548
500-225545-4	1401V3-26-B08 (5-10)	TCLP	Solid	7470A	687548
500-225545-5	1401V3-26-B07 (0-5)	TCLP	Solid	7470A	687548
500-225545-6	1401V3-26-B07 (5-10)	TCLP	Solid	7470A	687548
500-225545-7	1401V3-26-B06 (0-5)	TCLP	Solid	7470A	687548
500-225545-8	1401V3-26-B06 (5-10)	TCLP	Solid	7470A	687556
500-225545-9	1401V3-26-B05 (0-5)	TCLP	Solid	7470A	687548
500-225545-10	1401V3-26-B05 (5-10)	TCLP	Solid	7470A	687556
500-225545-11	1401V3-26-B04 (0-5)	TCLP	Solid	7470A	687548
500-225545-12	1401V3-26-B04 (5-10)	TCLP	Solid	7470A	687548
500-225545-13	1401V3-26-B03 (0-5)	TCLP	Solid	7470A	687548
500-225545-14	1401V3-26-B03 (5-10)	TCLP	Solid	7470A	687548
500-225545-15	1401V3-26-B02 (0-5)	TCLP	Solid	7470A	687548
500-225545-16	1401V3-26-B02 (5-10)	TCLP	Solid	7470A	687548
500-225545-17	1401V3-26-B01 (0-5)	TCLP	Solid	7470A	687548
500-225545-18	1401V3-26-B01 (5-10)	TCLP	Solid	7470A	687548
LB 500-687548/1-C	Method Blank	TCLP	Solid	7470A	687548
LB2 500-687556/2-B	Method Blank	TCLP	Solid	7470A	687556
MB 500-687929/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-687929/14-A	Lab Control Sample	Total/NA	Solid	7470A	
LCS 500-687929/36-A	Lab Control Sample	Total/NA	Solid	7470A	
500-225545-18 MS	1401V3-26-B01 (5-10)	TCLP	Solid	7470A	687548
500-225545-18 DU	1401V3-26-B01 (5-10)	TCLP	Solid	7470A	687548

Analysis Batch: 688208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-1	1401V3-26-B09 (0-5)	TCLP	Solid	6010B	687802
500-225545-2	1401V3-26-B09 (5-10)	TCLP	Solid	6010B	687802

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Metals (Continued)

Analysis Batch: 688208 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-3	1401V3-26-B08 (0-5)	TCLP	Solid	6010B	687802
500-225545-4	1401V3-26-B08 (5-10)	TCLP	Solid	6010B	687802
500-225545-5	1401V3-26-B07 (0-5)	TCLP	Solid	6010B	687802
500-225545-6	1401V3-26-B07 (5-10)	TCLP	Solid	6010B	687802
500-225545-7	1401V3-26-B06 (0-5)	TCLP	Solid	6010B	687802
500-225545-8	1401V3-26-B06 (5-10)	TCLP	Solid	6010B	687802
500-225545-9	1401V3-26-B05 (0-5)	TCLP	Solid	6010B	687802
500-225545-10	1401V3-26-B05 (5-10)	TCLP	Solid	6010B	687802
500-225545-11	1401V3-26-B04 (0-5)	TCLP	Solid	6010B	687802
500-225545-12	1401V3-26-B04 (5-10)	TCLP	Solid	6010B	687802
500-225545-13	1401V3-26-B03 (0-5)	TCLP	Solid	6010B	687802
500-225545-14	1401V3-26-B03 (5-10)	TCLP	Solid	6010B	687802
500-225545-15	1401V3-26-B02 (0-5)	TCLP	Solid	6010B	687802
500-225545-16	1401V3-26-B02 (5-10)	TCLP	Solid	6010B	687802
500-225545-17	1401V3-26-B01 (0-5)	TCLP	Solid	6010B	687802
500-225545-18	1401V3-26-B01 (5-10)	TCLP	Solid	6010B	687802
LB 500-687548/1-B	Method Blank	TCLP	Solid	6010B	687802
LB2 500-687556/1-B	Method Blank	TCLP	Solid	6010B	687802
LCS 500-687802/24-A	Lab Control Sample	Total/NA	Solid	6010B	687802
LCS 500-687802/2-A	Lab Control Sample	Total/NA	Solid	6010B	687802
500-225545-18 MS	1401V3-26-B01 (5-10)	TCLP	Solid	6010B	687802
500-225545-18 DU	1401V3-26-B01 (5-10)	TCLP	Solid	6010B	687802

Prep Batch: 688232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-1	1401V3-26-B09 (0-5)	Total/NA	Solid	7471B	
500-225545-2	1401V3-26-B09 (5-10)	Total/NA	Solid	7471B	
500-225545-3	1401V3-26-B08 (0-5)	Total/NA	Solid	7471B	
500-225545-4	1401V3-26-B08 (5-10)	Total/NA	Solid	7471B	
500-225545-5	1401V3-26-B07 (0-5)	Total/NA	Solid	7471B	
500-225545-6	1401V3-26-B07 (5-10)	Total/NA	Solid	7471B	
500-225545-7	1401V3-26-B06 (0-5)	Total/NA	Solid	7471B	
500-225545-8	1401V3-26-B06 (5-10)	Total/NA	Solid	7471B	
500-225545-9	1401V3-26-B05 (0-5)	Total/NA	Solid	7471B	
500-225545-10	1401V3-26-B05 (5-10)	Total/NA	Solid	7471B	
500-225545-11	1401V3-26-B04 (0-5)	Total/NA	Solid	7471B	
500-225545-12	1401V3-26-B04 (5-10)	Total/NA	Solid	7471B	
500-225545-13	1401V3-26-B03 (0-5)	Total/NA	Solid	7471B	
500-225545-14	1401V3-26-B03 (5-10)	Total/NA	Solid	7471B	
500-225545-15	1401V3-26-B02 (0-5)	Total/NA	Solid	7471B	
500-225545-16	1401V3-26-B02 (5-10)	Total/NA	Solid	7471B	
500-225545-17	1401V3-26-B01 (0-5)	Total/NA	Solid	7471B	
500-225545-18	1401V3-26-B01 (5-10)	Total/NA	Solid	7471B	
MB 500-688232/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-688232/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-225545-10 MS	1401V3-26-B05 (5-10)	Total/NA	Solid	7471B	
500-225545-10 MSD	1401V3-26-B05 (5-10)	Total/NA	Solid	7471B	
500-225545-10 DU	1401V3-26-B05 (5-10)	Total/NA	Solid	7471B	

QC Association Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Metals

Analysis Batch: 688235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-1	1401V3-26-B09 (0-5)	TCLP	Solid	6020A	687802
500-225545-2	1401V3-26-B09 (5-10)	TCLP	Solid	6020A	687802
500-225545-3	1401V3-26-B08 (0-5)	TCLP	Solid	6020A	687802
500-225545-4	1401V3-26-B08 (5-10)	TCLP	Solid	6020A	687802
500-225545-5	1401V3-26-B07 (0-5)	TCLP	Solid	6020A	687802
500-225545-6	1401V3-26-B07 (5-10)	TCLP	Solid	6020A	687802
500-225545-7	1401V3-26-B06 (0-5)	TCLP	Solid	6020A	687802
500-225545-8	1401V3-26-B06 (5-10)	TCLP	Solid	6020A	687802
500-225545-9	1401V3-26-B05 (0-5)	TCLP	Solid	6020A	687802
500-225545-10	1401V3-26-B05 (5-10)	TCLP	Solid	6020A	687802
500-225545-11	1401V3-26-B04 (0-5)	TCLP	Solid	6020A	687802
500-225545-12	1401V3-26-B04 (5-10)	TCLP	Solid	6020A	687802
500-225545-13	1401V3-26-B03 (0-5)	TCLP	Solid	6020A	687802
500-225545-14	1401V3-26-B03 (5-10)	TCLP	Solid	6020A	687802
500-225545-15	1401V3-26-B02 (0-5)	TCLP	Solid	6020A	687802
500-225545-16	1401V3-26-B02 (5-10)	TCLP	Solid	6020A	687802
500-225545-17	1401V3-26-B01 (0-5)	TCLP	Solid	6020A	687802
500-225545-18	1401V3-26-B01 (5-10)	TCLP	Solid	6020A	687802
LB 500-687548/1-B	Method Blank	TCLP	Solid	6020A	687802
LB2 500-687556/1-B	Method Blank	TCLP	Solid	6020A	687802
LCS 500-687802/24-A	Lab Control Sample	Total/NA	Solid	6020A	687802
LCS 500-687802/2-A	Lab Control Sample	Total/NA	Solid	6020A	687802
500-225545-18 MS	1401V3-26-B01 (5-10)	TCLP	Solid	6020A	687802
500-225545-18 DU	1401V3-26-B01 (5-10)	TCLP	Solid	6020A	687802

Analysis Batch: 688267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-1	1401V3-26-B09 (0-5)	TCLP	Solid	7470A	687929
500-225545-2	1401V3-26-B09 (5-10)	TCLP	Solid	7470A	687929
500-225545-3	1401V3-26-B08 (0-5)	TCLP	Solid	7470A	687929
500-225545-4	1401V3-26-B08 (5-10)	TCLP	Solid	7470A	687929
500-225545-5	1401V3-26-B07 (0-5)	TCLP	Solid	7470A	687929
500-225545-6	1401V3-26-B07 (5-10)	TCLP	Solid	7470A	687929
500-225545-7	1401V3-26-B06 (0-5)	TCLP	Solid	7470A	687929
500-225545-8	1401V3-26-B06 (5-10)	TCLP	Solid	7470A	687929
500-225545-9	1401V3-26-B05 (0-5)	TCLP	Solid	7470A	687929
500-225545-10	1401V3-26-B05 (5-10)	TCLP	Solid	7470A	687929
500-225545-11	1401V3-26-B04 (0-5)	TCLP	Solid	7470A	687929
500-225545-12	1401V3-26-B04 (5-10)	TCLP	Solid	7470A	687929
500-225545-13	1401V3-26-B03 (0-5)	TCLP	Solid	7470A	687929
500-225545-14	1401V3-26-B03 (5-10)	TCLP	Solid	7470A	687929
500-225545-15	1401V3-26-B02 (0-5)	TCLP	Solid	7470A	687929
500-225545-16	1401V3-26-B02 (5-10)	TCLP	Solid	7470A	687929
500-225545-17	1401V3-26-B01 (0-5)	TCLP	Solid	7470A	687929
500-225545-18	1401V3-26-B01 (5-10)	TCLP	Solid	7470A	687929
LB 500-687548/1-C	Method Blank	TCLP	Solid	7470A	687929
LB2 500-687556/2-B	Method Blank	TCLP	Solid	7470A	687929
MB 500-687929/12-A	Method Blank	Total/NA	Solid	7470A	687929
LCS 500-687929/14-A	Lab Control Sample	Total/NA	Solid	7470A	687929
LCS 500-687929/36-A	Lab Control Sample	Total/NA	Solid	7470A	687929
500-225545-18 MS	1401V3-26-B01 (5-10)	TCLP	Solid	7470A	687929

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Metals (Continued)

Analysis Batch: 688267 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-18 DU	1401V3-26-B01 (5-10)	TCLP	Solid	7470A	687929

Analysis Batch: 688394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-1	1401V3-26-B09 (0-5)	SPLP East	Solid	6010B	687806
500-225545-2	1401V3-26-B09 (5-10)	SPLP East	Solid	6010B	687806
500-225545-3	1401V3-26-B08 (0-5)	SPLP East	Solid	6010B	687806
500-225545-4	1401V3-26-B08 (5-10)	SPLP East	Solid	6010B	687806
500-225545-5	1401V3-26-B07 (0-5)	SPLP East	Solid	6010B	687806
500-225545-6	1401V3-26-B07 (5-10)	SPLP East	Solid	6010B	687806
500-225545-7	1401V3-26-B06 (0-5)	SPLP East	Solid	6010B	687806
500-225545-8	1401V3-26-B06 (5-10)	SPLP East	Solid	6010B	687806
500-225545-9	1401V3-26-B05 (0-5)	SPLP East	Solid	6010B	687806
500-225545-10	1401V3-26-B05 (5-10)	SPLP East	Solid	6010B	687806
500-225545-11	1401V3-26-B04 (0-5)	SPLP East	Solid	6010B	687806
500-225545-12	1401V3-26-B04 (5-10)	SPLP East	Solid	6010B	687806
500-225545-13	1401V3-26-B03 (0-5)	SPLP East	Solid	6010B	687806
500-225545-14	1401V3-26-B03 (5-10)	SPLP East	Solid	6010B	687806
500-225545-15	1401V3-26-B02 (0-5)	SPLP East	Solid	6010B	687806
500-225545-17	1401V3-26-B01 (0-5)	SPLP East	Solid	6010B	687806
500-225545-18	1401V3-26-B01 (5-10)	SPLP East	Solid	6010B	687806
LB 500-687561/1-B	Method Blank	SPLP East	Solid	6010B	687806
LCS 500-687806/2-A	Lab Control Sample	Total/NA	Solid	6010B	687806
500-225545-18 MS	1401V3-26-B01 (5-10)	SPLP East	Solid	6010B	687806
500-225545-18 DU	1401V3-26-B01 (5-10)	SPLP East	Solid	6010B	687806

Analysis Batch: 688451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-1	1401V3-26-B09 (0-5)	Total/NA	Solid	7471B	688232
500-225545-2	1401V3-26-B09 (5-10)	Total/NA	Solid	7471B	688232
500-225545-3	1401V3-26-B08 (0-5)	Total/NA	Solid	7471B	688232
500-225545-4	1401V3-26-B08 (5-10)	Total/NA	Solid	7471B	688232
500-225545-5	1401V3-26-B07 (0-5)	Total/NA	Solid	7471B	688232
500-225545-6	1401V3-26-B07 (5-10)	Total/NA	Solid	7471B	688232
500-225545-7	1401V3-26-B06 (0-5)	Total/NA	Solid	7471B	688232
500-225545-8	1401V3-26-B06 (5-10)	Total/NA	Solid	7471B	688232
500-225545-9	1401V3-26-B05 (0-5)	Total/NA	Solid	7471B	688232
500-225545-10	1401V3-26-B05 (5-10)	Total/NA	Solid	7471B	688232
500-225545-11	1401V3-26-B04 (0-5)	Total/NA	Solid	7471B	688232
500-225545-12	1401V3-26-B04 (5-10)	Total/NA	Solid	7471B	688232
500-225545-13	1401V3-26-B03 (0-5)	Total/NA	Solid	7471B	688232
500-225545-14	1401V3-26-B03 (5-10)	Total/NA	Solid	7471B	688232
500-225545-15	1401V3-26-B02 (0-5)	Total/NA	Solid	7471B	688232
500-225545-16	1401V3-26-B02 (5-10)	Total/NA	Solid	7471B	688232
500-225545-17	1401V3-26-B01 (0-5)	Total/NA	Solid	7471B	688232
500-225545-18	1401V3-26-B01 (5-10)	Total/NA	Solid	7471B	688232
MB 500-688232/12-A	Method Blank	Total/NA	Solid	7471B	688232
LCS 500-688232/13-A	Lab Control Sample	Total/NA	Solid	7471B	688232
500-225545-10 MS	1401V3-26-B05 (5-10)	Total/NA	Solid	7471B	688232
500-225545-10 MSD	1401V3-26-B05 (5-10)	Total/NA	Solid	7471B	688232
500-225545-10 DU	1401V3-26-B05 (5-10)	Total/NA	Solid	7471B	688232

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Metals

Analysis Batch: 688504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-1	1401V3-26-B09 (0-5)	Total/NA	Solid	6010B	687787
500-225545-2	1401V3-26-B09 (5-10)	Total/NA	Solid	6010B	687787
500-225545-3	1401V3-26-B08 (0-5)	Total/NA	Solid	6010B	687787
500-225545-4	1401V3-26-B08 (5-10)	Total/NA	Solid	6010B	687787
500-225545-5	1401V3-26-B07 (0-5)	Total/NA	Solid	6010B	687787
500-225545-6	1401V3-26-B07 (5-10)	Total/NA	Solid	6010B	687787
500-225545-7	1401V3-26-B06 (0-5)	Total/NA	Solid	6010B	687787
500-225545-8	1401V3-26-B06 (5-10)	Total/NA	Solid	6010B	687787
500-225545-9	1401V3-26-B05 (0-5)	Total/NA	Solid	6010B	687787
500-225545-10	1401V3-26-B05 (5-10)	Total/NA	Solid	6010B	687787
500-225545-11	1401V3-26-B04 (0-5)	Total/NA	Solid	6010B	687787
500-225545-12	1401V3-26-B04 (5-10)	Total/NA	Solid	6010B	687787
500-225545-13	1401V3-26-B03 (0-5)	Total/NA	Solid	6010B	687787
500-225545-14	1401V3-26-B03 (5-10)	Total/NA	Solid	6010B	687787
500-225545-15	1401V3-26-B02 (0-5)	Total/NA	Solid	6010B	687787
500-225545-16	1401V3-26-B02 (5-10)	Total/NA	Solid	6010B	687787
500-225545-17	1401V3-26-B01 (0-5)	Total/NA	Solid	6010B	687787
500-225545-18	1401V3-26-B01 (5-10)	Total/NA	Solid	6010B	687787
MB 500-687787/1-A	Method Blank	Total/NA	Solid	6010B	687787
LCS 500-687787/2-A	Lab Control Sample	Total/NA	Solid	6010B	687787
500-225545-3 MS	1401V3-26-B08 (0-5)	Total/NA	Solid	6010B	687787
500-225545-3 MSD	1401V3-26-B08 (0-5)	Total/NA	Solid	6010B	687787
500-225545-3 DU	1401V3-26-B08 (0-5)	Total/NA	Solid	6010B	687787

Analysis Batch: 688665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-1	1401V3-26-B09 (0-5)	Total/NA	Solid	6010B	687787
500-225545-3	1401V3-26-B08 (0-5)	Total/NA	Solid	6010B	687787
500-225545-5	1401V3-26-B07 (0-5)	Total/NA	Solid	6010B	687787
500-225545-7	1401V3-26-B06 (0-5)	Total/NA	Solid	6010B	687787
500-225545-8	1401V3-26-B06 (5-10)	Total/NA	Solid	6010B	687787
500-225545-9	1401V3-26-B05 (0-5)	Total/NA	Solid	6010B	687787
500-225545-10	1401V3-26-B05 (5-10)	Total/NA	Solid	6010B	687787
500-225545-11	1401V3-26-B04 (0-5)	Total/NA	Solid	6010B	687787
500-225545-12	1401V3-26-B04 (5-10)	Total/NA	Solid	6010B	687787
500-225545-13	1401V3-26-B03 (0-5)	Total/NA	Solid	6010B	687787
500-225545-14	1401V3-26-B03 (5-10)	Total/NA	Solid	6010B	687787
500-225545-15	1401V3-26-B02 (0-5)	Total/NA	Solid	6010B	687787
500-225545-16	1401V3-26-B02 (5-10)	Total/NA	Solid	6010B	687787
500-225545-17	1401V3-26-B01 (0-5)	Total/NA	Solid	6010B	687787
500-225545-18	1401V3-26-B01 (5-10)	Total/NA	Solid	6010B	687787
500-225545-3 MS	1401V3-26-B08 (0-5)	Total/NA	Solid	6010B	687787
500-225545-3 MSD	1401V3-26-B08 (0-5)	Total/NA	Solid	6010B	687787
500-225545-3 DU	1401V3-26-B08 (0-5)	Total/NA	Solid	6010B	687787

General Chemistry

Analysis Batch: 686396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-1	1401V3-26-B09 (0-5)	Total/NA	Solid	9045D	
500-225545-2	1401V3-26-B09 (5-10)	Total/NA	Solid	9045D	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

General Chemistry (Continued)

Analysis Batch: 686396 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-3	1401V3-26-B08 (0-5)	Total/NA	Solid	9045D	
500-225545-4	1401V3-26-B08 (5-10)	Total/NA	Solid	9045D	
500-225545-5	1401V3-26-B07 (0-5)	Total/NA	Solid	9045D	
500-225545-6	1401V3-26-B07 (5-10)	Total/NA	Solid	9045D	
500-225545-7	1401V3-26-B06 (0-5)	Total/NA	Solid	9045D	
500-225545-8	1401V3-26-B06 (5-10)	Total/NA	Solid	9045D	
500-225545-9	1401V3-26-B05 (0-5)	Total/NA	Solid	9045D	
500-225545-10	1401V3-26-B05 (5-10)	Total/NA	Solid	9045D	
500-225545-11	1401V3-26-B04 (0-5)	Total/NA	Solid	9045D	
500-225545-12	1401V3-26-B04 (5-10)	Total/NA	Solid	9045D	
500-225545-13	1401V3-26-B03 (0-5)	Total/NA	Solid	9045D	
500-225545-14	1401V3-26-B03 (5-10)	Total/NA	Solid	9045D	
500-225545-15	1401V3-26-B02 (0-5)	Total/NA	Solid	9045D	
500-225545-16	1401V3-26-B02 (5-10)	Total/NA	Solid	9045D	
500-225545-17	1401V3-26-B01 (0-5)	Total/NA	Solid	9045D	
500-225545-18	1401V3-26-B01 (5-10)	Total/NA	Solid	9045D	
LCS 500-686396/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-686396/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-225545-2 DU	1401V3-26-B09 (5-10)	Total/NA	Solid	9045D	

Analysis Batch: 687310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225545-1	1401V3-26-B09 (0-5)	Total/NA	Solid	Moisture	
500-225545-2	1401V3-26-B09 (5-10)	Total/NA	Solid	Moisture	
500-225545-3	1401V3-26-B08 (0-5)	Total/NA	Solid	Moisture	
500-225545-4	1401V3-26-B08 (5-10)	Total/NA	Solid	Moisture	
500-225545-5	1401V3-26-B07 (0-5)	Total/NA	Solid	Moisture	
500-225545-6	1401V3-26-B07 (5-10)	Total/NA	Solid	Moisture	
500-225545-7	1401V3-26-B06 (0-5)	Total/NA	Solid	Moisture	
500-225545-8	1401V3-26-B06 (5-10)	Total/NA	Solid	Moisture	
500-225545-9	1401V3-26-B05 (0-5)	Total/NA	Solid	Moisture	
500-225545-10	1401V3-26-B05 (5-10)	Total/NA	Solid	Moisture	
500-225545-11	1401V3-26-B04 (0-5)	Total/NA	Solid	Moisture	
500-225545-12	1401V3-26-B04 (5-10)	Total/NA	Solid	Moisture	
500-225545-13	1401V3-26-B03 (0-5)	Total/NA	Solid	Moisture	
500-225545-14	1401V3-26-B03 (5-10)	Total/NA	Solid	Moisture	
500-225545-15	1401V3-26-B02 (0-5)	Total/NA	Solid	Moisture	
500-225545-16	1401V3-26-B02 (5-10)	Total/NA	Solid	Moisture	
500-225545-17	1401V3-26-B01 (0-5)	Total/NA	Solid	Moisture	
500-225545-18	1401V3-26-B01 (5-10)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (77-120)	DBFM (80-123)	TOL (76-120)
500-225545-1	1401V3-26-B09 (0-5)	91	110	91
500-225545-2	1401V3-26-B09 (5-10)	98	112	91
500-225545-3	1401V3-26-B08 (0-5)	93	110	93
500-225545-4	1401V3-26-B08 (5-10)	97	110	92
500-225545-5	1401V3-26-B07 (0-5)	93	110	92
500-225545-6	1401V3-26-B07 (5-10)	94	110	93
500-225545-7	1401V3-26-B06 (0-5)	92	108	93
500-225545-8	1401V3-26-B06 (5-10)	95	109	93
500-225545-9	1401V3-26-B05 (0-5)	91	111	91
500-225545-10	1401V3-26-B05 (5-10)	93	108	94
500-225545-11	1401V3-26-B04 (0-5)	91	110	91
500-225545-12	1401V3-26-B04 (5-10)	94	107	92
500-225545-13	1401V3-26-B03 (0-5)	95	109	91
500-225545-14	1401V3-26-B03 (5-10)	93	108	92
500-225545-15	1401V3-26-B02 (0-5)	91	112	93
500-225545-16	1401V3-26-B02 (5-10)	91	109	92
500-225545-17	1401V3-26-B01 (0-5)	93	110	93
500-225545-18	1401V3-26-B01 (5-10)	95	110	92
LCS 310-372906/2-A	Lab Control Sample	102	96	99
LCS 310-372909/2-A	Lab Control Sample	102	100	98
MB 310-372906/1-A	Method Blank	94	108	94
MB 310-372909/1-A	Method Blank	96	108	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-225545-1	1401V3-26-B09 (0-5)	104	92	73	88	130	88
500-225545-1 MS	1401V3-26-B09 (0-5)	92	79	55	81	100	83
500-225545-1 MSD	1401V3-26-B09 (0-5)	70	62	42	70	91	76
500-225545-2	1401V3-26-B09 (5-10)	100	82	71	61	118	80
500-225545-3	1401V3-26-B08 (0-5)	77	69	55	57	93	61
500-225545-4	1401V3-26-B08 (5-10)	103	84	75	81	117	78
500-225545-5	1401V3-26-B07 (0-5)	106	78	76	67	126	72
500-225545-6	1401V3-26-B07 (5-10)	79	82	59	74	100	69
500-225545-7	1401V3-26-B06 (0-5)	90	79	64	57	118	62
500-225545-8	1401V3-26-B06 (5-10)	106	93	69	76	121	67
500-225545-9	1401V3-26-B05 (0-5)	80	62	56	53	97	56
500-225545-10	1401V3-26-B05 (5-10)	74	68	53	67	114	63
500-225545-11	1401V3-26-B04 (0-5)	94	62	64	70	114	63
500-225545-12	1401V3-26-B04 (5-10)	60	57	42	52	92	55
500-225545-13	1401V3-26-B03 (0-5)	72	57	53	58	104	59
500-225545-14	1401V3-26-B03 (5-10)	62	55	44	56	107	61

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Surrogate Summary

Client: WSP USA Inc.

Job ID: 500-225545-1

Project/Site: IDOT - 196-002-WO 13 IL 56

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-225545-15	1401V3-26-B02 (0-5)	78	72	58	71	127	68
500-225545-16	1401V3-26-B02 (5-10)	34 S1-	86	44	74	79	75
500-225545-17	1401V3-26-B01 (0-5)	96	72	64	76	141	77
500-225545-18	1401V3-26-B01 (5-10)	112	83	79	84	137	86
LCS 500-687172/2-A	Lab Control Sample	113	74	69	82	102	87
MB 500-687172/1-A	Method Blank	112	105	78	96	146	74

Surrogate Legend

- FBP = 2-Fluorobiphenyl (Surr)
- 2FP = 2-Fluorophenol (Surr)
- NBZ = Nitrobenzene-d5 (Surr)
- PHL = Phenol-d5 (Surr)
- TPHL = Terphenyl-d14 (Surr)
- TBP = 2,4,6-Tribromophenol (Surr)



QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-372906/1-A
Matrix: Solid
Analysis Batch: 372908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372906

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.089		0.089	0.016	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Benzene	<0.0089		0.0089	0.0016	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Bromodichloromethane	<0.0089		0.0089	0.00070	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Bromoform	<0.018		0.018	0.0011	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Bromomethane	<0.036		0.036	0.0029	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
2-Butanone (MEK)	<0.036		0.036	0.0027	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Carbon disulfide	<0.0089		0.0089	0.0021	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Carbon tetrachloride	<0.0089		0.0089	0.0025	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Chlorobenzene	<0.0089		0.0089	0.0014	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Chloroethane	<0.036		0.036	0.0064	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Chloroform	<0.0089		0.0089	0.0030	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Chloromethane	<0.036		0.036	0.0059	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
cis-1,2-Dichloroethene	<0.0089		0.0089	0.0013	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
cis-1,3-Dichloropropene	<0.0089		0.0089	0.0010	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Dibromochloromethane	<0.0089		0.0089	0.00039	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
1,1-Dichloroethane	<0.0089		0.0089	0.00077	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
1,2-Dichloroethane	<0.0089		0.0089	0.00055	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
1,1-Dichloroethene	<0.0089		0.0089	0.0013	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
1,2-Dichloropropane	<0.0089		0.0089	0.00077	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
1,3-Dichloropropene, Total	<0.018		0.018	0.0020	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Ethylbenzene	<0.0089		0.0089	0.0043	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
2-Hexanone	<0.036		0.036	0.0041	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Methylene Chloride	<0.089		0.089	0.052	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
4-Methyl-2-pentanone (MIBK)	<0.036		0.036	0.0030	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Methyl tert-butyl ether	<0.0089		0.0089	0.00039	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Styrene	<0.0089		0.0089	0.0063	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
1,1,2,2-Tetrachloroethane	<0.0089		0.0089	0.00063	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Tetrachloroethene	<0.0089		0.0089	0.0017	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Toluene	<0.0089		0.0089	0.0059	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
trans-1,2-Dichloroethene	<0.0089		0.0089	0.0011	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
trans-1,3-Dichloropropene	<0.0089		0.0089	0.00098	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
1,1,1-Trichloroethane	<0.0089		0.0089	0.00082	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
1,1,2-Trichloroethane	<0.0089		0.0089	0.00057	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Trichloroethene	<0.0089		0.0089	0.0025	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Vinyl acetate	<0.018		0.018	0.0030	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Vinyl chloride	<0.018		0.018	0.0063	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Xylenes, Total	<0.018		0.018	0.0064	mg/Kg		11/23/22 08:03	11/23/22 17:59	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	94		77 - 120	11/23/22 08:03	11/23/22 17:59	1
Dibromofluoromethane (Surr)	108		80 - 123	11/23/22 08:03	11/23/22 17:59	1
Toluene-d8 (Surr)	94		76 - 120	11/23/22 08:03	11/23/22 17:59	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-372906/2-A
Matrix: Solid
Analysis Batch: 372908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372906

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.142	0.113		mg/Kg		80	52 - 150
Benzene	0.0708	0.0610		mg/Kg		86	77 - 134
Bromodichloromethane	0.0708	0.0588		mg/Kg		83	78 - 122
Bromoform	0.0708	0.0626		mg/Kg		88	72 - 122
2-Butanone (MEK)	0.142	0.140		mg/Kg		99	60 - 150
Carbon disulfide	0.0708	0.0576		mg/Kg		81	61 - 142
Carbon tetrachloride	0.0708	0.0552		mg/Kg		78	77 - 127
Chlorobenzene	0.0708	0.0565		mg/Kg		80	76 - 120
Chloroform	0.0708	0.0543	*-	mg/Kg		77	78 - 127
cis-1,2-Dichloroethene	0.0708	0.0608		mg/Kg		86	74 - 136
cis-1,3-Dichloropropene	0.0708	0.0613		mg/Kg		87	79 - 126
Dibromochloromethane	0.0708	0.0617		mg/Kg		87	78 - 122
1,1-Dichloroethane	0.0708	0.0612		mg/Kg		87	74 - 137
1,2-Dichloroethane	0.0708	0.0588		mg/Kg		83	79 - 132
1,1-Dichloroethene	0.0708	0.0540		mg/Kg		76	62 - 130
1,2-Dichloropropane	0.0708	0.0647		mg/Kg		91	78 - 135
Ethylbenzene	0.0708	0.0589		mg/Kg		83	78 - 122
2-Hexanone	0.142	0.135		mg/Kg		96	73 - 134
Methylene Chloride	0.0708	0.0644	J	mg/Kg		91	55 - 150
4-Methyl-2-pentanone (MIBK)	0.142	0.137		mg/Kg		97	75 - 135
Methyl tert-butyl ether	0.0708	0.0617		mg/Kg		87	73 - 135
Styrene	0.0708	0.0605		mg/Kg		86	75 - 120
1,1,2,2-Tetrachloroethane	0.0708	0.0618		mg/Kg		87	80 - 127
Tetrachloroethene	0.0708	0.0529		mg/Kg		75	72 - 121
Toluene	0.0708	0.0573		mg/Kg		81	77 - 121
trans-1,2-Dichloroethene	0.0708	0.0593		mg/Kg		84	71 - 134
trans-1,3-Dichloropropene	0.0708	0.0575		mg/Kg		81	77 - 122
1,1,1-Trichloroethane	0.0708	0.0573		mg/Kg		81	79 - 132
1,1,2-Trichloroethane	0.0708	0.0639		mg/Kg		90	80 - 124
Trichloroethene	0.0708	0.0604		mg/Kg		85	76 - 132
Vinyl acetate	0.142	0.0851		mg/Kg		60	37 - 150
Xylenes, Total	0.142	0.119		mg/Kg		84	76 - 124

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		77 - 120
Dibromofluoromethane (Surr)	96		80 - 123
Toluene-d8 (Surr)	99		76 - 120

Lab Sample ID: MB 310-372909/1-A
Matrix: Solid
Analysis Batch: 372912

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372909

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.098		0.098	0.018	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Benzene	<0.0098		0.0098	0.0018	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Bromodichloromethane	<0.0098		0.0098	0.00076	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Bromoform	<0.020		0.020	0.0013	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Bromomethane	<0.039		0.039	0.0031	mg/Kg		11/23/22 08:09	11/24/22 05:36	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-372909/1-A
Matrix: Solid
Analysis Batch: 372912

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372909

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	<0.039		0.039	0.0029	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Carbon disulfide	<0.0098		0.0098	0.0024	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Carbon tetrachloride	<0.0098		0.0098	0.0027	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Chlorobenzene	<0.0098		0.0098	0.0015	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Chloroethane	<0.039		0.039	0.0071	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Chloroform	<0.0098		0.0098	0.0033	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Chloromethane	<0.039		0.039	0.0065	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
cis-1,2-Dichloroethene	<0.0098		0.0098	0.0015	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
cis-1,3-Dichloropropene	<0.0098		0.0098	0.0011	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Dibromochloromethane	<0.0098		0.0098	0.00043	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
1,1-Dichloroethane	<0.0098		0.0098	0.00084	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
1,2-Dichloroethane	<0.0098		0.0098	0.00061	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
1,1-Dichloroethene	<0.0098		0.0098	0.0014	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
1,2-Dichloropropane	<0.0098		0.0098	0.00084	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
1,3-Dichloropropene, Total	<0.020		0.020	0.0022	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Ethylbenzene	<0.0098		0.0098	0.0047	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
2-Hexanone	<0.039		0.039	0.0045	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Methylene Chloride	<0.098		0.098	0.057	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
4-Methyl-2-pentanone (MIBK)	<0.039		0.039	0.0033	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Methyl tert-butyl ether	<0.0098		0.0098	0.00043	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Styrene	<0.0098		0.0098	0.0069	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
1,1,2,2-Tetrachloroethane	<0.0098		0.0098	0.00069	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Tetrachloroethene	<0.0098		0.0098	0.0019	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Toluene	<0.0098		0.0098	0.0065	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
trans-1,2-Dichloroethene	<0.0098		0.0098	0.0012	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
trans-1,3-Dichloropropene	<0.0098		0.0098	0.0011	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
1,1,1-Trichloroethane	<0.0098		0.0098	0.00090	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
1,1,2-Trichloroethane	<0.0098		0.0098	0.00063	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Trichloroethene	<0.0098		0.0098	0.0027	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Vinyl acetate	<0.020		0.020	0.0033	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Vinyl chloride	<0.020		0.020	0.0069	mg/Kg		11/23/22 08:09	11/24/22 05:36	1
Xylenes, Total	<0.020		0.020	0.0071	mg/Kg		11/23/22 08:09	11/24/22 05:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		77 - 120	11/23/22 08:09	11/24/22 05:36	1
Dibromofluoromethane (Surr)	108		80 - 123	11/23/22 08:09	11/24/22 05:36	1
Toluene-d8 (Surr)	92		76 - 120	11/23/22 08:09	11/24/22 05:36	1

Lab Sample ID: LCS 310-372909/2-A
Matrix: Solid
Analysis Batch: 372912

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372909

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.188	0.176		mg/Kg		94	52 - 150
Benzene	0.0939	0.0865		mg/Kg		92	77 - 134
Bromodichloromethane	0.0939	0.0828		mg/Kg		88	78 - 122
Bromoform	0.0939	0.0880		mg/Kg		94	72 - 122
2-Butanone (MEK)	0.188	0.196		mg/Kg		105	60 - 150

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-372909/2-A
Matrix: Solid
Analysis Batch: 372912

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372909

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Carbon disulfide	0.0939	0.0796		mg/Kg		85	61 - 142	
Carbon tetrachloride	0.0939	0.0778		mg/Kg		83	77 - 127	
Chlorobenzene	0.0939	0.0772		mg/Kg		82	76 - 120	
Chloroform	0.0939	0.0764		mg/Kg		81	78 - 127	
cis-1,2-Dichloroethene	0.0939	0.0855		mg/Kg		91	74 - 136	
cis-1,3-Dichloropropene	0.0939	0.0846		mg/Kg		90	79 - 126	
Dibromochloromethane	0.0939	0.0860		mg/Kg		92	78 - 122	
1,1-Dichloroethane	0.0939	0.0881		mg/Kg		94	74 - 137	
1,2-Dichloroethane	0.0939	0.0853		mg/Kg		91	79 - 132	
1,1-Dichloroethene	0.0939	0.0760		mg/Kg		81	62 - 130	
1,2-Dichloropropane	0.0939	0.0905		mg/Kg		96	78 - 135	
Ethylbenzene	0.0939	0.0796		mg/Kg		85	78 - 122	
2-Hexanone	0.188	0.186		mg/Kg		99	73 - 134	
Methylene Chloride	0.0939	0.0959	J	mg/Kg		102	55 - 150	
4-Methyl-2-pentanone (MIBK)	0.188	0.194		mg/Kg		103	75 - 135	
Methyl tert-butyl ether	0.0939	0.0888		mg/Kg		95	73 - 135	
Styrene	0.0939	0.0812		mg/Kg		87	75 - 120	
1,1,2,2-Tetrachloroethane	0.0939	0.0850		mg/Kg		91	80 - 127	
Tetrachloroethene	0.0939	0.0697		mg/Kg		74	72 - 121	
Toluene	0.0939	0.0793		mg/Kg		84	77 - 121	
trans-1,2-Dichloroethene	0.0939	0.0822		mg/Kg		88	71 - 134	
trans-1,3-Dichloropropene	0.0939	0.0781		mg/Kg		83	77 - 122	
1,1,1-Trichloroethane	0.0939	0.0813		mg/Kg		87	79 - 132	
1,1,2-Trichloroethane	0.0939	0.0908		mg/Kg		97	80 - 124	
Trichloroethene	0.0939	0.0851		mg/Kg		91	76 - 132	
Vinyl acetate	0.188	0.0350	*-	mg/Kg		19	37 - 150	
Xylenes, Total	0.188	0.159		mg/Kg		85	76 - 124	

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		77 - 120
Dibromofluoromethane (Surr)	100		80 - 123
Toluene-d8 (Surr)	98		76 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-687172/1-A
Matrix: Solid
Analysis Batch: 688077

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687172

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		11/29/22 07:31	12/04/22 13:47	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-687172/1-A
Matrix: Solid
Analysis Batch: 688077

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687172

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
Carbazole	<0.17		0.17	0.083	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
Isophorone	<0.17		0.17	0.037	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		11/29/22 07:31	12/04/22 13:47	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-687172/1-A
Matrix: Solid
Analysis Batch: 688077

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687172

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
Phenol	<0.17		0.17	0.074	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		11/29/22 07:31	12/04/22 13:47	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		11/29/22 07:31	12/04/22 13:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	112		43 - 145	11/29/22 07:31	12/04/22 13:47	1
2-Fluorophenol (Surr)	105		31 - 166	11/29/22 07:31	12/04/22 13:47	1
Nitrobenzene-d5 (Surr)	78		37 - 147	11/29/22 07:31	12/04/22 13:47	1
Phenol-d5 (Surr)	96		30 - 153	11/29/22 07:31	12/04/22 13:47	1
Terphenyl-d14 (Surr)	146		42 - 157	11/29/22 07:31	12/04/22 13:47	1
2,4,6-Tribromophenol (Surr)	74		31 - 143	11/29/22 07:31	12/04/22 13:47	1

Lab Sample ID: LCS 500-687172/2-A
Matrix: Solid
Analysis Batch: 688077

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687172

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.45		mg/Kg		109	65 - 124
Acenaphthylene	1.33	1.39		mg/Kg		104	68 - 120
Anthracene	1.33	1.36		mg/Kg		102	70 - 114
Benzo[a]anthracene	1.33	1.32		mg/Kg		99	67 - 122
Benzo[a]pyrene	1.33	1.14		mg/Kg		86	65 - 133
Benzo[b]fluoranthene	1.33	1.12		mg/Kg		84	69 - 129
Benzo[g,h,i]perylene	1.33	1.20		mg/Kg		90	72 - 131
Benzo[k]fluoranthene	1.33	1.16		mg/Kg		87	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.02		mg/Kg		76	60 - 112
Bis(2-chloroethyl)ether	1.33	1.17		mg/Kg		88	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.08		mg/Kg		81	72 - 131
4-Bromophenyl phenyl ether	1.33	1.29		mg/Kg		97	68 - 118
Butyl benzyl phthalate	1.33	1.06		mg/Kg		79	71 - 129
Carbazole	1.33	1.24		mg/Kg		93	65 - 142
4-Chloroaniline	1.33	0.537	J	mg/Kg		40	30 - 150
4-Chloro-3-methylphenol	1.33	0.983		mg/Kg		74	65 - 122
2-Chloronaphthalene	1.33	1.37		mg/Kg		103	69 - 114
2-Chlorophenol	1.33	1.10		mg/Kg		82	64 - 110
4-Chlorophenyl phenyl ether	1.33	1.48		mg/Kg		111	62 - 119
Chrysene	1.33	1.36		mg/Kg		102	63 - 120
Dibenz(a,h)anthracene	1.33	1.23		mg/Kg		92	64 - 131
Dibenzofuran	1.33	1.42		mg/Kg		107	66 - 115
1,2-Dichlorobenzene	1.33	1.16		mg/Kg		87	62 - 110
1,3-Dichlorobenzene	1.33	1.20		mg/Kg		90	65 - 124
1,4-Dichlorobenzene	1.33	1.20		mg/Kg		90	61 - 110
3,3'-Dichlorobenzidine	1.33	0.708		mg/Kg		53	35 - 128
2,4-Dichlorophenol	1.33	1.30		mg/Kg		97	58 - 120
Diethyl phthalate	1.33	1.27		mg/Kg		95	58 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-687172/2-A
Matrix: Solid
Analysis Batch: 688077

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687172

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dimethylphenol	1.33	1.16		mg/Kg		87	60 - 110
Dimethyl phthalate	1.33	1.26		mg/Kg		94	69 - 116
Di-n-butyl phthalate	1.33	1.20		mg/Kg		90	65 - 120
4,6-Dinitro-2-methylphenol	2.67	0.811		mg/Kg		30	10 - 110
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		21	10 - 100
2,4-Dinitrotoluene	1.33	1.23		mg/Kg		92	69 - 124
2,6-Dinitrotoluene	1.33	1.17		mg/Kg		88	70 - 123
Di-n-octyl phthalate	1.33	1.16		mg/Kg		87	68 - 134
Fluoranthene	1.33	1.39		mg/Kg		104	62 - 120
Fluorene	1.33	1.41		mg/Kg		106	62 - 120
Hexachlorobenzene	1.33	1.37		mg/Kg		103	63 - 124
Hexachlorobutadiene	1.33	1.58		mg/Kg		118	56 - 120
Hexachlorocyclopentadiene	1.33	<0.67	*-	mg/Kg		8	10 - 133
Hexachloroethane	1.33	1.06		mg/Kg		79	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.30		mg/Kg		98	68 - 130
Isophorone	1.33	1.05		mg/Kg		79	55 - 110
2-Methylnaphthalene	1.33	1.46		mg/Kg		109	69 - 112
2-Methylphenol	1.33	0.894		mg/Kg		67	60 - 120
3 & 4 Methylphenol	1.33	1.01		mg/Kg		76	57 - 120
Naphthalene	1.33	1.28		mg/Kg		96	63 - 110
2-Nitroaniline	1.33	0.874		mg/Kg		66	57 - 124
3-Nitroaniline	1.33	0.472	*-	mg/Kg		35	40 - 122
4-Nitroaniline	1.33	0.626	*-	mg/Kg		47	60 - 160
Nitrobenzene	1.33	1.10		mg/Kg		82	60 - 116
2-Nitrophenol	1.33	1.24		mg/Kg		93	60 - 120
4-Nitrophenol	2.67	0.986		mg/Kg		37	30 - 122
N-Nitrosodi-n-propylamine	1.33	0.990		mg/Kg		74	56 - 118
N-Nitrosodiphenylamine	1.33	1.24		mg/Kg		93	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	0.931		mg/Kg		70	40 - 124
Pentachlorophenol	2.67	0.637	J	mg/Kg		24	13 - 112
Phenanthrene	1.33	1.36		mg/Kg		102	62 - 120
Phenol	1.33	0.976		mg/Kg		73	56 - 122
Pyrene	1.33	1.36		mg/Kg		102	61 - 128
1,2,4-Trichlorobenzene	1.33	1.56		mg/Kg		117	66 - 117
2,4,5-Trichlorophenol	1.33	1.35		mg/Kg		101	50 - 120
2,4,6-Trichlorophenol	1.33	1.23		mg/Kg		92	57 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	113		43 - 145
2-Fluorophenol (Surr)	74		31 - 166
Nitrobenzene-d5 (Surr)	69		37 - 147
Phenol-d5 (Surr)	82		30 - 153
Terphenyl-d14 (Surr)	102		42 - 157
2,4,6-Tribromophenol (Surr)	87		31 - 143

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-225545-1 MS

Matrix: Solid

Analysis Batch: 688077

Client Sample ID: 1401V3-26-B09 (0-5)

Prep Type: Total/NA

Prep Batch: 687172

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	<0.039		1.58	1.57		mg/Kg	☼	99	65 - 124
Acenaphthylene	<0.039		1.58	1.47		mg/Kg	☼	93	68 - 120
Anthracene	<0.039		1.58	1.59		mg/Kg	☼	100	70 - 114
Benzo[a]anthracene	<0.039		1.58	1.57		mg/Kg	☼	99	67 - 122
Benzo[a]pyrene	<0.039		1.58	1.38		mg/Kg	☼	87	65 - 133
Benzo[b]fluoranthene	<0.039		1.58	1.43		mg/Kg	☼	91	69 - 129
Benzo[g,h,i]perylene	<0.039	F1	1.58	1.04	F1	mg/Kg	☼	66	72 - 131
Benzo[k]fluoranthene	<0.039		1.58	1.48		mg/Kg	☼	94	68 - 127
Bis(2-chloroethoxy)methane	<0.20		1.58	1.05		mg/Kg	☼	66	60 - 112
Bis(2-chloroethyl)ether	<0.20		1.58	1.57		mg/Kg	☼	99	55 - 111
Bis(2-ethylhexyl) phthalate	<0.20		1.58	1.29		mg/Kg	☼	81	72 - 131
4-Bromophenyl phenyl ether	<0.20		1.58	1.42		mg/Kg	☼	90	68 - 118
Butyl benzyl phthalate	<0.20		1.58	1.29		mg/Kg	☼	81	71 - 129
Carbazole	<0.20		1.58	1.48		mg/Kg	☼	94	65 - 142
4-Chloroaniline	<0.80		1.58	0.625	J	mg/Kg	☼	40	30 - 150
4-Chloro-3-methylphenol	<0.39		1.58	1.12		mg/Kg	☼	71	65 - 122
2-Chloronaphthalene	<0.20		1.58	1.44		mg/Kg	☼	91	69 - 114
2-Chlorophenol	<0.20		1.58	1.27		mg/Kg	☼	80	64 - 110
4-Chlorophenyl phenyl ether	<0.20		1.58	1.62		mg/Kg	☼	102	62 - 119
Chrysene	<0.039		1.58	1.58		mg/Kg	☼	100	63 - 120
Dibenz(a,h)anthracene	<0.039	F1	1.58	1.16		mg/Kg	☼	73	64 - 131
Dibenzofuran	<0.20		1.58	1.63		mg/Kg	☼	103	66 - 115
1,2-Dichlorobenzene	<0.20	F1	1.58	1.01		mg/Kg	☼	64	62 - 110
1,3-Dichlorobenzene	<0.20		1.58	0.989		mg/Kg	☼	63	60 - 110
1,4-Dichlorobenzene	<0.20		1.58	1.02		mg/Kg	☼	64	61 - 110
3,3'-Dichlorobenzidine	<0.20		1.58	0.973		mg/Kg	☼	61	35 - 128
2,4-Dichlorophenol	<0.39		1.58	1.37		mg/Kg	☼	87	58 - 120
Diethyl phthalate	<0.20		1.58	1.44		mg/Kg	☼	91	58 - 120
2,4-Dimethylphenol	<0.39		1.58	1.23		mg/Kg	☼	78	60 - 110
Dimethyl phthalate	<0.20		1.58	1.40		mg/Kg	☼	88	69 - 116
Di-n-butyl phthalate	<0.20		1.58	1.55		mg/Kg	☼	98	65 - 120
4,6-Dinitro-2-methylphenol	<0.80		3.16	2.25		mg/Kg	☼	71	10 - 110
2,4-Dinitrophenol	<0.80		3.16	1.62		mg/Kg	☼	51	10 - 100
2,4-Dinitrotoluene	<0.20		1.58	1.36		mg/Kg	☼	86	69 - 124
2,6-Dinitrotoluene	<0.20		1.58	1.29		mg/Kg	☼	82	70 - 123
Di-n-octyl phthalate	<0.20		1.58	1.53		mg/Kg	☼	97	68 - 134
Fluoranthene	<0.039		1.58	1.71		mg/Kg	☼	108	62 - 120
Fluorene	<0.039		1.58	1.58		mg/Kg	☼	100	62 - 120
Hexachlorobenzene	<0.080		1.58	1.58		mg/Kg	☼	100	63 - 124
Hexachlorobutadiene	<0.20	F1	1.58	0.921		mg/Kg	☼	58	56 - 120
Hexachlorocyclopentadiene	<0.80	F1 *-	1.58	<0.79	F1	mg/Kg	☼	0	10 - 133
Hexachloroethane	<0.20	F1	1.58	0.772	F1	mg/Kg	☼	49	60 - 114
Indeno[1,2,3-cd]pyrene	<0.039	F1	1.58	1.21		mg/Kg	☼	77	68 - 130
Isophorone	<0.20		1.58	1.11		mg/Kg	☼	70	55 - 110
2-Methylnaphthalene	<0.080		1.58	1.47		mg/Kg	☼	93	69 - 112
2-Methylphenol	<0.20		1.58	1.13		mg/Kg	☼	71	60 - 120
3 & 4 Methylphenol	<0.20		1.58	1.27		mg/Kg	☼	81	57 - 120
Naphthalene	<0.039		1.58	1.26		mg/Kg	☼	79	63 - 110

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-225545-1 MS

Matrix: Solid

Analysis Batch: 688077

Client Sample ID: 1401V3-26-B09 (0-5)

Prep Type: Total/NA

Prep Batch: 687172

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
2-Nitroaniline	<0.20		1.58	1.02		mg/Kg	☼	64	57 - 124	
3-Nitroaniline	<0.39	*-	1.58	0.830		mg/Kg	☼	52	40 - 122	
4-Nitroaniline	<0.39	F1 *-	1.58	0.849	F1	mg/Kg	☼	54	60 - 160	
Nitrobenzene	<0.039		1.58	1.16		mg/Kg	☼	74	60 - 116	
2-Nitrophenol	<0.39		1.58	1.20		mg/Kg	☼	76	60 - 120	
4-Nitrophenol	<0.80		3.16	1.56		mg/Kg	☼	49	30 - 122	
N-Nitrosodi-n-propylamine	<0.080		1.58	1.10		mg/Kg	☼	70	56 - 118	
N-Nitrosodiphenylamine	<0.20		1.58	1.39		mg/Kg	☼	88	65 - 112	
2,2'-oxybis[1-chloropropane]	<0.20		1.58	1.03		mg/Kg	☼	65	40 - 124	
Pentachlorophenol	<0.80		3.16	1.66		mg/Kg	☼	52	13 - 112	
Phenanthrene	<0.039		1.58	1.58		mg/Kg	☼	100	62 - 120	
Phenol	<0.20		1.58	1.33		mg/Kg	☼	84	56 - 122	
Pyrene	<0.039		1.58	1.54		mg/Kg	☼	98	61 - 128	
1,2,4-Trichlorobenzene	<0.20		1.58	1.38		mg/Kg	☼	87	66 - 117	
2,4,5-Trichlorophenol	<0.39		1.58	1.50		mg/Kg	☼	95	50 - 120	
2,4,6-Trichlorophenol	<0.39		1.58	1.39		mg/Kg	☼	88	57 - 120	

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	92		43 - 145
2-Fluorophenol (Surr)	79		31 - 166
Nitrobenzene-d5 (Surr)	55		37 - 147
Phenol-d5 (Surr)	81		30 - 153
Terphenyl-d14 (Surr)	100		42 - 157
2,4,6-Tribromophenol (Surr)	83		31 - 143

Lab Sample ID: 500-225545-1 MSD

Matrix: Solid

Analysis Batch: 688077

Client Sample ID: 1401V3-26-B09 (0-5)

Prep Type: Total/NA

Prep Batch: 687172

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Acenaphthene	<0.039		1.58	1.39		mg/Kg	☼	88	65 - 124	12	30	
Acenaphthylene	<0.039		1.58	1.31		mg/Kg	☼	83	68 - 120	12	30	
Anthracene	<0.039		1.58	1.39		mg/Kg	☼	88	70 - 114	14	30	
Benzo[a]anthracene	<0.039		1.58	1.45		mg/Kg	☼	92	67 - 122	8	30	
Benzo[a]pyrene	<0.039		1.58	1.28		mg/Kg	☼	81	65 - 133	8	30	
Benzo[b]fluoranthene	<0.039		1.58	1.35		mg/Kg	☼	86	69 - 129	6	30	
Benzo[g,h,i]perylene	<0.039	F1	1.58	0.832	F1	mg/Kg	☼	53	72 - 131	23	30	
Benzo[k]fluoranthene	<0.039		1.58	1.40		mg/Kg	☼	89	68 - 127	6	30	
Bis(2-chloroethoxy)methane	<0.20		1.58	1.00		mg/Kg	☼	64	60 - 112	4	30	
Bis(2-chloroethyl)ether	<0.20		1.58	1.41		mg/Kg	☼	90	55 - 111	11	30	
Bis(2-ethylhexyl) phthalate	<0.20		1.58	1.16		mg/Kg	☼	74	72 - 131	10	30	
4-Bromophenyl phenyl ether	<0.20		1.58	1.21		mg/Kg	☼	77	68 - 118	16	30	
Butyl benzyl phthalate	<0.20		1.58	1.17		mg/Kg	☼	74	71 - 129	10	30	
Carbazole	<0.20		1.58	1.34		mg/Kg	☼	85	65 - 142	10	30	
4-Chloroaniline	<0.80		1.58	0.790		mg/Kg	☼	50	30 - 150	23	30	
4-Chloro-3-methylphenol	<0.39		1.58	1.02		mg/Kg	☼	65	65 - 122	9	30	
2-Chloronaphthalene	<0.20		1.58	1.25		mg/Kg	☼	79	69 - 114	14	30	
2-Chlorophenol	<0.20		1.58	1.17		mg/Kg	☼	74	64 - 110	8	30	

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-225545-1 MSD

Matrix: Solid

Analysis Batch: 688077

Client Sample ID: 1401V3-26-B09 (0-5)

Prep Type: Total/NA

Prep Batch: 687172

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
4-Chlorophenyl phenyl ether	<0.20		1.58	1.42		mg/Kg	☼	90	62 - 119	13	30
Chrysene	<0.039		1.58	1.48		mg/Kg	☼	94	63 - 120	7	30
Dibenz(a,h)anthracene	<0.039	F1	1.58	0.961	F1	mg/Kg	☼	61	64 - 131	19	30
Dibenzofuran	<0.20		1.58	1.45		mg/Kg	☼	92	66 - 115	12	30
1,2-Dichlorobenzene	<0.20	F1	1.58	0.926	F1	mg/Kg	☼	59	62 - 110	8	30
1,3-Dichlorobenzene	<0.20		1.58	0.947		mg/Kg	☼	60	60 - 110	4	30
1,4-Dichlorobenzene	<0.20		1.58	0.984		mg/Kg	☼	62	61 - 110	3	30
3,3'-Dichlorobenzidine	<0.20		1.58	0.824		mg/Kg	☼	52	35 - 128	17	30
2,4-Dichlorophenol	<0.39		1.58	1.30		mg/Kg	☼	83	58 - 120	5	30
Diethyl phthalate	<0.20		1.58	1.27		mg/Kg	☼	81	58 - 120	12	30
2,4-Dimethylphenol	<0.39		1.58	1.17		mg/Kg	☼	74	60 - 110	5	30
Dimethyl phthalate	<0.20		1.58	1.25		mg/Kg	☼	79	69 - 116	11	30
Di-n-butyl phthalate	<0.20		1.58	1.37		mg/Kg	☼	87	65 - 120	12	30
4,6-Dinitro-2-methylphenol	<0.80		3.15	1.83		mg/Kg	☼	58	10 - 110	21	30
2,4-Dinitrophenol	<0.80		3.15	1.41		mg/Kg	☼	45	10 - 100	14	30
2,4-Dinitrotoluene	<0.20		1.58	1.18		mg/Kg	☼	75	69 - 124	14	30
2,6-Dinitrotoluene	<0.20		1.58	1.15		mg/Kg	☼	73	70 - 123	11	30
Di-n-octyl phthalate	<0.20		1.58	1.35		mg/Kg	☼	86	68 - 134	12	30
Fluoranthene	<0.039		1.58	1.50		mg/Kg	☼	95	62 - 120	14	30
Fluorene	<0.039		1.58	1.42		mg/Kg	☼	90	62 - 120	11	30
Hexachlorobenzene	<0.080		1.58	1.37		mg/Kg	☼	87	63 - 124	14	30
Hexachlorobutadiene	<0.20	F1	1.58	0.769	F1	mg/Kg	☼	49	56 - 120	18	30
Hexachlorocyclopentadiene	<0.80	F1 *-	1.58	<0.79	F1	mg/Kg	☼	0	10 - 133	NC	30
Hexachloroethane	<0.20	F1	1.58	0.717	F1	mg/Kg	☼	46	60 - 114	7	30
Indeno[1,2,3-cd]pyrene	<0.039	F1	1.58	1.01	F1	mg/Kg	☼	64	68 - 130	18	30
Isophorone	<0.20		1.58	1.04		mg/Kg	☼	66	55 - 110	7	30
2-Methylnaphthalene	<0.080		1.58	1.35		mg/Kg	☼	85	69 - 112	9	30
2-Methylphenol	<0.20		1.58	1.03		mg/Kg	☼	65	60 - 120	9	30
3 & 4 Methylphenol	<0.20		1.58	1.05		mg/Kg	☼	67	57 - 120	19	30
Naphthalene	<0.039		1.58	1.19		mg/Kg	☼	76	63 - 110	5	30
2-Nitroaniline	<0.20		1.58	0.935		mg/Kg	☼	59	57 - 124	9	30
3-Nitroaniline	<0.39	*-	1.58	0.719		mg/Kg	☼	46	40 - 122	14	30
4-Nitroaniline	<0.39	F1 *-	1.58	0.713	F1	mg/Kg	☼	45	60 - 160	17	30
Nitrobenzene	<0.039		1.58	1.06		mg/Kg	☼	67	60 - 116	10	30
2-Nitrophenol	<0.39		1.58	1.15		mg/Kg	☼	73	60 - 120	4	30
4-Nitrophenol	<0.80		3.15	1.35		mg/Kg	☼	43	30 - 122	14	30
N-Nitrosodi-n-propylamine	<0.080		1.58	0.992		mg/Kg	☼	63	56 - 118	11	30
N-Nitrosodiphenylamine	<0.20		1.58	1.19		mg/Kg	☼	75	65 - 112	15	30
2,2'-oxybis[1-chloropropane]	<0.20		1.58	0.987		mg/Kg	☼	63	40 - 124	4	30
Pentachlorophenol	<0.80		3.15	1.28		mg/Kg	☼	41	13 - 112	26	30
Phenanthrene	<0.039		1.58	1.40		mg/Kg	☼	89	62 - 120	12	30
Phenol	<0.20		1.58	1.23		mg/Kg	☼	78	56 - 122	8	30
Pyrene	<0.039		1.58	1.41		mg/Kg	☼	90	61 - 128	9	30
1,2,4-Trichlorobenzene	<0.20		1.58	1.21		mg/Kg	☼	77	66 - 117	13	30
2,4,5-Trichlorophenol	<0.39		1.58	1.38		mg/Kg	☼	87	50 - 120	8	30
2,4,6-Trichlorophenol	<0.39		1.58	1.28		mg/Kg	☼	81	57 - 120	8	30

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-225545-1 MSD
Matrix: Solid
Analysis Batch: 688077

Client Sample ID: 1401V3-26-B09 (0-5)
Prep Type: Total/NA
Prep Batch: 687172

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	70		43 - 145
2-Fluorophenol (Surr)	62		31 - 166
Nitrobenzene-d5 (Surr)	42		37 - 147
Phenol-d5 (Surr)	70		30 - 153
Terphenyl-d14 (Surr)	91		42 - 157
2,4,6-Tribromophenol (Surr)	76		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-687787/1-A
Matrix: Solid
Analysis Batch: 688504

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687787

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Arsenic	<1.0		1.0	0.34	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Barium	<1.0		1.0	0.11	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Beryllium	<0.40		0.40	0.093	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Boron	<5.0		5.0	0.47	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Cadmium	<0.20		0.20	0.036	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Calcium	13.3	J	20	3.4	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Chromium	<1.0		1.0	0.50	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Cobalt	<0.50		0.50	0.13	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Copper	<1.0		1.0	0.28	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Iron	<20		20	10	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Lead	<0.50		0.50	0.23	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Magnesium	9.58	J	10	5.0	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Manganese	<1.0		1.0	0.15	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Nickel	<1.0		1.0	0.29	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Potassium	<50		50	18	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Selenium	<1.0		1.0	0.59	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Silver	<0.50		0.50	0.13	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Sodium	<100		100	15	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Thallium	<1.0		1.0	0.50	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Vanadium	<0.50		0.50	0.12	mg/Kg		12/01/22 14:51	12/06/22 11:35	1
Zinc	<2.0		2.0	0.88	mg/Kg		12/01/22 14:51	12/06/22 11:35	1

Lab Sample ID: LCS 500-687787/2-A
Matrix: Solid
Analysis Batch: 688504

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687787

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec	Limits
		Result	Qualifier					
Antimony	50.0	46.0		mg/Kg		92		80 - 120
Arsenic	10.0	9.28		mg/Kg		93		80 - 120
Barium	200	202		mg/Kg		101		80 - 120
Beryllium	5.00	4.50		mg/Kg		90		80 - 120
Boron	100	87.0		mg/Kg		87		80 - 120
Cadmium	5.00	4.58		mg/Kg		92		80 - 120
Calcium	1000	990		mg/Kg		99		80 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-687787/2-A
Matrix: Solid
Analysis Batch: 688504

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687787

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	20.0	19.6		mg/Kg		98	80 - 120
Cobalt	50.0	50.0		mg/Kg		100	80 - 120
Copper	25.0	24.6		mg/Kg		99	80 - 120
Iron	100	105		mg/Kg		105	80 - 120
Lead	10.0	9.28		mg/Kg		93	80 - 120
Magnesium	1000	940		mg/Kg		94	80 - 120
Manganese	50.0	47.5		mg/Kg		95	80 - 120
Nickel	50.0	48.3		mg/Kg		97	80 - 120
Potassium	1000	986		mg/Kg		99	80 - 120
Selenium	10.0	8.41		mg/Kg		84	80 - 120
Silver	5.00	4.00		mg/Kg		80	80 - 120
Sodium	1000	998		mg/Kg		100	80 - 120
Thallium	10.0	9.31		mg/Kg		93	80 - 120
Vanadium	50.0	49.1		mg/Kg		98	80 - 120
Zinc	50.0	47.3		mg/Kg		95	80 - 120

Lab Sample ID: 500-225545-3 MS
Matrix: Solid
Analysis Batch: 688504

Client Sample ID: 1401V3-26-B08 (0-5)
Prep Type: Total/NA
Prep Batch: 687787

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.56	J F1	29.0	5.88	F1	mg/Kg	✱	18	75 - 125
Arsenic	9.3	F1	5.80	14.6		mg/Kg	✱	92	75 - 125
Barium	38		116	142		mg/Kg	✱	89	75 - 125
Beryllium	0.71		2.90	3.09		mg/Kg	✱	82	75 - 125
Boron	11	F1	58.0	53.6	F1	mg/Kg	✱	73	75 - 125
Cadmium	0.23		2.90	2.44		mg/Kg	✱	76	75 - 125
Chromium	14		11.6	26.2		mg/Kg	✱	102	75 - 125
Cobalt	13		29.0	42.1		mg/Kg	✱	102	75 - 125
Copper	26	F1	14.5	39.3		mg/Kg	✱	94	75 - 125
Iron	19000		58.0	20800	4	mg/Kg	✱	2578	75 - 125
Lead	16	F1	5.80	26.3	F1	mg/Kg	✱	179	75 - 125
Magnesium	29000	B F2	580	22300	4	mg/Kg	✱	-1088	75 - 125
Manganese	350	F2	29.0	321	4	mg/Kg	✱	-103	75 - 125
Nickel	30		29.0	61.3		mg/Kg	✱	109	75 - 125
Potassium	2300	F1	580	3940	F1	mg/Kg	✱	279	75 - 125
Selenium	<0.59	F1	5.80	3.97	F1	mg/Kg	✱	68	75 - 125
Silver	0.24	J F1	2.90	2.32	F1	mg/Kg	✱	72	75 - 125
Sodium	970		580	1510		mg/Kg	✱	94	75 - 125
Thallium	0.42	J	5.80	5.17		mg/Kg	✱	82	75 - 125
Vanadium	19		29.0	47.3		mg/Kg	✱	98	75 - 125
Zinc	66		29.0	97.3		mg/Kg	✱	108	75 - 125

Lab Sample ID: 500-225545-3 MS
Matrix: Solid
Analysis Batch: 688665

Client Sample ID: 1401V3-26-B08 (0-5)
Prep Type: Total/NA
Prep Batch: 687787

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	64000	B F2	580	49100	4	mg/Kg	✱	-2608	75 - 125

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-225545-3 MSD
Matrix: Solid
Analysis Batch: 688504

Client Sample ID: 1401V3-26-B08 (0-5)
Prep Type: Total/NA
Prep Batch: 687787

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Antimony	0.56	J F1	29.0	5.81	F1	mg/Kg	⊛	18	75 - 125	1	20
Arsenic	9.3	F1	5.80	13.5	F1	mg/Kg	⊛	73	75 - 125	8	20
Barium	38		116	138		mg/Kg	⊛	86	75 - 125	3	20
Beryllium	0.71		2.90	3.09		mg/Kg	⊛	82	75 - 125	0	20
Boron	11	F1	58.0	56.5		mg/Kg	⊛	78	75 - 125	5	20
Cadmium	0.23		2.90	2.49		mg/Kg	⊛	78	75 - 125	2	20
Chromium	14		11.6	25.2		mg/Kg	⊛	93	75 - 125	4	20
Cobalt	13		29.0	41.6		mg/Kg	⊛	100	75 - 125	1	20
Copper	26	F1	14.5	36.2	F1	mg/Kg	⊛	73	75 - 125	8	20
Iron	19000		58.0	19200	4	mg/Kg	⊛	-109	75 - 125	8	20
Lead	16	F1	5.80	21.7		mg/Kg	⊛	99	75 - 125	19	20
Magnesium	29000	B F2	580	28400	4 F2	mg/Kg	⊛	-44	75 - 125	24	20
Manganese	350	F2	29.0	403	4 F2	mg/Kg	⊛	179	75 - 125	23	20
Nickel	30		29.0	57.8		mg/Kg	⊛	96	75 - 125	6	20
Potassium	2300	F1	580	4010	F1	mg/Kg	⊛	291	75 - 125	2	20
Selenium	<0.59	F1	5.80	4.05	F1	mg/Kg	⊛	70	75 - 125	2	20
Silver	0.24	J F1	2.90	2.39	F1	mg/Kg	⊛	74	75 - 125	3	20
Sodium	970		580	1460		mg/Kg	⊛	85	75 - 125	3	20
Thallium	0.42	J	5.80	5.24		mg/Kg	⊛	83	75 - 125	1	20
Vanadium	19		29.0	46.2		mg/Kg	⊛	94	75 - 125	2	20
Zinc	66		29.0	93.0		mg/Kg	⊛	94	75 - 125	5	20

Lab Sample ID: 500-225545-3 MSD
Matrix: Solid
Analysis Batch: 688665

Client Sample ID: 1401V3-26-B08 (0-5)
Prep Type: Total/NA
Prep Batch: 687787

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Calcium	64000	B F2	580	64500	4 F2	mg/Kg	⊛	60	75 - 125	27	20

Lab Sample ID: 500-225545-3 DU
Matrix: Solid
Analysis Batch: 688504

Client Sample ID: 1401V3-26-B08 (0-5)
Prep Type: Total/NA
Prep Batch: 687787

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Antimony	0.56	J F1	0.494	J	mg/Kg	⊛	12	20
Arsenic	9.3	F1	8.48		mg/Kg	⊛	9	20
Barium	38		39.0		mg/Kg	⊛	2	20
Beryllium	0.71		0.699		mg/Kg	⊛	2	20
Boron	11	F1	8.71	F5	mg/Kg	⊛	23	20
Cadmium	0.23		0.213		mg/Kg	⊛	9	20
Chromium	14		13.7		mg/Kg	⊛	5	20
Cobalt	13		11.8		mg/Kg	⊛	7	20
Copper	26	F1	24.3		mg/Kg	⊛	6	20
Iron	19000		18400		mg/Kg	⊛	5	20
Lead	16	F1	18.0		mg/Kg	⊛	12	20
Magnesium	29000	B F2	27800		mg/Kg	⊛	3	20
Manganese	350	F2	367		mg/Kg	⊛	5	20
Nickel	30		29.5		mg/Kg	⊛	0.8	20
Potassium	2300	F1	2000		mg/Kg	⊛	15	20

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-225545-3 DU
Matrix: Solid
Analysis Batch: 688504

Client Sample ID: 1401V3-26-B08 (0-5)
Prep Type: Total/NA
Prep Batch: 687787

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Selenium	<0.59	F1	<0.56		mg/Kg	⊛	NC	20
Silver	0.24	J F1	0.244	J	mg/Kg	⊛	4	20
Sodium	970		959		mg/Kg	⊛	0.9	20
Thallium	0.42	J	0.314	J F5	mg/Kg	⊛	28	20
Vanadium	19		17.9		mg/Kg	⊛	5	20
Zinc	66		65.5		mg/Kg	⊛	0.6	20

Lab Sample ID: 500-225545-3 DU
Matrix: Solid
Analysis Batch: 688665

Client Sample ID: 1401V3-26-B08 (0-5)
Prep Type: Total/NA
Prep Batch: 687787

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	64000	B F2	59800		mg/Kg	⊛	7	20

Lab Sample ID: LCS 500-687802/24-A
Matrix: Solid
Analysis Batch: 688208

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687802

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.507		mg/L		101	80 - 120
Beryllium	0.0500	0.0470		mg/L		94	80 - 120
Boron	1.00	1.61	*+	mg/L		161	80 - 120
Cadmium	0.0500	0.0477		mg/L		95	80 - 120
Chromium	0.200	0.189		mg/L		95	80 - 120
Cobalt	0.500	0.478		mg/L		96	80 - 120
Iron	1.00	1.06		mg/L		106	80 - 120
Lead	0.100	0.0906		mg/L		91	80 - 120
Manganese	0.500	0.477		mg/L		95	80 - 120
Nickel	0.500	0.469		mg/L		94	80 - 120
Selenium	0.100	0.0888		mg/L		89	80 - 120
Silver	0.0500	0.0440		mg/L		88	80 - 120
Zinc	0.500	0.456	J	mg/L		91	80 - 120

Lab Sample ID: LCS 500-687802/2-A
Matrix: Solid
Analysis Batch: 688208

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687802

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.512		mg/L		102	80 - 120
Beryllium	0.0500	0.0493		mg/L		99	80 - 120
Boron	1.00	1.68	*+	mg/L		168	80 - 120
Cadmium	0.0500	0.0525		mg/L		105	80 - 120
Chromium	0.200	0.194		mg/L		97	80 - 120
Cobalt	0.500	0.514		mg/L		103	80 - 120
Iron	1.00	1.09		mg/L		109	80 - 120
Lead	0.100	0.0923		mg/L		92	80 - 120
Manganese	0.500	0.484		mg/L		97	80 - 120
Nickel	0.500	0.499		mg/L		100	80 - 120
Selenium	0.100	0.112		mg/L		112	80 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-687802/2-A
Matrix: Solid
Analysis Batch: 688208

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687802

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	0.0500	0.0525		mg/L		105	80 - 120
Zinc	0.500	0.534		mg/L		107	80 - 120

Lab Sample ID: LCS 500-687806/2-A
Matrix: Solid
Analysis Batch: 688394

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.100	0.0967		mg/L		97	80 - 120
Manganese	0.500	0.485		mg/L		97	80 - 120

Lab Sample ID: LB 500-687548/1-B
Matrix: Solid
Analysis Batch: 688208

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 687802

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		12/01/22 16:54	12/02/22 16:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/01/22 16:54	12/02/22 16:30	1
Boron	0.779	J	1.6	0.050	mg/L		12/01/22 16:54	12/02/22 16:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/01/22 16:54	12/02/22 16:30	1
Chromium	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:30	1
Cobalt	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:30	1
Iron	<0.40		0.40	0.20	mg/L		12/01/22 16:54	12/02/22 16:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/01/22 16:54	12/02/22 16:30	1
Manganese	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:30	1
Nickel	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:30	1
Selenium	<0.050		0.050	0.020	mg/L		12/01/22 16:54	12/02/22 16:30	1
Silver	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 16:30	1
Zinc	<0.50		0.50	0.020	mg/L		12/01/22 16:54	12/02/22 16:30	1

Lab Sample ID: LB2 500-687556/1-B
Matrix: Solid
Analysis Batch: 688208

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 687802

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		12/01/22 16:54	12/02/22 17:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/01/22 16:54	12/02/22 17:58	1
Boron	0.716	J	1.6	0.050	mg/L		12/01/22 16:54	12/02/22 17:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/01/22 16:54	12/02/22 17:58	1
Chromium	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:58	1
Cobalt	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:58	1
Iron	<0.40		0.40	0.20	mg/L		12/01/22 16:54	12/02/22 17:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/01/22 16:54	12/02/22 17:58	1
Manganese	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:58	1
Nickel	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:58	1
Selenium	<0.050		0.050	0.020	mg/L		12/01/22 16:54	12/02/22 17:58	1
Silver	<0.025		0.025	0.010	mg/L		12/01/22 16:54	12/02/22 17:58	1
Zinc	<0.50		0.50	0.020	mg/L		12/01/22 16:54	12/02/22 17:58	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-225545-18 MS

Matrix: Solid

Analysis Batch: 688208

Client Sample ID: 1401V3-26-B01 (5-10)

Prep Type: TCLP

Prep Batch: 687802

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Barium	0.13	J	0.500	0.633		mg/L		101		75 - 125
Beryllium	<0.0040		0.0500	0.0496		mg/L		99		75 - 125
Boron	0.84	J B **	1.00	1.77		mg/L		93		75 - 125
Cadmium	0.0028	J	0.0500	0.0558		mg/L		106		75 - 125
Chromium	<0.025		0.200	0.182		mg/L		91		75 - 125
Cobalt	0.022	J	0.500	0.535		mg/L		102		75 - 125
Iron	<0.40		1.00	1.10		mg/L		110		75 - 125
Lead	<0.0075		0.100	0.0983		mg/L		98		75 - 125
Manganese	1.2		0.500	1.68		mg/L		93		75 - 125
Nickel	0.028		0.500	0.522		mg/L		99		75 - 125
Selenium	<0.050		0.100	0.115		mg/L		115		75 - 125
Silver	<0.025		0.0500	0.0531		mg/L		106		75 - 125
Zinc	0.30	J	0.500	0.820		mg/L		103		75 - 125

Lab Sample ID: 500-225545-18 DU

Matrix: Solid

Analysis Batch: 688208

Client Sample ID: 1401V3-26-B01 (5-10)

Prep Type: TCLP

Prep Batch: 687802

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Barium	0.13	J	0.127	J	mg/L		1	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	0.84	J B **	0.850	J **	mg/L		1	20
Cadmium	0.0028	J	0.00284	J	mg/L		0	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	0.022	J	0.0228	J	mg/L		2	20
Iron	<0.40		<0.40		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	1.2		1.20		mg/L		0.8	20
Nickel	0.028		0.0270		mg/L		3	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	0.30	J	0.306	J	mg/L		0.8	20

Lab Sample ID: LB 500-687561/1-B

Matrix: Solid

Analysis Batch: 688394

Client Sample ID: Method Blank

Prep Type: SPLP East

Prep Batch: 687806

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.0075		0.0075	0.0075	mg/L		12/01/22 17:06	12/05/22 22:07	1
Manganese	<0.025		0.025	0.010	mg/L		12/01/22 17:06	12/05/22 22:07	1

Lab Sample ID: 500-225545-18 MS

Matrix: Solid

Analysis Batch: 688394

Client Sample ID: 1401V3-26-B01 (5-10)

Prep Type: SPLP East

Prep Batch: 687806

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Lead	0.071		0.100	0.171		mg/L		100		75 - 125
Manganese	0.35		0.500	0.825		mg/L		96		75 - 125

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-225545-18 DU
Matrix: Solid
Analysis Batch: 688394

Client Sample ID: 1401V3-26-B01 (5-10)
Prep Type: SPLP East
Prep Batch: 687806

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Lead	0.071		0.0733		mg/L		3	20
Manganese	0.35		0.354		mg/L		3	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-687802/24-A
Matrix: Solid
Analysis Batch: 688235

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687802

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.117		mg/L		117	80 - 120

Lab Sample ID: LCS 500-687802/2-A
Matrix: Solid
Analysis Batch: 688235

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687802

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.109		mg/L		109	80 - 120

Lab Sample ID: LB 500-687548/1-B
Matrix: Solid
Analysis Batch: 688235

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 687802

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		12/01/22 16:54	12/02/22 15:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/01/22 16:54	12/02/22 15:56	1

Lab Sample ID: LB2 500-687556/1-B
Matrix: Solid
Analysis Batch: 688235

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 687802

Analyte	LB2	LB2	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		12/01/22 16:54	12/02/22 17:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/01/22 16:54	12/02/22 17:33	1

Lab Sample ID: 500-225545-18 MS
Matrix: Solid
Analysis Batch: 688235

Client Sample ID: 1401V3-26-B01 (5-10)
Prep Type: TCLP
Prep Batch: 687802

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Antimony	<0.0060		0.500	0.457		mg/L		91	75 - 125
Thallium	<0.0020		0.100	0.108		mg/L		108	75 - 125

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-225545-18 DU
Matrix: Solid
Analysis Batch: 688235

Client Sample ID: 1401V3-26-B01 (5-10)
Prep Type: TCLP
Prep Batch: 687802

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-687929/12-A
Matrix: Solid
Analysis Batch: 688267

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687929

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 10:45	12/05/22 09:39	1

Lab Sample ID: LCS 500-687929/14-A
Matrix: Solid
Analysis Batch: 688267

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687929

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

Lab Sample ID: LCS 500-687929/36-A
Matrix: Solid
Analysis Batch: 688267

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687929

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

Lab Sample ID: LB 500-687548/1-C
Matrix: Solid
Analysis Batch: 688267

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 687929

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 10:45	12/05/22 09:41	1

Lab Sample ID: LB2 500-687556/2-B
Matrix: Solid
Analysis Batch: 688267

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 687929

Analyte	LB2	LB2	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		12/02/22 10:45	12/05/22 10:49	1

Lab Sample ID: 500-225545-18 MS
Matrix: Solid
Analysis Batch: 688267

Client Sample ID: 1401V3-26-B01 (5-10)
Prep Type: TCLP
Prep Batch: 687929

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Mercury	<0.00020		0.00100	0.000931		mg/L		93	75 - 125

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: 500-225545-18 DU
Matrix: Solid
Analysis Batch: 688267

Client Sample ID: 1401V3-26-B01 (5-10)
Prep Type: TCLP
Prep Batch: 687929

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-688232/12-A
Matrix: Solid
Analysis Batch: 688451

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 688232

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		12/05/22 15:45	12/06/22 06:33	1

Lab Sample ID: LCS 500-688232/13-A
Matrix: Solid
Analysis Batch: 688451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 688232

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.165	0.160		mg/Kg		97	80 - 120

Lab Sample ID: 500-225545-10 MS
Matrix: Solid
Analysis Batch: 688451

Client Sample ID: 1401V3-26-B05 (5-10)
Prep Type: Total/NA
Prep Batch: 688232

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.028		0.0983	0.144		mg/Kg	✱	118	75 - 125

Lab Sample ID: 500-225545-10 MSD
Matrix: Solid
Analysis Batch: 688451

Client Sample ID: 1401V3-26-B05 (5-10)
Prep Type: Total/NA
Prep Batch: 688232

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.028		0.0976	0.132		mg/Kg	✱	107	75 - 125	8	20

Lab Sample ID: 500-225545-10 DU
Matrix: Solid
Analysis Batch: 688451

Client Sample ID: 1401V3-26-B05 (5-10)
Prep Type: Total/NA
Prep Batch: 688232

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.028		0.0339		mg/Kg	✱	20	20

Method: 9045D - pH

Lab Sample ID: 500-225545-2 DU
Matrix: Solid
Analysis Batch: 686396

Client Sample ID: 1401V3-26-B09 (5-10)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	6.7		6.6		SU		0.8	

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B09 (0-5)

Lab Sample ID: 500-225545-1

Date Collected: 11/16/22 11:15

Matrix: Solid

Date Received: 11/16/22 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			687561	EA	EET CHI	11/30/22 10:07 - 12/01/22 04:07 ¹
SPLP East	Prep	3010A			687806	LMB	EET CHI	12/01/22 17:06 - 12/01/22 17:36 ¹
SPLP East	Analysis	6010B		1	688394	JJJ	EET CHI	12/05/22 22:13
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6010B		1	688208	JJJ	EET CHI	12/02/22 16:37
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6020A		1	688235	FXG	EET CHI	12/02/22 16:03
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	7470A			687929	MJG	EET CHI	12/02/22 10:45 - 12/02/22 12:45 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 09:45
Total/NA	Analysis	9045D		1	686396	LWN	EET CHI	11/21/22 17:00
Total/NA	Analysis	Moisture		1	687310	LWN	EET CHI	11/29/22 11:57

Client Sample ID: 1401V3-26-B09 (0-5)

Lab Sample ID: 500-225545-1

Date Collected: 11/16/22 11:15

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372825	MZR8	EET CF	11/17/22 10:00
Total/NA	Prep	5035			372906	MZR8	EET CF	11/23/22 08:03
Total/NA	Analysis	8260D		1	372908	MZR8	EET CF	11/24/22 01:27
Total/NA	Prep	3541			687172	KN	EET CHI	11/29/22 07:31 - 11/29/22 15:30 ¹
Total/NA	Analysis	8270D		1	688077	SS	EET CHI	12/04/22 14:36
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		1	688504	JJJ	EET CHI	12/06/22 11:41
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		5	688665	JJJ	EET CHI	12/06/22 16:45
Total/NA	Prep	7471B			688232	MJG	EET CHI	12/05/22 15:45
Total/NA	Analysis	7471B		1	688451	MJG	EET CHI	12/06/22 06:36

Client Sample ID: 1401V3-26-B09 (5-10)

Lab Sample ID: 500-225545-2

Date Collected: 11/16/22 11:20

Matrix: Solid

Date Received: 11/16/22 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			687561	EA	EET CHI	11/30/22 10:07 - 12/01/22 04:07 ¹
SPLP East	Prep	3010A			687806	LMB	EET CHI	12/01/22 17:06 - 12/01/22 17:36 ¹
SPLP East	Analysis	6010B		1	688394	JJJ	EET CHI	12/05/22 22:16
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6010B		1	688208	JJJ	EET CHI	12/02/22 16:40
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6020A		1	688235	FXG	EET CHI	12/02/22 16:07

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B09 (5-10)

Lab Sample ID: 500-225545-2

Date Collected: 11/16/22 11:20

Matrix: Solid

Date Received: 11/16/22 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	7470A			687929	MJG	EET CHI	12/02/22 10:45 - 12/02/22 12:45 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 09:47
Total/NA	Analysis	9045D		1	686396	LWN	EET CHI	11/21/22 17:04
Total/NA	Analysis	Moisture		1	687310	LWN	EET CHI	11/29/22 11:57

Client Sample ID: 1401V3-26-B09 (5-10)

Lab Sample ID: 500-225545-2

Date Collected: 11/16/22 11:20

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372825	MZR8	EET CF	11/17/22 10:00
Total/NA	Prep	5035			372906	MZR8	EET CF	11/23/22 08:03
Total/NA	Analysis	8260D		1	372908	MZR8	EET CF	11/24/22 01:52
Total/NA	Prep	3541			687172	KN	EET CHI	11/29/22 07:31 - 11/29/22 15:30 ¹
Total/NA	Analysis	8270D		1	688077	SS	EET CHI	12/04/22 15:48
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		1	688504	JJB	EET CHI	12/06/22 11:51
Total/NA	Prep	7471B			688232	MJG	EET CHI	12/05/22 15:45
Total/NA	Analysis	7471B		1	688451	MJG	EET CHI	12/06/22 06:39

Client Sample ID: 1401V3-26-B08 (0-5)

Lab Sample ID: 500-225545-3

Date Collected: 11/16/22 11:30

Matrix: Solid

Date Received: 11/16/22 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			687561	EA	EET CHI	11/30/22 10:07 - 12/01/22 04:07 ¹
SPLP East	Prep	3010A			687806	LMB	EET CHI	12/01/22 17:06 - 12/01/22 17:36 ¹
SPLP East	Analysis	6010B		1	688394	JJB	EET CHI	12/05/22 22:26
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6010B		1	688208	JJB	EET CHI	12/02/22 16:43
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6020A		1	688235	FXG	EET CHI	12/02/22 16:10
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	7470A			687929	MJG	EET CHI	12/02/22 10:45 - 12/02/22 12:45 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 09:49
Total/NA	Analysis	9045D		1	686396	LWN	EET CHI	11/21/22 17:09
Total/NA	Analysis	Moisture		1	687310	LWN	EET CHI	11/29/22 11:57

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B08 (0-5)

Lab Sample ID: 500-225545-3

Date Collected: 11/16/22 11:30

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372825	MZR8	EET CF	11/17/22 10:00
Total/NA	Prep	5035			372906	MZR8	EET CF	11/23/22 08:03
Total/NA	Analysis	8260D		1	372908	MZR8	EET CF	11/24/22 02:17
Total/NA	Prep	3541			687172	KN	EET CHI	11/29/22 07:31 - 11/29/22 15:30 ¹
Total/NA	Analysis	8270D		1	688077	SS	EET CHI	12/04/22 16:12
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		1	688504	JJB	EET CHI	12/06/22 11:54
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		5	688665	JJB	EET CHI	12/06/22 16:48
Total/NA	Prep	7471B			688232	MJG	EET CHI	12/05/22 15:45
Total/NA	Analysis	7471B		1	688451	MJG	EET CHI	12/06/22 06:41

Client Sample ID: 1401V3-26-B08 (5-10)

Lab Sample ID: 500-225545-4

Date Collected: 11/16/22 11:35

Matrix: Solid

Date Received: 11/16/22 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			687561	EA	EET CHI	11/30/22 10:07 - 12/01/22 04:07 ¹
SPLP East	Prep	3010A			687806	LMB	EET CHI	12/01/22 17:06 - 12/01/22 17:36 ¹
SPLP East	Analysis	6010B		1	688394	JJB	EET CHI	12/05/22 22:29
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6010B		1	688208	JJB	EET CHI	12/02/22 16:47
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6020A		1	688235	FXG	EET CHI	12/02/22 16:13
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	7470A			687929	MJG	EET CHI	12/02/22 10:45 - 12/02/22 12:45 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 09:52
Total/NA	Analysis	9045D		1	686396	LWN	EET CHI	11/21/22 17:11
Total/NA	Analysis	Moisture		1	687310	LWN	EET CHI	11/29/22 11:57

Client Sample ID: 1401V3-26-B08 (5-10)

Lab Sample ID: 500-225545-4

Date Collected: 11/16/22 11:35

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372825	MZR8	EET CF	11/17/22 10:00
Total/NA	Prep	5035			372906	MZR8	EET CF	11/23/22 08:03
Total/NA	Analysis	8260D		1	372908	MZR8	EET CF	11/24/22 02:42
Total/NA	Prep	3541			687172	KN	EET CHI	11/29/22 07:31 - 11/29/22 15:30 ¹
Total/NA	Analysis	8270D		1	688077	SS	EET CHI	12/04/22 16:36
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		1	688504	JJB	EET CHI	12/06/22 12:14

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B08 (5-10)

Lab Sample ID: 500-225545-4

Date Collected: 11/16/22 11:35

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			688232	MJG	EET CHI	12/05/22 15:45
Total/NA	Analysis	7471B		1	688451	MJG	EET CHI	12/06/22 06:43

Client Sample ID: 1401V3-26-B07 (0-5)

Lab Sample ID: 500-225545-5

Date Collected: 11/16/22 11:50

Matrix: Solid

Date Received: 11/16/22 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			687561	EA	EET CHI	11/30/22 10:07 - 12/01/22 04:07 ¹
SPLP East	Prep	3010A			687806	LMB	EET CHI	12/01/22 17:06 - 12/01/22 17:36 ¹
SPLP East	Analysis	6010B		1	688394	JJB	EET CHI	12/05/22 22:32
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6010B		1	688208	JJB	EET CHI	12/02/22 16:50
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6020A		1	688235	FXG	EET CHI	12/02/22 16:17
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	7470A			687929	MJG	EET CHI	12/02/22 10:45 - 12/02/22 12:45 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 09:54
Total/NA	Analysis	9045D		1	686396	LWN	EET CHI	11/21/22 17:14
Total/NA	Analysis	Moisture		1	687310	LWN	EET CHI	11/29/22 11:57

Client Sample ID: 1401V3-26-B07 (0-5)

Lab Sample ID: 500-225545-5

Date Collected: 11/16/22 11:50

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372825	MZR8	EET CF	11/17/22 10:00
Total/NA	Prep	5035			372909	MZR8	EET CF	11/23/22 08:09
Total/NA	Analysis	8260D		1	372912	MZR8	EET CF	11/24/22 06:50
Total/NA	Prep	3541			687172	KN	EET CHI	11/29/22 07:31 - 11/29/22 15:30 ¹
Total/NA	Analysis	8270D		1	688077	SS	EET CHI	12/04/22 17:00
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		1	688504	JJB	EET CHI	12/06/22 12:17
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		5	688665	JJB	EET CHI	12/06/22 17:10
Total/NA	Prep	7471B			688232	MJG	EET CHI	12/05/22 15:45
Total/NA	Analysis	7471B		1	688451	MJG	EET CHI	12/06/22 06:45

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B07 (5-10)

Lab Sample ID: 500-225545-6

Date Collected: 11/16/22 11:55

Matrix: Solid

Date Received: 11/16/22 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			687561	EA	EET CHI	11/30/22 10:07 - 12/01/22 04:07 ¹
SPLP East	Prep	3010A			687806	LMB	EET CHI	12/01/22 17:06 - 12/01/22 17:36 ¹
SPLP East	Analysis	6010B		1	688394	JJJ	EET CHI	12/05/22 22:36
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6010B		1	688208	JJJ	EET CHI	12/02/22 16:53
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6020A		1	688235	FXG	EET CHI	12/02/22 16:20
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	7470A			687929	MJG	EET CHI	12/02/22 10:45 - 12/02/22 12:45 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 09:56
Total/NA	Analysis	9045D		1	686396	LWN	EET CHI	11/21/22 17:16
Total/NA	Analysis	Moisture		1	687310	LWN	EET CHI	11/29/22 11:57

Client Sample ID: 1401V3-26-B07 (5-10)

Lab Sample ID: 500-225545-6

Date Collected: 11/16/22 11:55

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 76.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372825	MZR8	EET CF	11/17/22 10:00
Total/NA	Prep	5035			372909	MZR8	EET CF	11/23/22 08:09
Total/NA	Analysis	8260D		1	372912	MZR8	EET CF	11/24/22 07:15
Total/NA	Prep	3541			687172	KN	EET CHI	11/29/22 07:31 - 11/29/22 15:30 ¹
Total/NA	Analysis	8270D		1	688077	SS	EET CHI	12/04/22 17:24
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		1	688504	JJJ	EET CHI	12/06/22 12:20
Total/NA	Prep	7471B			688232	MJG	EET CHI	12/05/22 15:45
Total/NA	Analysis	7471B		1	688451	MJG	EET CHI	12/06/22 06:52

Client Sample ID: 1401V3-26-B06 (0-5)

Lab Sample ID: 500-225545-7

Date Collected: 11/16/22 13:45

Matrix: Solid

Date Received: 11/16/22 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			687561	EA	EET CHI	11/30/22 10:07 - 12/01/22 04:07 ¹
SPLP East	Prep	3010A			687806	LMB	EET CHI	12/01/22 17:06 - 12/01/22 17:36 ¹
SPLP East	Analysis	6010B		1	688394	JJJ	EET CHI	12/05/22 22:39
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6010B		1	688208	JJJ	EET CHI	12/02/22 16:56
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6020A		1	688235	FXG	EET CHI	12/02/22 16:24

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B06 (0-5)

Lab Sample ID: 500-225545-7

Date Collected: 11/16/22 13:45

Matrix: Solid

Date Received: 11/16/22 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	7470A			687929	MJG	EET CHI	12/02/22 10:45 - 12/02/22 12:45 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 10:02
Total/NA	Analysis	9045D		1	686396	LWN	EET CHI	11/21/22 17:18
Total/NA	Analysis	Moisture		1	687310	LWN	EET CHI	11/29/22 11:57

Client Sample ID: 1401V3-26-B06 (0-5)

Lab Sample ID: 500-225545-7

Date Collected: 11/16/22 13:45

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372825	MZR8	EET CF	11/17/22 10:00
Total/NA	Prep	5035			372909	MZR8	EET CF	11/23/22 08:09
Total/NA	Analysis	8260D		1	372912	MZR8	EET CF	11/24/22 07:40
Total/NA	Prep	3541			687172	KN	EET CHI	11/29/22 07:31 - 11/29/22 15:30 ¹
Total/NA	Analysis	8270D		1	688077	SS	EET CHI	12/04/22 17:48
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		1	688504	JJB	EET CHI	12/06/22 12:30
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		1	688665	JJB	EET CHI	12/06/22 17:13
Total/NA	Prep	7471B			688232	MJG	EET CHI	12/05/22 15:45
Total/NA	Analysis	7471B		1	688451	MJG	EET CHI	12/06/22 06:53

Client Sample ID: 1401V3-26-B06 (5-10)

Lab Sample ID: 500-225545-8

Date Collected: 11/16/22 12:20

Matrix: Solid

Date Received: 11/16/22 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			687561	EA	EET CHI	11/30/22 10:07 - 12/01/22 04:07 ¹
SPLP East	Prep	3010A			687806	LMB	EET CHI	12/01/22 17:06 - 12/01/22 17:36 ¹
SPLP East	Analysis	6010B		1	688394	JJB	EET CHI	12/05/22 22:42
TCLP	Leach	1311			687556	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6010B		1	688208	JJB	EET CHI	12/02/22 18:05
TCLP	Leach	1311			687556	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6020A		1	688235	FXG	EET CHI	12/02/22 17:39
TCLP	Leach	1311			687556	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	7470A			687929	MJG	EET CHI	12/02/22 10:45 - 12/02/22 12:45 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 10:53
Total/NA	Analysis	9045D		1	686396	LWN	EET CHI	11/21/22 17:21
Total/NA	Analysis	Moisture		1	687310	LWN	EET CHI	11/29/22 11:57

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B06 (5-10)

Lab Sample ID: 500-225545-8

Date Collected: 11/16/22 12:20

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372825	MZR8	EET CF	11/17/22 10:00
Total/NA	Prep	5035			372909	MZR8	EET CF	11/23/22 08:09
Total/NA	Analysis	8260D		1	372912	MZR8	EET CF	11/24/22 08:05
Total/NA	Prep	3541			687172	KN	EET CHI	11/29/22 07:31 - 11/29/22 15:30 ¹
Total/NA	Analysis	8270D		1	688077	SS	EET CHI	12/04/22 18:12
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		1	688504	JJB	EET CHI	12/06/22 12:33
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		5	688665	JJB	EET CHI	12/06/22 17:16
Total/NA	Prep	7471B			688232	MJG	EET CHI	12/05/22 15:45
Total/NA	Analysis	7471B		1	688451	MJG	EET CHI	12/06/22 06:55

Client Sample ID: 1401V3-26-B05 (0-5)

Lab Sample ID: 500-225545-9

Date Collected: 11/16/22 12:25

Matrix: Solid

Date Received: 11/16/22 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			687561	EA	EET CHI	11/30/22 10:07 - 12/01/22 04:07 ¹
SPLP East	Prep	3010A			687806	LMB	EET CHI	12/01/22 17:06 - 12/01/22 17:36 ¹
SPLP East	Analysis	6010B		1	688394	JJB	EET CHI	12/05/22 22:45
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6010B		1	688208	JJB	EET CHI	12/02/22 17:00
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6020A		1	688235	FXG	EET CHI	12/02/22 16:27
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	7470A			687929	MJG	EET CHI	12/02/22 10:45 - 12/02/22 12:45 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 10:04
Total/NA	Analysis	9045D		1	686396	LWN	EET CHI	11/21/22 17:23
Total/NA	Analysis	Moisture		1	687310	LWN	EET CHI	11/29/22 11:57

Client Sample ID: 1401V3-26-B05 (0-5)

Lab Sample ID: 500-225545-9

Date Collected: 11/16/22 12:25

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372825	MZR8	EET CF	11/17/22 10:00
Total/NA	Prep	5035			372909	MZR8	EET CF	11/23/22 08:09
Total/NA	Analysis	8260D		1	372912	MZR8	EET CF	11/24/22 08:30
Total/NA	Prep	3541			687172	KN	EET CHI	11/29/22 07:31 - 11/29/22 15:30 ¹
Total/NA	Analysis	8270D		1	688077	SS	EET CHI	12/04/22 18:36
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		1	688504	JJB	EET CHI	12/06/22 12:36

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B05 (0-5)

Lab Sample ID: 500-225545-9

Date Collected: 11/16/22 12:25

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		5	688665	JJJ	EET CHI	12/06/22 17:19
Total/NA	Prep	7471B			688232	MJG	EET CHI	12/05/22 15:45
Total/NA	Analysis	7471B		1	688451	MJG	EET CHI	12/06/22 06:57

Client Sample ID: 1401V3-26-B05 (5-10)

Lab Sample ID: 500-225545-10

Date Collected: 11/16/22 12:30

Matrix: Solid

Date Received: 11/16/22 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			687561	EA	EET CHI	11/30/22 10:07 - 12/01/22 04:07 ¹
SPLP East	Prep	3010A			687806	LMB	EET CHI	12/01/22 17:06 - 12/01/22 17:36 ¹
SPLP East	Analysis	6010B		1	688394	JJJ	EET CHI	12/05/22 22:48
TCLP	Leach	1311			687556	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6010B		1	688208	JJJ	EET CHI	12/02/22 18:08
TCLP	Leach	1311			687556	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6020A		1	688235	FXG	EET CHI	12/02/22 17:43
TCLP	Leach	1311			687556	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	7470A			687929	MJG	EET CHI	12/02/22 10:45 - 12/02/22 12:45 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 10:55
Total/NA	Analysis	9045D		1	686396	LWN	EET CHI	11/21/22 17:26
Total/NA	Analysis	Moisture		1	687310	LWN	EET CHI	11/29/22 11:57

Client Sample ID: 1401V3-26-B05 (5-10)

Lab Sample ID: 500-225545-10

Date Collected: 11/16/22 12:30

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372825	MZR8	EET CF	11/17/22 10:00
Total/NA	Prep	5035			372909	MZR8	EET CF	11/23/22 08:09
Total/NA	Analysis	8260D		1	372912	MZR8	EET CF	11/24/22 08:55
Total/NA	Prep	3541			687172	KN	EET CHI	11/29/22 07:31 - 11/29/22 15:30 ¹
Total/NA	Analysis	8270D		1	688077	SS	EET CHI	12/04/22 19:00
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		1	688504	JJJ	EET CHI	12/06/22 12:39
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		5	688665	JJJ	EET CHI	12/06/22 17:22
Total/NA	Prep	7471B			688232	MJG	EET CHI	12/05/22 15:45
Total/NA	Analysis	7471B		1	688451	MJG	EET CHI	12/06/22 06:59

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B04 (0-5)

Lab Sample ID: 500-225545-11

Date Collected: 11/16/22 12:45

Matrix: Solid

Date Received: 11/16/22 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			687561	EA	EET CHI	11/30/22 10:07 - 12/01/22 04:07 ¹
SPLP East	Prep	3010A			687806	LMB	EET CHI	12/01/22 17:06 - 12/01/22 17:36 ¹
SPLP East	Analysis	6010B		1	688394	JJB	EET CHI	12/05/22 22:51
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6010B		1	688208	JJB	EET CHI	12/02/22 17:09
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6020A		1	688235	FXG	EET CHI	12/02/22 16:37
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	7470A			687929	MJG	EET CHI	12/02/22 10:45 - 12/02/22 12:45 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 10:06
Total/NA	Analysis	9045D		1	686396	LWN	EET CHI	11/21/22 17:31
Total/NA	Analysis	Moisture		1	687310	LWN	EET CHI	11/29/22 11:57

Client Sample ID: 1401V3-26-B04 (0-5)

Lab Sample ID: 500-225545-11

Date Collected: 11/16/22 12:45

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372825	MZR8	EET CF	11/17/22 10:00
Total/NA	Prep	5035			372909	MZR8	EET CF	11/23/22 08:09
Total/NA	Analysis	8260D		1	372912	MZR8	EET CF	11/24/22 09:19
Total/NA	Prep	3541			687172	KN	EET CHI	11/29/22 07:31 - 11/29/22 15:30 ¹
Total/NA	Analysis	8270D		1	688077	SS	EET CHI	12/04/22 19:24
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		1	688504	JJB	EET CHI	12/06/22 12:42
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		5	688665	JJB	EET CHI	12/06/22 17:25
Total/NA	Prep	7471B			688232	MJG	EET CHI	12/05/22 15:45
Total/NA	Analysis	7471B		1	688451	MJG	EET CHI	12/06/22 07:08

Client Sample ID: 1401V3-26-B04 (5-10)

Lab Sample ID: 500-225545-12

Date Collected: 11/16/22 12:50

Matrix: Solid

Date Received: 11/16/22 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			687561	EA	EET CHI	11/30/22 10:07 - 12/01/22 04:07 ¹
SPLP East	Prep	3010A			687806	LMB	EET CHI	12/01/22 17:06 - 12/01/22 17:36 ¹
SPLP East	Analysis	6010B		1	688394	JJB	EET CHI	12/05/22 22:55
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6010B		1	688208	JJB	EET CHI	12/02/22 17:13
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6020A		1	688235	FXG	EET CHI	12/02/22 16:41

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B04 (5-10)

Lab Sample ID: 500-225545-12

Date Collected: 11/16/22 12:50

Matrix: Solid

Date Received: 11/16/22 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	7470A			687929	MJG	EET CHI	12/02/22 10:45 - 12/02/22 12:45 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 10:09
Total/NA	Analysis	9045D		1	686396	LWN	EET CHI	11/21/22 17:33
Total/NA	Analysis	Moisture		1	687310	LWN	EET CHI	11/29/22 11:57

Client Sample ID: 1401V3-26-B04 (5-10)

Lab Sample ID: 500-225545-12

Date Collected: 11/16/22 12:50

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372825	MZR8	EET CF	11/17/22 10:00
Total/NA	Prep	5035			372909	MZR8	EET CF	11/23/22 08:09
Total/NA	Analysis	8260D		1	372912	MZR8	EET CF	11/24/22 09:44
Total/NA	Prep	3541			687172	KN	EET CHI	11/29/22 07:31 - 11/29/22 15:30 ¹
Total/NA	Analysis	8270D		1	688077	SS	EET CHI	12/04/22 19:49
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		1	688504	JJB	EET CHI	12/06/22 12:46
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		5	688665	JJB	EET CHI	12/06/22 17:28
Total/NA	Prep	7471B			688232	MJG	EET CHI	12/05/22 15:45
Total/NA	Analysis	7471B		1	688451	MJG	EET CHI	12/06/22 07:10

Client Sample ID: 1401V3-26-B03 (0-5)

Lab Sample ID: 500-225545-13

Date Collected: 11/16/22 13:00

Matrix: Solid

Date Received: 11/16/22 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			687561	EA	EET CHI	11/30/22 10:07 - 12/01/22 04:07 ¹
SPLP East	Prep	3010A			687806	LMB	EET CHI	12/01/22 17:06 - 12/01/22 17:36 ¹
SPLP East	Analysis	6010B		1	688394	JJB	EET CHI	12/05/22 23:08
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6010B		1	688208	JJB	EET CHI	12/02/22 17:16
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6020A		1	688235	FXG	EET CHI	12/02/22 16:44
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	7470A			687929	MJG	EET CHI	12/02/22 10:45 - 12/02/22 12:45 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 10:11
Total/NA	Analysis	9045D		1	686396	LWN	EET CHI	11/21/22 17:36
Total/NA	Analysis	Moisture		1	687310	LWN	EET CHI	11/29/22 11:57

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B03 (0-5)

Lab Sample ID: 500-225545-13

Date Collected: 11/16/22 13:00

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372825	MZR8	EET CF	11/17/22 10:00
Total/NA	Prep	5035			372909	MZR8	EET CF	11/23/22 08:09
Total/NA	Analysis	8260D		1	372912	MZR8	EET CF	11/24/22 10:09
Total/NA	Prep	3541			687172	KN	EET CHI	11/29/22 07:31 - 11/29/22 15:30 ¹
Total/NA	Analysis	8270D		1	688077	SS	EET CHI	12/04/22 20:13
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		1	688504	JJB	EET CHI	12/06/22 12:49
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		5	688665	JJB	EET CHI	12/06/22 17:38
Total/NA	Prep	7471B			688232	MJG	EET CHI	12/05/22 15:45
Total/NA	Analysis	7471B		1	688451	MJG	EET CHI	12/06/22 07:16

Client Sample ID: 1401V3-26-B03 (5-10)

Lab Sample ID: 500-225545-14

Date Collected: 11/16/22 13:05

Matrix: Solid

Date Received: 11/16/22 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			687561	EA	EET CHI	11/30/22 10:07 - 12/01/22 04:07 ¹
SPLP East	Prep	3010A			687806	LMB	EET CHI	12/01/22 17:06 - 12/01/22 17:36 ¹
SPLP East	Analysis	6010B		1	688394	JJB	EET CHI	12/05/22 23:11
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6010B		1	688208	JJB	EET CHI	12/02/22 17:19
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6020A		1	688235	FXG	EET CHI	12/02/22 16:48
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	7470A			687929	MJG	EET CHI	12/02/22 10:45 - 12/02/22 12:45 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 10:13
Total/NA	Analysis	9045D		1	686396	LWN	EET CHI	11/21/22 17:38
Total/NA	Analysis	Moisture		1	687310	LWN	EET CHI	11/29/22 11:57

Client Sample ID: 1401V3-26-B03 (5-10)

Lab Sample ID: 500-225545-14

Date Collected: 11/16/22 13:05

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372825	MZR8	EET CF	11/17/22 10:00
Total/NA	Prep	5035			372909	MZR8	EET CF	11/23/22 08:09
Total/NA	Analysis	8260D		1	372912	MZR8	EET CF	11/24/22 10:34
Total/NA	Prep	3541			687172	KN	EET CHI	11/29/22 07:31 - 11/29/22 15:30 ¹
Total/NA	Analysis	8270D		1	688077	SS	EET CHI	12/04/22 20:37
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		1	688504	JJB	EET CHI	12/06/22 12:52

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B03 (5-10)

Lab Sample ID: 500-225545-14

Date Collected: 11/16/22 13:05

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		5	688665	JJB	EET CHI	12/06/22 17:41
Total/NA	Prep	7471B			688232	MJG	EET CHI	12/05/22 15:45
Total/NA	Analysis	7471B		1	688451	MJG	EET CHI	12/06/22 07:18

Client Sample ID: 1401V3-26-B02 (0-5)

Lab Sample ID: 500-225545-15

Date Collected: 11/16/22 13:15

Matrix: Solid

Date Received: 11/16/22 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			687561	EA	EET CHI	11/30/22 10:07 - 12/01/22 04:07 ¹
SPLP East	Prep	3010A			687806	LMB	EET CHI	12/01/22 17:06 - 12/01/22 17:36 ¹
SPLP East	Analysis	6010B		1	688394	JJB	EET CHI	12/05/22 23:14
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6010B		1	688208	JJB	EET CHI	12/02/22 17:22
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6020A		1	688235	FXG	EET CHI	12/02/22 16:51
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	7470A			687929	MJG	EET CHI	12/02/22 10:45 - 12/02/22 12:45 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 10:15
Total/NA	Analysis	9045D		1	686396	LWN	EET CHI	11/21/22 17:41
Total/NA	Analysis	Moisture		1	687310	LWN	EET CHI	11/29/22 11:57

Client Sample ID: 1401V3-26-B02 (0-5)

Lab Sample ID: 500-225545-15

Date Collected: 11/16/22 13:15

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372825	MZR8	EET CF	11/17/22 10:00
Total/NA	Prep	5035			372909	MZR8	EET CF	11/23/22 08:09
Total/NA	Analysis	8260D		1	372912	MZR8	EET CF	11/24/22 10:59
Total/NA	Prep	3541			687172	KN	EET CHI	11/29/22 07:31 - 11/29/22 15:30 ¹
Total/NA	Analysis	8270D		1	688077	SS	EET CHI	12/04/22 21:01
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		1	688504	JJB	EET CHI	12/06/22 12:55
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		5	688665	JJB	EET CHI	12/06/22 17:44
Total/NA	Prep	7471B			688232	MJG	EET CHI	12/05/22 15:45
Total/NA	Analysis	7471B		1	688451	MJG	EET CHI	12/06/22 07:20

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B02 (5-10)

Lab Sample ID: 500-225545-16

Date Collected: 11/16/22 13:25

Matrix: Solid

Date Received: 11/16/22 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6010B		1	688208	JJB	EET CHI	12/02/22 17:26
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6020A		1	688235	FXG	EET CHI	12/02/22 16:55
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	7470A			687929	MJG	EET CHI	12/02/22 10:45 - 12/02/22 12:45 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 10:17
Total/NA	Analysis	9045D		1	686396	LWN	EET CHI	11/21/22 17:43
Total/NA	Analysis	Moisture		1	687310	LWN	EET CHI	11/29/22 11:57

Client Sample ID: 1401V3-26-B02 (5-10)

Lab Sample ID: 500-225545-16

Date Collected: 11/16/22 13:25

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372825	MZR8	EET CF	11/17/22 10:00
Total/NA	Prep	5035			372909	MZR8	EET CF	11/23/22 08:09
Total/NA	Analysis	8260D		1	372912	MZR8	EET CF	11/24/22 11:24
Total/NA	Prep	3541			687172	KN	EET CHI	11/29/22 07:31 - 11/29/22 15:30 ¹
Total/NA	Analysis	8270D		1	688441	SS	EET CHI	12/06/22 14:16
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		1	688504	JJB	EET CHI	12/06/22 12:58
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		2	688665	JJB	EET CHI	12/06/22 17:47
Total/NA	Prep	7471B			688232	MJG	EET CHI	12/05/22 15:45
Total/NA	Analysis	7471B		1	688451	MJG	EET CHI	12/06/22 07:22

Client Sample ID: 1401V3-26-B01 (0-5)

Lab Sample ID: 500-225545-17

Date Collected: 11/16/22 13:40

Matrix: Solid

Date Received: 11/16/22 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			687561	EA	EET CHI	11/30/22 10:07 - 12/01/22 04:07 ¹
SPLP East	Prep	3010A			687806	LMB	EET CHI	12/01/22 17:06 - 12/01/22 17:36 ¹
SPLP East	Analysis	6010B		1	688394	JJB	EET CHI	12/05/22 23:17
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6010B		1	688208	JJB	EET CHI	12/02/22 17:29
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6020A		1	688235	FXG	EET CHI	12/02/22 16:58
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	7470A			687929	MJG	EET CHI	12/02/22 10:45 - 12/02/22 12:45 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 10:19

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B01 (0-5)

Lab Sample ID: 500-225545-17

Date Collected: 11/16/22 13:40

Matrix: Solid

Date Received: 11/16/22 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	686396	LWN	EET CHI	11/21/22 17:45
Total/NA	Analysis	Moisture		1	687310	LWN	EET CHI	11/29/22 11:57

Client Sample ID: 1401V3-26-B01 (0-5)

Lab Sample ID: 500-225545-17

Date Collected: 11/16/22 13:40

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372825	MZR8	EET CF	11/17/22 10:00
Total/NA	Prep	5035			372909	MZR8	EET CF	11/23/22 08:09
Total/NA	Analysis	8260D		1	372912	MZR8	EET CF	11/24/22 11:49
Total/NA	Prep	3541			687172	KN	EET CHI	11/29/22 07:31 - 11/29/22 15:30 ¹
Total/NA	Analysis	8270D		1	688077	SS	EET CHI	12/04/22 21:49
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		1	688504	JJB	EET CHI	12/06/22 13:08
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		5	688665	JJB	EET CHI	12/06/22 17:50
Total/NA	Prep	7471B			688232	MJG	EET CHI	12/05/22 15:45
Total/NA	Analysis	7471B		1	688451	MJG	EET CHI	12/06/22 07:24

Client Sample ID: 1401V3-26-B01 (5-10)

Lab Sample ID: 500-225545-18

Date Collected: 11/16/22 13:45

Matrix: Solid

Date Received: 11/16/22 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			687561	EA	EET CHI	11/30/22 10:07 - 12/01/22 04:07 ¹
SPLP East	Prep	3010A			687806	LMB	EET CHI	12/01/22 17:06 - 12/01/22 17:36 ¹
SPLP East	Analysis	6010B		1	688394	JJB	EET CHI	12/05/22 23:20
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6010B		1	688208	JJB	EET CHI	12/02/22 17:32
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	3010A			687802	LMB	EET CHI	12/01/22 16:54 - 12/01/22 17:24 ¹
TCLP	Analysis	6020A		1	688235	FXG	EET CHI	12/02/22 17:01
TCLP	Leach	1311			687548	EA	EET CHI	11/30/22 12:37 - 12/01/22 06:37 ¹
TCLP	Prep	7470A			687929	MJG	EET CHI	12/02/22 10:45 - 12/02/22 12:45 ¹
TCLP	Analysis	7470A		1	688267	MJG	EET CHI	12/05/22 10:21
Total/NA	Analysis	9045D		1	686396	LWN	EET CHI	11/21/22 17:48
Total/NA	Analysis	Moisture		1	687310	LWN	EET CHI	11/29/22 11:57

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Client Sample ID: 1401V3-26-B01 (5-10)

Lab Sample ID: 500-225545-18

Date Collected: 11/16/22 13:45

Matrix: Solid

Date Received: 11/16/22 19:02

Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372825	MZR8	EET CF	11/17/22 10:00
Total/NA	Prep	5035			372909	MZR8	EET CF	11/23/22 08:09
Total/NA	Analysis	8260D		1	372912	MZR8	EET CF	11/24/22 12:14
Total/NA	Prep	3541			687172	KN	EET CHI	11/29/22 07:31 - 11/29/22 15:30 ¹
Total/NA	Analysis	8270D		1	688077	SS	EET CHI	12/04/22 22:13
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		1	688504	JJB	EET CHI	12/06/22 13:11
Total/NA	Prep	3050B			687787	LMB	EET CHI	12/01/22 14:51 - 12/01/22 15:21 ¹
Total/NA	Analysis	6010B		5	688665	JJB	EET CHI	12/06/22 17:53
Total/NA	Prep	7471B			688232	MJG	EET CHI	12/05/22 15:45
Total/NA	Analysis	7471B		1	688451	MJG	EET CHI	12/06/22 07:26

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225545-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

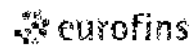
Laboratory: Eurofins Cedar Falls

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Colorado	Petroleum Storage Tank Program	IA100001 (OR)	09-29-23
Georgia	State	IA100001 (OR)	09-29-23
Illinois	NELAP	200024	11-28-22
Iowa	State	007	12-01-23
Kansas	NELAP	E-10341	01-31-23
Minnesota	NELAP	019-999-319	12-31-22
Minnesota (Petrofund)	State	3349	01-18-24
North Dakota	State	R-186	09-29-23
Oregon	NELAP	IA100001	09-29-23

Chain of Custody Record

541350




Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-3210

Client Contact		Project Manager: <i>D Tichout</i>		Site Contact: <i>A Royal</i>		Date: <i>11/16/22</i>		COC No: <i>2</i>	
Company Name: <i>WSP</i>		Tel/Email:		Lab Contact: <i>R Nigam</i>		Carrier:		2 of 5 COCs	
Address: <i>30 N Lawie</i>		Analysis Turnaround Time		Filtered Sample (Y/N) _____ Performs MS/MSD (Y/N) _____ pH _____ T. Solids _____ VOCs _____ SVOCs _____ Total Metals _____ TCLP _____		 500-225545 COC		Sampler	
City/State/Zip: <i>Chicago IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS						For Lab Use Only	
Phone:		TAT if different from Below _____						Walk-in Client	
Fax:		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Lab Sampling	
Project Name: <i>100T W013 Butterfield rd</i>								Job / SDG No	
Site: <i>31403035 013</i>								<i>500-225545</i>	
P.O.#									

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Performs MS/MSD (Y/N)	pH	T. Solids	VOCs	SVOCs	Total Metals	TCLP	Sample Specific Notes
1401V3-26-B09(0-5)	11/16/22	1115	C	S	2			X	X	X	X	X	X	
1401V3-26-B09(5-10)	11/16/22	1120	C	S	2			X	X	X	X	X	X	
1401V3-26-B08(0-5)	11/16/22	1130	C	S	2			X	X	X	X	X	X	
1401V3-26-B08(5-10)	11/16/22	1135	C	S	2			X	X	X	X	X	X	
1401V3-26-B07(0-5)	11/16/22	1150	C	S	2			X	X	X	X	X	X	
1401V3-26-B07(5-10)	11/16/22	1155	C	S	2			X	X	X	X	X	X	
1401V3-26-B06(0-5)	11/16/22	1245	C	S	2			X	X	X	X	X	X	
1401V3-26-B06(5-10)	11/16/22	1220	C	S	2			X	X	X	X	X	X	
1401V3-26-B05(0-5)	11/16/22	1225	C	S	2			X	X	X	X	X	X	
1401V3-26-B05(5-10)	11/16/22	1230	C	S	2			X	X	X	X	X	X	
1401V3-26-B04(0-5)	11/16/22	1245	C	S	2			X	X	X	X	X	X	
1401V3-26-B04(5-10)	11/16/22	1250	C	S	2			X	X	X	X	X	X	



Preservation Used: 1- Ice, 2- HCl, 3- H2SO4, 4- HNO3, 5- Nothing, 6- Other _____

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month):

Return to Client Disposal by Lab Archive for _____ Months

Special Instructions/QC Requirements & Comments: ** SFLS analysis based on TCLP results*

Custody Seals Intact Yes No

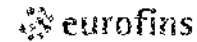
Custody Seal No _____

cooler Temp (°C) Obs'd _____ Cor'd _____ Therm ID No _____

Requisitioned by: <i>[Signature]</i>	Company: <i>WSP</i>	Date/Time: <i>11/16/22 1015</i>	Received by: <i>[Signature]</i>	Company: <i>[Signature]</i>	Date/Time: <i>11/16/22 1612</i>
Requisitioned by: <i>[Signature]</i>	Company: <i>EETA</i>	Date/Time: <i>11/16/22 1702</i>	Received by: <i>[Signature]</i>	Company: <i>EETA</i>	Date/Time: <i>11/16/22 1706</i>
Requisitioned by: <i>[Signature]</i>	Company: <i>EETA</i>	Date/Time: <i>11/16/22 1702</i>	Received by: <i>[Signature]</i>	Company: <i>EETA</i>	Date/Time: <i>11/17/22 0545</i>

Chain of Custody Record

541351



Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: OW NPDES RCRA Other

Client Contact Company Name: WSP		Project Manager: D. Tebow		Site Contact: A. Hoppel		Date: 11/16/22		COC No: 3	
Address: 30 N LaSalle		Tel/Email:		Lab Contact: R. Wright		Carrier:		3 of 5 COCs	
City/State/Zip: Chicago IL		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS/MSD (Y/N) PH V-Solids VOCs SVOCs Total Metals TCLP *				Sampler	
Phone:		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below:						For Lab Use Only	
Fax:		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Walk-in Client	
Project Name: 150T W013-Battlefield rd								Lab Sampling	
Site: 31403035.013								Job / SDG No	
P.O.#:								500-225345	

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Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PH	V-Solids	VOCs	SVOCs	Total Metals	TCLP *	Sample Specific Notes
1401V3-26-B03(0-5)	11/16/22	1300	C	S	2			X	X	X	X	X	X	
1401V3-26-B03(5-10)	11/16/22	1305	C	S	2			X	X	X	X	X	X	
1401V3-26-B02(0-5)	11/16/22	1315	C	S	2			X	X	X	X	X	X	
1401V3-26-B02(5-10)	11/16/22	1325	C	S	2			X	X	X	X	X	X	
1401V3-26-B01(0-5)	11/16/22	1340	C	S	2			X	X	X	X	X	X	
1401V3-26-B01(5-10)	11/16/22	1345	C	S	2			X	X	X	X	X	X	



Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return to Client Disposal by Lab Archive for _____ Months

Special Instructions/QC Requirements & Comments:
 * SPLP analysis based on TCLP results

Custody Seats Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd _____ Cor'd _____		Therm ID No _____	
Received by: Amey Agid	Company: WSP	Date/Time: 11/16/22 1615	Received by: [Signature]	Company: EBTA	Date/Time: 11/16/22 1615		
Received by: [Signature]	Company: EBTA	Date/Time: 11/16/22	Received by: [Signature]	Company: EBTA	Date/Time: 11/16/22 1746		
Received by: [Signature]	Company: EBTA	Date/Time: 11/16/22 1902	Received in Laboratory by: [Signature]	Company: EBTA	Date/Time: 11/17/22 0545		



Environment Testing
America



500-225545 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Chicago</u>			
City/State:	CITY <u>Univ Park</u>	STATE <u>IL</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>11-18-22</u>	TIME <u>1445</u>	Received By: <u>RL</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>1</u> of <u>2</u>	
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID:	<u>R</u>	Correction Factor (°C):	<u>0</u>
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):	<u>1.9</u>	Corrected Temp (°C):	<u>1.9</u>
• Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No			
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

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Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Chicago</u>			
City/State:	CITY <u>Unv Park</u>	STATE <u>IL</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>11-18-22</u>	TIME <u>1445</u>	Received By: <u>RL</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID:
Multiple Coolers?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>2</u> of <u>2</u>
Cooler Custody Seals Present?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓
<u>FW010, FW011, FW012</u>			
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>R</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>0.7</u>		Corrected Temp (°C): <u>0.7</u>	
Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling?		<input type="checkbox"/> Yes	<input type="checkbox"/> No
a) If yes: Is there evidence that the chilling process began?		<input type="checkbox"/> Yes	<input type="checkbox"/> No
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?)		<input type="checkbox"/> Yes	<input type="checkbox"/> No
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225545-1

Login Number: 225545

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.9,2.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225545-1

Login Number: 225545

List Number: 2

Creator: Kizer, Preston V

List Source: Eurofins Cedar Falls

List Creation: 11/18/22 06:11 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 365 & FAP 870 (Butterfield Road) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

2211 Butterfield Road (ISGS #1401V3-27)

City: Downers Grove State: IL Zip Code: 60515

County: DuPage Township: Milton

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.83162 Longitude: -88.03747

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): _____ Approximate End Date (mm/dd/yyyy): _____

Estimated Volume of debris (cu. Yd.): 1,142

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

Locations 1401V3-27-B01 through -B03 were sampled within the construction zone adjacent to ISGS #1401V3-27 (Kemper). Refer to PSI Report for ISGS #1401V3-27 (Kemper) including Table 4-3, and Figure 4-8.

b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201 (g), 1100.205(a), 1100.610]:

See attached data summary table and associated laboratory data package J225420-1.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

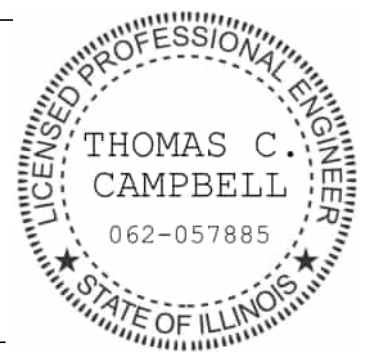
I, Tom Campbell (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: WSP USA
Street Address: 115 W Washington St., Suite 1270S
City: Indianapolis State: IN Zip Code: 46204
Phone: (317) 972-1706

Tom Campbell
Printed Name:


Licensed Professional Engineer or
Licensed Professional Geologist Signature:



02/09/2023
Date: Expires 11/30/2023



P.E or L.P.G. Seal:

Analytical Data Summary
PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

Key to Data Tables

- MAC = Maximum Allowable Concentration of Chemical Constituent in Uncontaminated Soil Used as Fill Material At Regulated Fill Operations
- mg/kg = Milligrams per kilogram.
- mg/L = Milligrams per liter.
- MSA = Metropolitan Statistical Area
- TACO = Tiered Approach to Corrective Action Objectives
- TCLP = Toxicity Characteristic Leaching Procedure.
- SCGIER = Soil Component of the Groundwater Ingestion Exposure Route
- SPLP = Synthetic Precipitation Leaching Procedure.
- ND = Not detected.
- NA = Not analyzed or not applicable.
- J = Estimated value.
- U = Analyte was analyzed for but not detected.
- PID = Photoionization detector.
- = No PID readings detected above background (within instrument margin of error).

Criteria Qualifiers and Shading

- # = pH is less than 6.25 or greater than 9.0 standard units.
- † = Concentration exceeds the most stringent MAC.
- m = Concentration exceeds the MAC for an MSA.
- * = Concentration exceeds the MAC for Chicago corporate limits.
- c = Concentration exceeds a TACO Tier 1 RO for the Construction Worker Exposure Route.
- r = Concentration exceeds a TACO Tier 1 soil RO for residential properties.
- L = The detected TCLP/SPLP concentration exceeds the TACO Tier 1 RO for the SCGIER.
-  = Concentration exceeds the most stringent MAC, but is below the MAC for an MSA.
-  = Concentration exceeds applicable comparison criteria.

**PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11
CONTAMINANTS OF CONCERN**

SITE	ISGS #1401V3-27 (Kemper)			Comparison Criteria					
	1401V3-27-B01	1401V3-27-B02	1401V3-27-B03	MACs			TACO		
SAMPLE	1401V3-27-B01 (0-6)	1401V3-27-B02 (0-6)	1401V3-27-B03 (0-2)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
MATRIX	Soil	Soil	Soil						
DEPTH (feet)	0-6	0-6	0-2						
pH	7.8	7.5	8.6						
PID (meter units)	--	--	--						
VOCs (mg/kg)									
2-Butanone (MEK)	ND U	0.0053 J	ND U	--	--	--	--	--	--
Acetone	ND U	0.019 J	ND U	25	--	--	70,000	100,000	--
SVOCs (mg/kg)									
Anthracene	0.0071 J	0.013 J	ND U	12,000	--	2.6	23,000	610,000	--
Benzo(a)anthracene	0.038 J	0.098	0.034 J	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	0.049 J	0.13 †	0.043	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	0.082 J	0.19	0.069	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	0.027 J	0.065	0.022 J	--	--	4.4	--	--	--
Benzo(k)fluoranthene	0.031 J	0.079	0.024 J	9	--	8.1	9	1,700	--
Chrysene	0.058	0.14	0.047	88	--	11	88	17,000	--
Dibenzo(a,h)anthracene	ND UJ	0.013 J	ND U	0.09	0.42	1	0.42	17	--
Fluoranthene	0.068 J	0.19	0.055	3,100	--	28	3,100	82,000	--
Fluorene	ND U	0.0062 J	ND U	560	--	1.1	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.024 J	0.070	0.029 J	0.9	1.6	5.8	1.6	170	--
Phenanthrene	0.028 J	0.076	0.015 J	--	--	15	--	--	--
Pyrene	0.096 J	0.20	0.061	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)									
Antimony	0.33 J	0.41 J	0.57 J	5	--	--	31	82	--
Arsenic	8.1 J	8.2	8.8	11.3	13	--	13	61	--
Barium	79	69	74	1,500	--	--	5,500	14,000	--
Beryllium	0.70	0.79	0.84	22	--	--	160	410	--
Boron	6.5 J	11	6.1	40	--	--	16,000	41,000	--
Cadmium	0.25	ND U	0.23	5.2	--	--	78	200	--
Calcium	34,000 J	60,000	13,000	--	--	--	--	--	--
Chromium	15	16	16	21	--	--	230	690	--
Cobalt	9.9	11	11	20	--	--	4,700	12,000	--
Copper	19 J	22	22	2,900	--	--	2,900	8,200	--
Iron	16,000 J †m	19,000 †m	19,000 †m	15,000	15,900	--	--	--	--
Lead	38	22	31	107	--	--	400	700	--
Magnesium	20,000 J	26,000	8,400	325,000	--	--	--	730,000	--
Manganese	420	540	350	630	636	--	1,600	4,100	--
Mercury	0.038	0.033	0.038	0.89	--	--	10	0.1	--
Nickel	21 J	27	25	100	--	--	1,600	4,100	--
Potassium	1,300 J	2,200	1,700	--	--	--	--	--	--
Selenium	0.55 J	0.43 J	0.46 J	1.3	--	--	390	1,000	--
Silver	0.34	0.34	0.37	4.4	--	--	390	1,000	--
Sodium	530	190	600	--	--	--	--	--	--
Thallium	ND U	0.33 J	0.50 J	2.6	--	--	6.3	160	--
Vanadium	22	21	23	550	--	--	550	1,400	--
Zinc	71 J	65	97	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)									
Barium	0.57	0.63	0.40 J	--	--	--	--	--	2
Cadmium	ND U	0.0021 J	ND U	--	--	--	--	--	0.005
Cobalt	ND U	0.064	ND U	--	--	--	--	--	1
Iron	ND U	0.40	ND U	--	--	--	--	--	5
Lead	ND U	0.015 L	ND U	--	--	--	--	--	0.0075
Manganese	0.26 L	9.0 L	0.19 L	--	--	--	--	--	0.15
Nickel	ND U	0.049	ND U	--	--	--	--	--	0.1
Zinc	ND U	0.16 J	0.022 J	--	--	--	--	--	5
SPLP Metals (mg/L)									
Lead	NA	0.14 L	NA	--	--	--	--	--	0.0075
Manganese	0.53 L	0.61 L	0.46 L	--	--	--	--	--	0.15



ANALYTICAL REPORT

PREPARED FOR

Attn: Dean Tiebot
WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602

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JOB DESCRIPTION

IDOT - 196-002-WO 13 IL 56

JOB NUMBER

500-225420-1

Eurofins Chicago

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Job ID: 500-225420-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225420-1

Receipt

The samples were received on 11/14/2022 5:56 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.5° C and 3.6° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-687247 was outside the method criteria for the following analyte(s): 4-Nitrophenol and Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-687247 was outside the method criteria for the following analyte(s): 2,4,5-Trichlorophenol and Hexachlorobutadiene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Perylene-d12 and Chrysene-d12 Internal standard (ISTD) response for the following sample and associated MS/MSD were outside of acceptance limits. No further corrective action was required as the matrix effect was confirmed on the parent sample from the subsequent MS/MSD analysis. 1401V3-27-B01 (0-6) (500-225420-1), (500-225420-E-1-D MS) and (500-225420-E-1-E MSD).

Method 8270D: The following samples contained one base surrogate outside acceptance limits: 1401V3-27-B01 (0-6) (500-225420-1), (500-225420-E-1-D MS) and (500-225420-E-1-E MSD). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-687499 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-687499 was outside the method criteria for the following analyte(s): Terphenyl-d14, Pyrene and N-Nitrosodi-n-propylamine. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with preparation batch 500-686550 and analytical batch 500-687499 had 1 analytes outside control limits: Bis(2-chloroethyl)ether. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Client Sample ID: 1401V3-27-B01 (0-6)

Lab Sample ID: 500-225420-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.028	J F1	0.037	0.0052	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.0071	J F1	0.037	0.0063	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.068	F1	0.037	0.0070	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.096	F1 F2	0.037	0.0075	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.038	F1	0.037	0.0051	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.058		0.037	0.010	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.082	*3 F1	0.037	0.0081	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.031	J *3 F1	0.037	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.049	*3	0.037	0.0073	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.024	J *3 F1	0.037	0.0097	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.027	J *3 F1	0.037	0.012	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.33	J F1	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	8.1	F1	0.58	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	79		0.58	0.066	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.70		0.23	0.054	mg/Kg	1	✳	6010B	Total/NA
Boron	6.5	B F1	2.9	0.27	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.25	B	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	34000	B F2	12	2.0	mg/Kg	1	✳	6010B	Total/NA
Chromium	15		0.58	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	9.9		0.29	0.076	mg/Kg	1	✳	6010B	Total/NA
Copper	19		0.58	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	16000		12	6.0	mg/Kg	1	✳	6010B	Total/NA
Lead	38		0.29	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	20000	F2	5.8	2.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	420		0.58	0.084	mg/Kg	1	✳	6010B	Total/NA
Nickel	21		0.58	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	1300	F1	29	10	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.55	J F1	0.58	0.34	mg/Kg	1	✳	6010B	Total/NA
Silver	0.34		0.29	0.075	mg/Kg	1	✳	6010B	Total/NA
Sodium	530		58	8.6	mg/Kg	1	✳	6010B	Total/NA
Vanadium	22		0.29	0.068	mg/Kg	1	✳	6010B	Total/NA
Zinc	71		1.2	0.51	mg/Kg	1	✳	6010B	Total/NA
Barium	0.57		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.31	J B	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.26		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.53		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.038	B	0.018	0.0060	mg/Kg	1	✳	7471B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-27-B02 (0-6)

Lab Sample ID: 500-225420-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.019	J	0.040	0.0073	mg/Kg	1	✳	8260D	Total/NA
2-Butanone (MEK)	0.0053	J	0.016	0.0012	mg/Kg	1	✳	8260D	Total/NA
Fluorene	0.0062	J	0.040	0.0056	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.076		0.040	0.0056	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.013	J	0.040	0.0067	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.19		0.040	0.0075	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.20		0.040	0.0080	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.098		0.040	0.0054	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.14		0.040	0.011	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Client Sample ID: 1401V3-27-B02 (0-6) (Continued)

Lab Sample ID: 500-225420-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.19		0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.079		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.13		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.070		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.013	J	0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.065		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.41	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.2		0.62	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	69		0.62	0.070	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.79		0.25	0.058	mg/Kg	1	☼	6010B	Total/NA
Boron	11	B	3.1	0.29	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.21	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Calcium	60000	B	62	10	mg/Kg	5	☼	6010B	Total/NA
Chromium	16		0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.31	0.081	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	6.4	mg/Kg	1	☼	6010B	Total/NA
Lead	22		0.31	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000		6.2	3.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	540		0.62	0.089	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.62	0.18	mg/Kg	1	☼	6010B	Total/NA
Potassium	2200		31	11	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.43	J	0.62	0.36	mg/Kg	1	☼	6010B	Total/NA
Silver	0.34		0.31	0.079	mg/Kg	1	☼	6010B	Total/NA
Sodium	190		62	9.1	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.33	J	0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.31	0.073	mg/Kg	1	☼	6010B	Total/NA
Zinc	65		1.2	0.54	mg/Kg	1	☼	6010B	Total/NA
Barium	0.63		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.34	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.064		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.40		0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.015		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	9.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.049		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.16	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.14		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.61		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.033	B	0.020	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	7.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-27-B03 (0-2)

Lab Sample ID: 500-225420-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.015	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.055		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.061		0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.034	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.047		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.069		0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Client Sample ID: 1401V3-27-B03 (0-2) (Continued)

Lab Sample ID: 500-225420-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[k]fluoranthene	0.024	J	0.040	0.012	mg/Kg	1	✳		8270D	Total/NA
Benzo[a]pyrene	0.043		0.040	0.0077	mg/Kg	1	✳		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.029	J	0.040	0.010	mg/Kg	1	✳		8270D	Total/NA
Benzo[g,h,i]perylene	0.022	J	0.040	0.013	mg/Kg	1	✳		8270D	Total/NA
Antimony	0.57	J	1.2	0.23	mg/Kg	1	✳		6010B	Total/NA
Arsenic	8.8		0.58	0.20	mg/Kg	1	✳		6010B	Total/NA
Barium	74		0.58	0.066	mg/Kg	1	✳		6010B	Total/NA
Beryllium	0.84		0.23	0.054	mg/Kg	1	✳		6010B	Total/NA
Boron	6.1	B	2.9	0.27	mg/Kg	1	✳		6010B	Total/NA
Cadmium	0.23	B	0.12	0.021	mg/Kg	1	✳		6010B	Total/NA
Calcium	13000	B	12	2.0	mg/Kg	1	✳		6010B	Total/NA
Chromium	16		0.58	0.29	mg/Kg	1	✳		6010B	Total/NA
Cobalt	11		0.29	0.076	mg/Kg	1	✳		6010B	Total/NA
Copper	22		0.58	0.16	mg/Kg	1	✳		6010B	Total/NA
Iron	19000		12	6.0	mg/Kg	1	✳		6010B	Total/NA
Lead	31		0.29	0.13	mg/Kg	1	✳		6010B	Total/NA
Magnesium	8400		5.8	2.9	mg/Kg	1	✳		6010B	Total/NA
Manganese	350		0.58	0.084	mg/Kg	1	✳		6010B	Total/NA
Nickel	25		0.58	0.17	mg/Kg	1	✳		6010B	Total/NA
Potassium	1700		29	10	mg/Kg	1	✳		6010B	Total/NA
Selenium	0.46	J	0.58	0.34	mg/Kg	1	✳		6010B	Total/NA
Silver	0.37		0.29	0.075	mg/Kg	1	✳		6010B	Total/NA
Sodium	600		58	8.6	mg/Kg	1	✳		6010B	Total/NA
Thallium	0.50	J	0.58	0.29	mg/Kg	1	✳		6010B	Total/NA
Vanadium	23		0.29	0.068	mg/Kg	1	✳		6010B	Total/NA
Zinc	97		1.2	0.51	mg/Kg	1	✳		6010B	Total/NA
Barium	0.40	J	0.50	0.050	mg/L	1			6010B	TCLP
Boron	0.30	J B	0.50	0.050	mg/L	1			6010B	TCLP
Manganese	0.19		0.025	0.010	mg/L	1			6010B	TCLP
Zinc	0.022	J	0.50	0.020	mg/L	1			6010B	TCLP
Manganese	0.46		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.038	B	0.019	0.0062	mg/Kg	1	✳		7471B	Total/NA
pH	8.6		0.2	0.2	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010B	Metals (ICP)	SW846	EET CHI
6010B	SPLP Metals	SW846	EET CHI
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
Frozen Preserve	Freezing Samples	None	EET CF

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225420-1	1401V3-27-B01 (0-6)	Solid	11/14/22 11:00	11/14/22 17:56
500-225420-2	1401V3-27-B02 (0-6)	Solid	11/14/22 11:10	11/14/22 17:56
500-225420-3	1401V3-27-B03 (0-2)	Solid	11/14/22 11:20	11/14/22 17:56

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Client Sample ID: 1401V3-27-B01 (0-6)

Lab Sample ID: 500-225420-1

Date Collected: 11/14/22 11:00

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 86.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.052		0.052	0.0096	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
Benzene	<0.0052		0.0052	0.00094	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
Bromodichloromethane	<0.0052		0.0052	0.00041	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
Bromoform	<0.010		0.010	0.00067	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
Bromomethane	<0.021		0.021	0.0017	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
2-Butanone (MEK)	<0.021		0.021	0.0016	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
Carbon disulfide	<0.0052		0.0052	0.0012	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
Carbon tetrachloride	<0.0052		0.0052	0.0015	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
Chlorobenzene	<0.0052		0.0052	0.00080	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
Chloroethane	<0.021		0.021	0.0037	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
Chloroform	<0.0052		0.0052	0.0018	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
Chloromethane	<0.021		0.021	0.0034	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00078	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00058	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
Dibromochloromethane	<0.0052		0.0052	0.00023	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
1,1-Dichloroethane	<0.0052		0.0052	0.00045	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
1,2-Dichloroethane	<0.0052		0.0052	0.00032	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
1,1-Dichloroethene	<0.0052		0.0052	0.00073	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
1,2-Dichloropropane	<0.0052		0.0052	0.00045	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
1,3-Dichloropropane, Total	<0.010		0.010	0.0011	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
Ethylbenzene	<0.0052		0.0052	0.0025	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
2-Hexanone	<0.021		0.021	0.0024	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
Methylene Chloride	<0.052		0.052	0.030	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
4-Methyl-2-pentanone (MIBK)	<0.021		0.021	0.0018	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00023	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
Styrene	<0.0052		0.0052	0.0036	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.00036	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
Tetrachloroethene	<0.0045		0.0045	0.00086	mg/Kg	☼	11/23/22 08:03	11/23/22 18:49	1
Toluene	<0.0052		0.0052	0.0034	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00064	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00057	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00048	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00033	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
Trichloroethene	<0.0045		0.0045	0.0013	mg/Kg	☼	11/23/22 08:03	11/23/22 18:49	1
Vinyl acetate	<0.010		0.010	0.0018	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
Vinyl chloride	<0.010		0.010	0.0036	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1
Xylenes, Total	<0.010		0.010	0.0037	mg/Kg	☼	11/21/22 08:21	11/22/22 01:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		77 - 120	11/21/22 08:21	11/22/22 01:34	1
4-Bromofluorobenzene (Surr)	95		77 - 120	11/23/22 08:03	11/23/22 18:49	1
Dibromofluoromethane (Surr)	108		80 - 123	11/21/22 08:21	11/22/22 01:34	1
Dibromofluoromethane (Surr)	104		80 - 123	11/23/22 08:03	11/23/22 18:49	1
Toluene-d8 (Surr)	93		76 - 120	11/21/22 08:21	11/22/22 01:34	1
Toluene-d8 (Surr)	96		76 - 120	11/23/22 08:03	11/23/22 18:49	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Bis(2-chloroethyl)ether	<0.19	*+	0.19	0.056	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Client Sample ID: 1401V3-27-B01 (0-6)

Lab Sample ID: 500-225420-1

Date Collected: 11/14/22 11:00

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 86.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Nitrobenzene	<0.037	F1	0.037	0.0094	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Isophorone	<0.19	F1	0.19	0.042	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
2,4-Dimethylphenol	<0.37	F1 F2	0.37	0.14	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
2,4,5-Trichlorophenol	<0.37	F2	0.37	0.086	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
2-Nitroaniline	<0.19	F1	0.19	0.051	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
2-Chloronaphthalene	<0.19	F1	0.19	0.042	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Dimethyl phthalate	<0.19	F1	0.19	0.049	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
2,4-Dinitrophenol	<0.76	F1	0.76	0.66	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Acenaphthylene	<0.037	F1	0.037	0.0050	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Acenaphthene	<0.037	F1	0.037	0.0068	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Dibenzofuran	<0.19	F1	0.19	0.044	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Fluorene	<0.037	F1	0.037	0.0053	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
4-Nitroaniline	<0.37	F2	0.37	0.16	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
4-Bromophenyl phenyl ether	<0.19	F1	0.19	0.050	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Hexachlorobenzene	<0.076	F1	0.076	0.0087	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Diethyl phthalate	<0.19	F1	0.19	0.064	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
4-Chlorophenyl phenyl ether	<0.19	F1	0.19	0.044	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Pentachlorophenol	<0.76	F2	0.76	0.60	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
N-Nitrosodiphenylamine	<0.19	F1 F2	0.19	0.044	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
4,6-Dinitro-2-methylphenol	<0.76	F1	0.76	0.30	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Phenanthrene	0.028	J F1	0.037	0.0052	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Anthracene	0.0071	J F1	0.037	0.0063	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Di-n-butyl phthalate	<0.19	F1 F2	0.19	0.057	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Fluoranthene	0.068	F1	0.037	0.0070	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Pyrene	0.096	F1 F2	0.037	0.0075	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Client Sample ID: 1401V3-27-B01 (0-6)

Lab Sample ID: 500-225420-1

Date Collected: 11/14/22 11:00

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 86.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	<0.19	F1	0.19	0.072	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Benzo[a]anthracene	0.038	F1	0.037	0.0051	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Chrysene	0.058		0.037	0.010	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Bis(2-ethylhexyl) phthalate	<0.19	F1	0.19	0.069	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Di-n-octyl phthalate	<0.19	F1 F2	0.19	0.061	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Benzo[b]fluoranthene	0.082	*3 F1	0.037	0.0081	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Benzo[k]fluoranthene	0.031	J *3 F1	0.037	0.011	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Benzo[a]pyrene	0.049	*3	0.037	0.0073	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Indeno[1,2,3-cd]pyrene	0.024	J *3 F1	0.037	0.0097	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Dibenz(a,h)anthracene	<0.037	*3 F1	0.037	0.0073	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Benzo[g,h,i]perylene	0.027	J *3 F1	0.037	0.012	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	11/22/22 13:30	11/30/22 00:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	96		31 - 166				11/22/22 13:30	11/30/22 00:31	1
Phenol-d5	73		30 - 153				11/22/22 13:30	11/30/22 00:31	1
Nitrobenzene-d5 (Surr)	99		37 - 147				11/22/22 13:30	11/30/22 00:31	1
2-Fluorobiphenyl (Surr)	123		43 - 145				11/22/22 13:30	11/30/22 00:31	1
2,4,6-Tribromophenol	93		31 - 143				11/22/22 13:30	11/30/22 00:31	1
Terphenyl-d14 (Surr)	223	S1+	42 - 157				11/22/22 13:30	11/30/22 00:31	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J F1	1.2	0.23	mg/Kg	☼	11/23/22 09:41	11/30/22 15:05	1
Arsenic	8.1	F1	0.58	0.20	mg/Kg	☼	11/23/22 09:41	11/30/22 15:05	1
Barium	79		0.58	0.066	mg/Kg	☼	11/23/22 09:41	11/30/22 15:05	1
Beryllium	0.70		0.23	0.054	mg/Kg	☼	11/23/22 09:41	11/30/22 15:05	1
Boron	6.5	B F1	2.9	0.27	mg/Kg	☼	11/23/22 09:41	11/30/22 15:05	1
Cadmium	0.25	B	0.12	0.021	mg/Kg	☼	11/23/22 09:41	11/30/22 15:05	1
Calcium	34000	B F2	12	2.0	mg/Kg	☼	11/23/22 09:41	11/30/22 15:05	1
Chromium	15		0.58	0.29	mg/Kg	☼	11/23/22 09:41	11/30/22 15:05	1
Cobalt	9.9		0.29	0.076	mg/Kg	☼	11/23/22 09:41	11/30/22 15:05	1
Copper	19		0.58	0.16	mg/Kg	☼	11/23/22 09:41	11/30/22 15:05	1
Iron	16000		12	6.0	mg/Kg	☼	11/23/22 09:41	11/30/22 15:05	1
Lead	38		0.29	0.13	mg/Kg	☼	11/23/22 09:41	11/30/22 15:05	1
Magnesium	20000	F2	5.8	2.9	mg/Kg	☼	11/23/22 09:41	11/30/22 15:05	1
Manganese	420		0.58	0.084	mg/Kg	☼	11/23/22 09:41	11/30/22 15:05	1
Nickel	21		0.58	0.17	mg/Kg	☼	11/23/22 09:41	11/30/22 15:05	1
Potassium	1300	F1	29	10	mg/Kg	☼	11/23/22 09:41	11/30/22 15:05	1
Selenium	0.55	J F1	0.58	0.34	mg/Kg	☼	11/23/22 09:41	11/30/22 15:05	1
Silver	0.34		0.29	0.075	mg/Kg	☼	11/23/22 09:41	11/30/22 15:05	1
Sodium	530		58	8.6	mg/Kg	☼	11/23/22 09:41	11/30/22 15:05	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	11/23/22 09:41	11/30/22 15:05	1
Vanadium	22		0.29	0.068	mg/Kg	☼	11/23/22 09:41	11/30/22 15:05	1
Zinc	71		1.2	0.51	mg/Kg	☼	11/23/22 09:41	11/30/22 15:05	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.57		0.50	0.050	mg/L		11/22/22 18:35	11/30/22 15:48	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Client Sample ID: 1401V3-27-B01 (0-6)

Lab Sample ID: 500-225420-1

Date Collected: 11/14/22 11:00

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 86.0

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 18:35	11/30/22 15:48	1
Boron	0.31	J B	0.50	0.050	mg/L		11/22/22 18:35	11/30/22 15:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 18:35	11/30/22 15:48	1
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:48	1
Cobalt	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:48	1
Iron	<0.40		0.40	0.20	mg/L		11/22/22 18:35	11/30/22 15:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 18:35	11/30/22 15:48	1
Manganese	0.26		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:48	1
Nickel	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:48	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 18:35	11/30/22 15:48	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:48	1
Zinc	<0.50		0.50	0.020	mg/L		11/22/22 18:35	11/30/22 15:48	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.53		0.025	0.010	mg/L		11/22/22 19:37	12/01/22 15:24	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 18:35	11/29/22 15:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 18:35	11/29/22 15:51	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 09:15	11/28/22 08:41	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038	B	0.018	0.0060	mg/Kg	☼	11/28/22 16:35	11/29/22 09:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.8		0.2	0.2	SU			11/17/22 18:23	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Client Sample ID: 1401V3-27-B02 (0-6)

Lab Sample ID: 500-225420-2

Date Collected: 11/14/22 11:10

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 80.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.019	J	0.040	0.0073	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
Benzene	<0.0040		0.0040	0.00071	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
Bromodichloromethane	<0.0040		0.0040	0.00031	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
Bromoform	<0.0079		0.0079	0.00051	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
Bromomethane	<0.016		0.016	0.0013	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
2-Butanone (MEK)	0.0053	J	0.016	0.0012	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
Carbon disulfide	<0.0040		0.0040	0.00095	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
Carbon tetrachloride	<0.0040		0.0040	0.0011	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
Chlorobenzene	<0.0040		0.0040	0.00061	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
Chloroethane	<0.016		0.016	0.0028	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
Chloroform	<0.0040		0.0040	0.0013	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
Chloromethane	<0.016		0.016	0.0026	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00059	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00044	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
Dibromochloromethane	<0.0040		0.0040	0.00017	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
1,1-Dichloroethane	<0.0040		0.0040	0.00034	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
1,2-Dichloroethane	<0.0040		0.0040	0.00025	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
1,1-Dichloroethene	<0.0040		0.0040	0.00055	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
1,2-Dichloropropane	<0.0040		0.0040	0.00034	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
1,3-Dichloropropane, Total	<0.0079		0.0079	0.00087	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
Ethylbenzene	<0.0040		0.0040	0.0019	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
2-Hexanone	<0.016		0.016	0.0018	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
Methylene Chloride	<0.040		0.040	0.023	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
4-Methyl-2-pentanone (MIBK)	<0.016		0.016	0.0013	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00017	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
Styrene	<0.0040		0.0040	0.0028	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00028	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
Tetrachloroethene	<0.0040		0.0040	0.00075	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
Toluene	<0.0040		0.0040	0.0026	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00048	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.00044	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00036	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00025	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
Vinyl acetate	<0.0079		0.0079	0.0013	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
Vinyl chloride	<0.0079		0.0079	0.0028	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1
Xylenes, Total	<0.0079		0.0079	0.0028	mg/Kg	☼	11/21/22 08:21	11/22/22 01:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		77 - 120	11/21/22 08:21	11/22/22 01:59	1
Dibromofluoromethane (Surr)	108		80 - 123	11/21/22 08:21	11/22/22 01:59	1
Toluene-d8 (Surr)	93		76 - 120	11/21/22 08:21	11/22/22 01:59	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Bis(2-chloroethyl)ether	<0.20	*+	0.20	0.060	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Client Sample ID: 1401V3-27-B02 (0-6)

Lab Sample ID: 500-225420-2

Date Collected: 11/14/22 11:10

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 80.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Fluorene	0.0062	J	0.040	0.0056	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Phenanthrene	0.076		0.040	0.0056	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Anthracene	0.013	J	0.040	0.0067	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Fluoranthene	0.19		0.040	0.0075	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Pyrene	0.20		0.040	0.0080	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Benzo[a]anthracene	0.098		0.040	0.0054	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Chrysene	0.14		0.040	0.011	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Client Sample ID: 1401V3-27-B02 (0-6)

Lab Sample ID: 500-225420-2

Date Collected: 11/14/22 11:10

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 80.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Benzo[b]fluoranthene	0.19		0.040	0.0087	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Benzo[k]fluoranthene	0.079		0.040	0.012	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Benzo[a]pyrene	0.13		0.040	0.0078	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Indeno[1,2,3-cd]pyrene	0.070		0.040	0.010	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Dibenz(a,h)anthracene	0.013 J		0.040	0.0078	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Benzo[g,h,i]perylene	0.065		0.040	0.013	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	11/22/22 13:30	11/29/22 17:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	86		31 - 166				11/22/22 13:30	11/29/22 17:47	1
Phenol-d5	79		30 - 153				11/22/22 13:30	11/29/22 17:47	1
Nitrobenzene-d5 (Surr)	93		37 - 147				11/22/22 13:30	11/29/22 17:47	1
2-Fluorobiphenyl (Surr)	107		43 - 145				11/22/22 13:30	11/29/22 17:47	1
2,4,6-Tribromophenol	101		31 - 143				11/22/22 13:30	11/29/22 17:47	1
Terphenyl-d14 (Surr)	130		42 - 157				11/22/22 13:30	11/29/22 17:47	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.41 J		1.2	0.24	mg/Kg	☼	11/23/22 09:41	11/30/22 15:20	1
Arsenic	8.2		0.62	0.21	mg/Kg	☼	11/23/22 09:41	11/30/22 15:20	1
Barium	69		0.62	0.070	mg/Kg	☼	11/23/22 09:41	11/30/22 15:20	1
Beryllium	0.79		0.25	0.058	mg/Kg	☼	11/23/22 09:41	11/30/22 15:20	1
Boron	11 B		3.1	0.29	mg/Kg	☼	11/23/22 09:41	11/30/22 15:20	1
Cadmium	0.21 B		0.12	0.022	mg/Kg	☼	11/23/22 09:41	11/30/22 15:20	1
Calcium	60000 B		62	10	mg/Kg	☼	11/23/22 09:41	12/01/22 11:05	5
Chromium	16		0.62	0.31	mg/Kg	☼	11/23/22 09:41	11/30/22 15:20	1
Cobalt	11		0.31	0.081	mg/Kg	☼	11/23/22 09:41	11/30/22 15:20	1
Copper	22		0.62	0.17	mg/Kg	☼	11/23/22 09:41	11/30/22 15:20	1
Iron	19000		12	6.4	mg/Kg	☼	11/23/22 09:41	11/30/22 15:20	1
Lead	22		0.31	0.14	mg/Kg	☼	11/23/22 09:41	11/30/22 15:20	1
Magnesium	26000		6.2	3.1	mg/Kg	☼	11/23/22 09:41	11/30/22 15:20	1
Manganese	540		0.62	0.089	mg/Kg	☼	11/23/22 09:41	11/30/22 15:20	1
Nickel	27		0.62	0.18	mg/Kg	☼	11/23/22 09:41	11/30/22 15:20	1
Potassium	2200		31	11	mg/Kg	☼	11/23/22 09:41	11/30/22 15:20	1
Selenium	0.43 J		0.62	0.36	mg/Kg	☼	11/23/22 09:41	11/30/22 15:20	1
Silver	0.34		0.31	0.079	mg/Kg	☼	11/23/22 09:41	11/30/22 15:20	1
Sodium	190		62	9.1	mg/Kg	☼	11/23/22 09:41	11/30/22 15:20	1
Thallium	0.33 J		0.62	0.31	mg/Kg	☼	11/23/22 09:41	11/30/22 15:20	1
Vanadium	21		0.31	0.073	mg/Kg	☼	11/23/22 09:41	11/30/22 15:20	1
Zinc	65		1.2	0.54	mg/Kg	☼	11/23/22 09:41	11/30/22 15:20	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.63		0.50	0.050	mg/L		11/22/22 18:35	11/30/22 15:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 18:35	11/30/22 15:51	1
Boron	0.34 J B		0.50	0.050	mg/L		11/22/22 18:35	11/30/22 15:51	1
Cadmium	0.0021 J		0.0050	0.0020	mg/L		11/22/22 18:35	11/30/22 15:51	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Client Sample ID: 1401V3-27-B02 (0-6)

Lab Sample ID: 500-225420-2

Date Collected: 11/14/22 11:10

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 80.4

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:51	1
Cobalt	0.064		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:51	1
Iron	0.40		0.40	0.20	mg/L		11/22/22 18:35	11/30/22 15:51	1
Lead	0.015		0.0075	0.0075	mg/L		11/22/22 18:35	11/30/22 15:51	1
Manganese	9.0		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:51	1
Nickel	0.049		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:51	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 18:35	11/30/22 15:51	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:51	1
Zinc	0.16	J	0.50	0.020	mg/L		11/22/22 18:35	11/30/22 15:51	1

Method: SW846 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.14		0.0075	0.0075	mg/L		11/22/22 19:37	12/01/22 15:27	1
Manganese	0.61		0.025	0.010	mg/L		11/22/22 19:37	12/01/22 15:27	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 18:35	11/29/22 15:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 18:35	11/29/22 15:53	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 09:15	11/28/22 08:48	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033	B	0.020	0.0065	mg/Kg	☼	11/28/22 16:35	11/29/22 09:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.5		0.2	0.2	SU			11/17/22 18:26	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Client Sample ID: 1401V3-27-B03 (0-2)

Lab Sample ID: 500-225420-3

Date Collected: 11/14/22 11:20

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 82.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.066		0.066	0.012	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
Benzene	<0.0066		0.0066	0.0012	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
Bromodichloromethane	<0.0066		0.0066	0.00051	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
Bromoform	<0.013		0.013	0.00084	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
Bromomethane	<0.026		0.026	0.0021	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
2-Butanone (MEK)	<0.026		0.026	0.0020	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
Carbon disulfide	<0.0066		0.0066	0.0016	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
Carbon tetrachloride	<0.0066		0.0066	0.0018	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
Chlorobenzene	<0.0066		0.0066	0.0010	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
Chloroethane	<0.026		0.026	0.0047	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
Chloroform	<0.0066		0.0066	0.0022	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
Chloromethane	<0.026		0.026	0.0043	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
cis-1,2-Dichloroethene	<0.0066		0.0066	0.00099	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
cis-1,3-Dichloropropene	<0.0066		0.0066	0.00074	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
Dibromochloromethane	<0.0066		0.0066	0.00029	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
1,1-Dichloroethane	<0.0066		0.0066	0.00057	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
1,2-Dichloroethane	<0.0066		0.0066	0.00041	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
1,1-Dichloroethene	<0.0066		0.0066	0.00092	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
1,2-Dichloropropane	<0.0066		0.0066	0.00057	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
1,3-Dichloropropene, Total	<0.013		0.013	0.0014	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
Ethylbenzene	<0.0066		0.0066	0.0032	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
2-Hexanone	<0.026		0.026	0.0030	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
Methylene Chloride	<0.066		0.066	0.038	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
4-Methyl-2-pentanone (MIBK)	<0.026		0.026	0.0022	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
Methyl tert-butyl ether	<0.0066		0.0066	0.00029	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
Styrene	<0.0066		0.0066	0.0046	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
1,1,2,2-Tetrachloroethane	<0.0066		0.0066	0.00046	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
Tetrachloroethene	<0.0066		0.0066	0.0013	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
Toluene	<0.0066		0.0066	0.0043	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
trans-1,2-Dichloroethene	<0.0066		0.0066	0.00080	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
trans-1,3-Dichloropropene	<0.0066		0.0066	0.00072	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
1,1,1-Trichloroethane	<0.0066		0.0066	0.00061	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
1,1,2-Trichloroethane	<0.0066		0.0066	0.00042	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
Trichloroethene	<0.0066		0.0066	0.0018	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
Vinyl acetate	<0.013		0.013	0.0022	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
Vinyl chloride	<0.013		0.013	0.0046	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1
Xylenes, Total	<0.013		0.013	0.0047	mg/Kg	☼	11/21/22 08:21	11/22/22 02:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		77 - 120	11/21/22 08:21	11/22/22 02:24	1
Dibromofluoromethane (Surr)	113		80 - 123	11/21/22 08:21	11/22/22 02:24	1
Toluene-d8 (Surr)	92		76 - 120	11/21/22 08:21	11/22/22 02:24	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Bis(2-chloroethyl)ether	<0.20	+	0.20	0.060	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Client Sample ID: 1401V3-27-B03 (0-2)

Lab Sample ID: 500-225420-3

Date Collected: 11/14/22 11:20

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 82.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
2-Methylnaphthalene	<0.081		0.081	0.0073	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
2,4-Dinitrophenol	<0.81		0.81	0.70	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Phenanthrene	0.015	J	0.040	0.0056	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Fluoranthene	0.055		0.040	0.0074	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Pyrene	0.061		0.040	0.0079	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Benzo[a]anthracene	0.034	J	0.040	0.0054	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Chrysene	0.047		0.040	0.011	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Client Sample ID: 1401V3-27-B03 (0-2)

Lab Sample ID: 500-225420-3

Date Collected: 11/14/22 11:20

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 82.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Benzo[b]fluoranthene	0.069		0.040	0.0086	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Benzo[k]fluoranthene	0.024	J	0.040	0.012	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Benzo[a]pyrene	0.043		0.040	0.0077	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Indeno[1,2,3-cd]pyrene	0.029	J	0.040	0.010	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Benzo[g,h,i]perylene	0.022	J	0.040	0.013	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	11/22/22 13:30	11/29/22 18:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	86		31 - 166				11/22/22 13:30	11/29/22 18:08	1
Phenol-d5	80		30 - 153				11/22/22 13:30	11/29/22 18:08	1
Nitrobenzene-d5 (Surr)	116		37 - 147				11/22/22 13:30	11/29/22 18:08	1
2-Fluorobiphenyl (Surr)	109		43 - 145				11/22/22 13:30	11/29/22 18:08	1
2,4,6-Tribromophenol	106		31 - 143				11/22/22 13:30	11/29/22 18:08	1
Terphenyl-d14 (Surr)	139		42 - 157				11/22/22 13:30	11/29/22 18:08	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.57	J	1.2	0.23	mg/Kg	☼	11/23/22 09:41	11/30/22 15:30	1
Arsenic	8.8		0.58	0.20	mg/Kg	☼	11/23/22 09:41	11/30/22 15:30	1
Barium	74		0.58	0.066	mg/Kg	☼	11/23/22 09:41	11/30/22 15:30	1
Beryllium	0.84		0.23	0.054	mg/Kg	☼	11/23/22 09:41	11/30/22 15:30	1
Boron	6.1	B	2.9	0.27	mg/Kg	☼	11/23/22 09:41	11/30/22 15:30	1
Cadmium	0.23	B	0.12	0.021	mg/Kg	☼	11/23/22 09:41	11/30/22 15:30	1
Calcium	13000	B	12	2.0	mg/Kg	☼	11/23/22 09:41	11/30/22 15:30	1
Chromium	16		0.58	0.29	mg/Kg	☼	11/23/22 09:41	11/30/22 15:30	1
Cobalt	11		0.29	0.076	mg/Kg	☼	11/23/22 09:41	11/30/22 15:30	1
Copper	22		0.58	0.16	mg/Kg	☼	11/23/22 09:41	11/30/22 15:30	1
Iron	19000		12	6.0	mg/Kg	☼	11/23/22 09:41	11/30/22 15:30	1
Lead	31		0.29	0.13	mg/Kg	☼	11/23/22 09:41	11/30/22 15:30	1
Magnesium	8400		5.8	2.9	mg/Kg	☼	11/23/22 09:41	11/30/22 15:30	1
Manganese	350		0.58	0.084	mg/Kg	☼	11/23/22 09:41	11/30/22 15:30	1
Nickel	25		0.58	0.17	mg/Kg	☼	11/23/22 09:41	11/30/22 15:30	1
Potassium	1700		29	10	mg/Kg	☼	11/23/22 09:41	11/30/22 15:30	1
Selenium	0.46	J	0.58	0.34	mg/Kg	☼	11/23/22 09:41	11/30/22 15:30	1
Silver	0.37		0.29	0.075	mg/Kg	☼	11/23/22 09:41	11/30/22 15:30	1
Sodium	600		58	8.6	mg/Kg	☼	11/23/22 09:41	11/30/22 15:30	1
Thallium	0.50	J	0.58	0.29	mg/Kg	☼	11/23/22 09:41	11/30/22 15:30	1
Vanadium	23		0.29	0.068	mg/Kg	☼	11/23/22 09:41	11/30/22 15:30	1
Zinc	97		1.2	0.51	mg/Kg	☼	11/23/22 09:41	11/30/22 15:30	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.40	J	0.50	0.050	mg/L		11/22/22 18:35	11/30/22 15:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 18:35	11/30/22 15:54	1
Boron	0.30	J B	0.50	0.050	mg/L		11/22/22 18:35	11/30/22 15:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 18:35	11/30/22 15:54	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Client Sample ID: 1401V3-27-B03 (0-2)

Lab Sample ID: 500-225420-3

Date Collected: 11/14/22 11:20

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 82.4

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:54	1
Cobalt	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:54	1
Iron	<0.40		0.40	0.20	mg/L		11/22/22 18:35	11/30/22 15:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 18:35	11/30/22 15:54	1
Manganese	0.19		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:54	1
Nickel	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:54	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 18:35	11/30/22 15:54	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:54	1
Zinc	0.022	J	0.50	0.020	mg/L		11/22/22 18:35	11/30/22 15:54	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.46		0.025	0.010	mg/L		11/22/22 19:37	12/01/22 15:30	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 18:35	11/29/22 15:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 18:35	11/29/22 15:55	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 09:15	11/28/22 08:51	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038	B	0.019	0.0062	mg/Kg	☆	11/28/22 16:35	11/29/22 09:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.6		0.2	0.2	SU			11/17/22 18:28	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*3	ISTD response or retention time outside acceptable limits.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

GC/MS VOA

Pre Prep Batch: 372631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225420-1	1401V3-27-B01 (0-6)	Total/NA	Solid	Frozen Preserve	
500-225420-1	1401V3-27-B01 (0-6)	Total/NA	Solid	Frozen Preserve	
500-225420-2	1401V3-27-B02 (0-6)	Total/NA	Solid	Frozen Preserve	
500-225420-3	1401V3-27-B03 (0-2)	Total/NA	Solid	Frozen Preserve	

Prep Batch: 372633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225420-1	1401V3-27-B01 (0-6)	Total/NA	Solid	5035	372631
500-225420-2	1401V3-27-B02 (0-6)	Total/NA	Solid	5035	372631
500-225420-3	1401V3-27-B03 (0-2)	Total/NA	Solid	5035	372631
MB 310-372633/1-A	Method Blank	Total/NA	Solid	5035	
LCS 310-372633/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 310-372633/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 372636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225420-1	1401V3-27-B01 (0-6)	Total/NA	Solid	8260D	372633
500-225420-2	1401V3-27-B02 (0-6)	Total/NA	Solid	8260D	372633
500-225420-3	1401V3-27-B03 (0-2)	Total/NA	Solid	8260D	372633
MB 310-372633/1-A	Method Blank	Total/NA	Solid	8260D	372633
LCS 310-372633/2-A	Lab Control Sample	Total/NA	Solid	8260D	372633
LCSD 310-372633/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	372633

Prep Batch: 372906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225420-1	1401V3-27-B01 (0-6)	Total/NA	Solid	5035	372631
MB 310-372906/1-A	Method Blank	Total/NA	Solid	5035	
LCS 310-372906/2-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 372908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225420-1	1401V3-27-B01 (0-6)	Total/NA	Solid	8260D	372906
MB 310-372906/1-A	Method Blank	Total/NA	Solid	8260D	372906
LCS 310-372906/2-A	Lab Control Sample	Total/NA	Solid	8260D	372906

GC/MS Semi VOA

Prep Batch: 686550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225420-1	1401V3-27-B01 (0-6)	Total/NA	Solid	3541	
500-225420-2	1401V3-27-B02 (0-6)	Total/NA	Solid	3541	
500-225420-3	1401V3-27-B03 (0-2)	Total/NA	Solid	3541	
MB 500-686550/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-686550/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-225420-1 MS	1401V3-27-B01 (0-6)	Total/NA	Solid	3541	
500-225420-1 MSD	1401V3-27-B01 (0-6)	Total/NA	Solid	3541	

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

GC/MS Semi VOA

Analysis Batch: 687247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225420-1	1401V3-27-B01 (0-6)	Total/NA	Solid	8270D	686550
500-225420-2	1401V3-27-B02 (0-6)	Total/NA	Solid	8270D	686550
500-225420-3	1401V3-27-B03 (0-2)	Total/NA	Solid	8270D	686550
500-225420-1 MS	1401V3-27-B01 (0-6)	Total/NA	Solid	8270D	686550
500-225420-1 MSD	1401V3-27-B01 (0-6)	Total/NA	Solid	8270D	686550

Analysis Batch: 687499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-686550/1-A	Method Blank	Total/NA	Solid	8270D	686550
LCS 500-686550/2-A	Lab Control Sample	Total/NA	Solid	8270D	686550

Metals

Leach Batch: 686377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225420-1	1401V3-27-B01 (0-6)	TCLP	Solid	1311	
500-225420-2	1401V3-27-B02 (0-6)	TCLP	Solid	1311	
500-225420-3	1401V3-27-B03 (0-2)	TCLP	Solid	1311	
LB 500-686377/1-B	Method Blank	TCLP	Solid	1311	
LB 500-686377/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 686388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225420-1	1401V3-27-B01 (0-6)	SPLP East	Solid	1312	
500-225420-2	1401V3-27-B02 (0-6)	SPLP East	Solid	1312	
500-225420-3	1401V3-27-B03 (0-2)	SPLP East	Solid	1312	
LB 500-686388/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 686617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225420-1	1401V3-27-B01 (0-6)	TCLP	Solid	3010A	686377
500-225420-2	1401V3-27-B02 (0-6)	TCLP	Solid	3010A	686377
500-225420-3	1401V3-27-B03 (0-2)	TCLP	Solid	3010A	686377
LB 500-686377/1-B	Method Blank	TCLP	Solid	3010A	686377
LCS 500-686617/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 686620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225420-1	1401V3-27-B01 (0-6)	SPLP East	Solid	3010A	686388
500-225420-2	1401V3-27-B02 (0-6)	SPLP East	Solid	3010A	686388
500-225420-3	1401V3-27-B03 (0-2)	SPLP East	Solid	3010A	686388
LB 500-686388/1-B	Method Blank	SPLP East	Solid	3010A	686388
LCS 500-686620/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 686720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225420-1	1401V3-27-B01 (0-6)	Total/NA	Solid	3050B	
500-225420-2	1401V3-27-B02 (0-6)	Total/NA	Solid	3050B	
500-225420-3	1401V3-27-B03 (0-2)	Total/NA	Solid	3050B	
MB 500-686720/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-686720/2-A	Lab Control Sample	Total/NA	Solid	3050B	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Metals (Continued)

Prep Batch: 686720 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225420-1 MS	1401V3-27-B01 (0-6)	Total/NA	Solid	3050B	
500-225420-1 MSD	1401V3-27-B01 (0-6)	Total/NA	Solid	3050B	
500-225420-1 DU	1401V3-27-B01 (0-6)	Total/NA	Solid	3050B	

Prep Batch: 686728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225420-1	1401V3-27-B01 (0-6)	TCLP	Solid	7470A	686377
500-225420-2	1401V3-27-B02 (0-6)	TCLP	Solid	7470A	686377
500-225420-3	1401V3-27-B03 (0-2)	TCLP	Solid	7470A	686377
LB 500-686377/1-C	Method Blank	TCLP	Solid	7470A	686377
MB 500-686728/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-686728/14-A	Lab Control Sample	Total/NA	Solid	7470A	
LCS 500-686728/32-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 687107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225420-1	1401V3-27-B01 (0-6)	Total/NA	Solid	7471B	
500-225420-2	1401V3-27-B02 (0-6)	Total/NA	Solid	7471B	
500-225420-3	1401V3-27-B03 (0-2)	Total/NA	Solid	7471B	
MB 500-687107/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-687107/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 687111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225420-1	1401V3-27-B01 (0-6)	TCLP	Solid	7470A	686728
500-225420-2	1401V3-27-B02 (0-6)	TCLP	Solid	7470A	686728
500-225420-3	1401V3-27-B03 (0-2)	TCLP	Solid	7470A	686728
LB 500-686377/1-C	Method Blank	TCLP	Solid	7470A	686728
MB 500-686728/12-A	Method Blank	Total/NA	Solid	7470A	686728
LCS 500-686728/14-A	Lab Control Sample	Total/NA	Solid	7470A	686728
LCS 500-686728/32-A	Lab Control Sample	Total/NA	Solid	7470A	686728

Analysis Batch: 687292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225420-1	1401V3-27-B01 (0-6)	Total/NA	Solid	7471B	687107
500-225420-2	1401V3-27-B02 (0-6)	Total/NA	Solid	7471B	687107
500-225420-3	1401V3-27-B03 (0-2)	Total/NA	Solid	7471B	687107
MB 500-687107/12-A	Method Blank	Total/NA	Solid	7471B	687107
LCS 500-687107/13-A	Lab Control Sample	Total/NA	Solid	7471B	687107

Analysis Batch: 687529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225420-1	1401V3-27-B01 (0-6)	TCLP	Solid	6020A	686617
500-225420-2	1401V3-27-B02 (0-6)	TCLP	Solid	6020A	686617
500-225420-3	1401V3-27-B03 (0-2)	TCLP	Solid	6020A	686617
LB 500-686377/1-B	Method Blank	TCLP	Solid	6020A	686617
LCS 500-686617/2-A	Lab Control Sample	Total/NA	Solid	6020A	686617

Analysis Batch: 687677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225420-1	1401V3-27-B01 (0-6)	Total/NA	Solid	6010B	686720

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Metals (Continued)

Analysis Batch: 687677 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225420-2	1401V3-27-B02 (0-6)	Total/NA	Solid	6010B	686720
500-225420-3	1401V3-27-B03 (0-2)	Total/NA	Solid	6010B	686720
MB 500-686720/1-A	Method Blank	Total/NA	Solid	6010B	686720
LCS 500-686720/2-A	Lab Control Sample	Total/NA	Solid	6010B	686720
500-225420-1 MS	1401V3-27-B01 (0-6)	Total/NA	Solid	6010B	686720
500-225420-1 MSD	1401V3-27-B01 (0-6)	Total/NA	Solid	6010B	686720
500-225420-1 DU	1401V3-27-B01 (0-6)	Total/NA	Solid	6010B	686720

Analysis Batch: 687706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225420-1	1401V3-27-B01 (0-6)	TCLP	Solid	6010B	686617
500-225420-2	1401V3-27-B02 (0-6)	TCLP	Solid	6010B	686617
500-225420-3	1401V3-27-B03 (0-2)	TCLP	Solid	6010B	686617
LB 500-686377/1-B	Method Blank	TCLP	Solid	6010B	686617
LCS 500-686617/2-A	Lab Control Sample	Total/NA	Solid	6010B	686617

Analysis Batch: 687779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225420-2	1401V3-27-B02 (0-6)	Total/NA	Solid	6010B	686720

Analysis Batch: 687846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225420-1	1401V3-27-B01 (0-6)	SPLP East	Solid	6010B	686620
500-225420-2	1401V3-27-B02 (0-6)	SPLP East	Solid	6010B	686620
500-225420-3	1401V3-27-B03 (0-2)	SPLP East	Solid	6010B	686620
LB 500-686388/1-B	Method Blank	SPLP East	Solid	6010B	686620
LCS 500-686620/2-A	Lab Control Sample	Total/NA	Solid	6010B	686620

General Chemistry

Analysis Batch: 685686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225420-1	1401V3-27-B01 (0-6)	Total/NA	Solid	Moisture	
500-225420-2	1401V3-27-B02 (0-6)	Total/NA	Solid	Moisture	
500-225420-3	1401V3-27-B03 (0-2)	Total/NA	Solid	Moisture	

Analysis Batch: 685788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225420-1	1401V3-27-B01 (0-6)	Total/NA	Solid	9045D	
500-225420-2	1401V3-27-B02 (0-6)	Total/NA	Solid	9045D	
500-225420-3	1401V3-27-B03 (0-2)	Total/NA	Solid	9045D	
LCS 500-685788/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-685788/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Surrogate Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (77-120)	DBFM (80-123)	TOL (76-120)
500-225420-1	1401V3-27-B01 (0-6)	94	108	93
500-225420-1	1401V3-27-B01 (0-6)	95	104	96
500-225420-2	1401V3-27-B02 (0-6)	93	108	93
500-225420-3	1401V3-27-B03 (0-2)	92	113	92
LCS 310-372633/2-A	Lab Control Sample	104	103	100
LCS 310-372906/2-A	Lab Control Sample	102	96	99
LCSD 310-372633/3-A	Lab Control Sample Dup	102	103	99
MB 310-372633/1-A	Method Blank	95	105	94
MB 310-372906/1-A	Method Blank	94	108	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (31-166)	PHL (30-153)	NBZ (37-147)	FBP (43-145)	TBP (31-143)	TPHL (42-157)
500-225420-1	1401V3-27-B01 (0-6)	96	73	99	123	93	223 S1+
500-225420-1 MS	1401V3-27-B01 (0-6)	80	77	95	118	74	201 *3 S1+
500-225420-1 MSD	1401V3-27-B01 (0-6)	89	83	114	136	67	166 S1+
500-225420-2	1401V3-27-B02 (0-6)	86	79	93	107	101	130
500-225420-3	1401V3-27-B03 (0-2)	86	80	116	109	106	139
LCS 500-686550/2-A	Lab Control Sample	115	105	105	98	101	132
MB 500-686550/1-A	Method Blank	127	112	95	96	93	153

Surrogate Legend

2FP = 2-Fluorophenol

PHL = Phenol-d5

NBZ = Nitrobenzene-d5 (Surr)

FBP = 2-Fluorobiphenyl (Surr)

TBP = 2,4,6-Tribromophenol

TPHL = Terphenyl-d14 (Surr)

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-372633/1-A
Matrix: Solid
Analysis Batch: 372636

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372633

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.097		0.097	0.018	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Benzene	<0.0097		0.0097	0.0018	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Bromodichloromethane	<0.0097		0.0097	0.00076	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Bromoform	<0.019		0.019	0.0012	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Bromomethane	<0.039		0.039	0.0031	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
2-Butanone (MEK)	<0.039		0.039	0.0029	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Carbon disulfide	<0.0097		0.0097	0.0023	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Carbon tetrachloride	<0.0097		0.0097	0.0027	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Chlorobenzene	<0.0097		0.0097	0.0015	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Chloroethane	<0.039		0.039	0.0070	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Chloroform	<0.0097		0.0097	0.0033	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Chloromethane	<0.039		0.039	0.0064	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
cis-1,2-Dichloroethene	<0.0097		0.0097	0.0015	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
cis-1,3-Dichloropropene	<0.0097		0.0097	0.0011	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Dibromochloromethane	<0.0097		0.0097	0.00043	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,1-Dichloroethane	<0.0097		0.0097	0.00084	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,2-Dichloroethane	<0.0097		0.0097	0.00060	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,1-Dichloroethene	<0.0097		0.0097	0.0014	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,2-Dichloropropane	<0.0097		0.0097	0.00084	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,3-Dichloropropane, Total	<0.019		0.019	0.0021	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Ethylbenzene	<0.0097		0.0097	0.0047	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
2-Hexanone	<0.039		0.039	0.0045	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Methylene Chloride	<0.097		0.097	0.056	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
4-Methyl-2-pentanone (MIBK)	<0.039		0.039	0.0033	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Methyl tert-butyl ether	<0.0097		0.0097	0.00043	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Styrene	<0.0097		0.0097	0.0068	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,1,2,2-Tetrachloroethane	<0.0097		0.0097	0.00068	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Tetrachloroethene	<0.0097		0.0097	0.0018	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Toluene	<0.0097		0.0097	0.0064	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
trans-1,2-Dichloroethene	<0.0097		0.0097	0.0012	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
trans-1,3-Dichloropropene	<0.0097		0.0097	0.0011	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,1,1-Trichloroethane	<0.0097		0.0097	0.00089	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,1,2-Trichloroethane	<0.0097		0.0097	0.00062	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Trichloroethene	<0.0097		0.0097	0.0027	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Vinyl acetate	<0.019		0.019	0.0033	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Vinyl chloride	<0.019		0.019	0.0068	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Xylenes, Total	<0.019		0.019	0.0070	mg/Kg		11/21/22 08:21	11/21/22 20:37	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	95		77 - 120	11/21/22 08:21	11/21/22 20:37	1
Dibromofluoromethane (Surr)	105		80 - 123	11/21/22 08:21	11/21/22 20:37	1
Toluene-d8 (Surr)	94		76 - 120	11/21/22 08:21	11/21/22 20:37	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-372633/2-A
Matrix: Solid
Analysis Batch: 372636

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372633

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Acetone	0.181	0.163		mg/Kg		90	52 - 150	
Benzene	0.0906	0.0956		mg/Kg		105	77 - 134	
Bromodichloromethane	0.0906	0.0922		mg/Kg		102	78 - 122	
Bromoform	0.0906	0.0965		mg/Kg		107	72 - 122	
2-Butanone (MEK)	0.181	0.193		mg/Kg		107	60 - 150	
Carbon disulfide	0.0906	0.0853		mg/Kg		94	61 - 142	
Carbon tetrachloride	0.0906	0.0894		mg/Kg		99	77 - 127	
Chlorobenzene	0.0906	0.0862		mg/Kg		95	76 - 120	
Chloroform	0.0906	0.0876		mg/Kg		97	78 - 127	
cis-1,2-Dichloroethene	0.0906	0.0965		mg/Kg		106	74 - 136	
cis-1,3-Dichloropropene	0.0906	0.0970		mg/Kg		107	79 - 126	
Dibromochloromethane	0.0906	0.0973		mg/Kg		107	78 - 122	
1,1-Dichloroethane	0.0906	0.0981		mg/Kg		108	74 - 137	
1,2-Dichloroethane	0.0906	0.0910		mg/Kg		100	79 - 132	
1,1-Dichloroethene	0.0906	0.0850		mg/Kg		94	62 - 130	
1,2-Dichloropropane	0.0906	0.0993		mg/Kg		110	78 - 135	
Ethylbenzene	0.0906	0.0902		mg/Kg		99	78 - 122	
2-Hexanone	0.181	0.188		mg/Kg		104	73 - 134	
Methylene Chloride	0.0906	0.0974	J	mg/Kg		108	55 - 150	
4-Methyl-2-pentanone (MIBK)	0.181	0.194		mg/Kg		107	75 - 135	
Methyl tert-butyl ether	0.0906	0.0963		mg/Kg		106	73 - 135	
Styrene	0.0906	0.0914		mg/Kg		101	75 - 120	
1,1,2,2-Tetrachloroethane	0.0906	0.0938		mg/Kg		104	80 - 127	
Tetrachloroethene	0.0906	0.0804		mg/Kg		89	72 - 121	
Toluene	0.0906	0.0880		mg/Kg		97	77 - 121	
trans-1,2-Dichloroethene	0.0906	0.0950		mg/Kg		105	71 - 134	
trans-1,3-Dichloropropene	0.0906	0.0872		mg/Kg		96	77 - 122	
1,1,1-Trichloroethane	0.0906	0.0909		mg/Kg		100	79 - 132	
1,1,2-Trichloroethane	0.0906	0.0988		mg/Kg		109	80 - 124	
Trichloroethene	0.0906	0.0914		mg/Kg		101	76 - 132	
Vinyl acetate	0.181	0.132		mg/Kg		73	37 - 150	
Xylenes, Total	0.181	0.179		mg/Kg		98	76 - 124	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	104		77 - 120
Dibromofluoromethane (Surr)	103		80 - 123
Toluene-d8 (Surr)	100		76 - 120

Lab Sample ID: LCSD 310-372633/3-A
Matrix: Solid
Analysis Batch: 372636

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 372633

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD	Limit
Acetone	0.163	0.157		mg/Kg		96	52 - 150	4	40	
Benzene	0.0816	0.0867		mg/Kg		106	77 - 134	10	40	
Bromodichloromethane	0.0816	0.0803		mg/Kg		98	78 - 122	14	35	
Bromoform	0.0816	0.0872		mg/Kg		107	72 - 122	10	40	
2-Butanone (MEK)	0.163	0.182		mg/Kg		111	60 - 150	6	39	

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 310-372633/3-A
Matrix: Solid
Analysis Batch: 372636

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 372633

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide	0.0816	0.0779		mg/Kg		96	61 - 142	9	40
Carbon tetrachloride	0.0816	0.0798		mg/Kg		98	77 - 127	11	40
Chlorobenzene	0.0816	0.0784		mg/Kg		96	76 - 120	10	40
Chloroform	0.0816	0.0766		mg/Kg		94	78 - 127	13	34
cis-1,2-Dichloroethene	0.0816	0.0862		mg/Kg		106	74 - 136	11	36
cis-1,3-Dichloropropene	0.0816	0.0852		mg/Kg		104	79 - 126	13	39
Dibromochloromethane	0.0816	0.0855		mg/Kg		105	78 - 122	13	37
1,1-Dichloroethane	0.0816	0.0879		mg/Kg		108	74 - 137	11	33
1,2-Dichloroethane	0.0816	0.0815		mg/Kg		100	79 - 132	11	34
1,1-Dichloroethene	0.0816	0.0761		mg/Kg		93	62 - 130	11	37
1,2-Dichloropropane	0.0816	0.0901		mg/Kg		110	78 - 135	10	34
Ethylbenzene	0.0816	0.0811		mg/Kg		99	78 - 122	11	40
2-Hexanone	0.163	0.176		mg/Kg		108	73 - 134	7	40
Methylene Chloride	0.0816	0.0899	J	mg/Kg		110	55 - 150	8	35
4-Methyl-2-pentanone (MIBK)	0.163	0.180		mg/Kg		111	75 - 135	7	40
Methyl tert-butyl ether	0.0816	0.0874		mg/Kg		107	73 - 135	10	33
Styrene	0.0816	0.0826		mg/Kg		101	75 - 120	10	40
1,1,2,2-Tetrachloroethane	0.0816	0.0869		mg/Kg		106	80 - 127	8	38
Tetrachloroethene	0.0816	0.0736		mg/Kg		90	72 - 121	9	40
Toluene	0.0816	0.0799		mg/Kg		98	77 - 121	10	40
trans-1,2-Dichloroethene	0.0816	0.0835		mg/Kg		102	71 - 134	13	36
trans-1,3-Dichloropropene	0.0816	0.0775		mg/Kg		95	77 - 122	12	40
1,1,1-Trichloroethane	0.0816	0.0826		mg/Kg		101	79 - 132	10	39
1,1,2-Trichloroethane	0.0816	0.0883		mg/Kg		108	80 - 124	11	35
Trichloroethene	0.0816	0.0825		mg/Kg		101	76 - 132	10	40
Vinyl acetate	0.163	0.105		mg/Kg		64	37 - 150	23	40
Xylenes, Total	0.163	0.162		mg/Kg		99	76 - 124	10	40

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		77 - 120
Dibromofluoromethane (Surr)	103		80 - 123
Toluene-d8 (Surr)	99		76 - 120

Lab Sample ID: MB 310-372906/1-A
Matrix: Solid
Analysis Batch: 372908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372906

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.089		0.089	0.016	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Benzene	<0.0089		0.0089	0.0016	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Bromodichloromethane	<0.0089		0.0089	0.00070	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Bromoform	<0.018		0.018	0.0011	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Bromomethane	<0.036		0.036	0.0029	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
2-Butanone (MEK)	<0.036		0.036	0.0027	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Carbon disulfide	<0.0089		0.0089	0.0021	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Carbon tetrachloride	<0.0089		0.0089	0.0025	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Chlorobenzene	<0.0089		0.0089	0.0014	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Chloroethane	<0.036		0.036	0.0064	mg/Kg		11/23/22 08:03	11/23/22 17:59	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-372906/1-A
Matrix: Solid
Analysis Batch: 372908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372906

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.0089		0.0089	0.0030	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Chloromethane	<0.036		0.036	0.0059	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
cis-1,2-Dichloroethene	<0.0089		0.0089	0.0013	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
cis-1,3-Dichloropropene	<0.0089		0.0089	0.0010	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Dibromochloromethane	<0.0089		0.0089	0.00039	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
1,1-Dichloroethane	<0.0089		0.0089	0.00077	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
1,2-Dichloroethane	<0.0089		0.0089	0.00055	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
1,1-Dichloroethene	<0.0089		0.0089	0.0013	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
1,2-Dichloropropane	<0.0089		0.0089	0.00077	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
1,3-Dichloropropane, Total	<0.018		0.018	0.0020	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Ethylbenzene	<0.0089		0.0089	0.0043	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
2-Hexanone	<0.036		0.036	0.0041	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Methylene Chloride	<0.089		0.089	0.052	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
4-Methyl-2-pentanone (MIBK)	<0.036		0.036	0.0030	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Methyl tert-butyl ether	<0.0089		0.0089	0.00039	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Styrene	<0.0089		0.0089	0.0063	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
1,1,2,2-Tetrachloroethane	<0.0089		0.0089	0.00063	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Tetrachloroethene	<0.0089		0.0089	0.0017	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Toluene	<0.0089		0.0089	0.0059	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
trans-1,2-Dichloroethene	<0.0089		0.0089	0.0011	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
trans-1,3-Dichloropropene	<0.0089		0.0089	0.00098	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
1,1,1-Trichloroethane	<0.0089		0.0089	0.00082	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
1,1,2-Trichloroethane	<0.0089		0.0089	0.00057	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Trichloroethene	<0.0089		0.0089	0.0025	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Vinyl acetate	<0.018		0.018	0.0030	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Vinyl chloride	<0.018		0.018	0.0063	mg/Kg		11/23/22 08:03	11/23/22 17:59	1
Xylenes, Total	<0.018		0.018	0.0064	mg/Kg		11/23/22 08:03	11/23/22 17:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		77 - 120	11/23/22 08:03	11/23/22 17:59	1
Dibromofluoromethane (Surr)	108		80 - 123	11/23/22 08:03	11/23/22 17:59	1
Toluene-d8 (Surr)	94		76 - 120	11/23/22 08:03	11/23/22 17:59	1

Lab Sample ID: LCS 310-372906/2-A
Matrix: Solid
Analysis Batch: 372908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372906

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acetone	0.142	0.113		mg/Kg		80	52 - 150
Benzene	0.0708	0.0610		mg/Kg		86	77 - 134
Bromodichloromethane	0.0708	0.0588		mg/Kg		83	78 - 122
Bromoform	0.0708	0.0626		mg/Kg		88	72 - 122
2-Butanone (MEK)	0.142	0.140		mg/Kg		99	60 - 150
Carbon disulfide	0.0708	0.0576		mg/Kg		81	61 - 142
Carbon tetrachloride	0.0708	0.0552		mg/Kg		78	77 - 127
Chlorobenzene	0.0708	0.0565		mg/Kg		80	76 - 120
cis-1,2-Dichloroethene	0.0708	0.0608		mg/Kg		86	74 - 136
cis-1,3-Dichloropropene	0.0708	0.0613		mg/Kg		87	79 - 126

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-372906/2-A
Matrix: Solid
Analysis Batch: 372908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372906

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dibromochloromethane	0.0708	0.0617		mg/Kg		87	78 - 122
1,1-Dichloroethane	0.0708	0.0612		mg/Kg		87	74 - 137
1,2-Dichloroethane	0.0708	0.0588		mg/Kg		83	79 - 132
1,1-Dichloroethene	0.0708	0.0540		mg/Kg		76	62 - 130
1,2-Dichloropropane	0.0708	0.0647		mg/Kg		91	78 - 135
Ethylbenzene	0.0708	0.0589		mg/Kg		83	78 - 122
2-Hexanone	0.142	0.135		mg/Kg		96	73 - 134
Methylene Chloride	0.0708	0.0644	J	mg/Kg		91	55 - 150
4-Methyl-2-pentanone (MIBK)	0.142	0.137		mg/Kg		97	75 - 135
Methyl tert-butyl ether	0.0708	0.0617		mg/Kg		87	73 - 135
Styrene	0.0708	0.0605		mg/Kg		86	75 - 120
1,1,2,2-Tetrachloroethane	0.0708	0.0618		mg/Kg		87	80 - 127
Tetrachloroethene	0.0708	0.0529		mg/Kg		75	72 - 121
Toluene	0.0708	0.0573		mg/Kg		81	77 - 121
trans-1,2-Dichloroethene	0.0708	0.0593		mg/Kg		84	71 - 134
trans-1,3-Dichloropropene	0.0708	0.0575		mg/Kg		81	77 - 122
1,1,1-Trichloroethane	0.0708	0.0573		mg/Kg		81	79 - 132
1,1,2-Trichloroethane	0.0708	0.0639		mg/Kg		90	80 - 124
Trichloroethene	0.0708	0.0604		mg/Kg		85	76 - 132
Vinyl acetate	0.142	0.0851		mg/Kg		60	37 - 150
Xylenes, Total	0.142	0.119		mg/Kg		84	76 - 124

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		77 - 120
Dibromofluoromethane (Surr)	96		80 - 123
Toluene-d8 (Surr)	99		76 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-686550/1-A
Matrix: Solid
Analysis Batch: 687499

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686550

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Isophorone	<0.17		0.17	0.037	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		11/22/22 13:30	11/30/22 11:56	1

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-686550/1-A
Matrix: Solid
Analysis Batch: 687499

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686550

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Carbazole	<0.17		0.17	0.083	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		11/22/22 13:30	11/30/22 11:56	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2-Fluorophenol	127		31 - 166	11/22/22 13:30	11/30/22 11:56	1
Phenol-d5	112		30 - 153	11/22/22 13:30	11/30/22 11:56	1
Nitrobenzene-d5 (Surr)	95		37 - 147	11/22/22 13:30	11/30/22 11:56	1
2-Fluorobiphenyl (Surr)	96		43 - 145	11/22/22 13:30	11/30/22 11:56	1
2,4,6-Tribromophenol	93		31 - 143	11/22/22 13:30	11/30/22 11:56	1
Terphenyl-d14 (Surr)	153		42 - 157	11/22/22 13:30	11/30/22 11:56	1

Lab Sample ID: LCS 500-686550/2-A
Matrix: Solid
Analysis Batch: 687499

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686550

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>
Phenol	1.33	1.27		mg/Kg		96	56 - 122
Bis(2-chloroethyl)ether	1.33	1.52	*+	mg/Kg		114	55 - 111
1,3-Dichlorobenzene	1.33	1.29		mg/Kg		97	65 - 124
1,4-Dichlorobenzene	1.33	1.32		mg/Kg		99	61 - 110
1,2-Dichlorobenzene	1.33	1.32		mg/Kg		99	62 - 110
2-Methylphenol	1.33	1.36		mg/Kg		102	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.32		mg/Kg		99	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.44		mg/Kg		108	56 - 118
Hexachloroethane	1.33	1.26		mg/Kg		94	60 - 114
2-Chlorophenol	1.33	1.23		mg/Kg		92	64 - 110
Nitrobenzene	1.33	1.42		mg/Kg		106	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.33		mg/Kg		100	60 - 112
1,2,4-Trichlorobenzene	1.33	1.21		mg/Kg		91	66 - 117
Isophorone	1.33	1.43		mg/Kg		107	55 - 110
2,4-Dimethylphenol	1.33	1.35		mg/Kg		101	60 - 110
Hexachlorobutadiene	1.33	1.16		mg/Kg		87	56 - 120
Naphthalene	1.33	1.39		mg/Kg		105	63 - 110
2,4-Dichlorophenol	1.33	1.18		mg/Kg		88	58 - 120
4-Chloroaniline	1.33	0.729		mg/Kg		55	30 - 150
2,4,6-Trichlorophenol	1.33	1.20		mg/Kg		90	57 - 120
2,4,5-Trichlorophenol	1.33	1.18		mg/Kg		89	50 - 120
Hexachlorocyclopentadiene	1.33	0.851		mg/Kg		64	10 - 133
2-Methylnaphthalene	1.33	1.22		mg/Kg		91	69 - 112
2-Nitroaniline	1.33	1.40		mg/Kg		105	57 - 124
2-Chloronaphthalene	1.33	1.32		mg/Kg		99	69 - 114
4-Chloro-3-methylphenol	1.33	1.30		mg/Kg		97	65 - 122
2,6-Dinitrotoluene	1.33	1.38		mg/Kg		104	70 - 123
2-Nitrophenol	1.33	1.26		mg/Kg		95	60 - 120
3-Nitroaniline	1.33	0.675		mg/Kg		51	40 - 122
Dimethyl phthalate	1.33	1.44		mg/Kg		108	69 - 116
2,4-Dinitrophenol	2.67	0.976		mg/Kg		37	10 - 100
Acenaphthylene	1.33	1.33		mg/Kg		100	68 - 120
2,4-Dinitrotoluene	1.33	1.43		mg/Kg		107	69 - 124
Acenaphthene	1.33	1.25		mg/Kg		94	65 - 124
Dibenzofuran	1.33	1.28		mg/Kg		96	66 - 115
4-Nitrophenol	2.67	2.36		mg/Kg		88	30 - 122
Fluorene	1.33	1.23		mg/Kg		92	62 - 120
4-Nitroaniline	1.33	1.07		mg/Kg		80	60 - 160
4-Bromophenyl phenyl ether	1.33	1.31		mg/Kg		98	68 - 118

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-686550/2-A
Matrix: Solid
Analysis Batch: 687499

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686550

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobenzene	1.33	1.35		mg/Kg		101	63 - 124
Diethyl phthalate	1.33	1.29		mg/Kg		97	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.23		mg/Kg		92	62 - 119
Pentachlorophenol	2.67	1.22		mg/Kg		46	13 - 112
N-Nitrosodiphenylamine	1.33	1.20		mg/Kg		90	65 - 112
4,6-Dinitro-2-methylphenol	2.67	1.22		mg/Kg		46	10 - 110
Phenanthrene	1.33	1.26		mg/Kg		94	62 - 120
Anthracene	1.33	1.26		mg/Kg		95	70 - 114
Carbazole	1.33	1.26		mg/Kg		94	65 - 142
Di-n-butyl phthalate	1.33	1.27		mg/Kg		95	65 - 120
Fluoranthene	1.33	1.28		mg/Kg		96	62 - 120
Pyrene	1.33	1.68		mg/Kg		126	61 - 128
Butyl benzyl phthalate	1.33	1.45		mg/Kg		109	71 - 129
Benzo[a]anthracene	1.33	1.52		mg/Kg		114	67 - 122
Chrysene	1.33	1.51		mg/Kg		114	63 - 120
3,3'-Dichlorobenzidine	1.33	0.985		mg/Kg		74	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.39		mg/Kg		104	72 - 131
Di-n-octyl phthalate	1.33	1.06		mg/Kg		80	68 - 134
Benzo[b]fluoranthene	1.33	1.23		mg/Kg		92	69 - 129
Benzo[k]fluoranthene	1.33	1.23		mg/Kg		92	68 - 127
Benzo[a]pyrene	1.33	1.27		mg/Kg		95	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.40		mg/Kg		105	68 - 130
Dibenz(a,h)anthracene	1.33	1.31		mg/Kg		98	64 - 131
Benzo[g,h,i]perylene	1.33	1.38		mg/Kg		103	72 - 131
3 & 4 Methylphenol	1.33	1.32		mg/Kg		99	57 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	115		31 - 166
Phenol-d5	105		30 - 153
Nitrobenzene-d5 (Surr)	105		37 - 147
2-Fluorobiphenyl (Surr)	98		43 - 145
2,4,6-Tribromophenol	101		31 - 143
Terphenyl-d14 (Surr)	132		42 - 157

Lab Sample ID: 500-225420-1 MS
Matrix: Solid
Analysis Batch: 687247

Client Sample ID: 1401V3-27-B01 (0-6)
Prep Type: Total/NA
Prep Batch: 686550

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phenol	<0.19		1.51	1.18		mg/Kg	⊛	78	56 - 122
Bis(2-chloroethyl)ether	<0.19	*+	1.51	1.46		mg/Kg	⊛	97	55 - 111
1,3-Dichlorobenzene	<0.19		1.51	1.33		mg/Kg	⊛	88	60 - 110
1,4-Dichlorobenzene	<0.19		1.51	1.33		mg/Kg	⊛	88	61 - 110
1,2-Dichlorobenzene	<0.19		1.51	1.43		mg/Kg	⊛	95	62 - 110
2-Methylphenol	<0.19		1.51	1.11		mg/Kg	⊛	74	60 - 120
2,2'-oxybis[1-chloropropane]	<0.19		1.51	1.83		mg/Kg	⊛	121	40 - 124
N-Nitrosodi-n-propylamine	<0.076		1.51	1.67		mg/Kg	⊛	111	56 - 118
Hexachloroethane	<0.19		1.51	1.06		mg/Kg	⊛	70	60 - 114

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-225420-1 MS

Matrix: Solid

Analysis Batch: 687247

Client Sample ID: 1401V3-27-B01 (0-6)

Prep Type: Total/NA

Prep Batch: 686550

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
2-Chlorophenol	<0.19		1.51	1.24		mg/Kg	☼	82	64 - 110
Nitrobenzene	<0.037	F1	1.51	1.81	F1	mg/Kg	☼	120	60 - 116
Bis(2-chloroethoxy)methane	<0.19		1.51	1.66		mg/Kg	☼	110	60 - 112
1,2,4-Trichlorobenzene	<0.19		1.51	1.44		mg/Kg	☼	95	66 - 117
Isophorone	<0.19	F1	1.51	1.76	F1	mg/Kg	☼	116	55 - 110
2,4-Dimethylphenol	<0.37	F1 F2	1.51	0.874	F1	mg/Kg	☼	58	60 - 110
Hexachlorobutadiene	<0.19		1.51	1.57		mg/Kg	☼	104	56 - 120
Naphthalene	<0.037		1.51	1.52		mg/Kg	☼	101	63 - 110
2,4-Dichlorophenol	<0.37		1.51	1.38		mg/Kg	☼	92	58 - 120
4-Chloroaniline	<0.76		1.51	0.938		mg/Kg	☼	62	30 - 150
2,4,6-Trichlorophenol	<0.37		1.51	1.72		mg/Kg	☼	114	57 - 120
2,4,5-Trichlorophenol	<0.37	F2	1.51	1.47		mg/Kg	☼	97	50 - 120
Hexachlorocyclopentadiene	<0.76		1.51	0.276	J	mg/Kg	☼	18	10 - 133
2-Methylnaphthalene	<0.076		1.51	1.66		mg/Kg	☼	110	69 - 112
2-Nitroaniline	<0.19	F1	1.51	1.88		mg/Kg	☼	124	57 - 124
2-Chloronaphthalene	<0.19	F1	1.51	1.96	F1	mg/Kg	☼	130	69 - 114
4-Chloro-3-methylphenol	<0.37		1.51	1.30		mg/Kg	☼	86	65 - 122
2,6-Dinitrotoluene	<0.19		1.51	1.86		mg/Kg	☼	123	70 - 123
2-Nitrophenol	<0.37		1.51	1.36		mg/Kg	☼	90	60 - 120
3-Nitroaniline	<0.37		1.51	1.44		mg/Kg	☼	95	40 - 122
Dimethyl phthalate	<0.19	F1	1.51	2.01	F1	mg/Kg	☼	133	69 - 116
2,4-Dinitrophenol	<0.76	F1	3.02	<0.76	F1	mg/Kg	☼	0	10 - 100
Acenaphthylene	<0.037	F1	1.51	1.68		mg/Kg	☼	111	68 - 120
2,4-Dinitrotoluene	<0.19		1.51	1.62		mg/Kg	☼	107	69 - 124
Acenaphthene	<0.037	F1	1.51	1.83		mg/Kg	☼	121	65 - 124
Dibenzofuran	<0.19	F1	1.51	1.87	F1	mg/Kg	☼	124	66 - 115
4-Nitrophenol	<0.76		3.02	1.86		mg/Kg	☼	62	30 - 122
Fluorene	<0.037	F1	1.51	1.81		mg/Kg	☼	119	62 - 120
4-Nitroaniline	<0.37	F2	1.51	1.26		mg/Kg	☼	83	60 - 160
4-Bromophenyl phenyl ether	<0.19	F1	1.51	1.58		mg/Kg	☼	104	68 - 118
Hexachlorobenzene	<0.076	F1	1.51	1.57		mg/Kg	☼	104	63 - 124
Diethyl phthalate	<0.19	F1	1.51	2.43	F1	mg/Kg	☼	161	58 - 120
4-Chlorophenyl phenyl ether	<0.19	F1	1.51	1.97	F1	mg/Kg	☼	130	62 - 119
Pentachlorophenol	<0.76	F2	3.02	1.76		mg/Kg	☼	58	13 - 112
N-Nitrosodiphenylamine	<0.19	F1 F2	1.51	1.30		mg/Kg	☼	86	65 - 112
4,6-Dinitro-2-methylphenol	<0.76	F1	3.02	<0.76	F1	mg/Kg	☼	0	10 - 110
Phenanthrene	0.028	J F1	1.51	1.74		mg/Kg	☼	113	62 - 120
Anthracene	0.0071	J F1	1.51	1.69		mg/Kg	☼	112	70 - 114
Carbazole	<0.19		1.51	1.64		mg/Kg	☼	108	65 - 142
Di-n-butyl phthalate	<0.19	F1 F2	1.51	1.56		mg/Kg	☼	103	65 - 120
Fluoranthene	0.068	F1	1.51	1.80		mg/Kg	☼	114	62 - 120
Pyrene	0.096	F1 F2	1.51	3.21	E *3 F1	mg/Kg	☼	206	61 - 128
Butyl benzyl phthalate	<0.19	F1	1.51	2.20	*3 F1	mg/Kg	☼	146	71 - 129
Benzo[a]anthracene	0.038	F1	1.51	1.83	*3	mg/Kg	☼	118	67 - 122
Chrysene	0.058		1.51	1.69	*3	mg/Kg	☼	108	63 - 120
3,3'-Dichlorobenzidine	<0.19		1.51	0.989	*3	mg/Kg	☼	65	35 - 128
Bis(2-ethylhexyl) phthalate	<0.19	F1	1.51	1.98	*3	mg/Kg	☼	131	72 - 131
Di-n-octyl phthalate	<0.19	F1 F2	1.51	1.21		mg/Kg	☼	80	68 - 134
Benzo[b]fluoranthene	0.082	*3 F1	1.51	1.99	*3	mg/Kg	☼	127	69 - 129

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-225420-1 MS

Matrix: Solid

Analysis Batch: 687247

Client Sample ID: 1401V3-27-B01 (0-6)

Prep Type: Total/NA

Prep Batch: 686550

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec	Limits
	Result	Qualifier		Result	Qualifier					
Benzo[k]fluoranthene	0.031	J *3 F1	1.51	2.08	*3 F1	mg/Kg	☼	136	68 - 127	
Benzo[a]pyrene	0.049	*3	1.51	1.67	*3	mg/Kg	☼	107	65 - 133	
Indeno[1,2,3-cd]pyrene	0.024	J *3 F1	1.51	0.748	*3 F1	mg/Kg	☼	48	68 - 130	
Dibenz(a,h)anthracene	<0.037	*3 F1	1.51	0.737	*3 F1	mg/Kg	☼	49	64 - 131	
Benzo[g,h,i]perylene	0.027	J *3 F1	1.51	0.709	*3 F1	mg/Kg	☼	45	72 - 131	
3 & 4 Methylphenol	<0.19		1.51	1.35		mg/Kg	☼	89	57 - 120	
MS MS										
Surrogate	%Recovery	Qualifier	Limits							
2-Fluorophenol	80		31 - 166							
Phenol-d5	77		30 - 153							
Nitrobenzene-d5 (Surr)	95		37 - 147							
2-Fluorobiphenyl (Surr)	118		43 - 145							
2,4,6-Tribromophenol	74		31 - 143							
Terphenyl-d14 (Surr)	201	*3 S1+	42 - 157							

Lab Sample ID: 500-225420-1 MSD

Matrix: Solid

Analysis Batch: 687247

Client Sample ID: 1401V3-27-B01 (0-6)

Prep Type: Total/NA

Prep Batch: 686550

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Phenol	<0.19		1.51	1.36		mg/Kg	☼	90	56 - 122	14	30
Bis(2-chloroethyl)ether	<0.19	*+	1.51	1.27		mg/Kg	☼	84	55 - 111	14	30
1,3-Dichlorobenzene	<0.19		1.51	1.32		mg/Kg	☼	87	60 - 110	0	30
1,4-Dichlorobenzene	<0.19		1.51	1.32		mg/Kg	☼	87	61 - 110	1	30
1,2-Dichlorobenzene	<0.19		1.51	1.35		mg/Kg	☼	89	62 - 110	6	30
2-Methylphenol	<0.19		1.51	0.996		mg/Kg	☼	66	60 - 120	11	30
2,2'-oxybis[1-chloropropane]	<0.19		1.51	1.59		mg/Kg	☼	105	40 - 124	14	30
N-Nitrosodi-n-propylamine	<0.076		1.51	1.53		mg/Kg	☼	101	56 - 118	9	30
Hexachloroethane	<0.19		1.51	0.940		mg/Kg	☼	62	60 - 114	12	30
2-Chlorophenol	<0.19		1.51	1.14		mg/Kg	☼	76	64 - 110	8	30
Nitrobenzene	<0.037	F1	1.51	1.72		mg/Kg	☼	114	60 - 116	5	30
Bis(2-chloroethoxy)methane	<0.19		1.51	1.59		mg/Kg	☼	105	60 - 112	4	30
1,2,4-Trichlorobenzene	<0.19		1.51	1.46		mg/Kg	☼	96	66 - 117	1	30
Isophorone	<0.19	F1	1.51	1.75	F1	mg/Kg	☼	116	55 - 110	1	30
2,4-Dimethylphenol	<0.37	F1 F2	1.51	1.36	F2	mg/Kg	☼	90	60 - 110	43	30
Hexachlorobutadiene	<0.19		1.51	1.47		mg/Kg	☼	97	56 - 120	6	30
Naphthalene	<0.037		1.51	1.44		mg/Kg	☼	95	63 - 110	6	30
2,4-Dichlorophenol	<0.37		1.51	1.57		mg/Kg	☼	104	58 - 120	12	30
4-Chloroaniline	<0.76		1.51	0.935		mg/Kg	☼	62	30 - 150	0	30
2,4,6-Trichlorophenol	<0.37		1.51	1.36		mg/Kg	☼	90	57 - 120	24	30
2,4,5-Trichlorophenol	<0.37	F2	1.51	0.967	F2	mg/Kg	☼	64	50 - 120	41	30
Hexachlorocyclopentadiene	<0.76		1.51	0.261	J	mg/Kg	☼	17	10 - 133	5	30
2-Methylnaphthalene	<0.076		1.51	1.36		mg/Kg	☼	90	69 - 112	20	30
2-Nitroaniline	<0.19	F1	1.51	2.39	F1	mg/Kg	☼	158	57 - 124	24	30
2-Chloronaphthalene	<0.19	F1	1.51	1.77	F1	mg/Kg	☼	117	69 - 114	10	30
4-Chloro-3-methylphenol	<0.37		1.51	1.32		mg/Kg	☼	87	65 - 122	2	30
2,6-Dinitrotoluene	<0.19		1.51	1.79		mg/Kg	☼	118	70 - 123	4	30
2-Nitrophenol	<0.37		1.51	1.49		mg/Kg	☼	98	60 - 120	9	30

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-225420-1 MSD

Matrix: Solid

Analysis Batch: 687247

Client Sample ID: 1401V3-27-B01 (0-6)

Prep Type: Total/NA

Prep Batch: 686550

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
3-Nitroaniline	<0.37		1.51	1.84		mg/Kg	*	122	40 - 122	25	30
Dimethyl phthalate	<0.19	F1	1.51	1.92	F1	mg/Kg	*	127	69 - 116	4	30
2,4-Dinitrophenol	<0.76	F1	3.02	<0.76	F1	mg/Kg	*	0	10 - 100	NC	30
Acenaphthylene	<0.037	F1	1.51	1.89	F1	mg/Kg	*	125	68 - 120	12	30
2,4-Dinitrotoluene	<0.19		1.51	1.67		mg/Kg	*	110	69 - 124	3	30
Acenaphthene	<0.037	F1	1.51	2.02	F1	mg/Kg	*	133	65 - 124	10	30
Dibenzofuran	<0.19	F1	1.51	2.01	F1	mg/Kg	*	133	66 - 115	7	30
4-Nitrophenol	<0.76		3.02	1.76		mg/Kg	*	58	30 - 122	5	30
Fluorene	<0.037	F1	1.51	2.07	F1	mg/Kg	*	137	62 - 120	14	30
4-Nitroaniline	<0.37	F2	1.51	1.82	F2	mg/Kg	*	120	60 - 160	36	30
4-Bromophenyl phenyl ether	<0.19	F1	1.51	1.96	F1	mg/Kg	*	130	68 - 118	22	30
Hexachlorobenzene	<0.076	F1	1.51	1.92	F1	mg/Kg	*	127	63 - 124	20	30
Diethyl phthalate	<0.19	F1	1.51	3.11	E F1	mg/Kg	*	206	58 - 120	25	30
4-Chlorophenyl phenyl ether	<0.19	F1	1.51	2.11	F1	mg/Kg	*	139	62 - 119	7	30
Pentachlorophenol	<0.76	F2	3.02	1.29	F2	mg/Kg	*	43	13 - 112	31	30
N-Nitrosodiphenylamine	<0.19	F1 F2	1.51	1.92	F1 F2	mg/Kg	*	127	65 - 112	39	30
4,6-Dinitro-2-methylphenol	<0.76	F1	3.02	<0.76	F1	mg/Kg	*	0	10 - 110	NC	30
Phenanthrene	0.028	J F1	1.51	2.31	F1	mg/Kg	*	151	62 - 120	28	30
Anthracene	0.0071	J F1	1.51	2.20	F1	mg/Kg	*	145	70 - 114	26	30
Carbazole	<0.19		1.51	2.04		mg/Kg	*	135	65 - 142	22	30
Di-n-butyl phthalate	<0.19	F1 F2	1.51	2.25	F1 F2	mg/Kg	*	149	65 - 120	36	30
Fluoranthene	0.068	F1	1.51	2.39	F1	mg/Kg	*	153	62 - 120	28	30
Pyrene	0.096	F1 F2	1.51	2.34	F1 F2	mg/Kg	*	148	61 - 128	31	30
Butyl benzyl phthalate	<0.19	F1	1.51	1.89		mg/Kg	*	125	71 - 129	15	30
Benzo[a]anthracene	0.038	F1	1.51	1.97	F1	mg/Kg	*	128	67 - 122	7	30
Chrysene	0.058		1.51	1.86		mg/Kg	*	119	63 - 120	10	30
3,3'-Dichlorobenzidine	<0.19		1.51	1.01		mg/Kg	*	67	35 - 128	2	30
Bis(2-ethylhexyl) phthalate	<0.19	F1	1.51	2.21	F1	mg/Kg	*	146	72 - 131	11	30
Di-n-octyl phthalate	<0.19	F1 F2	1.51	2.11	F1 F2	mg/Kg	*	140	68 - 134	54	30
Benzo[b]fluoranthene	0.082	*3 F1	1.51	2.17	*3 F1	mg/Kg	*	138	69 - 129	8	30
Benzo[k]fluoranthene	0.031	J *3 F1	1.51	2.19	*3 F1	mg/Kg	*	143	68 - 127	5	30
Benzo[a]pyrene	0.049	*3	1.51	1.78	*3	mg/Kg	*	115	65 - 133	7	30
Indeno[1,2,3-cd]pyrene	0.024	J *3 F1	1.51	0.979	*3 F1	mg/Kg	*	63	68 - 130	27	30
Dibenz(a,h)anthracene	<0.037	*3 F1	1.51	0.968	*3	mg/Kg	*	64	64 - 131	27	30
Benzo[g,h,i]perylene	0.027	J *3 F1	1.51	0.807	*3 F1	mg/Kg	*	52	72 - 131	13	30
3 & 4 Methylphenol	<0.19		1.51	1.21		mg/Kg	*	80	57 - 120	11	30

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2-Fluorophenol	89		31 - 166
Phenol-d5	83		30 - 153
Nitrobenzene-d5 (Surr)	114		37 - 147
2-Fluorobiphenyl (Surr)	136		43 - 145
2,4,6-Tribromophenol	67		31 - 143
Terphenyl-d14 (Surr)	166	S1+	42 - 157

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-686617/2-A
Matrix: Solid
Analysis Batch: 687706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686617

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	Limits
Barium	0.500	0.512		mg/L		102		80 - 120
Beryllium	0.0500	0.0493		mg/L		99		80 - 120
Boron	1.00	1.17		mg/L		117		80 - 120
Cadmium	0.0500	0.0525		mg/L		105		80 - 120
Chromium	0.200	0.197		mg/L		98		80 - 120
Cobalt	0.500	0.519		mg/L		104		80 - 120
Iron	1.00	0.988		mg/L		99		80 - 120
Lead	0.100	0.0960		mg/L		96		80 - 120
Manganese	0.500	0.490		mg/L		98		80 - 120
Nickel	0.500	0.508		mg/L		102		80 - 120
Selenium	0.100	0.110		mg/L		110		80 - 120
Silver	0.0500	0.0533		mg/L		107		80 - 120
Zinc	0.500	0.548		mg/L		110		80 - 120

Lab Sample ID: LCS 500-686620/2-A
Matrix: Solid
Analysis Batch: 687846

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686620

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	Limits
Lead	0.100	0.0995		mg/L		100		80 - 120
Manganese	0.500	0.505		mg/L		101		80 - 120

Lab Sample ID: MB 500-686720/1-A
Matrix: Solid
Analysis Batch: 687677

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686720

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Arsenic	<1.0		1.0	0.34	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Barium	<1.0		1.0	0.11	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Beryllium	<0.40		0.40	0.093	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Boron	0.511	J	5.0	0.47	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Cadmium	0.0438	J	0.20	0.036	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Calcium	3.90	J	20	3.4	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Chromium	<1.0		1.0	0.50	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Cobalt	<0.50		0.50	0.13	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Copper	<1.0		1.0	0.28	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Iron	<20		20	10	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Lead	<0.50		0.50	0.23	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Magnesium	<10		10	5.0	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Manganese	<1.0		1.0	0.15	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Nickel	<1.0		1.0	0.29	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Potassium	<50		50	18	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Selenium	<1.0		1.0	0.59	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Silver	<0.50		0.50	0.13	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Sodium	<100		100	15	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Thallium	<1.0		1.0	0.50	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Vanadium	<0.50		0.50	0.12	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Zinc	<2.0		2.0	0.88	mg/Kg		11/23/22 09:41	11/30/22 14:51	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-686720/2-A
Matrix: Solid
Analysis Batch: 687677

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686720

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	44.1		mg/Kg		88	80 - 120
Arsenic	10.0	8.86		mg/Kg		89	80 - 120
Barium	200	193		mg/Kg		97	80 - 120
Beryllium	5.00	4.47		mg/Kg		89	80 - 120
Boron	100	83.3		mg/Kg		83	80 - 120
Cadmium	5.00	4.40		mg/Kg		88	80 - 120
Calcium	1000	954		mg/Kg		95	80 - 120
Chromium	20.0	19.1		mg/Kg		95	80 - 120
Cobalt	50.0	47.7		mg/Kg		95	80 - 120
Copper	25.0	24.2		mg/Kg		97	80 - 120
Iron	100	104		mg/Kg		104	80 - 120
Lead	10.0	9.15		mg/Kg		91	80 - 120
Magnesium	1000	896		mg/Kg		90	80 - 120
Manganese	50.0	46.0		mg/Kg		92	80 - 120
Nickel	50.0	46.4		mg/Kg		93	80 - 120
Potassium	1000	917		mg/Kg		92	80 - 120
Selenium	10.0	8.20		mg/Kg		82	80 - 120
Silver	5.00	4.19		mg/Kg		84	80 - 120
Sodium	1000	932		mg/Kg		93	80 - 120
Thallium	10.0	9.16		mg/Kg		92	80 - 120
Vanadium	50.0	47.4		mg/Kg		95	80 - 120
Zinc	50.0	46.5		mg/Kg		93	80 - 120

Lab Sample ID: 500-225420-1 MS
Matrix: Solid
Analysis Batch: 687677

Client Sample ID: 1401V3-27-B01 (0-6)
Prep Type: Total/NA
Prep Batch: 686720

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.33	J F1	26.7	4.68	F1	mg/Kg	⊛	16	75 - 125
Arsenic	8.1	F1	5.35	11.8	F1	mg/Kg	⊛	69	75 - 125
Barium	79		107	160		mg/Kg	⊛	76	75 - 125
Beryllium	0.70		2.67	2.87		mg/Kg	⊛	81	75 - 125
Boron	6.5	B F1	53.5	45.6	F1	mg/Kg	⊛	73	75 - 125
Cadmium	0.25	B	2.67	2.39		mg/Kg	⊛	80	75 - 125
Calcium	34000	B F2	535	48200	E 4	mg/Kg	⊛	2744	75 - 125
Chromium	15		10.7	24.2		mg/Kg	⊛	85	75 - 125
Cobalt	9.9		26.7	35.9		mg/Kg	⊛	97	75 - 125
Copper	19		13.4	29.6		mg/Kg	⊛	82	75 - 125
Iron	16000		53.5	15600	4	mg/Kg	⊛	-962	75 - 125
Lead	38		5.35	46.2	4	mg/Kg	⊛	161	75 - 125
Magnesium	20000	F2	535	30900	4	mg/Kg	⊛	2079	75 - 125
Manganese	420		26.7	406	4	mg/Kg	⊛	-50	75 - 125
Nickel	21		26.7	46.8		mg/Kg	⊛	98	75 - 125
Potassium	1300	F1	535	2580	F1	mg/Kg	⊛	230	75 - 125
Selenium	0.55	J F1	5.35	4.28	F1	mg/Kg	⊛	70	75 - 125
Silver	0.34		2.67	2.42		mg/Kg	⊛	78	75 - 125
Sodium	530		535	998		mg/Kg	⊛	87	75 - 125
Thallium	<0.58		5.35	4.87		mg/Kg	⊛	91	75 - 125
Vanadium	22		26.7	45.5		mg/Kg	⊛	86	75 - 125

Eurofins Chicago

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-225420-1 MS
Matrix: Solid
Analysis Batch: 687677

Client Sample ID: 1401V3-27-B01 (0-6)
Prep Type: Total/NA
Prep Batch: 686720

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	71		26.7	93.5		mg/Kg	⊛	83	75 - 125

Lab Sample ID: 500-225420-1 MSD
Matrix: Solid
Analysis Batch: 687677

Client Sample ID: 1401V3-27-B01 (0-6)
Prep Type: Total/NA
Prep Batch: 686720

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.33	J F1	28.0	5.25	F1	mg/Kg	⊛	18	75 - 125	11	20
Arsenic	8.1	F1	5.61	11.8	F1	mg/Kg	⊛	66	75 - 125	0	20
Barium	79		112	170		mg/Kg	⊛	81	75 - 125	6	20
Beryllium	0.70		2.80	2.95		mg/Kg	⊛	80	75 - 125	3	20
Boron	6.5	B F1	56.1	46.5	F1	mg/Kg	⊛	71	75 - 125	2	20
Cadmium	0.25	B	2.80	2.43		mg/Kg	⊛	78	75 - 125	2	20
Calcium	34000	B F2	561	37600	E 4 F2	mg/Kg	⊛	718	75 - 125	25	20
Chromium	15		11.2	26.0		mg/Kg	⊛	97	75 - 125	7	20
Cobalt	9.9		28.0	37.4		mg/Kg	⊛	98	75 - 125	4	20
Copper	19		14.0	32.5		mg/Kg	⊛	99	75 - 125	9	20
Iron	16000		56.1	16800	4	mg/Kg	⊛	1217	75 - 125	7	20
Lead	38		5.61	46.1	4	mg/Kg	⊛	153	75 - 125	0	20
Magnesium	20000	F2	561	24300	4 F2	mg/Kg	⊛	810	75 - 125	24	20
Manganese	420		28.0	397	4	mg/Kg	⊛	-81	75 - 125	2	20
Nickel	21		28.0	49.5		mg/Kg	⊛	103	75 - 125	6	20
Potassium	1300	F1	561	2600	F1	mg/Kg	⊛	222	75 - 125	1	20
Selenium	0.55	J F1	5.61	4.20	F1	mg/Kg	⊛	65	75 - 125	2	20
Silver	0.34		2.80	2.50		mg/Kg	⊛	77	75 - 125	4	20
Sodium	530		561	1050		mg/Kg	⊛	92	75 - 125	5	20
Thallium	<0.58		5.61	4.94		mg/Kg	⊛	88	75 - 125	2	20
Vanadium	22		28.0	48.5		mg/Kg	⊛	93	75 - 125	6	20
Zinc	71		28.0	99.3		mg/Kg	⊛	100	75 - 125	6	20

Lab Sample ID: 500-225420-1 DU
Matrix: Solid
Analysis Batch: 687677

Client Sample ID: 1401V3-27-B01 (0-6)
Prep Type: Total/NA
Prep Batch: 686720

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	0.33	J F1	0.490	J F5	mg/Kg	⊛	38	20
Arsenic	8.1	F1	9.37		mg/Kg	⊛	15	20
Barium	79		83.6		mg/Kg	⊛	6	20
Beryllium	0.70		0.849		mg/Kg	⊛	19	20
Boron	6.5	B F1	5.62		mg/Kg	⊛	15	20
Cadmium	0.25	B	0.232		mg/Kg	⊛	9	20
Calcium	34000	B F2	19200	F3	mg/Kg	⊛	54	20
Chromium	15		17.3		mg/Kg	⊛	13	20
Cobalt	9.9		11.6		mg/Kg	⊛	16	20
Copper	19		264	E F3	mg/Kg	⊛	174	20
Iron	16000		19900	F3	mg/Kg	⊛	21	20
Lead	38		34.0		mg/Kg	⊛	10	20
Magnesium	20000	F2	12100	F3	mg/Kg	⊛	48	20
Manganese	420		394		mg/Kg	⊛	6	20

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-225420-1 DU
Matrix: Solid
Analysis Batch: 687677

Client Sample ID: 1401V3-27-B01 (0-6)
Prep Type: Total/NA
Prep Batch: 686720

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Nickel	21		26.3	F3	mg/Kg	*	24	20	
Potassium	1300	F1	1440		mg/Kg	*	7	20	
Selenium	0.55	J F1	0.495	J	mg/Kg	*	10	20	
Silver	0.34		0.397		mg/Kg	*	16	20	
Sodium	530		579		mg/Kg	*	8	20	
Thallium	<0.58		0.476	J	mg/Kg	*	NC	20	
Vanadium	22		22.6		mg/Kg	*	0.3	20	
Zinc	71		113	F3	mg/Kg	*	46	20	

Lab Sample ID: LB 500-686377/1-B
Matrix: Solid
Analysis Batch: 687706

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 686617

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		11/22/22 18:35	11/30/22 15:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 18:35	11/30/22 15:38	1
Boron	0.276	J	0.50	0.050	mg/L		11/22/22 18:35	11/30/22 15:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 18:35	11/30/22 15:38	1
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:38	1
Cobalt	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:38	1
Iron	<0.40		0.40	0.20	mg/L		11/22/22 18:35	11/30/22 15:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 18:35	11/30/22 15:38	1
Manganese	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:38	1
Nickel	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:38	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 18:35	11/30/22 15:38	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:38	1
Zinc	<0.50		0.50	0.020	mg/L		11/22/22 18:35	11/30/22 15:38	1

Lab Sample ID: LB 500-686388/1-B
Matrix: Solid
Analysis Batch: 687846

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 686620

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 19:37	12/01/22 15:14	1
Manganese	<0.025		0.025	0.010	mg/L		11/22/22 19:37	12/01/22 15:14	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-686617/2-A
Matrix: Solid
Analysis Batch: 687529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686617

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec	Limits
		Result	Qualifier					
Antimony	0.500	0.486		mg/L		97		80 - 120
Thallium	0.100	0.103		mg/L		103		80 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LB 500-686377/1-B
Matrix: Solid
Analysis Batch: 687529

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 686617

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 18:35	11/29/22 15:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 18:35	11/29/22 15:45	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-686728/12-A
Matrix: Solid
Analysis Batch: 687111

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686728

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 09:15	11/28/22 08:32	1

Lab Sample ID: LCS 500-686728/14-A
Matrix: Solid
Analysis Batch: 687111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686728

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00191		mg/L		96	80 - 120

Lab Sample ID: LCS 500-686728/32-A
Matrix: Solid
Analysis Batch: 687111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686728

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00191		mg/L		96	80 - 120

Lab Sample ID: LB 500-686377/1-C
Matrix: Solid
Analysis Batch: 687111

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 686728

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 09:15	11/28/22 08:34	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-687107/12-A
Matrix: Solid
Analysis Batch: 687292

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687107

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00635	J	0.017	0.0056	mg/Kg		11/28/22 16:35	11/29/22 09:07	1

Lab Sample ID: LCS 500-687107/13-A
Matrix: Solid
Analysis Batch: 687292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687107

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.166		mg/Kg		101	80 - 120

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Client Sample ID: 1401V3-27-B01 (0-6)

Lab Sample ID: 500-225420-1

Date Collected: 11/14/22 11:00

Matrix: Solid

Date Received: 11/14/22 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686388	AW	EET CHI	11/21/22 12:03 - 11/22/22 06:03 ¹
SPLP East	Prep	3010A			686620	LMB	EET CHI	11/22/22 19:37 - 11/22/22 20:07 ¹
SPLP East	Analysis	6010B		1	687846	JJJ	EET CHI	12/01/22 15:24
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6010B		1	687706	JJJ	EET CHI	11/30/22 15:48
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 15:51
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686728	MJG	EET CHI	11/23/22 09:15 - 11/23/22 11:15 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 08:41
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 18:23
Total/NA	Analysis	Moisture		1	685686	LWN	EET CHI	11/17/22 16:49

Client Sample ID: 1401V3-27-B01 (0-6)

Lab Sample ID: 500-225420-1

Date Collected: 11/14/22 11:00

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372631	MZR8	EET CF	11/15/22 09:07
Total/NA	Prep	5035			372633	MZR8	EET CF	11/21/22 08:21
Total/NA	Analysis	8260D		1	372636	MZR8	EET CF	11/22/22 01:34
Total/NA	Pre Prep	Frozen Preserve			372631	MZR8	EET CF	11/15/22 09:07
Total/NA	Prep	5035			372906	MZR8	EET CF	11/23/22 08:03
Total/NA	Analysis	8260D		1	372908	MZR8	EET CF	11/23/22 18:49
Total/NA	Prep	3541			686550	EK	EET CHI	11/22/22 13:30 - 11/22/22 17:00 ¹
Total/NA	Analysis	8270D		1	687247	SS	EET CHI	11/30/22 00:31
Total/NA	Prep	3050B			686720	BDE	EET CHI	11/23/22 09:41 - 11/23/22 10:11 ¹
Total/NA	Analysis	6010B		1	687677	JJJ	EET CHI	11/30/22 15:05
Total/NA	Prep	7471B			687107	MJG	EET CHI	11/28/22 16:35
Total/NA	Analysis	7471B		1	687292	MJG	EET CHI	11/29/22 09:26

Client Sample ID: 1401V3-27-B02 (0-6)

Lab Sample ID: 500-225420-2

Date Collected: 11/14/22 11:10

Matrix: Solid

Date Received: 11/14/22 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686388	AW	EET CHI	11/21/22 12:03 - 11/22/22 06:03 ¹
SPLP East	Prep	3010A			686620	LMB	EET CHI	11/22/22 19:37 - 11/22/22 20:07 ¹
SPLP East	Analysis	6010B		1	687846	JJJ	EET CHI	12/01/22 15:27
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6010B		1	687706	JJJ	EET CHI	11/30/22 15:51

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Client Sample ID: 1401V3-27-B02 (0-6)

Lab Sample ID: 500-225420-2

Date Collected: 11/14/22 11:10

Matrix: Solid

Date Received: 11/14/22 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 15:53
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686728	MJG	EET CHI	11/23/22 09:15 - 11/23/22 11:15 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 08:48
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 18:26
Total/NA	Analysis	Moisture		1	685686	LWN	EET CHI	11/17/22 16:49

Client Sample ID: 1401V3-27-B02 (0-6)

Lab Sample ID: 500-225420-2

Date Collected: 11/14/22 11:10

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372631	MZR8	EET CF	11/15/22 09:07
Total/NA	Prep	5035			372633	MZR8	EET CF	11/21/22 08:21
Total/NA	Analysis	8260D		1	372636	MZR8	EET CF	11/22/22 01:59
Total/NA	Prep	3541			686550	EK	EET CHI	11/22/22 13:30 - 11/22/22 17:00 ¹
Total/NA	Analysis	8270D		1	687247	SS	EET CHI	11/29/22 17:47
Total/NA	Prep	3050B			686720	BDE	EET CHI	11/23/22 09:41 - 11/23/22 10:11 ¹
Total/NA	Analysis	6010B		1	687677	JJJ	EET CHI	11/30/22 15:20
Total/NA	Prep	3050B			686720	BDE	EET CHI	11/23/22 09:41 - 11/23/22 10:11 ¹
Total/NA	Analysis	6010B		5	687779	JJJ	EET CHI	12/01/22 11:05
Total/NA	Prep	7471B			687107	MJG	EET CHI	11/28/22 16:35
Total/NA	Analysis	7471B		1	687292	MJG	EET CHI	11/29/22 09:27

Client Sample ID: 1401V3-27-B03 (0-2)

Lab Sample ID: 500-225420-3

Date Collected: 11/14/22 11:20

Matrix: Solid

Date Received: 11/14/22 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686388	AW	EET CHI	11/21/22 12:03 - 11/22/22 06:03 ¹
SPLP East	Prep	3010A			686620	LMB	EET CHI	11/22/22 19:37 - 11/22/22 20:07 ¹
SPLP East	Analysis	6010B		1	687846	JJJ	EET CHI	12/01/22 15:30
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6010B		1	687706	JJJ	EET CHI	11/30/22 15:54
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 15:55
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686728	MJG	EET CHI	11/23/22 09:15 - 11/23/22 11:15 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 08:51
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 18:28
Total/NA	Analysis	Moisture		1	685686	LWN	EET CHI	11/17/22 16:49

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Client Sample ID: 1401V3-27-B03 (0-2)

Lab Sample ID: 500-225420-3

Date Collected: 11/14/22 11:20

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372631	MZR8	EET CF	11/15/22 09:07
Total/NA	Prep	5035			372633	MZR8	EET CF	11/21/22 08:21
Total/NA	Analysis	8260D		1	372636	MZR8	EET CF	11/22/22 02:24
Total/NA	Prep	3541			686550	EK	EET CHI	11/22/22 13:30 - 11/22/22 17:00 ¹
Total/NA	Analysis	8270D		1	687247	SS	EET CHI	11/29/22 18:08
Total/NA	Prep	3050B			686720	BDE	EET CHI	11/23/22 09:41 - 11/23/22 10:11 ¹
Total/NA	Analysis	6010B		1	687677	JJB	EET CHI	11/30/22 15:30
Total/NA	Prep	7471B			687107	MJG	EET CHI	11/28/22 16:35
Total/NA	Analysis	7471B		1	687292	MJG	EET CHI	11/29/22 09:29

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225420-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

Laboratory: Eurofins Cedar Falls

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Colorado	Petroleum Storage Tank Program	IA100001 (OR)	09-29-23
Georgia	State	IA100001 (OR)	09-29-23
Illinois	NELAP	200024	11-29-22
Iowa	State	007	12-01-23
Kansas	NELAP	E-10341	01-31-23
Minnesota	NELAP	019-999-319	12-31-22
Minnesota (Petrofund)	State	3349	01-18-24
North Dakota	State	R-186	09-29-23
Oregon	NELAP	IA100001	09-29-23

Chain of Custody Record

522938




Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact Company Name: WSP		Project Manager: A. Tietlow		Site Contact: A. Huppel		Date: 11/14/22		COC No: 2	
Address: 20 N. Wauville		Tel/Email: _____		Lab Contact: R. Wright		Carrier: _____		2 of 8 COCs	
City/State/Zip: Chicago IL		Analysis Turnaround Time		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ PH _____ Solids _____ Total Metals _____ SVOCs _____ VOCs _____ TCLP* _____		 500-225420 COC		Sampler	
Phone: _____		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TA* if different from Below _____						For Lab Use Only	
Fax: _____		<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Walk-in Client _____	
Project Name: DDT W D 13 Butterfield rd								Lab Sampling _____	
Site: 31403035.013								Job / SDG No 500-225420	
PO #: _____								Sample Specific Notes	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.			
1	140103-27-Bo1(0-6)	11/14/22	1100	C	S	2	X	X	X
2	140103-27-Bo2(0-6)	11/14/22	1110	C	S	2	X	X	X
3	140103-27-Bo3(0-2)	11/14/22	1120	C	S	2	X	X	X
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments: * SPLP analysis based on TCLP results 3.3 → 3.5, 3.4 → 3.6									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd		Corr'd		Therm ID No	
Relinquished by: Audrey Huppel		Company: WSP		Date/Time: 11/14/22 1620		Received by: R. J. Elliot		Company: EETA	
Relinquished by: R. J. Elliot		Company: EETA		Date/Time: 11/14/22 1756		Received by: _____		Company: _____	
Relinquished by: _____		Company: _____		Date/Time: _____		Received in Laboratory by: John Scott		Company: EETA	
								Date/Time: 11/15/22 0715	

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- 14
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Environment Testing
America



Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Chicago</u>			
City/State:	CITY <u>Univ Park</u>	STATE <u>IL</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>11-18-22</u>	TIME <u>1445</u>	Received By: <u>AL</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>1</u> of <u>2</u>	
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID:	<u>AL</u>	Correction Factor (°C):	<u>0</u>
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):	<u>1.9</u>	Corrected Temp (°C):	<u>1.9</u>
• Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Chicago</u>			
City/State:	CITY <u>Urv Park</u>	STATE <u>IL</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>11-18-22</u>	TIME <u>1445</u>	Received By: <u>AL</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>2</u> of <u>2</u>	
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
<u>FW 001</u>			
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>R</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – if no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>0.6</u>		Corrected Temp (°C): <u>0.6</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225420-1

Login Number: 225420

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5,3.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225420-1

Login Number: 225420

List Number: 2

Creator: Kizer, Preston V

List Source: Eurofins Cedar Falls

List Creation: 11/18/22 06:00 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 365 & FAP 870 (Butterfield Road) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

2205 Butterfield Road (ISGS #1401V3-28)

City: Downers Grove State: IL Zip Code: 60515

County: DuPage Township: Milton

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.83193 Longitude: -88.03532
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): _____ Approximate End Date (mm/dd/yyyy): _____

Estimated Volume of debris (cu. Yd.): 14

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov



This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Analytical Data Summary
PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

Key to Data Tables

- MAC = Maximum Allowable Concentration of Chemical Constituent in Uncontaminated Soil Used as Fill Material At Regulated Fill Operations
- mg/kg = Milligrams per kilogram.
- mg/L = Milligrams per liter.
- MSA = Metropolitan Statistical Area
- TACO = Tiered Approach to Corrective Action Objectives
- TCLP = Toxicity Characteristic Leaching Procedure.
- SCGIER = Soil Component of the Groundwater Ingestion Exposure Route
- SPLP = Synthetic Precipitation Leaching Procedure.
- ND = Not detected.
- NA = Not analyzed or not applicable.
- J = Estimated value.
- U = Analyte was analyzed for but not detected.
- PID = Photoionization detector.
- = No PID readings detected above background (within instrument margin of error).

Criteria Qualifiers and Shading

- # = pH is less than 6.25 or greater than 9.0 standard units.
- † = Concentration exceeds the most stringent MAC.
- m = Concentration exceeds the MAC for an MSA.
- * = Concentration exceeds the MAC for Chicago corporate limits.
- c = Concentration exceeds a TACO Tier 1 RO for the Construction Worker Exposure Route.
- r = Concentration exceeds a TACO Tier 1 soil RO for residential properties.
- L = The detected TCLP/SPLP concentration exceeds the TACO Tier 1 RO for the SCGIER.
-  = Concentration exceeds the most stringent MAC, but is below the MAC for an MSA.
-  = Concentration exceeds applicable comparison criteria.

**PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11
CONTAMINANTS OF CONCERN**

SITE	ISGS #1401V3-28 (Edward-Elmhurst Health)			Comparison Criteria					
	1401V3-28-B01			MACs			TACO		
BORING	1401V3-28-B01 (0-7)	1401V3-28-B01 (0-7)D	1401V3-28-B01 (7-13)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	Soil	Soil	Soil						
MATRIX	0-7	0-7	7-13						
DEPTH (feet)	7.1	7.2	8.2						
pH									
PID (meter units)	--								
VOCs (mg/kg)									
2-Butanone (MEK)	ND U	0.0092 J	ND U	--	--	--	--	--	--
Acetone	ND U	0.029 J	ND U	25	--	--	70,000	100,000	--
SVOCs (mg/kg)									
Benzo(a)anthracene	0.021 J	ND U	ND U	0.9	1.8	11	1.8	170	--
Benzo(a)pyrene	0.028 J	ND U	ND U	0.09	2.1	11	2.1	17	--
Benzo(b)fluoranthene	0.049	0.012 J	ND U	0.9	2.1	13	2.1	170	--
Benzo(g,h,i)perylene	0.015 J	ND U	ND U	--	--	4.4	--	--	--
Benzo(k)fluoranthene	0.019 J	ND U	ND U	9	--	8.1	9	1,700	--
Chrysene	0.041 J	ND U	ND U	88	--	11	88	17,000	--
Fluoranthene	0.049 J	0.016 J	ND U	3,100	--	28	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.015 J	ND U	ND U	0.9	1.6	5.8	1.6	170	--
Phenanthrene	0.019 J	ND U	ND U	--	--	15	--	--	--
Pyrene	0.042 J	ND UJ	ND UJ	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)									
Antimony	0.41 J	0.44 J	0.56 J	5	--	--	31	82	--
Arsenic	6.4	5.1	9.7	11.3	13	--	13	61	--
Barium	120	73	39	1,500	--	--	5,500	14,000	--
Beryllium	0.94	0.80	0.75	22	--	--	160	410	--
Boron	7.4	4.8	12	40	--	--	16,000	41,000	--
Cadmium	0.25	0.35	0.25	5.2	--	--	78	200	--
Calcium	6,600	10,000	66,000	--	--	--	--	--	--
Chromium	19	16	15	21	--	--	230	690	--
Cobalt	9.0	9.2	12	20	--	--	4,700	12,000	--
Copper	34	29	28	2,900	--	--	2,900	8,200	--
Iron	18,000 †m	15,000	20,000 †m	15,000	15,900	--	--	--	--
Lead	34	21	15	107	--	--	400	700	--
Magnesium	4,200	7,200	30,000	325,000	--	--	--	730,000	--
Manganese	450	240	370	630	636	--	1,600	4,100	--
Mercury	0.068	ND U	ND U	0.89	--	--	10	0.1	--
Nickel	19	21	31	100	--	--	1,600	4,100	--
Potassium	1,900	1,400	2,200	--	--	--	--	--	--
Selenium	0.64	0.49 J	0.41 J	1.3	--	--	390	1,000	--
Silver	0.43	0.36	0.33	4.4	--	--	390	1,000	--
Sodium	360 J	150 J	360	--	--	--	--	--	--
Thallium	ND U	0.41 J	0.37 J	2.6	--	--	6.3	160	--
Vanadium	30	21	19	550	--	--	550	1,400	--
Zinc	86	99	68	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)									
Barium	0.38 J	0.24 J	0.32 J	--	--	--	--	--	2
Cadmium	ND U	ND U	0.0020 J	--	--	--	--	--	0.005
Cobalt	0.024 J	ND U	ND U	--	--	--	--	--	1
Iron	ND U	ND U	ND U	--	--	--	--	--	5
Manganese	6.0 J L	0.19 J L	0.67 L	--	--	--	--	--	0.15
Zinc	0.058 J	0.020 J	ND U	--	--	--	--	--	5
SPLP Metals (mg/L)									
Manganese	0.58 L	0.41 L	0.61 L	--	--	--	--	--	0.15



ANALYTICAL REPORT

PREPARED FOR

Attn: Dean Tiebot
WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602

Generated 12/5/2022 4:52:14 PM

JOB DESCRIPTION

IDOT - 196-002-WO 13 IL 56

JOB NUMBER

500-225421-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



Generated
12/5/2022 4:52:14 PM

Authorized for release by
Jodie Bracken, Project Management Assistant II
Jodie.Bracken@et.eurofinsus.com
Designee for
Richard Wright, Senior Project Manager
Richard.Wright@et.eurofinsus.com
(708)746-0045

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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Job ID: 500-225421-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225421-1

Receipt

The samples were received on 11/14/2022 5:56 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.5° C and 3.6° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-687499 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-687499 was outside the method criteria for the following analyte(s): Terphenyl-d14, Pyrene and N-Nitrosodi-n-propylamine. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-686685 and analytical batch 500-687897 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-687897 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane], 2,4-Dinitrophenol, 2-Fluorophenol (Surr), 2-Nitroaniline, 4-Nitroaniline, 4-Nitrophenol, Hexachlorocyclopentadiene, Nitrobenzene-d5 (Surr) and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-687897 was outside the method criteria for the following analyte(s): 1,2,4-Trichlorobenzene, 4-Chlorophenyl phenyl ether and Hexachlorobutadiene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Client Sample ID: 1401V3-28-B01 (0-7)

Lab Sample ID: 500-225421-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.019	J	0.043	0.0060	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.049	F1	0.043	0.0079	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.042	J	0.043	0.0085	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.021	J	0.043	0.0058	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.041	J F1	0.043	0.012	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.049		0.043	0.0092	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.019	J	0.043	0.013	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.028	J	0.043	0.0083	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.015	J	0.043	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.015	J F1	0.043	0.014	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.41	J	1.3	0.25	mg/Kg	1	✳	6010B	Total/NA
Arsenic	6.4		0.64	0.22	mg/Kg	1	✳	6010B	Total/NA
Barium	120		0.64	0.073	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.94		0.25	0.060	mg/Kg	1	✳	6010B	Total/NA
Boron	7.4	B	3.2	0.30	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.25	B	0.13	0.023	mg/Kg	1	✳	6010B	Total/NA
Calcium	6600	B	13	2.2	mg/Kg	1	✳	6010B	Total/NA
Chromium	19		0.64	0.32	mg/Kg	1	✳	6010B	Total/NA
Cobalt	9.0		0.32	0.083	mg/Kg	1	✳	6010B	Total/NA
Copper	34		0.64	0.18	mg/Kg	1	✳	6010B	Total/NA
Iron	18000		13	6.6	mg/Kg	1	✳	6010B	Total/NA
Lead	34		0.32	0.15	mg/Kg	1	✳	6010B	Total/NA
Magnesium	4200		6.4	3.2	mg/Kg	1	✳	6010B	Total/NA
Manganese	450		0.64	0.092	mg/Kg	1	✳	6010B	Total/NA
Nickel	19		0.64	0.19	mg/Kg	1	✳	6010B	Total/NA
Potassium	1900		32	11	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.64		0.64	0.37	mg/Kg	1	✳	6010B	Total/NA
Silver	0.43		0.32	0.082	mg/Kg	1	✳	6010B	Total/NA
Sodium	360		64	9.4	mg/Kg	1	✳	6010B	Total/NA
Vanadium	30		0.32	0.075	mg/Kg	1	✳	6010B	Total/NA
Zinc	86		1.3	0.56	mg/Kg	1	✳	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.33	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.024	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	6.0		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.058	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.58		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.068	B	0.021	0.0069	mg/Kg	1	✳	7471B	Total/NA
pH	7.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-28-B01 (0-7)D

Lab Sample ID: 500-225421-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.029	J	0.052	0.0096	mg/Kg	1	✳	8260D	Total/NA
2-Butanone (MEK)	0.0092	J	0.021	0.0016	mg/Kg	1	✳	8260D	Total/NA
Fluoranthene	0.016	J	0.040	0.0075	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.012	J	0.040	0.0088	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.44	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	5.1		0.59	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	73		0.59	0.067	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.80		0.24	0.055	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Client Sample ID: 1401V3-28-B01 (0-7)D (Continued)

Lab Sample ID: 500-225421-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	4.8	B	3.0	0.28	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.35	B	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	10000	B	12	2.0	mg/Kg	1	✳	6010B	Total/NA
Chromium	16		0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	9.2		0.30	0.077	mg/Kg	1	✳	6010B	Total/NA
Copper	29		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	15000		12	6.1	mg/Kg	1	✳	6010B	Total/NA
Lead	21		0.30	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	7200		5.9	2.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	240		0.59	0.086	mg/Kg	1	✳	6010B	Total/NA
Nickel	21		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	1400		30	10	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.49	J	0.59	0.35	mg/Kg	1	✳	6010B	Total/NA
Silver	0.36		0.30	0.076	mg/Kg	1	✳	6010B	Total/NA
Sodium	150		59	8.7	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.41	J	0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Vanadium	21		0.30	0.070	mg/Kg	1	✳	6010B	Total/NA
Zinc	99		1.2	0.52	mg/Kg	1	✳	6010B	Total/NA
Barium	0.24	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.30	J B	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.19		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.020	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.41		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.031	B	0.019	0.0065	mg/Kg	1	✳	7471B	Total/NA
pH	7.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 1401V3-28-B01 (7-13)

Lab Sample ID: 500-225421-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.56	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	9.7		0.59	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	39		0.59	0.067	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.75		0.24	0.055	mg/Kg	1	✳	6010B	Total/NA
Boron	12	B	2.9	0.27	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.25	B	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	66000	B	59	10	mg/Kg	5	✳	6010B	Total/NA
Chromium	15		0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	12		0.29	0.077	mg/Kg	1	✳	6010B	Total/NA
Copper	28		0.59	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	20000		12	6.1	mg/Kg	1	✳	6010B	Total/NA
Lead	15		0.29	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	30000		5.9	2.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	370		0.59	0.085	mg/Kg	1	✳	6010B	Total/NA
Nickel	31		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	2200		29	10	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.41	J	0.59	0.35	mg/Kg	1	✳	6010B	Total/NA
Silver	0.33		0.29	0.076	mg/Kg	1	✳	6010B	Total/NA
Sodium	360		59	8.7	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.37	J	0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Vanadium	19		0.29	0.069	mg/Kg	1	✳	6010B	Total/NA
Zinc	68		1.2	0.52	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Client Sample ID: 1401V3-28-B01 (7-13) (Continued)

Lab Sample ID: 500-225421-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.29	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	0.67		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.61		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.024	B	0.017	0.0058	mg/Kg	1	✳	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010B	Metals (ICP)	SW846	EET CHI
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
Frozen Preserve	Freezing Samples	None	EET CF

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225421-1	1401V3-28-B01 (0-7)	Solid	11/14/22 11:40	11/14/22 17:56
500-225421-2	1401V3-28-B01 (0-7)D	Solid	11/14/22 11:43	11/14/22 17:56
500-225421-3	1401V3-28-B01 (7-13)	Solid	11/14/22 11:50	11/14/22 17:56

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Client Sample ID: 1401V3-28-B01 (0-7)

Lab Sample ID: 500-225421-1

Date Collected: 11/14/22 11:40

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 75.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.060		0.060	0.011	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
Benzene	<0.0060		0.0060	0.0011	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
Bromodichloromethane	<0.0060		0.0060	0.00047	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
Bromoform	<0.012		0.012	0.00076	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
Bromomethane	<0.024		0.024	0.0019	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
2-Butanone (MEK)	<0.024		0.024	0.0018	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
Carbon disulfide	<0.0060		0.0060	0.0014	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
Carbon tetrachloride	<0.0060		0.0060	0.0017	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
Chlorobenzene	<0.0060		0.0060	0.00092	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
Chloroethane	<0.024		0.024	0.0043	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
Chloroform	<0.0060		0.0060	0.0020	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
Chloromethane	<0.024		0.024	0.0039	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
cis-1,2-Dichloroethene	<0.0060		0.0060	0.00089	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
cis-1,3-Dichloropropene	<0.0060		0.0060	0.00067	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
Dibromochloromethane	<0.0060		0.0060	0.00026	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
1,1-Dichloroethane	<0.0060		0.0060	0.00051	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
1,2-Dichloroethane	<0.0060		0.0060	0.00037	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
1,1-Dichloroethene	<0.0060		0.0060	0.00084	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
1,2-Dichloropropane	<0.0060		0.0060	0.00051	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
1,3-Dichloropropene, Total	<0.012		0.012	0.0013	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
Ethylbenzene	<0.0060		0.0060	0.0029	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
2-Hexanone	<0.024		0.024	0.0027	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
Methylene Chloride	<0.060		0.060	0.035	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
4-Methyl-2-pentanone (MIBK)	<0.024		0.024	0.0020	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
Methyl tert-butyl ether	<0.0060		0.0060	0.00026	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
Styrene	<0.0060		0.0060	0.0042	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
1,1,2,2-Tetrachloroethane	<0.0060		0.0060	0.00042	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
Tetrachloroethene	<0.0060		0.0060	0.0011	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
Toluene	<0.0060		0.0060	0.0039	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
trans-1,2-Dichloroethene	<0.0060		0.0060	0.00073	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
trans-1,3-Dichloropropene	<0.0060		0.0060	0.00066	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
1,1,1-Trichloroethane	<0.0060		0.0060	0.00055	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
1,1,2-Trichloroethane	<0.0060		0.0060	0.00038	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
Trichloroethene	<0.0060		0.0060	0.0017	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
Vinyl acetate	<0.012		0.012	0.0020	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
Vinyl chloride	<0.012		0.012	0.0042	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1
Xylenes, Total	<0.012		0.012	0.0043	mg/Kg	☼	11/21/22 08:21	11/22/22 02:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		77 - 120	11/21/22 08:21	11/22/22 02:48	1
Dibromofluoromethane (Surr)	114		80 - 123	11/21/22 08:21	11/22/22 02:48	1
Toluene-d8 (Surr)	93		76 - 120	11/21/22 08:21	11/22/22 02:48	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.22		0.22	0.095	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.064	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
1,3-Dichlorobenzene	<0.22		0.22	0.048	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
1,4-Dichlorobenzene	<0.22		0.22	0.055	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
1,2-Dichlorobenzene	<0.22		0.22	0.051	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Client Sample ID: 1401V3-28-B01 (0-7)

Lab Sample ID: 500-225421-1

Date Collected: 11/14/22 11:40

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 75.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.22		0.22	0.069	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.050	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
N-Nitrosodi-n-propylamine	<0.086		0.086	0.052	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Hexachloroethane	<0.22	F1	0.22	0.065	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
2-Chlorophenol	<0.22		0.22	0.073	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Nitrobenzene	<0.043		0.043	0.011	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.044	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.046	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Isophorone	<0.22		0.22	0.048	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
2,4-Dimethylphenol	<0.43		0.43	0.16	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Hexachlorobutadiene	<0.22		0.22	0.067	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Naphthalene	<0.043		0.043	0.0066	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
2,4-Dichlorophenol	<0.43		0.43	0.10	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
4-Chloroaniline	<0.86		0.86	0.20	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
2,4,6-Trichlorophenol	<0.43		0.43	0.15	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
2,4,5-Trichlorophenol	<0.43		0.43	0.098	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Hexachlorocyclopentadiene	<0.86	F1	0.86	0.25	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
2-Methylnaphthalene	<0.086		0.086	0.0079	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
2-Nitroaniline	<0.22		0.22	0.058	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
2-Chloronaphthalene	<0.22		0.22	0.047	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
4-Chloro-3-methylphenol	<0.43		0.43	0.15	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
2,6-Dinitrotoluene	<0.22		0.22	0.084	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
2-Nitrophenol	<0.43		0.43	0.10	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
3-Nitroaniline	<0.43		0.43	0.13	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Dimethyl phthalate	<0.22		0.22	0.056	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
2,4-Dinitrophenol	<0.86		0.86	0.75	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Acenaphthylene	<0.043		0.043	0.0056	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
2,4-Dinitrotoluene	<0.22		0.22	0.068	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Acenaphthene	<0.043		0.043	0.0077	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Dibenzofuran	<0.22	F1	0.22	0.050	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
4-Nitrophenol	<0.86		0.86	0.41	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Fluorene	<0.043		0.043	0.0060	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
4-Nitroaniline	<0.43		0.43	0.18	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.056	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Hexachlorobenzene	<0.086		0.086	0.0099	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Diethyl phthalate	<0.22		0.22	0.073	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
4-Chlorophenyl phenyl ether	<0.22	F1	0.22	0.050	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Pentachlorophenol	<0.86		0.86	0.69	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
N-Nitrosodiphenylamine	<0.22		0.22	0.051	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
4,6-Dinitro-2-methylphenol	<0.86		0.86	0.34	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Phenanthrene	0.019	J	0.043	0.0060	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Anthracene	<0.043		0.043	0.0072	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Carbazole	<0.22		0.22	0.11	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Di-n-butyl phthalate	<0.22		0.22	0.065	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Fluoranthene	0.049	F1	0.043	0.0079	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Pyrene	0.042	J	0.043	0.0085	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Butyl benzyl phthalate	<0.22		0.22	0.081	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Benzo[a]anthracene	0.021	J	0.043	0.0058	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Chrysene	0.041	J F1	0.043	0.012	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Client Sample ID: 1401V3-28-B01 (0-7)

Lab Sample ID: 500-225421-1

Date Collected: 11/14/22 11:40

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 75.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.22	F1	0.22	0.060	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.078	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Di-n-octyl phthalate	<0.22		0.22	0.070	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Benzo[b]fluoranthene	0.049		0.043	0.0092	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Benzo[k]fluoranthene	0.019 J		0.043	0.013	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Benzo[a]pyrene	0.028 J		0.043	0.0083	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Indeno[1,2,3-cd]pyrene	0.015 J		0.043	0.011	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Dibenz(a,h)anthracene	<0.043		0.043	0.0083	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Benzo[g,h,i]perylene	0.015 J F1		0.043	0.014	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
3 & 4 Methylphenol	<0.22		0.22	0.071	mg/Kg	☼	11/23/22 08:45	12/02/22 16:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	86		31 - 166				11/23/22 08:45	12/02/22 16:13	1
Phenol-d5	80		30 - 153				11/23/22 08:45	12/02/22 16:13	1
Nitrobenzene-d5 (Surr)	59		37 - 147				11/23/22 08:45	12/02/22 16:13	1
2-Fluorobiphenyl (Surr)	80		43 - 145				11/23/22 08:45	12/02/22 16:13	1
2,4,6-Tribromophenol	94		31 - 143				11/23/22 08:45	12/02/22 16:13	1
Terphenyl-d14 (Surr)	127		42 - 157				11/23/22 08:45	12/02/22 16:13	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.41 J		1.3	0.25	mg/Kg	☼	11/23/22 09:41	11/30/22 15:33	1
Arsenic	6.4		0.64	0.22	mg/Kg	☼	11/23/22 09:41	11/30/22 15:33	1
Barium	120		0.64	0.073	mg/Kg	☼	11/23/22 09:41	11/30/22 15:33	1
Beryllium	0.94		0.25	0.060	mg/Kg	☼	11/23/22 09:41	11/30/22 15:33	1
Boron	7.4 B		3.2	0.30	mg/Kg	☼	11/23/22 09:41	11/30/22 15:33	1
Cadmium	0.25 B		0.13	0.023	mg/Kg	☼	11/23/22 09:41	11/30/22 15:33	1
Calcium	6600 B		13	2.2	mg/Kg	☼	11/23/22 09:41	11/30/22 15:33	1
Chromium	19		0.64	0.32	mg/Kg	☼	11/23/22 09:41	11/30/22 15:33	1
Cobalt	9.0		0.32	0.083	mg/Kg	☼	11/23/22 09:41	11/30/22 15:33	1
Copper	34		0.64	0.18	mg/Kg	☼	11/23/22 09:41	11/30/22 15:33	1
Iron	18000		13	6.6	mg/Kg	☼	11/23/22 09:41	11/30/22 15:33	1
Lead	34		0.32	0.15	mg/Kg	☼	11/23/22 09:41	11/30/22 15:33	1
Magnesium	4200		6.4	3.2	mg/Kg	☼	11/23/22 09:41	11/30/22 15:33	1
Manganese	450		0.64	0.092	mg/Kg	☼	11/23/22 09:41	11/30/22 15:33	1
Nickel	19		0.64	0.19	mg/Kg	☼	11/23/22 09:41	11/30/22 15:33	1
Potassium	1900		32	11	mg/Kg	☼	11/23/22 09:41	11/30/22 15:33	1
Selenium	0.64		0.64	0.37	mg/Kg	☼	11/23/22 09:41	11/30/22 15:33	1
Silver	0.43		0.32	0.082	mg/Kg	☼	11/23/22 09:41	11/30/22 15:33	1
Sodium	360		64	9.4	mg/Kg	☼	11/23/22 09:41	11/30/22 15:33	1
Thallium	<0.64		0.64	0.32	mg/Kg	☼	11/23/22 09:41	11/30/22 15:33	1
Vanadium	30		0.32	0.075	mg/Kg	☼	11/23/22 09:41	11/30/22 15:33	1
Zinc	86		1.3	0.56	mg/Kg	☼	11/23/22 09:41	11/30/22 15:33	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.38 J		0.50	0.050	mg/L		11/22/22 18:35	11/30/22 15:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 18:35	11/30/22 15:57	1
Boron	0.33 J B		0.50	0.050	mg/L		11/22/22 18:35	11/30/22 15:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 18:35	11/30/22 15:57	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Client Sample ID: 1401V3-28-B01 (0-7)

Lab Sample ID: 500-225421-1

Date Collected: 11/14/22 11:40

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 75.4

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:57	1
Cobalt	0.024	J	0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:57	1
Iron	<0.40		0.40	0.20	mg/L		11/22/22 18:35	11/30/22 15:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 18:35	11/30/22 15:57	1
Manganese	6.0		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:57	1
Nickel	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:57	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 18:35	11/30/22 15:57	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:57	1
Zinc	0.058	J	0.50	0.020	mg/L		11/22/22 18:35	11/30/22 15:57	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.58		0.025	0.010	mg/L		11/22/22 19:37	12/01/22 15:33	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 18:35	11/29/22 15:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 18:35	11/29/22 15:57	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 09:15	11/28/22 08:53	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.068	B	0.021	0.0069	mg/Kg	☆	11/28/22 16:35	11/29/22 09:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.1		0.2	0.2	SU			11/17/22 18:31	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Client Sample ID: 1401V3-28-B01 (0-7)D

Lab Sample ID: 500-225421-2

Date Collected: 11/14/22 11:43

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 81.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.029	J	0.052	0.0096	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
Benzene	<0.0052		0.0052	0.00094	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
Bromodichloromethane	<0.0052		0.0052	0.00041	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
Bromoform	<0.010		0.010	0.00067	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
Bromomethane	<0.021		0.021	0.0017	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
2-Butanone (MEK)	0.0092	J	0.021	0.0016	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
Carbon disulfide	<0.0052		0.0052	0.0013	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
Carbon tetrachloride	<0.0052		0.0052	0.0015	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
Chlorobenzene	<0.0052		0.0052	0.00080	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
Chloroethane	<0.021		0.021	0.0038	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
Chloroform	<0.0052		0.0052	0.0018	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
Chloromethane	<0.021		0.021	0.0034	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00078	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00058	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
Dibromochloromethane	<0.0052		0.0052	0.00023	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
1,1-Dichloroethane	<0.0052		0.0052	0.00045	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
1,2-Dichloroethane	<0.0052		0.0052	0.00032	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
1,1-Dichloroethene	<0.0052		0.0052	0.00073	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
1,2-Dichloropropane	<0.0052		0.0052	0.00045	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
1,3-Dichloropropane, Total	<0.010		0.010	0.0011	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
Ethylbenzene	<0.0052		0.0052	0.0025	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
2-Hexanone	<0.021		0.021	0.0024	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
Methylene Chloride	<0.052		0.052	0.030	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
4-Methyl-2-pentanone (MIBK)	<0.021		0.021	0.0018	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00023	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
Styrene	<0.0052		0.0052	0.0036	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.00036	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
Tetrachloroethene	<0.0052		0.0052	0.00099	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
Toluene	<0.0052		0.0052	0.0034	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00064	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00057	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00048	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00033	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
Trichloroethene	<0.0052		0.0052	0.0015	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
Vinyl acetate	<0.010		0.010	0.0018	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
Vinyl chloride	<0.010		0.010	0.0036	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1
Xylenes, Total	<0.010		0.010	0.0038	mg/Kg	☼	11/21/22 08:21	11/22/22 03:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		77 - 120	11/21/22 08:21	11/22/22 03:13	1
Dibromofluoromethane (Surr)	113		80 - 123	11/21/22 08:21	11/22/22 03:13	1
Toluene-d8 (Surr)	92		76 - 120	11/21/22 08:21	11/22/22 03:13	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Client Sample ID: 1401V3-28-B01 (0-7)D

Lab Sample ID: 500-225421-2

Date Collected: 11/14/22 11:43

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 81.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.042	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Naphthalene	<0.040		0.040	0.0063	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
2,4-Dichlorophenol	<0.40		0.40	0.097	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.048	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Phenanthrene	<0.040		0.040	0.0057	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Fluoranthene	0.016	J	0.040	0.0075	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Pyrene	<0.040		0.040	0.0081	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Benzo[a]anthracene	<0.040		0.040	0.0055	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Client Sample ID: 1401V3-28-B01 (0-7)D

Lab Sample ID: 500-225421-2

Date Collected: 11/14/22 11:43

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 81.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Benzo[b]fluoranthene	0.012	J	0.040	0.0088	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Benzo[a]pyrene	<0.040		0.040	0.0079	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0079	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	11/23/22 08:45	11/30/22 13:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	103		31 - 166	11/23/22 08:45	11/30/22 13:30	1
Phenol-d5	89		30 - 153	11/23/22 08:45	11/30/22 13:30	1
Nitrobenzene-d5 (Surr)	79		37 - 147	11/23/22 08:45	11/30/22 13:30	1
2-Fluorobiphenyl (Surr)	74		43 - 145	11/23/22 08:45	11/30/22 13:30	1
2,4,6-Tribromophenol	89		31 - 143	11/23/22 08:45	11/30/22 13:30	1
Terphenyl-d14 (Surr)	128		42 - 157	11/23/22 08:45	11/30/22 13:30	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J	1.2	0.23	mg/Kg	☼	11/23/22 09:41	11/30/22 15:36	1
Arsenic	5.1		0.59	0.20	mg/Kg	☼	11/23/22 09:41	11/30/22 15:36	1
Barium	73		0.59	0.067	mg/Kg	☼	11/23/22 09:41	11/30/22 15:36	1
Beryllium	0.80		0.24	0.055	mg/Kg	☼	11/23/22 09:41	11/30/22 15:36	1
Boron	4.8	B	3.0	0.28	mg/Kg	☼	11/23/22 09:41	11/30/22 15:36	1
Cadmium	0.35	B	0.12	0.021	mg/Kg	☼	11/23/22 09:41	11/30/22 15:36	1
Calcium	10000	B	12	2.0	mg/Kg	☼	11/23/22 09:41	11/30/22 15:36	1
Chromium	16		0.59	0.29	mg/Kg	☼	11/23/22 09:41	11/30/22 15:36	1
Cobalt	9.2		0.30	0.077	mg/Kg	☼	11/23/22 09:41	11/30/22 15:36	1
Copper	29		0.59	0.17	mg/Kg	☼	11/23/22 09:41	11/30/22 15:36	1
Iron	15000		12	6.1	mg/Kg	☼	11/23/22 09:41	11/30/22 15:36	1
Lead	21		0.30	0.14	mg/Kg	☼	11/23/22 09:41	11/30/22 15:36	1
Magnesium	7200		5.9	2.9	mg/Kg	☼	11/23/22 09:41	11/30/22 15:36	1
Manganese	240		0.59	0.086	mg/Kg	☼	11/23/22 09:41	11/30/22 15:36	1
Nickel	21		0.59	0.17	mg/Kg	☼	11/23/22 09:41	11/30/22 15:36	1
Potassium	1400		30	10	mg/Kg	☼	11/23/22 09:41	11/30/22 15:36	1
Selenium	0.49	J	0.59	0.35	mg/Kg	☼	11/23/22 09:41	11/30/22 15:36	1
Silver	0.36		0.30	0.076	mg/Kg	☼	11/23/22 09:41	11/30/22 15:36	1
Sodium	150		59	8.7	mg/Kg	☼	11/23/22 09:41	11/30/22 15:36	1
Thallium	0.41	J	0.59	0.29	mg/Kg	☼	11/23/22 09:41	11/30/22 15:36	1
Vanadium	21		0.30	0.070	mg/Kg	☼	11/23/22 09:41	11/30/22 15:36	1
Zinc	99		1.2	0.52	mg/Kg	☼	11/23/22 09:41	11/30/22 15:36	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.24	J	0.50	0.050	mg/L		11/22/22 18:35	11/30/22 16:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 18:35	11/30/22 16:00	1
Boron	0.30	J B	0.50	0.050	mg/L		11/22/22 18:35	11/30/22 16:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 18:35	11/30/22 16:00	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Client Sample ID: 1401V3-28-B01 (0-7)D

Lab Sample ID: 500-225421-2

Date Collected: 11/14/22 11:43

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 81.5

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:00	1
Cobalt	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:00	1
Iron	<0.40		0.40	0.20	mg/L		11/22/22 18:35	11/30/22 16:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 18:35	11/30/22 16:00	1
Manganese	0.19		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:00	1
Nickel	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:00	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 18:35	11/30/22 16:00	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:00	1
Zinc	0.020	J	0.50	0.020	mg/L		11/22/22 18:35	11/30/22 16:00	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.41		0.025	0.010	mg/L		11/22/22 19:37	12/01/22 15:36	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 18:35	11/29/22 15:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 18:35	11/29/22 15:59	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 09:15	11/28/22 08:55	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031	B	0.019	0.0065	mg/Kg	☆	11/28/22 16:35	11/29/22 09:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.2		0.2	0.2	SU			11/17/22 18:33	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Client Sample ID: 1401V3-28-B01 (7-13)

Lab Sample ID: 500-225421-3

Date Collected: 11/14/22 11:50

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 85.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.039		0.039	0.0071	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
Benzene	<0.0039		0.0039	0.00070	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
Bromodichloromethane	<0.0039		0.0039	0.00030	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
Bromoform	<0.0077		0.0077	0.00050	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
Bromomethane	<0.015		0.015	0.0012	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
2-Butanone (MEK)	<0.015		0.015	0.0012	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
Carbon disulfide	<0.0039		0.0039	0.00093	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
Carbon tetrachloride	<0.0039		0.0039	0.0011	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
Chlorobenzene	<0.0039		0.0039	0.00060	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
Chloroethane	<0.015		0.015	0.0028	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
Chloroform	<0.0039		0.0039	0.0013	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
Chloromethane	<0.015		0.015	0.0026	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00058	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00043	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
Dibromochloromethane	<0.0039		0.0039	0.00017	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
1,1-Dichloroethane	<0.0039		0.0039	0.00033	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
1,2-Dichloroethane	<0.0039		0.0039	0.00024	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
1,1-Dichloroethene	<0.0039		0.0039	0.00054	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
1,2-Dichloropropane	<0.0039		0.0039	0.00033	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
1,3-Dichloropropane, Total	<0.0077		0.0077	0.00085	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
Ethylbenzene	<0.0039		0.0039	0.0019	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
2-Hexanone	<0.015		0.015	0.0018	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
Methylene Chloride	<0.039		0.039	0.022	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
4-Methyl-2-pentanone (MIBK)	<0.015		0.015	0.0013	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00017	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
Styrene	<0.0039		0.0039	0.0027	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00027	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
Tetrachloroethene	<0.0039		0.0039	0.00074	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
Toluene	<0.0039		0.0039	0.0026	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00047	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.00043	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00036	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00025	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
Trichloroethene	<0.0039		0.0039	0.0011	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
Vinyl acetate	<0.0077		0.0077	0.0013	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
Vinyl chloride	<0.0077		0.0077	0.0027	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1
Xylenes, Total	<0.0077		0.0077	0.0028	mg/Kg	☼	11/21/22 08:21	11/22/22 03:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		77 - 120	11/21/22 08:21	11/22/22 03:38	1
Dibromofluoromethane (Surr)	111		80 - 123	11/21/22 08:21	11/22/22 03:38	1
Toluene-d8 (Surr)	92		76 - 120	11/21/22 08:21	11/22/22 03:38	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Client Sample ID: 1401V3-28-B01 (7-13)

Lab Sample ID: 500-225421-3

Date Collected: 11/14/22 11:50

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 85.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Client Sample ID: 1401V3-28-B01 (7-13)

Lab Sample ID: 500-225421-3

Date Collected: 11/14/22 11:50

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 85.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	11/23/22 08:45	11/30/22 13:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	117		31 - 166				11/23/22 08:45	11/30/22 13:54	1
Phenol-d5	106		30 - 153				11/23/22 08:45	11/30/22 13:54	1
Nitrobenzene-d5 (Surr)	88		37 - 147				11/23/22 08:45	11/30/22 13:54	1
2-Fluorobiphenyl (Surr)	89		43 - 145				11/23/22 08:45	11/30/22 13:54	1
2,4,6-Tribromophenol	88		31 - 143				11/23/22 08:45	11/30/22 13:54	1
Terphenyl-d14 (Surr)	154		42 - 157				11/23/22 08:45	11/30/22 13:54	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.56	J	1.2	0.23	mg/Kg	☼	11/23/22 09:41	11/30/22 15:39	1
Arsenic	9.7		0.59	0.20	mg/Kg	☼	11/23/22 09:41	11/30/22 15:39	1
Barium	39		0.59	0.067	mg/Kg	☼	11/23/22 09:41	11/30/22 15:39	1
Beryllium	0.75		0.24	0.055	mg/Kg	☼	11/23/22 09:41	11/30/22 15:39	1
Boron	12	B	2.9	0.27	mg/Kg	☼	11/23/22 09:41	11/30/22 15:39	1
Cadmium	0.25	B	0.12	0.021	mg/Kg	☼	11/23/22 09:41	11/30/22 15:39	1
Calcium	66000	B	59	10	mg/Kg	☼	11/23/22 09:41	12/01/22 11:08	5
Chromium	15		0.59	0.29	mg/Kg	☼	11/23/22 09:41	11/30/22 15:39	1
Cobalt	12		0.29	0.077	mg/Kg	☼	11/23/22 09:41	11/30/22 15:39	1
Copper	28		0.59	0.16	mg/Kg	☼	11/23/22 09:41	11/30/22 15:39	1
Iron	20000		12	6.1	mg/Kg	☼	11/23/22 09:41	11/30/22 15:39	1
Lead	15		0.29	0.14	mg/Kg	☼	11/23/22 09:41	11/30/22 15:39	1
Magnesium	30000		5.9	2.9	mg/Kg	☼	11/23/22 09:41	11/30/22 15:39	1
Manganese	370		0.59	0.085	mg/Kg	☼	11/23/22 09:41	11/30/22 15:39	1
Nickel	31		0.59	0.17	mg/Kg	☼	11/23/22 09:41	11/30/22 15:39	1
Potassium	2200		29	10	mg/Kg	☼	11/23/22 09:41	11/30/22 15:39	1
Selenium	0.41	J	0.59	0.35	mg/Kg	☼	11/23/22 09:41	11/30/22 15:39	1
Silver	0.33		0.29	0.076	mg/Kg	☼	11/23/22 09:41	11/30/22 15:39	1
Sodium	360		59	8.7	mg/Kg	☼	11/23/22 09:41	11/30/22 15:39	1
Thallium	0.37	J	0.59	0.29	mg/Kg	☼	11/23/22 09:41	11/30/22 15:39	1
Vanadium	19		0.29	0.069	mg/Kg	☼	11/23/22 09:41	11/30/22 15:39	1
Zinc	68		1.2	0.52	mg/Kg	☼	11/23/22 09:41	11/30/22 15:39	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.32	J	0.50	0.050	mg/L		11/22/22 18:35	11/30/22 16:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 18:35	11/30/22 16:04	1
Boron	0.29	J B	0.50	0.050	mg/L		11/22/22 18:35	11/30/22 16:04	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		11/22/22 18:35	11/30/22 16:04	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Client Sample ID: 1401V3-28-B01 (7-13)

Lab Sample ID: 500-225421-3

Date Collected: 11/14/22 11:50

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 85.0

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:04	1
Cobalt	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:04	1
Iron	<0.40		0.40	0.20	mg/L		11/22/22 18:35	11/30/22 16:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 18:35	11/30/22 16:04	1
Manganese	0.67		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:04	1
Nickel	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:04	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 18:35	11/30/22 16:04	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:04	1
Zinc	<0.50		0.50	0.020	mg/L		11/22/22 18:35	11/30/22 16:04	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.61		0.025	0.010	mg/L		11/22/22 19:37	12/01/22 15:39	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 18:35	11/29/22 16:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 18:35	11/29/22 16:01	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 09:15	11/28/22 08:57	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024	B	0.017	0.0058	mg/Kg	☆	11/28/22 16:35	11/29/22 09:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.2		0.2	0.2	SU			11/17/22 18:38	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

GC/MS VOA

Pre Prep Batch: 372631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225421-1	1401V3-28-B01 (0-7)	Total/NA	Solid	Frozen Preserve	
500-225421-2	1401V3-28-B01 (0-7)D	Total/NA	Solid	Frozen Preserve	
500-225421-3	1401V3-28-B01 (7-13)	Total/NA	Solid	Frozen Preserve	

Prep Batch: 372633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225421-1	1401V3-28-B01 (0-7)	Total/NA	Solid	5035	372631
500-225421-2	1401V3-28-B01 (0-7)D	Total/NA	Solid	5035	372631
500-225421-3	1401V3-28-B01 (7-13)	Total/NA	Solid	5035	372631
MB 310-372633/1-A	Method Blank	Total/NA	Solid	5035	
LCS 310-372633/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 310-372633/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 372636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225421-1	1401V3-28-B01 (0-7)	Total/NA	Solid	8260D	372633
500-225421-2	1401V3-28-B01 (0-7)D	Total/NA	Solid	8260D	372633
500-225421-3	1401V3-28-B01 (7-13)	Total/NA	Solid	8260D	372633
MB 310-372633/1-A	Method Blank	Total/NA	Solid	8260D	372633
LCS 310-372633/2-A	Lab Control Sample	Total/NA	Solid	8260D	372633
LCSD 310-372633/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	372633

GC/MS Semi VOA

Prep Batch: 686685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225421-1	1401V3-28-B01 (0-7)	Total/NA	Solid	3541	
500-225421-2	1401V3-28-B01 (0-7)D	Total/NA	Solid	3541	
500-225421-3	1401V3-28-B01 (7-13)	Total/NA	Solid	3541	
MB 500-686685/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-686685/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-225421-1 MS	1401V3-28-B01 (0-7)	Total/NA	Solid	3541	
500-225421-1 MSD	1401V3-28-B01 (0-7)	Total/NA	Solid	3541	

Analysis Batch: 687499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225421-2	1401V3-28-B01 (0-7)D	Total/NA	Solid	8270D	686685
500-225421-3	1401V3-28-B01 (7-13)	Total/NA	Solid	8270D	686685
MB 500-686685/1-A	Method Blank	Total/NA	Solid	8270D	686685
LCS 500-686685/2-A	Lab Control Sample	Total/NA	Solid	8270D	686685

Analysis Batch: 687897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225421-1	1401V3-28-B01 (0-7)	Total/NA	Solid	8270D	686685
500-225421-1 MS	1401V3-28-B01 (0-7)	Total/NA	Solid	8270D	686685
500-225421-1 MSD	1401V3-28-B01 (0-7)	Total/NA	Solid	8270D	686685

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Metals

Leach Batch: 686377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225421-1	1401V3-28-B01 (0-7)	TCLP	Solid	1311	
500-225421-2	1401V3-28-B01 (0-7)D	TCLP	Solid	1311	
500-225421-3	1401V3-28-B01 (7-13)	TCLP	Solid	1311	
LB 500-686377/1-B	Method Blank	TCLP	Solid	1311	
LB 500-686377/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 686388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225421-1	1401V3-28-B01 (0-7)	SPLP East	Solid	1312	
500-225421-2	1401V3-28-B01 (0-7)D	SPLP East	Solid	1312	
500-225421-3	1401V3-28-B01 (7-13)	SPLP East	Solid	1312	
LB 500-686388/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 686617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225421-1	1401V3-28-B01 (0-7)	TCLP	Solid	3010A	686377
500-225421-2	1401V3-28-B01 (0-7)D	TCLP	Solid	3010A	686377
500-225421-3	1401V3-28-B01 (7-13)	TCLP	Solid	3010A	686377
LB 500-686377/1-B	Method Blank	TCLP	Solid	3010A	686377
LCS 500-686617/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 686620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225421-1	1401V3-28-B01 (0-7)	SPLP East	Solid	3010A	686388
500-225421-2	1401V3-28-B01 (0-7)D	SPLP East	Solid	3010A	686388
500-225421-3	1401V3-28-B01 (7-13)	SPLP East	Solid	3010A	686388
LB 500-686388/1-B	Method Blank	SPLP East	Solid	3010A	686388
LCS 500-686620/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 686720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225421-1	1401V3-28-B01 (0-7)	Total/NA	Solid	3050B	
500-225421-2	1401V3-28-B01 (0-7)D	Total/NA	Solid	3050B	
500-225421-3	1401V3-28-B01 (7-13)	Total/NA	Solid	3050B	
MB 500-686720/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-686720/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 686728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225421-1	1401V3-28-B01 (0-7)	TCLP	Solid	7470A	686377
500-225421-2	1401V3-28-B01 (0-7)D	TCLP	Solid	7470A	686377
500-225421-3	1401V3-28-B01 (7-13)	TCLP	Solid	7470A	686377
LB 500-686377/1-C	Method Blank	TCLP	Solid	7470A	686377
MB 500-686728/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-686728/14-A	Lab Control Sample	Total/NA	Solid	7470A	
LCS 500-686728/32-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 687107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225421-1	1401V3-28-B01 (0-7)	Total/NA	Solid	7471B	
500-225421-2	1401V3-28-B01 (0-7)D	Total/NA	Solid	7471B	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Metals (Continued)

Prep Batch: 687107 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225421-3	1401V3-28-B01 (7-13)	Total/NA	Solid	7471B	
MB 500-687107/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-687107/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 687111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225421-1	1401V3-28-B01 (0-7)	TCLP	Solid	7470A	686728
500-225421-2	1401V3-28-B01 (0-7)D	TCLP	Solid	7470A	686728
500-225421-3	1401V3-28-B01 (7-13)	TCLP	Solid	7470A	686728
LB 500-686377/1-C	Method Blank	TCLP	Solid	7470A	686728
MB 500-686728/12-A	Method Blank	Total/NA	Solid	7470A	686728
LCS 500-686728/14-A	Lab Control Sample	Total/NA	Solid	7470A	686728
LCS 500-686728/32-A	Lab Control Sample	Total/NA	Solid	7470A	686728

Analysis Batch: 687292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225421-1	1401V3-28-B01 (0-7)	Total/NA	Solid	7471B	687107
500-225421-2	1401V3-28-B01 (0-7)D	Total/NA	Solid	7471B	687107
500-225421-3	1401V3-28-B01 (7-13)	Total/NA	Solid	7471B	687107
MB 500-687107/12-A	Method Blank	Total/NA	Solid	7471B	687107
LCS 500-687107/13-A	Lab Control Sample	Total/NA	Solid	7471B	687107

Analysis Batch: 687529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225421-1	1401V3-28-B01 (0-7)	TCLP	Solid	6020A	686617
500-225421-2	1401V3-28-B01 (0-7)D	TCLP	Solid	6020A	686617
500-225421-3	1401V3-28-B01 (7-13)	TCLP	Solid	6020A	686617
LB 500-686377/1-B	Method Blank	TCLP	Solid	6020A	686617
LCS 500-686617/2-A	Lab Control Sample	Total/NA	Solid	6020A	686617

Analysis Batch: 687677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225421-1	1401V3-28-B01 (0-7)	Total/NA	Solid	6010B	686720
500-225421-2	1401V3-28-B01 (0-7)D	Total/NA	Solid	6010B	686720
500-225421-3	1401V3-28-B01 (7-13)	Total/NA	Solid	6010B	686720
MB 500-686720/1-A	Method Blank	Total/NA	Solid	6010B	686720
LCS 500-686720/2-A	Lab Control Sample	Total/NA	Solid	6010B	686720

Analysis Batch: 687706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225421-1	1401V3-28-B01 (0-7)	TCLP	Solid	6010B	686617
500-225421-2	1401V3-28-B01 (0-7)D	TCLP	Solid	6010B	686617
500-225421-3	1401V3-28-B01 (7-13)	TCLP	Solid	6010B	686617
LB 500-686377/1-B	Method Blank	TCLP	Solid	6010B	686617
LCS 500-686617/2-A	Lab Control Sample	Total/NA	Solid	6010B	686617

Analysis Batch: 687779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225421-3	1401V3-28-B01 (7-13)	Total/NA	Solid	6010B	686720

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Metals

Analysis Batch: 687846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225421-1	1401V3-28-B01 (0-7)	SPLP East	Solid	6010B	686620
500-225421-2	1401V3-28-B01 (0-7)D	SPLP East	Solid	6010B	686620
500-225421-3	1401V3-28-B01 (7-13)	SPLP East	Solid	6010B	686620
LB 500-686388/1-B	Method Blank	SPLP East	Solid	6010B	686620
LCS 500-686620/2-A	Lab Control Sample	Total/NA	Solid	6010B	686620

General Chemistry

Analysis Batch: 685788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225421-1	1401V3-28-B01 (0-7)	Total/NA	Solid	9045D	
500-225421-2	1401V3-28-B01 (0-7)D	Total/NA	Solid	9045D	
500-225421-3	1401V3-28-B01 (7-13)	Total/NA	Solid	9045D	
LCS 500-685788/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-685788/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-225421-3 DU	1401V3-28-B01 (7-13)	Total/NA	Solid	9045D	

Analysis Batch: 686809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225421-1	1401V3-28-B01 (0-7)	Total/NA	Solid	Moisture	
500-225421-2	1401V3-28-B01 (0-7)D	Total/NA	Solid	Moisture	
500-225421-3	1401V3-28-B01 (7-13)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	TOL
		(77-120)	(80-123)	(76-120)
500-225421-1	1401V3-28-B01 (0-7)	95	114	93
500-225421-2	1401V3-28-B01 (0-7)D	92	113	92
500-225421-3	1401V3-28-B01 (7-13)	93	111	92
LCS 310-372633/2-A	Lab Control Sample	104	103	100
LCSD 310-372633/3-A	Lab Control Sample Dup	102	103	99
MB 310-372633/1-A	Method Blank	95	105	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP	PHL	NBZ	FBP	TBP	TPHL
		(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-225421-1	1401V3-28-B01 (0-7)	86	80	59	80	94	127
500-225421-1 MS	1401V3-28-B01 (0-7)	100	96	72	105	105	122
500-225421-1 MSD	1401V3-28-B01 (0-7)	93	88	64	94	96	111
500-225421-2	1401V3-28-B01 (0-7)D	103	89	79	74	89	128
500-225421-3	1401V3-28-B01 (7-13)	117	106	88	89	88	154
LCS 500-686685/2-A	Lab Control Sample	106	98	91	88	96	128
MB 500-686685/1-A	Method Blank	116	103	78	83	62	156

Surrogate Legend

2FP = 2-Fluorophenol

PHL = Phenol-d5

NBZ = Nitrobenzene-d5 (Surr)

FBP = 2-Fluorobiphenyl (Surr)

TBP = 2,4,6-Tribromophenol

TPHL = Terphenyl-d14 (Surr)

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-372633/1-A
Matrix: Solid
Analysis Batch: 372636

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372633

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.097		0.097	0.018	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Benzene	<0.0097		0.0097	0.0018	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Bromodichloromethane	<0.0097		0.0097	0.00076	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Bromoform	<0.019		0.019	0.0012	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Bromomethane	<0.039		0.039	0.0031	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
2-Butanone (MEK)	<0.039		0.039	0.0029	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Carbon disulfide	<0.0097		0.0097	0.0023	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Carbon tetrachloride	<0.0097		0.0097	0.0027	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Chlorobenzene	<0.0097		0.0097	0.0015	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Chloroethane	<0.039		0.039	0.0070	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Chloroform	<0.0097		0.0097	0.0033	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Chloromethane	<0.039		0.039	0.0064	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
cis-1,2-Dichloroethene	<0.0097		0.0097	0.0015	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
cis-1,3-Dichloropropene	<0.0097		0.0097	0.0011	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Dibromochloromethane	<0.0097		0.0097	0.00043	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,1-Dichloroethane	<0.0097		0.0097	0.00084	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,2-Dichloroethane	<0.0097		0.0097	0.00060	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,1-Dichloroethene	<0.0097		0.0097	0.0014	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,2-Dichloropropane	<0.0097		0.0097	0.00084	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,3-Dichloropropene, Total	<0.019		0.019	0.0021	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Ethylbenzene	<0.0097		0.0097	0.0047	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
2-Hexanone	<0.039		0.039	0.0045	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Methylene Chloride	<0.097		0.097	0.056	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
4-Methyl-2-pentanone (MIBK)	<0.039		0.039	0.0033	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Methyl tert-butyl ether	<0.0097		0.0097	0.00043	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Styrene	<0.0097		0.0097	0.0068	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,1,2,2-Tetrachloroethane	<0.0097		0.0097	0.00068	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Tetrachloroethene	<0.0097		0.0097	0.0018	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Toluene	<0.0097		0.0097	0.0064	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
trans-1,2-Dichloroethene	<0.0097		0.0097	0.0012	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
trans-1,3-Dichloropropene	<0.0097		0.0097	0.0011	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,1,1-Trichloroethane	<0.0097		0.0097	0.00089	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,1,2-Trichloroethane	<0.0097		0.0097	0.00062	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Trichloroethene	<0.0097		0.0097	0.0027	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Vinyl acetate	<0.019		0.019	0.0033	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Vinyl chloride	<0.019		0.019	0.0068	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Xylenes, Total	<0.019		0.019	0.0070	mg/Kg		11/21/22 08:21	11/21/22 20:37	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	95		77 - 120	11/21/22 08:21	11/21/22 20:37	1
Dibromofluoromethane (Surr)	105		80 - 123	11/21/22 08:21	11/21/22 20:37	1
Toluene-d8 (Surr)	94		76 - 120	11/21/22 08:21	11/21/22 20:37	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-372633/2-A
Matrix: Solid
Analysis Batch: 372636

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372633

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Acetone	0.181	0.163		mg/Kg		90	52 - 150	
Benzene	0.0906	0.0956		mg/Kg		105	77 - 134	
Bromodichloromethane	0.0906	0.0922		mg/Kg		102	78 - 122	
Bromoform	0.0906	0.0965		mg/Kg		107	72 - 122	
2-Butanone (MEK)	0.181	0.193		mg/Kg		107	60 - 150	
Carbon disulfide	0.0906	0.0853		mg/Kg		94	61 - 142	
Carbon tetrachloride	0.0906	0.0894		mg/Kg		99	77 - 127	
Chlorobenzene	0.0906	0.0862		mg/Kg		95	76 - 120	
Chloroform	0.0906	0.0876		mg/Kg		97	78 - 127	
cis-1,2-Dichloroethene	0.0906	0.0965		mg/Kg		106	74 - 136	
cis-1,3-Dichloropropene	0.0906	0.0970		mg/Kg		107	79 - 126	
Dibromochloromethane	0.0906	0.0973		mg/Kg		107	78 - 122	
1,1-Dichloroethane	0.0906	0.0981		mg/Kg		108	74 - 137	
1,2-Dichloroethane	0.0906	0.0910		mg/Kg		100	79 - 132	
1,1-Dichloroethene	0.0906	0.0850		mg/Kg		94	62 - 130	
1,2-Dichloropropane	0.0906	0.0993		mg/Kg		110	78 - 135	
Ethylbenzene	0.0906	0.0902		mg/Kg		99	78 - 122	
2-Hexanone	0.181	0.188		mg/Kg		104	73 - 134	
Methylene Chloride	0.0906	0.0974	J	mg/Kg		108	55 - 150	
4-Methyl-2-pentanone (MIBK)	0.181	0.194		mg/Kg		107	75 - 135	
Methyl tert-butyl ether	0.0906	0.0963		mg/Kg		106	73 - 135	
Styrene	0.0906	0.0914		mg/Kg		101	75 - 120	
1,1,2,2-Tetrachloroethane	0.0906	0.0938		mg/Kg		104	80 - 127	
Tetrachloroethene	0.0906	0.0804		mg/Kg		89	72 - 121	
Toluene	0.0906	0.0880		mg/Kg		97	77 - 121	
trans-1,2-Dichloroethene	0.0906	0.0950		mg/Kg		105	71 - 134	
trans-1,3-Dichloropropene	0.0906	0.0872		mg/Kg		96	77 - 122	
1,1,1-Trichloroethane	0.0906	0.0909		mg/Kg		100	79 - 132	
1,1,2-Trichloroethane	0.0906	0.0988		mg/Kg		109	80 - 124	
Trichloroethene	0.0906	0.0914		mg/Kg		101	76 - 132	
Vinyl acetate	0.181	0.132		mg/Kg		73	37 - 150	
Xylenes, Total	0.181	0.179		mg/Kg		98	76 - 124	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	104		77 - 120
Dibromofluoromethane (Surr)	103		80 - 123
Toluene-d8 (Surr)	100		76 - 120

Lab Sample ID: LCSD 310-372633/3-A
Matrix: Solid
Analysis Batch: 372636

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 372633

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Acetone	0.163	0.157		mg/Kg		96	52 - 150	4	40	
Benzene	0.0816	0.0867		mg/Kg		106	77 - 134	10	40	
Bromodichloromethane	0.0816	0.0803		mg/Kg		98	78 - 122	14	35	
Bromoform	0.0816	0.0872		mg/Kg		107	72 - 122	10	40	
2-Butanone (MEK)	0.163	0.182		mg/Kg		111	60 - 150	6	39	

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 310-372633/3-A
Matrix: Solid
Analysis Batch: 372636

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 372633

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide	0.0816	0.0779		mg/Kg		96	61 - 142	9	40
Carbon tetrachloride	0.0816	0.0798		mg/Kg		98	77 - 127	11	40
Chlorobenzene	0.0816	0.0784		mg/Kg		96	76 - 120	10	40
Chloroform	0.0816	0.0766		mg/Kg		94	78 - 127	13	34
cis-1,2-Dichloroethene	0.0816	0.0862		mg/Kg		106	74 - 136	11	36
cis-1,3-Dichloropropene	0.0816	0.0852		mg/Kg		104	79 - 126	13	39
Dibromochloromethane	0.0816	0.0855		mg/Kg		105	78 - 122	13	37
1,1-Dichloroethane	0.0816	0.0879		mg/Kg		108	74 - 137	11	33
1,2-Dichloroethane	0.0816	0.0815		mg/Kg		100	79 - 132	11	34
1,1-Dichloroethene	0.0816	0.0761		mg/Kg		93	62 - 130	11	37
1,2-Dichloropropane	0.0816	0.0901		mg/Kg		110	78 - 135	10	34
Ethylbenzene	0.0816	0.0811		mg/Kg		99	78 - 122	11	40
2-Hexanone	0.163	0.176		mg/Kg		108	73 - 134	7	40
Methylene Chloride	0.0816	0.0899	J	mg/Kg		110	55 - 150	8	35
4-Methyl-2-pentanone (MIBK)	0.163	0.180		mg/Kg		111	75 - 135	7	40
Methyl tert-butyl ether	0.0816	0.0874		mg/Kg		107	73 - 135	10	33
Styrene	0.0816	0.0826		mg/Kg		101	75 - 120	10	40
1,1,2,2-Tetrachloroethane	0.0816	0.0869		mg/Kg		106	80 - 127	8	38
Tetrachloroethene	0.0816	0.0736		mg/Kg		90	72 - 121	9	40
Toluene	0.0816	0.0799		mg/Kg		98	77 - 121	10	40
trans-1,2-Dichloroethene	0.0816	0.0835		mg/Kg		102	71 - 134	13	36
trans-1,3-Dichloropropene	0.0816	0.0775		mg/Kg		95	77 - 122	12	40
1,1,1-Trichloroethane	0.0816	0.0826		mg/Kg		101	79 - 132	10	39
1,1,2-Trichloroethane	0.0816	0.0883		mg/Kg		108	80 - 124	11	35
Trichloroethene	0.0816	0.0825		mg/Kg		101	76 - 132	10	40
Vinyl acetate	0.163	0.105		mg/Kg		64	37 - 150	23	40
Xylenes, Total	0.163	0.162		mg/Kg		99	76 - 124	10	40

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		77 - 120
Dibromofluoromethane (Surr)	103		80 - 123
Toluene-d8 (Surr)	99		76 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-686685/1-A
Matrix: Solid
Analysis Batch: 687499

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686685

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		11/23/22 08:45	11/30/22 12:43	1

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-686685/1-A
Matrix: Solid
Analysis Batch: 687499

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686685

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Isophorone	<0.17		0.17	0.037	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Carbazole	<0.17		0.17	0.083	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		11/23/22 08:45	11/30/22 12:43	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-686685/1-A
Matrix: Solid
Analysis Batch: 687499

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686685

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		11/23/22 08:45	11/30/22 12:43	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		11/23/22 08:45	11/30/22 12:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	116		31 - 166	11/23/22 08:45	11/30/22 12:43	1
Phenol-d5	103		30 - 153	11/23/22 08:45	11/30/22 12:43	1
Nitrobenzene-d5 (Surr)	78		37 - 147	11/23/22 08:45	11/30/22 12:43	1
2-Fluorobiphenyl (Surr)	83		43 - 145	11/23/22 08:45	11/30/22 12:43	1
2,4,6-Tribromophenol	62		31 - 143	11/23/22 08:45	11/30/22 12:43	1
Terphenyl-d14 (Surr)	156		42 - 157	11/23/22 08:45	11/30/22 12:43	1

Lab Sample ID: LCS 500-686685/2-A
Matrix: Solid
Analysis Batch: 687499

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686685

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.25		mg/Kg		93	56 - 122
Bis(2-chloroethyl)ether	1.33	1.46		mg/Kg		109	55 - 111
1,3-Dichlorobenzene	1.33	1.26		mg/Kg		94	65 - 124
1,4-Dichlorobenzene	1.33	1.28		mg/Kg		96	61 - 110
1,2-Dichlorobenzene	1.33	1.29		mg/Kg		97	62 - 110
2-Methylphenol	1.33	1.35		mg/Kg		102	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.29		mg/Kg		96	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.41		mg/Kg		106	56 - 118
Hexachloroethane	1.33	1.22		mg/Kg		91	60 - 114
2-Chlorophenol	1.33	1.21		mg/Kg		91	64 - 110
Nitrobenzene	1.33	1.38		mg/Kg		103	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.29		mg/Kg		97	60 - 112
1,2,4-Trichlorobenzene	1.33	1.17		mg/Kg		88	66 - 117
Isophorone	1.33	1.40		mg/Kg		105	55 - 110
2,4-Dimethylphenol	1.33	1.32		mg/Kg		99	60 - 110
Hexachlorobutadiene	1.33	1.11		mg/Kg		84	56 - 120
Naphthalene	1.33	1.35		mg/Kg		101	63 - 110
2,4-Dichlorophenol	1.33	1.15		mg/Kg		87	58 - 120
4-Chloroaniline	1.33	0.477	J	mg/Kg		36	30 - 150
2,4,6-Trichlorophenol	1.33	1.18		mg/Kg		88	57 - 120
2,4,5-Trichlorophenol	1.33	1.17		mg/Kg		88	50 - 120
Hexachlorocyclopentadiene	1.33	0.809		mg/Kg		61	10 - 133
2-Methylnaphthalene	1.33	1.19		mg/Kg		89	69 - 112
2-Nitroaniline	1.33	1.38		mg/Kg		103	57 - 124
2-Chloronaphthalene	1.33	1.29		mg/Kg		97	69 - 114
4-Chloro-3-methylphenol	1.33	1.25		mg/Kg		94	65 - 122
2,6-Dinitrotoluene	1.33	1.35		mg/Kg		102	70 - 123
2-Nitrophenol	1.33	1.22		mg/Kg		92	60 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-686685/2-A
Matrix: Solid
Analysis Batch: 687499

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686685

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
3-Nitroaniline	1.33	0.648		mg/Kg		49	40 - 122
Dimethyl phthalate	1.33	1.43		mg/Kg		107	69 - 116
2,4-Dinitrophenol	2.67	0.761		mg/Kg		29	10 - 100
Acenaphthylene	1.33	1.32		mg/Kg		99	68 - 120
2,4-Dinitrotoluene	1.33	1.42		mg/Kg		107	69 - 124
Acenaphthene	1.33	1.21		mg/Kg		91	65 - 124
Dibenzofuran	1.33	1.25		mg/Kg		94	66 - 115
4-Nitrophenol	2.67	2.00		mg/Kg		75	30 - 122
Fluorene	1.33	1.22		mg/Kg		91	62 - 120
4-Nitroaniline	1.33	1.09		mg/Kg		82	60 - 160
4-Bromophenyl phenyl ether	1.33	1.29		mg/Kg		97	68 - 118
Hexachlorobenzene	1.33	1.35		mg/Kg		101	63 - 124
Diethyl phthalate	1.33	1.30		mg/Kg		97	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.19		mg/Kg		89	62 - 119
Pentachlorophenol	2.67	1.33		mg/Kg		50	13 - 112
N-Nitrosodiphenylamine	1.33	1.20		mg/Kg		90	65 - 112
4,6-Dinitro-2-methylphenol	2.67	1.14		mg/Kg		43	10 - 110
Phenanthrene	1.33	1.25		mg/Kg		94	62 - 120
Anthracene	1.33	1.26		mg/Kg		94	70 - 114
Carbazole	1.33	1.26		mg/Kg		94	65 - 142
Di-n-butyl phthalate	1.33	1.25		mg/Kg		94	65 - 120
Fluoranthene	1.33	1.29		mg/Kg		97	62 - 120
Pyrene	1.33	1.65		mg/Kg		124	61 - 128
Butyl benzyl phthalate	1.33	1.44		mg/Kg		108	71 - 129
Benzo[a]anthracene	1.33	1.52		mg/Kg		114	67 - 122
Chrysene	1.33	1.52		mg/Kg		114	63 - 120
3,3'-Dichlorobenzidine	1.33	0.966		mg/Kg		72	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.38		mg/Kg		103	72 - 131
Di-n-octyl phthalate	1.33	1.08		mg/Kg		81	68 - 134
Benzo[b]fluoranthene	1.33	1.22		mg/Kg		92	69 - 129
Benzo[k]fluoranthene	1.33	1.26		mg/Kg		94	68 - 127
Benzo[a]pyrene	1.33	1.26		mg/Kg		95	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.36		mg/Kg		102	68 - 130
Dibenz(a,h)anthracene	1.33	1.27		mg/Kg		95	64 - 131
Benzo[g,h,i]perylene	1.33	1.36		mg/Kg		102	72 - 131
3 & 4 Methylphenol	1.33	1.29		mg/Kg		97	57 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	106		31 - 166
Phenol-d5	98		30 - 153
Nitrobenzene-d5 (Surr)	91		37 - 147
2-Fluorobiphenyl (Surr)	88		43 - 145
2,4,6-Tribromophenol	96		31 - 143
Terphenyl-d14 (Surr)	128		42 - 157

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-225421-1 MS

Matrix: Solid

Analysis Batch: 687897

Client Sample ID: 1401V3-28-B01 (0-7)

Prep Type: Total/NA

Prep Batch: 686685

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Phenol	<0.22		1.76	1.52		mg/Kg	✱	86	56 - 122
Bis(2-chloroethyl)ether	<0.22		1.76	1.96		mg/Kg	✱	111	55 - 111
1,3-Dichlorobenzene	<0.22		1.76	1.37		mg/Kg	✱	78	60 - 110
1,4-Dichlorobenzene	<0.22		1.76	1.43		mg/Kg	✱	81	61 - 110
1,2-Dichlorobenzene	<0.22		1.76	1.46		mg/Kg	✱	83	62 - 110
2-Methylphenol	<0.22		1.76	1.57		mg/Kg	✱	89	60 - 120
2,2'-oxybis[1-chloropropane]	<0.22		1.76	1.31		mg/Kg	✱	74	40 - 124
N-Nitrosodi-n-propylamine	<0.086		1.76	1.44		mg/Kg	✱	82	56 - 118
Hexachloroethane	<0.22	F1	1.76	0.969	F1	mg/Kg	✱	55	60 - 114
2-Chlorophenol	<0.22		1.76	1.67		mg/Kg	✱	95	64 - 110
Nitrobenzene	<0.043		1.76	1.50		mg/Kg	✱	85	60 - 116
Bis(2-chloroethoxy)methane	<0.22		1.76	1.44		mg/Kg	✱	82	60 - 112
1,2,4-Trichlorobenzene	<0.22		1.76	1.91		mg/Kg	✱	108	66 - 117
Isophorone	<0.22		1.76	1.52		mg/Kg	✱	86	55 - 110
2,4-Dimethylphenol	<0.43		1.76	1.72		mg/Kg	✱	97	60 - 110
Hexachlorobutadiene	<0.22		1.76	1.67		mg/Kg	✱	95	56 - 120
Naphthalene	<0.043		1.76	1.64		mg/Kg	✱	93	63 - 110
2,4-Dichlorophenol	<0.43		1.76	2.01		mg/Kg	✱	114	58 - 120
4-Chloroaniline	<0.86		1.76	0.623	J	mg/Kg	✱	35	30 - 150
2,4,6-Trichlorophenol	<0.43		1.76	2.01		mg/Kg	✱	114	57 - 120
2,4,5-Trichlorophenol	<0.43		1.76	2.07		mg/Kg	✱	118	50 - 120
Hexachlorocyclopentadiene	<0.86	F1	1.76	<0.89	F1	mg/Kg	✱	0	10 - 133
2-Methylnaphthalene	<0.086		1.76	1.90		mg/Kg	✱	108	69 - 112
2-Nitroaniline	<0.22		1.76	1.53		mg/Kg	✱	87	57 - 124
2-Chloronaphthalene	<0.22		1.76	1.86		mg/Kg	✱	105	69 - 114
4-Chloro-3-methylphenol	<0.43		1.76	1.69		mg/Kg	✱	96	65 - 122
2,6-Dinitrotoluene	<0.22		1.76	1.76		mg/Kg	✱	100	70 - 123
2-Nitrophenol	<0.43		1.76	1.71		mg/Kg	✱	97	60 - 120
3-Nitroaniline	<0.43		1.76	1.18		mg/Kg	✱	67	40 - 122
Dimethyl phthalate	<0.22		1.76	1.98		mg/Kg	✱	112	69 - 116
2,4-Dinitrophenol	<0.86		3.53	1.06		mg/Kg	✱	30	10 - 100
Acenaphthylene	<0.043		1.76	1.92		mg/Kg	✱	109	68 - 120
2,4-Dinitrotoluene	<0.22		1.76	1.85		mg/Kg	✱	105	69 - 124
Acenaphthene	<0.043		1.76	1.95		mg/Kg	✱	111	65 - 124
Dibenzofuran	<0.22	F1	1.76	2.09	F1	mg/Kg	✱	118	66 - 115
4-Nitrophenol	<0.86		3.53	1.75		mg/Kg	✱	50	30 - 122
Fluorene	<0.043		1.76	2.05		mg/Kg	✱	116	62 - 120
4-Nitroaniline	<0.43		1.76	1.17		mg/Kg	✱	66	60 - 160
4-Bromophenyl phenyl ether	<0.22		1.76	1.89		mg/Kg	✱	107	68 - 118
Hexachlorobenzene	<0.086		1.76	1.94		mg/Kg	✱	110	63 - 124
Diethyl phthalate	<0.22		1.76	1.87		mg/Kg	✱	106	58 - 120
4-Chlorophenyl phenyl ether	<0.22	F1	1.76	2.18	F1	mg/Kg	✱	123	62 - 119
Pentachlorophenol	<0.86		3.53	2.21		mg/Kg	✱	63	13 - 112
N-Nitrosodiphenylamine	<0.22		1.76	1.79		mg/Kg	✱	102	65 - 112
4,6-Dinitro-2-methylphenol	<0.86		3.53	0.911		mg/Kg	✱	26	10 - 110
Phenanthrene	0.019	J	1.76	2.01		mg/Kg	✱	113	62 - 120
Anthracene	<0.043		1.76	2.01		mg/Kg	✱	114	70 - 114
Carbazole	<0.22		1.76	2.06		mg/Kg	✱	117	65 - 142

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-225421-1 MS

Matrix: Solid

Analysis Batch: 687897

Client Sample ID: 1401V3-28-B01 (0-7)

Prep Type: Total/NA

Prep Batch: 686685

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Di-n-butyl phthalate	<0.22		1.76	1.98		mg/Kg	☼	113	65 - 120	
Fluoranthene	0.049	F1	1.76	2.28	F1	mg/Kg	☼	127	62 - 120	
Pyrene	0.042	J	1.76	2.12		mg/Kg	☼	118	61 - 128	
Butyl benzyl phthalate	<0.22		1.76	1.81		mg/Kg	☼	102	71 - 129	
Benzo[a]anthracene	0.021	J	1.76	2.15		mg/Kg	☼	120	67 - 122	
Chrysene	0.041	J F1	1.76	2.19	F1	mg/Kg	☼	122	63 - 120	
3,3'-Dichlorobenzidine	<0.22	F1	1.76	0.387	F1	mg/Kg	☼	22	35 - 128	
Bis(2-ethylhexyl) phthalate	<0.22		1.76	1.70		mg/Kg	☼	97	72 - 131	
Di-n-octyl phthalate	<0.22		1.76	2.06		mg/Kg	☼	117	68 - 134	
Benzo[b]fluoranthene	0.049		1.76	2.04		mg/Kg	☼	113	69 - 129	
Benzo[k]fluoranthene	0.019	J	1.76	1.97		mg/Kg	☼	111	68 - 127	
Benzo[a]pyrene	0.028	J	1.76	1.85		mg/Kg	☼	103	65 - 133	
Indeno[1,2,3-cd]pyrene	0.015	J	1.76	1.54		mg/Kg	☼	87	68 - 130	
Dibenz(a,h)anthracene	<0.043		1.76	1.48		mg/Kg	☼	84	64 - 131	
Benzo[g,h,i]perylene	0.015	J F1	1.76	1.31		mg/Kg	☼	74	72 - 131	
3 & 4 Methylphenol	<0.22		1.76	1.69		mg/Kg	☼	96	57 - 120	

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Fluorophenol	100		31 - 166
Phenol-d5	96		30 - 153
Nitrobenzene-d5 (Surr)	72		37 - 147
2-Fluorobiphenyl (Surr)	105		43 - 145
2,4,6-Tribromophenol	105		31 - 143
Terphenyl-d14 (Surr)	122		42 - 157

Lab Sample ID: 500-225421-1 MSD

Matrix: Solid

Analysis Batch: 687897

Client Sample ID: 1401V3-28-B01 (0-7)

Prep Type: Total/NA

Prep Batch: 686685

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Phenol	<0.22		1.75	1.35		mg/Kg	☼	77	56 - 122	12	30	
Bis(2-chloroethyl)ether	<0.22		1.75	1.69		mg/Kg	☼	97	55 - 111	15	30	
1,3-Dichlorobenzene	<0.22		1.75	1.27		mg/Kg	☼	72	60 - 110	8	30	
1,4-Dichlorobenzene	<0.22		1.75	1.30		mg/Kg	☼	74	61 - 110	9	30	
1,2-Dichlorobenzene	<0.22		1.75	1.34		mg/Kg	☼	76	62 - 110	9	30	
2-Methylphenol	<0.22		1.75	1.47		mg/Kg	☼	84	60 - 120	7	30	
2,2'-oxybis[1-chloropropane]	<0.22		1.75	1.23		mg/Kg	☼	70	40 - 124	6	30	
N-Nitrosodi-n-propylamine	<0.086		1.75	1.32		mg/Kg	☼	75	56 - 118	9	30	
Hexachloroethane	<0.22	F1	1.75	0.853	F1	mg/Kg	☼	49	60 - 114	13	30	
2-Chlorophenol	<0.22		1.75	1.54		mg/Kg	☼	88	64 - 110	8	30	
Nitrobenzene	<0.043		1.75	1.33		mg/Kg	☼	76	60 - 116	12	30	
Bis(2-chloroethoxy)methane	<0.22		1.75	1.33		mg/Kg	☼	76	60 - 112	8	30	
1,2,4-Trichlorobenzene	<0.22		1.75	1.66		mg/Kg	☼	95	66 - 117	14	30	
Isophorone	<0.22		1.75	1.40		mg/Kg	☼	80	55 - 110	8	30	
2,4-Dimethylphenol	<0.43		1.75	1.46		mg/Kg	☼	83	60 - 110	16	30	
Hexachlorobutadiene	<0.22		1.75	1.41		mg/Kg	☼	80	56 - 120	17	30	
Naphthalene	<0.043		1.75	1.52		mg/Kg	☼	87	63 - 110	8	30	
2,4-Dichlorophenol	<0.43		1.75	1.86		mg/Kg	☼	106	58 - 120	8	30	

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-225421-1 MSD

Matrix: Solid

Analysis Batch: 687897

Client Sample ID: 1401V3-28-B01 (0-7)

Prep Type: Total/NA

Prep Batch: 686685

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
4-Chloroaniline	<0.86		1.75	0.745	J	mg/Kg	☼	43	30 - 150	18	30
2,4,6-Trichlorophenol	<0.43		1.75	1.79		mg/Kg	☼	102	57 - 120	11	30
2,4,5-Trichlorophenol	<0.43		1.75	1.90		mg/Kg	☼	108	50 - 120	9	30
Hexachlorocyclopentadiene	<0.86	F1	1.75	<0.88	F1	mg/Kg	☼	0	10 - 133	NC	30
2-Methylnaphthalene	<0.086		1.75	1.72		mg/Kg	☼	98	69 - 112	10	30
2-Nitroaniline	<0.22		1.75	1.39		mg/Kg	☼	80	57 - 124	9	30
2-Chloronaphthalene	<0.22		1.75	1.64		mg/Kg	☼	94	69 - 114	12	30
4-Chloro-3-methylphenol	<0.43		1.75	1.51		mg/Kg	☼	86	65 - 122	11	30
2,6-Dinitrotoluene	<0.22		1.75	1.61		mg/Kg	☼	92	70 - 123	9	30
2-Nitrophenol	<0.43		1.75	1.48		mg/Kg	☼	85	60 - 120	14	30
3-Nitroaniline	<0.43		1.75	1.08		mg/Kg	☼	62	40 - 122	8	30
Dimethyl phthalate	<0.22		1.75	1.81		mg/Kg	☼	104	69 - 116	9	30
2,4-Dinitrophenol	<0.86		3.50	0.892		mg/Kg	☼	25	10 - 100	17	30
Acenaphthylene	<0.043		1.75	1.72		mg/Kg	☼	98	68 - 120	11	30
2,4-Dinitrotoluene	<0.22		1.75	1.65		mg/Kg	☼	94	69 - 124	11	30
Acenaphthene	<0.043		1.75	1.77		mg/Kg	☼	101	65 - 124	9	30
Dibenzofuran	<0.22	F1	1.75	1.89		mg/Kg	☼	108	66 - 115	10	30
4-Nitrophenol	<0.86		3.50	1.86		mg/Kg	☼	53	30 - 122	6	30
Fluorene	<0.043		1.75	1.89		mg/Kg	☼	108	62 - 120	8	30
4-Nitroaniline	<0.43		1.75	1.15		mg/Kg	☼	65	60 - 160	2	30
4-Bromophenyl phenyl ether	<0.22		1.75	1.73		mg/Kg	☼	99	68 - 118	9	30
Hexachlorobenzene	<0.086		1.75	1.82		mg/Kg	☼	104	63 - 124	6	30
Diethyl phthalate	<0.22		1.75	1.74		mg/Kg	☼	99	58 - 120	7	30
4-Chlorophenyl phenyl ether	<0.22	F1	1.75	2.00		mg/Kg	☼	114	62 - 119	8	30
Pentachlorophenol	<0.86		3.50	1.90		mg/Kg	☼	54	13 - 112	15	30
N-Nitrosodiphenylamine	<0.22		1.75	1.66		mg/Kg	☼	95	65 - 112	8	30
4,6-Dinitro-2-methylphenol	<0.86		3.50	0.732	J	mg/Kg	☼	21	10 - 110	22	30
Phenanthrene	0.019	J	1.75	1.89		mg/Kg	☼	107	62 - 120	6	30
Anthracene	<0.043		1.75	1.87		mg/Kg	☼	107	70 - 114	7	30
Carbazole	<0.22		1.75	1.90		mg/Kg	☼	108	65 - 142	8	30
Di-n-butyl phthalate	<0.22		1.75	1.76		mg/Kg	☼	101	65 - 120	12	30
Fluoranthene	0.049	F1	1.75	2.12		mg/Kg	☼	118	62 - 120	7	30
Pyrene	0.042	J	1.75	1.98		mg/Kg	☼	111	61 - 128	7	30
Butyl benzyl phthalate	<0.22		1.75	1.69		mg/Kg	☼	97	71 - 129	7	30
Benzo[a]anthracene	0.021	J	1.75	2.00		mg/Kg	☼	113	67 - 122	7	30
Chrysene	0.041	J F1	1.75	2.04		mg/Kg	☼	114	63 - 120	7	30
3,3'-Dichlorobenzidine	<0.22	F1	1.75	0.402	F1	mg/Kg	☼	23	35 - 128	4	30
Bis(2-ethylhexyl) phthalate	<0.22		1.75	1.59		mg/Kg	☼	91	72 - 131	7	30
Di-n-octyl phthalate	<0.22		1.75	1.89		mg/Kg	☼	108	68 - 134	9	30
Benzo[b]fluoranthene	0.049		1.75	1.80		mg/Kg	☼	100	69 - 129	12	30
Benzo[k]fluoranthene	0.019	J	1.75	1.88		mg/Kg	☼	106	68 - 127	5	30
Benzo[a]pyrene	0.028	J	1.75	1.71		mg/Kg	☼	96	65 - 133	8	30
Indeno[1,2,3-cd]pyrene	0.015	J	1.75	1.39		mg/Kg	☼	79	68 - 130	10	30
Dibenz(a,h)anthracene	<0.043		1.75	1.36		mg/Kg	☼	78	64 - 131	8	30
Benzo[g,h,i]perylene	0.015	J F1	1.75	1.15	F1	mg/Kg	☼	65	72 - 131	13	30
3 & 4 Methylphenol	<0.22		1.75	1.49		mg/Kg	☼	85	57 - 120	13	30

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-225421-1 MSD
Matrix: Solid
Analysis Batch: 687897

Client Sample ID: 1401V3-28-B01 (0-7)
Prep Type: Total/NA
Prep Batch: 686685

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorophenol	93		31 - 166
Phenol-d5	88		30 - 153
Nitrobenzene-d5 (Surr)	64		37 - 147
2-Fluorobiphenyl (Surr)	94		43 - 145
2,4,6-Tribromophenol	96		31 - 143
Terphenyl-d14 (Surr)	111		42 - 157

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-686617/2-A
Matrix: Solid
Analysis Batch: 687706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686617

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Barium	0.500	0.512		mg/L		102	80 - 120
Beryllium	0.0500	0.0493		mg/L		99	80 - 120
Boron	1.00	1.17		mg/L		117	80 - 120
Cadmium	0.0500	0.0525		mg/L		105	80 - 120
Chromium	0.200	0.197		mg/L		98	80 - 120
Cobalt	0.500	0.519		mg/L		104	80 - 120
Iron	1.00	0.988		mg/L		99	80 - 120
Lead	0.100	0.0960		mg/L		96	80 - 120
Manganese	0.500	0.490		mg/L		98	80 - 120
Nickel	0.500	0.508		mg/L		102	80 - 120
Selenium	0.100	0.110		mg/L		110	80 - 120
Silver	0.0500	0.0533		mg/L		107	80 - 120
Zinc	0.500	0.548		mg/L		110	80 - 120

Lab Sample ID: LCS 500-686620/2-A
Matrix: Solid
Analysis Batch: 687846

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686620

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Manganese	0.500	0.505		mg/L		101	80 - 120

Lab Sample ID: MB 500-686720/1-A
Matrix: Solid
Analysis Batch: 687677

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686720

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Arsenic	<1.0		1.0	0.34	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Barium	<1.0		1.0	0.11	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Beryllium	<0.40		0.40	0.093	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Boron	0.511	J	5.0	0.47	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Cadmium	0.0438	J	0.20	0.036	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Calcium	3.90	J	20	3.4	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Chromium	<1.0		1.0	0.50	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Cobalt	<0.50		0.50	0.13	mg/Kg		11/23/22 09:41	11/30/22 14:51	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 500-686720/1-A
Matrix: Solid
Analysis Batch: 687677

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686720

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<1.0		1.0	0.28	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Iron	<20		20	10	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Lead	<0.50		0.50	0.23	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Magnesium	<10		10	5.0	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Manganese	<1.0		1.0	0.15	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Nickel	<1.0		1.0	0.29	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Potassium	<50		50	18	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Selenium	<1.0		1.0	0.59	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Silver	<0.50		0.50	0.13	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Sodium	<100		100	15	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Thallium	<1.0		1.0	0.50	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Vanadium	<0.50		0.50	0.12	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Zinc	<2.0		2.0	0.88	mg/Kg		11/23/22 09:41	11/30/22 14:51	1

Lab Sample ID: LCS 500-686720/2-A
Matrix: Solid
Analysis Batch: 687677

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686720

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	44.1		mg/Kg		88	80 - 120
Arsenic	10.0	8.86		mg/Kg		89	80 - 120
Barium	200	193		mg/Kg		97	80 - 120
Beryllium	5.00	4.47		mg/Kg		89	80 - 120
Boron	100	83.3		mg/Kg		83	80 - 120
Cadmium	5.00	4.40		mg/Kg		88	80 - 120
Calcium	1000	954		mg/Kg		95	80 - 120
Chromium	20.0	19.1		mg/Kg		95	80 - 120
Cobalt	50.0	47.7		mg/Kg		95	80 - 120
Copper	25.0	24.2		mg/Kg		97	80 - 120
Iron	100	104		mg/Kg		104	80 - 120
Lead	10.0	9.15		mg/Kg		91	80 - 120
Magnesium	1000	896		mg/Kg		90	80 - 120
Manganese	50.0	46.0		mg/Kg		92	80 - 120
Nickel	50.0	46.4		mg/Kg		93	80 - 120
Potassium	1000	917		mg/Kg		92	80 - 120
Selenium	10.0	8.20		mg/Kg		82	80 - 120
Silver	5.00	4.19		mg/Kg		84	80 - 120
Sodium	1000	932		mg/Kg		93	80 - 120
Thallium	10.0	9.16		mg/Kg		92	80 - 120
Vanadium	50.0	47.4		mg/Kg		95	80 - 120
Zinc	50.0	46.5		mg/Kg		93	80 - 120

Lab Sample ID: LB 500-686377/1-B
Matrix: Solid
Analysis Batch: 687706

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 686617

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		11/22/22 18:35	11/30/22 15:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 18:35	11/30/22 15:38	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-686377/1-B
Matrix: Solid
Analysis Batch: 687706

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 686617

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.276	J	0.50	0.050	mg/L		11/22/22 18:35	11/30/22 15:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 18:35	11/30/22 15:38	1
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:38	1
Cobalt	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:38	1
Iron	<0.40		0.40	0.20	mg/L		11/22/22 18:35	11/30/22 15:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 18:35	11/30/22 15:38	1
Manganese	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:38	1
Nickel	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:38	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 18:35	11/30/22 15:38	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:38	1
Zinc	<0.50		0.50	0.020	mg/L		11/22/22 18:35	11/30/22 15:38	1

Lab Sample ID: LB 500-686388/1-B
Matrix: Solid
Analysis Batch: 687846

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 686620

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		11/22/22 19:37	12/01/22 15:14	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-686617/2-A
Matrix: Solid
Analysis Batch: 687529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686617

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.486		mg/L		97	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: LB 500-686377/1-B
Matrix: Solid
Analysis Batch: 687529

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 686617

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 18:35	11/29/22 15:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 18:35	11/29/22 15:45	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-686728/12-A
Matrix: Solid
Analysis Batch: 687111

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686728

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 09:15	11/28/22 08:32	1

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LCS 500-686728/14-A
Matrix: Solid
Analysis Batch: 687111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686728

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00191		mg/L		96	80 - 120

Lab Sample ID: LCS 500-686728/32-A
Matrix: Solid
Analysis Batch: 687111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686728

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00191		mg/L		96	80 - 120

Lab Sample ID: LB 500-686377/1-C
Matrix: Solid
Analysis Batch: 687111

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 686728

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 09:15	11/28/22 08:34	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-687107/12-A
Matrix: Solid
Analysis Batch: 687292

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687107

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00635	J	0.017	0.0056	mg/Kg		11/28/22 16:35	11/29/22 09:07	1

Lab Sample ID: LCS 500-687107/13-A
Matrix: Solid
Analysis Batch: 687292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687107

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.166		mg/Kg		101	80 - 120

Method: 9045D - pH

Lab Sample ID: 500-225421-3 DU
Matrix: Solid
Analysis Batch: 685788

Client Sample ID: 1401V3-28-B01 (7-13)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.2		8.1		SU		1	

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Client Sample ID: 1401V3-28-B01 (0-7)

Lab Sample ID: 500-225421-1

Date Collected: 11/14/22 11:40

Matrix: Solid

Date Received: 11/14/22 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686388	AW	EET CHI	11/21/22 12:03 - 11/22/22 06:03 ¹
SPLP East	Prep	3010A			686620	LMB	EET CHI	11/22/22 19:37 - 11/22/22 20:07 ¹
SPLP East	Analysis	6010B		1	687846	JJJ	EET CHI	12/01/22 15:33
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6010B		1	687706	JJJ	EET CHI	11/30/22 15:57
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 15:57
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686728	MJG	EET CHI	11/23/22 09:15 - 11/23/22 11:15 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 08:53
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 18:31
Total/NA	Analysis	Moisture		1	686809	LWN	EET CHI	11/23/22 15:25

Client Sample ID: 1401V3-28-B01 (0-7)

Lab Sample ID: 500-225421-1

Date Collected: 11/14/22 11:40

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 75.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372631	MZR8	EET CF	11/15/22 09:07
Total/NA	Prep	5035			372633	MZR8	EET CF	11/21/22 08:21
Total/NA	Analysis	8260D		1	372636	MZR8	EET CF	11/22/22 02:48
Total/NA	Prep	3541			686685	KN	EET CHI	11/23/22 08:45 - 11/23/22 15:00 ¹
Total/NA	Analysis	8270D		1	687897	SS	EET CHI	12/02/22 16:13
Total/NA	Prep	3050B			686720	BDE	EET CHI	11/23/22 09:41 - 11/23/22 10:11 ¹
Total/NA	Analysis	6010B		1	687677	JJJ	EET CHI	11/30/22 15:33
Total/NA	Prep	7471B			687107	MJG	EET CHI	11/28/22 16:35
Total/NA	Analysis	7471B		1	687292	MJG	EET CHI	11/29/22 09:31

Client Sample ID: 1401V3-28-B01 (0-7)D

Lab Sample ID: 500-225421-2

Date Collected: 11/14/22 11:43

Matrix: Solid

Date Received: 11/14/22 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686388	AW	EET CHI	11/21/22 12:03 - 11/22/22 06:03 ¹
SPLP East	Prep	3010A			686620	LMB	EET CHI	11/22/22 19:37 - 11/22/22 20:07 ¹
SPLP East	Analysis	6010B		1	687846	JJJ	EET CHI	12/01/22 15:36
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6010B		1	687706	JJJ	EET CHI	11/30/22 16:00
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 15:59

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Client Sample ID: 1401V3-28-B01 (0-7)D

Lab Sample ID: 500-225421-2

Date Collected: 11/14/22 11:43

Matrix: Solid

Date Received: 11/14/22 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686728	MJG	EET CHI	11/23/22 09:15 - 11/23/22 11:15 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 08:55
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 18:33
Total/NA	Analysis	Moisture		1	686809	LWN	EET CHI	11/23/22 15:25

Client Sample ID: 1401V3-28-B01 (0-7)D

Lab Sample ID: 500-225421-2

Date Collected: 11/14/22 11:43

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372631	MZR8	EET CF	11/15/22 09:07
Total/NA	Prep	5035			372633	MZR8	EET CF	11/21/22 08:21
Total/NA	Analysis	8260D		1	372636	MZR8	EET CF	11/22/22 03:13
Total/NA	Prep	3541			686685	KN	EET CHI	11/23/22 08:45 - 11/23/22 15:00 ¹
Total/NA	Analysis	8270D		1	687499	SS	EET CHI	11/30/22 13:30
Total/NA	Prep	3050B			686720	BDE	EET CHI	11/23/22 09:41 - 11/23/22 10:11 ¹
Total/NA	Analysis	6010B		1	687677	JJJ	EET CHI	11/30/22 15:36
Total/NA	Prep	7471B			687107	MJG	EET CHI	11/28/22 16:35
Total/NA	Analysis	7471B		1	687292	MJG	EET CHI	11/29/22 09:33

Client Sample ID: 1401V3-28-B01 (7-13)

Lab Sample ID: 500-225421-3

Date Collected: 11/14/22 11:50

Matrix: Solid

Date Received: 11/14/22 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686388	AW	EET CHI	11/21/22 12:03 - 11/22/22 06:03 ¹
SPLP East	Prep	3010A			686620	LMB	EET CHI	11/22/22 19:37 - 11/22/22 20:07 ¹
SPLP East	Analysis	6010B		1	687846	JJJ	EET CHI	12/01/22 15:39
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6010B		1	687706	JJJ	EET CHI	11/30/22 16:04
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 16:01
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686728	MJG	EET CHI	11/23/22 09:15 - 11/23/22 11:15 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 08:57
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 18:38
Total/NA	Analysis	Moisture		1	686809	LWN	EET CHI	11/23/22 15:25

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Client Sample ID: 1401V3-28-B01 (7-13)

Lab Sample ID: 500-225421-3

Date Collected: 11/14/22 11:50

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372631	MZR8	EET CF	11/15/22 09:07
Total/NA	Prep	5035			372633	MZR8	EET CF	11/21/22 08:21
Total/NA	Analysis	8260D		1	372636	MZR8	EET CF	11/22/22 03:38
Total/NA	Prep	3541			686685	KN	EET CHI	11/23/22 08:45 - 11/23/22 15:00 ¹
Total/NA	Analysis	8270D		1	687499	SS	EET CHI	11/30/22 13:54
Total/NA	Prep	3050B			686720	BDE	EET CHI	11/23/22 09:41 - 11/23/22 10:11 ¹
Total/NA	Analysis	6010B		1	687677	JJB	EET CHI	11/30/22 15:39
Total/NA	Prep	3050B			686720	BDE	EET CHI	11/23/22 09:41 - 11/23/22 10:11 ¹
Total/NA	Analysis	6010B		5	687779	JJB	EET CHI	12/01/22 11:08
Total/NA	Prep	7471B			687107	MJG	EET CHI	11/28/22 16:35
Total/NA	Analysis	7471B		1	687292	MJG	EET CHI	11/29/22 09:39

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401
 EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225421-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

Laboratory: Eurofins Cedar Falls

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Colorado	Petroleum Storage Tank Program	IA100001 (OR)	09-29-23
Georgia	State	IA100001 (OR)	09-29-23
Illinois	NELAP	200024	11-29-22
Iowa	State	007	12-01-23
Kansas	NELAP	E-10341	01-31-23
Minnesota	NELAP	019-999-319	12-31-22
Minnesota (Petrofund)	State	3349	01-18-24
North Dakota	State	R-186	09-29-23
Oregon	NELAP	IA100001	09-29-23



Environment Testing
America



Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Chicago</u>			
City/State:	<u>CHICAGO</u> <u>Univ Park</u>	STATE <u>IL</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>11-18-22</u>	TIME <u>1445</u>	Received By: <u>PL</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>1</u> of <u>2</u>	
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID:	<u>R</u>	Correction Factor (°C):	<u>0</u>
* Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):	<u>1.9</u>	Corrected Temp (°C):	<u>1.9</u>
Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			





Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Chicago</u>			
City/State:	CITY <u>Univ Park</u>	STATE <u>IL</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>11-18-22</u>	TIME <u>1445</u>	Received By: <u>RL</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID:	
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>2</u> of <u>2</u>	
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
<u>FW005</u>			
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID:	<u>R</u>	Correction Factor (°C):	<u>0</u>
• Temp Blank Temperature -- If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):	<u>0.6</u>	Corrected Temp (°C):	<u>0.6</u>
• Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No			
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225421-1

Login Number: 225421

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5,3.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225421-1

Login Number: 225421

List Number: 2

Creator: Kizer, Preston V

List Source: Eurofins Cedar Falls

List Creation: 11/18/22 06:03 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 365 & FAP 870 (Butterfield Road) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

2 S 660 Lloyd Avenue (ISGS #1401V3-29)

City: Lombard State: IL Zip Code: 60148

County: DuPage Township: Milton

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.83296 Longitude: -88.03479
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): _____ Approximate End Date (mm/dd/yyyy): _____

Estimated Volume of debris (cu. Yd.): 61

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov



This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Analytical Data Summary
PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

Key to Data Tables

- MAC = Maximum Allowable Concentration of Chemical Constituent in Uncontaminated Soil Used as Fill Material At Regulated Fill Operations
- mg/kg = Milligrams per kilogram.
- mg/L = Milligrams per liter.
- MSA = Metropolitan Statistical Area
- TACO = Tiered Approach to Corrective Action Objectives
- TCLP = Toxicity Characteristic Leaching Procedure.
- SCGIER = Soil Component of the Groundwater Ingestion Exposure Route
- SPLP = Synthetic Precipitation Leaching Procedure.
- ND = Not detected.
- NA = Not analyzed or not applicable.
- J = Estimated value.
- U = Analyte was analyzed for but not detected.
- PID = Photoionization detector.
- = No PID readings detected above background (within instrument margin of error).

Criteria Qualifiers and Shading

- # = pH is less than 6.25 or greater than 9.0 standard units.
- † = Concentration exceeds the most stringent MAC.
- m = Concentration exceeds the MAC for an MSA.
- * = Concentration exceeds the MAC for Chicago corporate limits.
- c = Concentration exceeds a TACO Tier 1 RO for the Construction Worker Exposure Route.
- r = Concentration exceeds a TACO Tier 1 soil RO for residential properties.
- L = The detected TCLP/SPLP concentration exceeds the TACO Tier 1 RO for the SCGIER.
-  = Concentration exceeds the most stringent MAC, but is below the MAC for an MSA.
-  = Concentration exceeds applicable comparison criteria.

PTB #196-002; Work Order 13 - IDOT Job # D-91-612-11

CONTAMINANTS OF CONCERN

SITE	ISGS #1401V3-29 (Next Generation Daycare)	Comparison Criteria					
		MACs			TACO		
BORING	1401V3-29-B03	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1401V3-29-B03 (0-6)						
MATRIX	Soil						
DEPTH (feet)	0-6						
pH	7.2						
PID (meter units)	--						
VOCs (mg/kg)							
1,1-Dichloroethane	0.00041 J	23	--	--	1,300	130	--
SVOCs (mg/kg)							
Benzo(a)anthracene	0.022 J	0.9	1.8	11	1.8	170	--
Benzo(b)fluoranthene	0.015 J	0.9	2.1	13	2.1	170	--
Chrysene	0.020 J	88	--	11	88	17,000	--
Fluoranthene	0.028 J	3,100	--	28	3,100	82,000	--
Phenanthrene	0.014 J	--	--	15	--	--	--
Pyrene	0.022 J	2,300	--	18	2,300	61,000	--
Inorganics (mg/kg)							
Antimony	0.56 J	5	--	--	31	82	--
Arsenic	9.9	11.3	13	--	13	61	--
Barium	72	1,500	--	--	5,500	14,000	--
Beryllium	0.93	22	--	--	160	410	--
Boron	7.6	40	--	--	16,000	41,000	--
Cadmium	0.25	5.2	--	--	78	200	--
Calcium	17,000	--	--	--	--	--	--
Chromium	18	21	--	--	230	690	--
Cobalt	13	20	--	--	4,700	12,000	--
Copper	24	2,900	--	--	2,900	8,200	--
Iron	21,000 †m	15,000	15,900	--	--	--	--
Lead	61	107	--	--	400	700	--
Magnesium	11,000	325,000	--	--	--	730,000	--
Manganese	470	630	636	--	1,600	4,100	--
Nickel	28	100	--	--	1,600	4,100	--
Potassium	1,900	--	--	--	--	--	--
Selenium	0.39 J	1.3	--	--	390	1,000	--
Silver	0.38	4.4	--	--	390	1,000	--
Sodium	1,900	--	--	--	--	--	--
Thallium	0.40 J	2.6	--	--	6.3	160	--
Vanadium	25	550	--	--	550	1,400	--
Zinc	82	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)							
Barium	0.53	--	--	--	--	--	2
Cobalt	0.024 J	--	--	--	--	--	1
Iron	ND U	--	--	--	--	--	5
Manganese	7.8 L	--	--	--	--	--	0.15
Nickel	0.013 J	--	--	--	--	--	0.1
Zinc	0.090 J	--	--	--	--	--	5
SPLP Metals (mg/L)							
Manganese	2.5 L	--	--	--	--	--	0.15



ANALYTICAL REPORT

PREPARED FOR

Attn: Dean Tiebot
WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602
Generated 12/13/2022 4:34:36 PM

JOB DESCRIPTION

IDOT - 196-002-WO 13 IL 56

JOB NUMBER

500-225423-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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12/13/2022 4:34:36 PM

Authorized for release by
Richard Wright, Senior Project Manager
Richard.Wright@et.eurofinsus.com
(708)746-0045

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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

Job ID: 500-225423-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225423-1

Receipt

The samples were received on 11/14/2022 5:56 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.5° C and 3.6° C.

GC/MS VOA

Method 8260D: The method blank for preparation batch 310-372637 and analytical batch 310-372638 contained Bromomethane above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260D: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 310-372637 and analytical batch 310-372638 recovered outside control limits for the following analyte(s): Vinyl acetate. Vinyl acetate has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not. These results have been reported and qualified.

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 310-372637 and analytical batch 310-372638 recovered outside control limits for the following analytes: Vinyl acetate.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-687247 was outside the method criteria for the following analyte(s): 4-Nitrophenol and Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-687247 was outside the method criteria for the following analyte(s): 2,4,5-Trichlorophenol and Hexachlorobutadiene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-687499 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-687499 was outside the method criteria for the following analyte(s): Terphenyl-d14, Pyrene and N-Nitrosodi-n-propylamine. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with preparation batch 500-686550 and analytical batch 500-687499 had 1 analytes outside control limits: Bis(2-chloroethyl)ether. These results have been reported and qualified.

Method 8270D: The tailing factor for Pentachlorophenol and Benzidine failed in the DFTPP analysis. The tailing factor was acceptable in the CCVIS. This indicates the system was in control and no corrective action was required. (DFTPP 500-687474/1)

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-687474 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-687474 was outside the method criteria for the following

Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

Job ID: 500-225423-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

analyte(s): 2-Nitroaniline, 2-Methylphenol, 3 & 4 Methylphenol, Bis(2-ethylhexyl) phthalate and Dibenz(a,h)anthracene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The following sample was diluted due to the nature of the sample matrix: 1401V3-29-B02 (0-6) (500-225423-3). Elevated reporting limits (RLs) are provided.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-689515 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

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Client Sample ID: 1401V3-29-B03 (0-6)

Lab Sample ID: 500-225423-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.00041	J	0.0046	0.00040	mg/Kg	1	✳	8260D	Total/NA
Phenanthrene	0.014	J	0.040	0.0056	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.028	J	0.040	0.0075	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.022	J	0.040	0.0080	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.022	J	0.040	0.0054	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.020	J	0.040	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.015	J	0.040	0.0087	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.56	J	1.2	0.24	mg/Kg	1	✳	6010B	Total/NA
Arsenic	9.9		0.61	0.21	mg/Kg	1	✳	6010B	Total/NA
Barium	72		0.61	0.070	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.93		0.24	0.057	mg/Kg	1	✳	6010B	Total/NA
Boron	7.6	B	3.1	0.29	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.25	B	0.12	0.022	mg/Kg	1	✳	6010B	Total/NA
Calcium	17000	B	12	2.1	mg/Kg	1	✳	6010B	Total/NA
Chromium	18		0.61	0.30	mg/Kg	1	✳	6010B	Total/NA
Cobalt	13		0.31	0.080	mg/Kg	1	✳	6010B	Total/NA
Copper	24		0.61	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	21000		12	6.4	mg/Kg	1	✳	6010B	Total/NA
Lead	61		0.31	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	11000		6.1	3.0	mg/Kg	1	✳	6010B	Total/NA
Manganese	470		0.61	0.089	mg/Kg	1	✳	6010B	Total/NA
Nickel	28		0.61	0.18	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

Client Sample ID: 1401V3-29-B03 (0-6) (Continued)

Lab Sample ID: 500-225423-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1900		31	11	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.39	J	0.61	0.36	mg/Kg	1	☼	6010B	Total/NA
Silver	0.38		0.31	0.079	mg/Kg	1	☼	6010B	Total/NA
Sodium	1900		61	9.1	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.40	J	0.61	0.31	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.31	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	82		1.2	0.54	mg/Kg	1	☼	6010B	Total/NA
Barium	0.53		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.31	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.024	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	7.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.090	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	2.5		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.027	B	0.020	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	7.2		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010B	Metals (ICP)	SW846	EET CHI
6010B	SPLP Metals	SW846	EET CHI
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
Frozen Preserve	Freezing Samples	None	EET CF

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
500-225423-4	1401V3-29-B03 (0-6)	Solid	11/14/22 13:35	11/14/22 17:56

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

Client Sample ID: 1401V3-29-B03 (0-6)

Lab Sample ID: 500-225423-4

Date Collected: 11/14/22 13:35

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 81.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.046		0.046	0.0085	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
Benzene	<0.0046		0.0046	0.00083	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
Bromodichloromethane	<0.0046		0.0046	0.00036	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
Bromoform	<0.0092		0.0092	0.00059	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
Bromomethane	<0.018		0.018	0.0015	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
2-Butanone (MEK)	<0.018		0.018	0.0014	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
Carbon disulfide	<0.0046		0.0046	0.0011	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
Carbon tetrachloride	<0.0046		0.0046	0.0013	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
Chlorobenzene	<0.0046		0.0046	0.00071	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
Chloroethane	<0.018		0.018	0.0033	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
Chloroform	<0.0046		0.0046	0.0016	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
Chloromethane	<0.018		0.018	0.0031	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00069	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00052	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
Dibromochloromethane	<0.0046		0.0046	0.00020	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
1,1-Dichloroethane	0.00041	J	0.0046	0.00040	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
1,2-Dichloroethane	<0.0046		0.0046	0.00029	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
1,1-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
1,2-Dichloropropane	<0.0046		0.0046	0.00040	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
1,3-Dichloropropane, Total	<0.0092		0.0092	0.0010	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
Ethylbenzene	<0.0046		0.0046	0.0022	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
2-Hexanone	<0.018		0.018	0.0021	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
Methylene Chloride	<0.046		0.046	0.027	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
4-Methyl-2-pentanone (MIBK)	<0.018		0.018	0.0016	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00020	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
Styrene	<0.0046		0.0046	0.0032	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00032	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
Tetrachloroethene	<0.0046		0.0046	0.00088	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
Toluene	<0.0046		0.0046	0.0031	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00056	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00051	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00043	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00030	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
Trichloroethene	<0.0046		0.0046	0.0013	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
Vinyl acetate	<0.0092	*1 *	0.0092	0.0016	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
Vinyl chloride	<0.0092		0.0092	0.0032	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1
Xylenes, Total	<0.0092		0.0092	0.0033	mg/Kg	☼	11/21/22 08:33	11/22/22 09:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		77 - 120	11/21/22 08:33	11/22/22 09:00	1
Dibromofluoromethane (Surr)	105		80 - 123	11/21/22 08:33	11/22/22 09:00	1
Toluene-d8 (Surr)	95		76 - 120	11/21/22 08:33	11/22/22 09:00	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Bis(2-chloroethyl)ether	<0.20	*+	0.20	0.061	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

Client Sample ID: 1401V3-29-B03 (0-6)

Lab Sample ID: 500-225423-4

Date Collected: 11/14/22 13:35

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 81.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.049	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
2-Methylnaphthalene	<0.082		0.082	0.0074	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
4-Nitrophenol	<0.82		0.82	0.38	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.32	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Phenanthrene	0.014	J	0.040	0.0056	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Fluoranthene	0.028	J	0.040	0.0075	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Pyrene	0.022	J	0.040	0.0080	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Benzo[a]anthracene	0.022	J	0.040	0.0054	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Chrysene	0.020	J	0.040	0.011	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

Client Sample ID: 1401V3-29-B03 (0-6)

Lab Sample ID: 500-225423-4

Date Collected: 11/14/22 13:35

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 81.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Benzo[b]fluoranthene	0.015	J	0.040	0.0087	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	11/22/22 13:30	12/13/22 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	101		31 - 166	11/22/22 13:30	12/13/22 11:56	1
Phenol-d5	84		30 - 153	11/22/22 13:30	12/13/22 11:56	1
Nitrobenzene-d5 (Surr)	73		37 - 147	11/22/22 13:30	12/13/22 11:56	1
2-Fluorobiphenyl (Surr)	77		43 - 145	11/22/22 13:30	12/13/22 11:56	1
2,4,6-Tribromophenol	111		31 - 143	11/22/22 13:30	12/13/22 11:56	1
Terphenyl-d14 (Surr)	109		42 - 157	11/22/22 13:30	12/13/22 11:56	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.56	J	1.2	0.24	mg/Kg	☼	11/23/22 09:41	11/30/22 15:59	1
Arsenic	9.9		0.61	0.21	mg/Kg	☼	11/23/22 09:41	11/30/22 15:59	1
Barium	72		0.61	0.070	mg/Kg	☼	11/23/22 09:41	11/30/22 15:59	1
Beryllium	0.93		0.24	0.057	mg/Kg	☼	11/23/22 09:41	11/30/22 15:59	1
Boron	7.6	B	3.1	0.29	mg/Kg	☼	11/23/22 09:41	11/30/22 15:59	1
Cadmium	0.25	B	0.12	0.022	mg/Kg	☼	11/23/22 09:41	11/30/22 15:59	1
Calcium	17000	B	12	2.1	mg/Kg	☼	11/23/22 09:41	11/30/22 15:59	1
Chromium	18		0.61	0.30	mg/Kg	☼	11/23/22 09:41	11/30/22 15:59	1
Cobalt	13		0.31	0.080	mg/Kg	☼	11/23/22 09:41	11/30/22 15:59	1
Copper	24		0.61	0.17	mg/Kg	☼	11/23/22 09:41	11/30/22 15:59	1
Iron	21000		12	6.4	mg/Kg	☼	11/23/22 09:41	11/30/22 15:59	1
Lead	61		0.31	0.14	mg/Kg	☼	11/23/22 09:41	11/30/22 15:59	1
Magnesium	11000		6.1	3.0	mg/Kg	☼	11/23/22 09:41	11/30/22 15:59	1
Manganese	470		0.61	0.089	mg/Kg	☼	11/23/22 09:41	11/30/22 15:59	1
Nickel	28		0.61	0.18	mg/Kg	☼	11/23/22 09:41	11/30/22 15:59	1
Potassium	1900		31	11	mg/Kg	☼	11/23/22 09:41	11/30/22 15:59	1
Selenium	0.39	J	0.61	0.36	mg/Kg	☼	11/23/22 09:41	11/30/22 15:59	1
Silver	0.38		0.31	0.079	mg/Kg	☼	11/23/22 09:41	11/30/22 15:59	1
Sodium	1900		61	9.1	mg/Kg	☼	11/23/22 09:41	11/30/22 15:59	1
Thallium	0.40	J	0.61	0.31	mg/Kg	☼	11/23/22 09:41	11/30/22 15:59	1
Vanadium	25		0.31	0.072	mg/Kg	☼	11/23/22 09:41	11/30/22 15:59	1
Zinc	82		1.2	0.54	mg/Kg	☼	11/23/22 09:41	11/30/22 15:59	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.53		0.50	0.050	mg/L		11/22/22 18:35	11/30/22 16:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 18:35	11/30/22 16:29	1
Boron	0.31	J B	0.50	0.050	mg/L		11/22/22 18:35	11/30/22 16:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 18:35	11/30/22 16:29	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

Client Sample ID: 1401V3-29-B03 (0-6)

Lab Sample ID: 500-225423-4

Date Collected: 11/14/22 13:35

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 81.5

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:29	1
Cobalt	0.024	J	0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:29	1
Iron	<0.40		0.40	0.20	mg/L		11/22/22 18:35	11/30/22 16:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 18:35	11/30/22 16:29	1
Manganese	7.8		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:29	1
Nickel	0.013	J	0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:29	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 18:35	11/30/22 16:29	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 16:29	1
Zinc	0.090	J	0.50	0.020	mg/L		11/22/22 18:35	11/30/22 16:29	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.5		0.025	0.010	mg/L		11/22/22 19:37	12/01/22 16:11	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 18:35	11/29/22 16:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 18:35	11/29/22 16:17	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 09:15	11/28/22 09:14	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	B	0.020	0.0065	mg/Kg	☆	11/28/22 16:35	11/29/22 09:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.2		0.2	0.2	SU			11/17/22 18:51	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

GC/MS VOA

Pre Prep Batch: 372631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225423-1	1401V3-29-B01 (0-7)	Total/NA	Solid	Frozen Preserve	
500-225423-2	1401V3-29-B01 (7-13)	Total/NA	Solid	Frozen Preserve	
500-225423-3	1401V3-29-B02 (0-6)	Total/NA	Solid	Frozen Preserve	
500-225423-4	1401V3-29-B03 (0-6)	Total/NA	Solid	Frozen Preserve	

Prep Batch: 372633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225423-1	1401V3-29-B01 (0-7)	Total/NA	Solid	5035	372631
500-225423-2	1401V3-29-B01 (7-13)	Total/NA	Solid	5035	372631
500-225423-3	1401V3-29-B02 (0-6)	Total/NA	Solid	5035	372631
MB 310-372633/1-A	Method Blank	Total/NA	Solid	5035	
LCS 310-372633/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 310-372633/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 372636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225423-1	1401V3-29-B01 (0-7)	Total/NA	Solid	8260D	372633
500-225423-2	1401V3-29-B01 (7-13)	Total/NA	Solid	8260D	372633
500-225423-3	1401V3-29-B02 (0-6)	Total/NA	Solid	8260D	372633
MB 310-372633/1-A	Method Blank	Total/NA	Solid	8260D	372633
LCS 310-372633/2-A	Lab Control Sample	Total/NA	Solid	8260D	372633
LCSD 310-372633/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	372633

Prep Batch: 372637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225423-4	1401V3-29-B03 (0-6)	Total/NA	Solid	5035	372631
MB 310-372637/1-A	Method Blank	Total/NA	Solid	5035	
LCS 310-372637/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 310-372637/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 372638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225423-4	1401V3-29-B03 (0-6)	Total/NA	Solid	8260D	372637
MB 310-372637/1-A	Method Blank	Total/NA	Solid	8260D	372637
LCS 310-372637/2-A	Lab Control Sample	Total/NA	Solid	8260D	372637
LCSD 310-372637/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	372637

GC/MS Semi VOA

Prep Batch: 686550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225423-1	1401V3-29-B01 (0-7)	Total/NA	Solid	3541	
500-225423-2	1401V3-29-B01 (7-13)	Total/NA	Solid	3541	
500-225423-3	1401V3-29-B02 (0-6)	Total/NA	Solid	3541	
500-225423-4	1401V3-29-B03 (0-6)	Total/NA	Solid	3541	
MB 500-686550/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-686550/2-A	Lab Control Sample	Total/NA	Solid	3541	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

GC/MS Semi VOA

Analysis Batch: 687247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225423-1	1401V3-29-B01 (0-7)	Total/NA	Solid	8270D	686550
500-225423-2	1401V3-29-B01 (7-13)	Total/NA	Solid	8270D	686550

Analysis Batch: 687474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225423-3	1401V3-29-B02 (0-6)	Total/NA	Solid	8270D	686550

Analysis Batch: 687499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-686550/1-A	Method Blank	Total/NA	Solid	8270D	686550
LCS 500-686550/2-A	Lab Control Sample	Total/NA	Solid	8270D	686550

Analysis Batch: 689515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225423-4	1401V3-29-B03 (0-6)	Total/NA	Solid	8270D	686550

Metals

Leach Batch: 686377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225423-1	1401V3-29-B01 (0-7)	TCLP	Solid	1311	
500-225423-2	1401V3-29-B01 (7-13)	TCLP	Solid	1311	
500-225423-3	1401V3-29-B02 (0-6)	TCLP	Solid	1311	
500-225423-4	1401V3-29-B03 (0-6)	TCLP	Solid	1311	
LB 500-686377/1-B	Method Blank	TCLP	Solid	1311	
LB 500-686377/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 686388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225423-1	1401V3-29-B01 (0-7)	SPLP East	Solid	1312	
500-225423-2	1401V3-29-B01 (7-13)	SPLP East	Solid	1312	
500-225423-4	1401V3-29-B03 (0-6)	SPLP East	Solid	1312	
LB 500-686388/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 686617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225423-1	1401V3-29-B01 (0-7)	TCLP	Solid	3010A	686377
500-225423-2	1401V3-29-B01 (7-13)	TCLP	Solid	3010A	686377
500-225423-3	1401V3-29-B02 (0-6)	TCLP	Solid	3010A	686377
500-225423-4	1401V3-29-B03 (0-6)	TCLP	Solid	3010A	686377
LB 500-686377/1-B	Method Blank	TCLP	Solid	3010A	686377
LCS 500-686617/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 686620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225423-1	1401V3-29-B01 (0-7)	SPLP East	Solid	3010A	686388
500-225423-2	1401V3-29-B01 (7-13)	SPLP East	Solid	3010A	686388
500-225423-4	1401V3-29-B03 (0-6)	SPLP East	Solid	3010A	686388
LB 500-686388/1-B	Method Blank	SPLP East	Solid	3010A	686388
LCS 500-686620/2-A	Lab Control Sample	Total/NA	Solid	3010A	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

Metals

Prep Batch: 686720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225423-1	1401V3-29-B01 (0-7)	Total/NA	Solid	3050B	
500-225423-2	1401V3-29-B01 (7-13)	Total/NA	Solid	3050B	
500-225423-3	1401V3-29-B02 (0-6)	Total/NA	Solid	3050B	
500-225423-4	1401V3-29-B03 (0-6)	Total/NA	Solid	3050B	
MB 500-686720/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-686720/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 686728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225423-1	1401V3-29-B01 (0-7)	TCLP	Solid	7470A	686377
500-225423-2	1401V3-29-B01 (7-13)	TCLP	Solid	7470A	686377
500-225423-3	1401V3-29-B02 (0-6)	TCLP	Solid	7470A	686377
500-225423-4	1401V3-29-B03 (0-6)	TCLP	Solid	7470A	686377
LB 500-686377/1-C	Method Blank	TCLP	Solid	7470A	686377
MB 500-686728/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-686728/14-A	Lab Control Sample	Total/NA	Solid	7470A	
LCS 500-686728/32-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 687107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225423-1	1401V3-29-B01 (0-7)	Total/NA	Solid	7471B	
500-225423-2	1401V3-29-B01 (7-13)	Total/NA	Solid	7471B	
500-225423-3	1401V3-29-B02 (0-6)	Total/NA	Solid	7471B	
500-225423-4	1401V3-29-B03 (0-6)	Total/NA	Solid	7471B	
MB 500-687107/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-687107/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-225423-3 MS	1401V3-29-B02 (0-6)	Total/NA	Solid	7471B	
500-225423-3 MSD	1401V3-29-B02 (0-6)	Total/NA	Solid	7471B	
500-225423-3 DU	1401V3-29-B02 (0-6)	Total/NA	Solid	7471B	

Analysis Batch: 687111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225423-1	1401V3-29-B01 (0-7)	TCLP	Solid	7470A	686728
500-225423-2	1401V3-29-B01 (7-13)	TCLP	Solid	7470A	686728
500-225423-3	1401V3-29-B02 (0-6)	TCLP	Solid	7470A	686728
500-225423-4	1401V3-29-B03 (0-6)	TCLP	Solid	7470A	686728
LB 500-686377/1-C	Method Blank	TCLP	Solid	7470A	686728
MB 500-686728/12-A	Method Blank	Total/NA	Solid	7470A	686728
LCS 500-686728/14-A	Lab Control Sample	Total/NA	Solid	7470A	686728
LCS 500-686728/32-A	Lab Control Sample	Total/NA	Solid	7470A	686728

Analysis Batch: 687292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225423-1	1401V3-29-B01 (0-7)	Total/NA	Solid	7471B	687107
500-225423-2	1401V3-29-B01 (7-13)	Total/NA	Solid	7471B	687107
500-225423-3	1401V3-29-B02 (0-6)	Total/NA	Solid	7471B	687107
500-225423-4	1401V3-29-B03 (0-6)	Total/NA	Solid	7471B	687107
MB 500-687107/12-A	Method Blank	Total/NA	Solid	7471B	687107
LCS 500-687107/13-A	Lab Control Sample	Total/NA	Solid	7471B	687107
500-225423-3 MS	1401V3-29-B02 (0-6)	Total/NA	Solid	7471B	687107
500-225423-3 MSD	1401V3-29-B02 (0-6)	Total/NA	Solid	7471B	687107

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

Metals (Continued)

Analysis Batch: 687292 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225423-3 DU	1401V3-29-B02 (0-6)	Total/NA	Solid	7471B	687107

Analysis Batch: 687529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225423-1	1401V3-29-B01 (0-7)	TCLP	Solid	6020A	686617
500-225423-2	1401V3-29-B01 (7-13)	TCLP	Solid	6020A	686617
500-225423-3	1401V3-29-B02 (0-6)	TCLP	Solid	6020A	686617
500-225423-4	1401V3-29-B03 (0-6)	TCLP	Solid	6020A	686617
LB 500-686377/1-B	Method Blank	TCLP	Solid	6020A	686617
LCS 500-686617/2-A	Lab Control Sample	Total/NA	Solid	6020A	686617

Analysis Batch: 687677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225423-1	1401V3-29-B01 (0-7)	Total/NA	Solid	6010B	686720
500-225423-2	1401V3-29-B01 (7-13)	Total/NA	Solid	6010B	686720
500-225423-3	1401V3-29-B02 (0-6)	Total/NA	Solid	6010B	686720
500-225423-4	1401V3-29-B03 (0-6)	Total/NA	Solid	6010B	686720
MB 500-686720/1-A	Method Blank	Total/NA	Solid	6010B	686720
LCS 500-686720/2-A	Lab Control Sample	Total/NA	Solid	6010B	686720

Analysis Batch: 687706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225423-1	1401V3-29-B01 (0-7)	TCLP	Solid	6010B	686617
500-225423-2	1401V3-29-B01 (7-13)	TCLP	Solid	6010B	686617
500-225423-3	1401V3-29-B02 (0-6)	TCLP	Solid	6010B	686617
500-225423-4	1401V3-29-B03 (0-6)	TCLP	Solid	6010B	686617
LB 500-686377/1-B	Method Blank	TCLP	Solid	6010B	686617
LCS 500-686617/2-A	Lab Control Sample	Total/NA	Solid	6010B	686617

Analysis Batch: 687778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225423-2	1401V3-29-B01 (7-13)	TCLP	Solid	6010B	686617

Analysis Batch: 687779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225423-2	1401V3-29-B01 (7-13)	Total/NA	Solid	6010B	686720

Analysis Batch: 687846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225423-1	1401V3-29-B01 (0-7)	SPLP East	Solid	6010B	686620
500-225423-2	1401V3-29-B01 (7-13)	SPLP East	Solid	6010B	686620
500-225423-4	1401V3-29-B03 (0-6)	SPLP East	Solid	6010B	686620
LB 500-686388/1-B	Method Blank	SPLP East	Solid	6010B	686620
LCS 500-686620/2-A	Lab Control Sample	Total/NA	Solid	6010B	686620

General Chemistry

Analysis Batch: 685677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225423-1	1401V3-29-B01 (0-7)	Total/NA	Solid	Moisture	
500-225423-2	1401V3-29-B01 (7-13)	Total/NA	Solid	Moisture	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

General Chemistry (Continued)

Analysis Batch: 685677 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225423-3	1401V3-29-B02 (0-6)	Total/NA	Solid	Moisture	
500-225423-4	1401V3-29-B03 (0-6)	Total/NA	Solid	Moisture	

Analysis Batch: 685788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225423-1	1401V3-29-B01 (0-7)	Total/NA	Solid	9045D	
500-225423-2	1401V3-29-B01 (7-13)	Total/NA	Solid	9045D	
500-225423-3	1401V3-29-B02 (0-6)	Total/NA	Solid	9045D	
500-225423-4	1401V3-29-B03 (0-6)	Total/NA	Solid	9045D	
LCS 500-685788/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-685788/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Surrogate Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (77-120)	DBFM (80-123)	TOL (76-120)
500-225423-1	1401V3-29-B01 (0-7)	94	108	91
500-225423-2	1401V3-29-B01 (7-13)	92	114	91
500-225423-3	1401V3-29-B02 (0-6)	91	115	91
500-225423-4	1401V3-29-B03 (0-6)	97	105	95
LCS 310-372633/2-A	Lab Control Sample	104	103	100
LCS 310-372637/2-A	Lab Control Sample	103	99	101
LCSD 310-372633/3-A	Lab Control Sample Dup	102	103	99
LCSD 310-372637/3-A	Lab Control Sample Dup	102	100	100
MB 310-372633/1-A	Method Blank	95	105	94
MB 310-372637/1-A	Method Blank	94	108	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (31-166)	PHL (30-153)	NBZ (37-147)	FBP (43-145)	TBP (31-143)	TPHL (42-157)
500-225423-1	1401V3-29-B01 (0-7)	79	68	99	109	100	139
500-225423-2	1401V3-29-B01 (7-13)	95	86	110	120	99	143
500-225423-3	1401V3-29-B02 (0-6)	152	95	92	104	100	125
500-225423-4	1401V3-29-B03 (0-6)	101	84	73	77	111	109
LCS 500-686550/2-A	Lab Control Sample	115	105	105	98	101	132
MB 500-686550/1-A	Method Blank	127	112	95	96	93	153

Surrogate Legend

2FP = 2-Fluorophenol
PHL = Phenol-d5
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol
TPHL = Terphenyl-d14 (Surr)

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-372633/1-A
Matrix: Solid
Analysis Batch: 372636

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372633

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.097		0.097	0.018	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Benzene	<0.0097		0.0097	0.0018	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Bromodichloromethane	<0.0097		0.0097	0.00076	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Bromoform	<0.019		0.019	0.0012	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Bromomethane	<0.039		0.039	0.0031	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
2-Butanone (MEK)	<0.039		0.039	0.0029	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Carbon disulfide	<0.0097		0.0097	0.0023	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Carbon tetrachloride	<0.0097		0.0097	0.0027	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Chlorobenzene	<0.0097		0.0097	0.0015	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Chloroethane	<0.039		0.039	0.0070	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Chloroform	<0.0097		0.0097	0.0033	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Chloromethane	<0.039		0.039	0.0064	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
cis-1,2-Dichloroethene	<0.0097		0.0097	0.0015	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
cis-1,3-Dichloropropene	<0.0097		0.0097	0.0011	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Dibromochloromethane	<0.0097		0.0097	0.00043	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,1-Dichloroethane	<0.0097		0.0097	0.00084	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,2-Dichloroethane	<0.0097		0.0097	0.00060	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,1-Dichloroethene	<0.0097		0.0097	0.0014	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,2-Dichloropropane	<0.0097		0.0097	0.00084	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,3-Dichloropropene, Total	<0.019		0.019	0.0021	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Ethylbenzene	<0.0097		0.0097	0.0047	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
2-Hexanone	<0.039		0.039	0.0045	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Methylene Chloride	<0.097		0.097	0.056	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
4-Methyl-2-pentanone (MIBK)	<0.039		0.039	0.0033	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Methyl tert-butyl ether	<0.0097		0.0097	0.00043	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Styrene	<0.0097		0.0097	0.0068	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,1,2,2-Tetrachloroethane	<0.0097		0.0097	0.00068	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Tetrachloroethene	<0.0097		0.0097	0.0018	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Toluene	<0.0097		0.0097	0.0064	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
trans-1,2-Dichloroethene	<0.0097		0.0097	0.0012	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
trans-1,3-Dichloropropene	<0.0097		0.0097	0.0011	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,1,1-Trichloroethane	<0.0097		0.0097	0.00089	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
1,1,2-Trichloroethane	<0.0097		0.0097	0.00062	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Trichloroethene	<0.0097		0.0097	0.0027	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Vinyl acetate	<0.019		0.019	0.0033	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Vinyl chloride	<0.019		0.019	0.0068	mg/Kg		11/21/22 08:21	11/21/22 20:37	1
Xylenes, Total	<0.019		0.019	0.0070	mg/Kg		11/21/22 08:21	11/21/22 20:37	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	95		77 - 120	11/21/22 08:21	11/21/22 20:37	1
Dibromofluoromethane (Surr)	105		80 - 123	11/21/22 08:21	11/21/22 20:37	1
Toluene-d8 (Surr)	94		76 - 120	11/21/22 08:21	11/21/22 20:37	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-372633/2-A
Matrix: Solid
Analysis Batch: 372636

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372633

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Acetone	0.181	0.163		mg/Kg		90	52 - 150	
Benzene	0.0906	0.0956		mg/Kg		105	77 - 134	
Bromodichloromethane	0.0906	0.0922		mg/Kg		102	78 - 122	
Bromoform	0.0906	0.0965		mg/Kg		107	72 - 122	
2-Butanone (MEK)	0.181	0.193		mg/Kg		107	60 - 150	
Carbon disulfide	0.0906	0.0853		mg/Kg		94	61 - 142	
Carbon tetrachloride	0.0906	0.0894		mg/Kg		99	77 - 127	
Chlorobenzene	0.0906	0.0862		mg/Kg		95	76 - 120	
Chloroform	0.0906	0.0876		mg/Kg		97	78 - 127	
cis-1,2-Dichloroethene	0.0906	0.0965		mg/Kg		106	74 - 136	
cis-1,3-Dichloropropene	0.0906	0.0970		mg/Kg		107	79 - 126	
Dibromochloromethane	0.0906	0.0973		mg/Kg		107	78 - 122	
1,1-Dichloroethane	0.0906	0.0981		mg/Kg		108	74 - 137	
1,2-Dichloroethane	0.0906	0.0910		mg/Kg		100	79 - 132	
1,1-Dichloroethene	0.0906	0.0850		mg/Kg		94	62 - 130	
1,2-Dichloropropane	0.0906	0.0993		mg/Kg		110	78 - 135	
Ethylbenzene	0.0906	0.0902		mg/Kg		99	78 - 122	
2-Hexanone	0.181	0.188		mg/Kg		104	73 - 134	
Methylene Chloride	0.0906	0.0974	J	mg/Kg		108	55 - 150	
4-Methyl-2-pentanone (MIBK)	0.181	0.194		mg/Kg		107	75 - 135	
Methyl tert-butyl ether	0.0906	0.0963		mg/Kg		106	73 - 135	
Styrene	0.0906	0.0914		mg/Kg		101	75 - 120	
1,1,2,2-Tetrachloroethane	0.0906	0.0938		mg/Kg		104	80 - 127	
Tetrachloroethene	0.0906	0.0804		mg/Kg		89	72 - 121	
Toluene	0.0906	0.0880		mg/Kg		97	77 - 121	
trans-1,2-Dichloroethene	0.0906	0.0950		mg/Kg		105	71 - 134	
trans-1,3-Dichloropropene	0.0906	0.0872		mg/Kg		96	77 - 122	
1,1,1-Trichloroethane	0.0906	0.0909		mg/Kg		100	79 - 132	
1,1,2-Trichloroethane	0.0906	0.0988		mg/Kg		109	80 - 124	
Trichloroethene	0.0906	0.0914		mg/Kg		101	76 - 132	
Vinyl acetate	0.181	0.132		mg/Kg		73	37 - 150	
Xylenes, Total	0.181	0.179		mg/Kg		98	76 - 124	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	104		77 - 120
Dibromofluoromethane (Surr)	103		80 - 123
Toluene-d8 (Surr)	100		76 - 120

Lab Sample ID: LCSD 310-372633/3-A
Matrix: Solid
Analysis Batch: 372636

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 372633

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Acetone	0.163	0.157		mg/Kg		96	52 - 150	4	40	
Benzene	0.0816	0.0867		mg/Kg		106	77 - 134	10	40	
Bromodichloromethane	0.0816	0.0803		mg/Kg		98	78 - 122	14	35	
Bromoform	0.0816	0.0872		mg/Kg		107	72 - 122	10	40	
2-Butanone (MEK)	0.163	0.182		mg/Kg		111	60 - 150	6	39	

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 310-372633/3-A
Matrix: Solid
Analysis Batch: 372636

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 372633

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide	0.0816	0.0779		mg/Kg		96	61 - 142	9	40
Carbon tetrachloride	0.0816	0.0798		mg/Kg		98	77 - 127	11	40
Chlorobenzene	0.0816	0.0784		mg/Kg		96	76 - 120	10	40
Chloroform	0.0816	0.0766		mg/Kg		94	78 - 127	13	34
cis-1,2-Dichloroethene	0.0816	0.0862		mg/Kg		106	74 - 136	11	36
cis-1,3-Dichloropropene	0.0816	0.0852		mg/Kg		104	79 - 126	13	39
Dibromochloromethane	0.0816	0.0855		mg/Kg		105	78 - 122	13	37
1,1-Dichloroethane	0.0816	0.0879		mg/Kg		108	74 - 137	11	33
1,2-Dichloroethane	0.0816	0.0815		mg/Kg		100	79 - 132	11	34
1,1-Dichloroethene	0.0816	0.0761		mg/Kg		93	62 - 130	11	37
1,2-Dichloropropane	0.0816	0.0901		mg/Kg		110	78 - 135	10	34
Ethylbenzene	0.0816	0.0811		mg/Kg		99	78 - 122	11	40
2-Hexanone	0.163	0.176		mg/Kg		108	73 - 134	7	40
Methylene Chloride	0.0816	0.0899	J	mg/Kg		110	55 - 150	8	35
4-Methyl-2-pentanone (MIBK)	0.163	0.180		mg/Kg		111	75 - 135	7	40
Methyl tert-butyl ether	0.0816	0.0874		mg/Kg		107	73 - 135	10	33
Styrene	0.0816	0.0826		mg/Kg		101	75 - 120	10	40
1,1,2,2-Tetrachloroethane	0.0816	0.0869		mg/Kg		106	80 - 127	8	38
Tetrachloroethene	0.0816	0.0736		mg/Kg		90	72 - 121	9	40
Toluene	0.0816	0.0799		mg/Kg		98	77 - 121	10	40
trans-1,2-Dichloroethene	0.0816	0.0835		mg/Kg		102	71 - 134	13	36
trans-1,3-Dichloropropene	0.0816	0.0775		mg/Kg		95	77 - 122	12	40
1,1,1-Trichloroethane	0.0816	0.0826		mg/Kg		101	79 - 132	10	39
1,1,2-Trichloroethane	0.0816	0.0883		mg/Kg		108	80 - 124	11	35
Trichloroethene	0.0816	0.0825		mg/Kg		101	76 - 132	10	40
Vinyl acetate	0.163	0.105		mg/Kg		64	37 - 150	23	40
Xylenes, Total	0.163	0.162		mg/Kg		99	76 - 124	10	40

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		77 - 120
Dibromofluoromethane (Surr)	103		80 - 123
Toluene-d8 (Surr)	99		76 - 120

Lab Sample ID: MB 310-372637/1-A
Matrix: Solid
Analysis Batch: 372638

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372637

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.093		0.093	0.017	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Benzene	<0.0093		0.0093	0.0017	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Bromodichloromethane	<0.0093		0.0093	0.00073	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Bromoform	<0.019		0.019	0.0012	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Bromomethane	0.00332	J	0.037	0.0030	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
2-Butanone (MEK)	<0.037		0.037	0.0028	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Carbon disulfide	<0.0093		0.0093	0.0022	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Carbon tetrachloride	<0.0093		0.0093	0.0026	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Chlorobenzene	<0.0093		0.0093	0.0014	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Chloroethane	<0.037		0.037	0.0067	mg/Kg		11/21/22 08:33	11/22/22 07:46	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-372637/1-A
Matrix: Solid
Analysis Batch: 372638

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.0093		0.0093	0.0032	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Chloromethane	<0.037		0.037	0.0061	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
cis-1,2-Dichloroethene	<0.0093		0.0093	0.0014	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
cis-1,3-Dichloropropene	<0.0093		0.0093	0.0010	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Dibromochloromethane	<0.0093		0.0093	0.00041	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,1-Dichloroethane	<0.0093		0.0093	0.00080	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,2-Dichloroethane	<0.0093		0.0093	0.00058	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,1-Dichloroethene	<0.0093		0.0093	0.0013	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,2-Dichloropropane	<0.0093		0.0093	0.00080	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,3-Dichloropropene, Total	<0.019		0.019	0.0020	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Ethylbenzene	<0.0093		0.0093	0.0045	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
2-Hexanone	<0.037		0.037	0.0043	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Methylene Chloride	<0.093		0.093	0.054	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
4-Methyl-2-pentanone (MIBK)	<0.037		0.037	0.0032	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Methyl tert-butyl ether	<0.0093		0.0093	0.00041	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Styrene	<0.0093		0.0093	0.0065	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,1,2,2-Tetrachloroethane	<0.0093		0.0093	0.00065	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Tetrachloroethene	<0.0093		0.0093	0.0018	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Toluene	<0.0093		0.0093	0.0061	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
trans-1,2-Dichloroethene	<0.0093		0.0093	0.0011	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
trans-1,3-Dichloropropene	<0.0093		0.0093	0.0010	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,1,1-Trichloroethane	<0.0093		0.0093	0.00086	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
1,1,2-Trichloroethane	<0.0093		0.0093	0.00060	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Trichloroethene	<0.0093		0.0093	0.0026	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Vinyl acetate	<0.019		0.019	0.0032	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Vinyl chloride	<0.019		0.019	0.0065	mg/Kg		11/21/22 08:33	11/22/22 07:46	1
Xylenes, Total	<0.019		0.019	0.0067	mg/Kg		11/21/22 08:33	11/22/22 07:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		77 - 120	11/21/22 08:33	11/22/22 07:46	1
Dibromofluoromethane (Surr)	108		80 - 123	11/21/22 08:33	11/22/22 07:46	1
Toluene-d8 (Surr)	93		76 - 120	11/21/22 08:33	11/22/22 07:46	1

Lab Sample ID: LCS 310-372637/2-A
Matrix: Solid
Analysis Batch: 372638

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acetone	0.150	0.156		mg/Kg		104	52 - 150
Benzene	0.0750	0.0813		mg/Kg		108	77 - 134
Bromodichloromethane	0.0750	0.0784		mg/Kg		104	78 - 122
Bromoform	0.0750	0.0807		mg/Kg		108	72 - 122
2-Butanone (MEK)	0.150	0.167		mg/Kg		112	60 - 150
Carbon disulfide	0.0750	0.0725		mg/Kg		97	61 - 142
Carbon tetrachloride	0.0750	0.0762		mg/Kg		102	77 - 127
Chlorobenzene	0.0750	0.0727		mg/Kg		97	76 - 120
Chloroform	0.0750	0.0738		mg/Kg		98	78 - 127
cis-1,2-Dichloroethene	0.0750	0.0822		mg/Kg		109	74 - 136

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-372637/2-A
Matrix: Solid
Analysis Batch: 372638

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,3-Dichloropropene	0.0750	0.0800		mg/Kg		107	79 - 126
Dibromochloromethane	0.0750	0.0809		mg/Kg		108	78 - 122
1,1-Dichloroethane	0.0750	0.0830		mg/Kg		111	74 - 137
1,2-Dichloroethane	0.0750	0.0776		mg/Kg		103	79 - 132
1,1-Dichloroethene	0.0750	0.0717		mg/Kg		96	62 - 130
1,2-Dichloropropane	0.0750	0.0851		mg/Kg		113	78 - 135
Ethylbenzene	0.0750	0.0766		mg/Kg		102	78 - 122
2-Hexanone	0.150	0.167		mg/Kg		112	73 - 134
Methylene Chloride	0.0750	0.0854	J	mg/Kg		114	55 - 150
4-Methyl-2-pentanone (MIBK)	0.150	0.173		mg/Kg		115	75 - 135
Methyl tert-butyl ether	0.0750	0.0790		mg/Kg		105	73 - 135
Styrene	0.0750	0.0772		mg/Kg		103	75 - 120
1,1,2,2-Tetrachloroethane	0.0750	0.0792		mg/Kg		106	80 - 127
Tetrachloroethene	0.0750	0.0680		mg/Kg		91	72 - 121
Toluene	0.0750	0.0758		mg/Kg		101	77 - 121
trans-1,2-Dichloroethene	0.0750	0.0767		mg/Kg		102	71 - 134
trans-1,3-Dichloropropene	0.0750	0.0728		mg/Kg		97	77 - 122
1,1,1-Trichloroethane	0.0750	0.0783		mg/Kg		104	79 - 132
1,1,2-Trichloroethane	0.0750	0.0835		mg/Kg		111	80 - 124
Trichloroethene	0.0750	0.0785		mg/Kg		105	76 - 132
Vinyl acetate	0.150	0.0450	*-	mg/Kg		30	37 - 150
Xylenes, Total	0.150	0.152		mg/Kg		101	76 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		77 - 120
Dibromofluoromethane (Surr)	99		80 - 123
Toluene-d8 (Surr)	101		76 - 120

Lab Sample ID: LCSD 310-372637/3-A
Matrix: Solid
Analysis Batch: 372638

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 372637

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.184	0.182		mg/Kg		99	52 - 150	15	40
Benzene	0.0920	0.0980		mg/Kg		107	77 - 134	19	40
Bromodichloromethane	0.0920	0.0929		mg/Kg		101	78 - 122	17	35
Bromoform	0.0920	0.0960		mg/Kg		104	72 - 122	17	40
2-Butanone (MEK)	0.184	0.198		mg/Kg		108	60 - 150	17	39
Carbon disulfide	0.0920	0.0855		mg/Kg		93	61 - 142	16	40
Carbon tetrachloride	0.0920	0.0911		mg/Kg		99	77 - 127	18	40
Chlorobenzene	0.0920	0.0883		mg/Kg		96	76 - 120	19	40
Chloroform	0.0920	0.0877		mg/Kg		95	78 - 127	17	34
cis-1,2-Dichloroethene	0.0920	0.0961		mg/Kg		104	74 - 136	16	36
cis-1,3-Dichloropropene	0.0920	0.0972		mg/Kg		106	79 - 126	19	39
Dibromochloromethane	0.0920	0.0959		mg/Kg		104	78 - 122	17	37
1,1-Dichloroethane	0.0920	0.0993		mg/Kg		108	74 - 137	18	33
1,2-Dichloroethane	0.0920	0.0900		mg/Kg		98	79 - 132	15	34
1,1-Dichloroethene	0.0920	0.0861		mg/Kg		94	62 - 130	18	37

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 310-372637/3-A
Matrix: Solid
Analysis Batch: 372638

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 372637

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
1,2-Dichloropropane	0.0920	0.101		mg/Kg		110	78 - 135	17	34	
Ethylbenzene	0.0920	0.0914		mg/Kg		99	78 - 122	18	40	
2-Hexanone	0.184	0.199		mg/Kg		108	73 - 134	17	40	
Methylene Chloride	0.0920	0.0991	J	mg/Kg		108	55 - 150	15	35	
4-Methyl-2-pentanone (MIBK)	0.184	0.206		mg/Kg		112	75 - 135	18	40	
Methyl tert-butyl ether	0.0920	0.0962		mg/Kg		105	73 - 135	20	33	
Styrene	0.0920	0.0924		mg/Kg		100	75 - 120	18	40	
1,1,2,2-Tetrachloroethane	0.0920	0.0964		mg/Kg		105	80 - 127	20	38	
Tetrachloroethene	0.0920	0.0817		mg/Kg		89	72 - 121	18	40	
Toluene	0.0920	0.0903		mg/Kg		98	77 - 121	17	40	
trans-1,2-Dichloroethene	0.0920	0.0933		mg/Kg		101	71 - 134	20	36	
trans-1,3-Dichloropropene	0.0920	0.0878		mg/Kg		95	77 - 122	19	40	
1,1,1-Trichloroethane	0.0920	0.0932		mg/Kg		101	79 - 132	17	39	
1,1,2-Trichloroethane	0.0920	0.0992		mg/Kg		108	80 - 124	17	35	
Trichloroethene	0.0920	0.0934		mg/Kg		102	76 - 132	17	40	
Vinyl acetate	0.184	0.0944	*1	mg/Kg		51	37 - 150	71	40	
Xylenes, Total	0.184	0.182		mg/Kg		99	76 - 124	18	40	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		77 - 120
Dibromofluoromethane (Surr)	100		80 - 123
Toluene-d8 (Surr)	100		76 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-686550/1-A
Matrix: Solid
Analysis Batch: 687499

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686550

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Isophorone	<0.17		0.17	0.037	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		11/22/22 13:30	11/30/22 11:56	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-686550/1-A
Matrix: Solid
Analysis Batch: 687499

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686550

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Carbazole	<0.17		0.17	0.083	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		11/22/22 13:30	11/30/22 11:56	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		11/22/22 13:30	11/30/22 11:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	127		31 - 166	11/22/22 13:30	11/30/22 11:56	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-686550/1-A
Matrix: Solid
Analysis Batch: 687499

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686550

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Phenol-d5	112		30 - 153	11/22/22 13:30	11/30/22 11:56	1
Nitrobenzene-d5 (Surr)	95		37 - 147	11/22/22 13:30	11/30/22 11:56	1
2-Fluorobiphenyl (Surr)	96		43 - 145	11/22/22 13:30	11/30/22 11:56	1
2,4,6-Tribromophenol	93		31 - 143	11/22/22 13:30	11/30/22 11:56	1
Terphenyl-d14 (Surr)	153		42 - 157	11/22/22 13:30	11/30/22 11:56	1

Lab Sample ID: LCS 500-686550/2-A
Matrix: Solid
Analysis Batch: 687499

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686550

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	Limits
Bis(2-chloroethyl)ether	1.33	1.52	*+	mg/Kg		114	55 - 111	
1,3-Dichlorobenzene	1.33	1.29		mg/Kg		97	65 - 124	
1,4-Dichlorobenzene	1.33	1.32		mg/Kg		99	61 - 110	
1,2-Dichlorobenzene	1.33	1.32		mg/Kg		99	62 - 110	
2-Methylphenol	1.33	1.36		mg/Kg		102	60 - 120	
2,2'-oxybis[1-chloropropane]	1.33	1.32		mg/Kg		99	40 - 124	
N-Nitrosodi-n-propylamine	1.33	1.44		mg/Kg		108	56 - 118	
Hexachloroethane	1.33	1.26		mg/Kg		94	60 - 114	
2-Chlorophenol	1.33	1.23		mg/Kg		92	64 - 110	
Nitrobenzene	1.33	1.42		mg/Kg		106	60 - 116	
Bis(2-chloroethoxy)methane	1.33	1.33		mg/Kg		100	60 - 112	
1,2,4-Trichlorobenzene	1.33	1.21		mg/Kg		91	66 - 117	
Isophorone	1.33	1.43		mg/Kg		107	55 - 110	
2,4-Dimethylphenol	1.33	1.35		mg/Kg		101	60 - 110	
Hexachlorobutadiene	1.33	1.16		mg/Kg		87	56 - 120	
Naphthalene	1.33	1.39		mg/Kg		105	63 - 110	
2,4-Dichlorophenol	1.33	1.18		mg/Kg		88	58 - 120	
4-Chloroaniline	1.33	0.729		mg/Kg		55	30 - 150	
2,4,6-Trichlorophenol	1.33	1.20		mg/Kg		90	57 - 120	
2,4,5-Trichlorophenol	1.33	1.18		mg/Kg		89	50 - 120	
Hexachlorocyclopentadiene	1.33	0.851		mg/Kg		64	10 - 133	
2-Methylnaphthalene	1.33	1.22		mg/Kg		91	69 - 112	
2-Nitroaniline	1.33	1.40		mg/Kg		105	57 - 124	
2-Chloronaphthalene	1.33	1.32		mg/Kg		99	69 - 114	
4-Chloro-3-methylphenol	1.33	1.30		mg/Kg		97	65 - 122	
2,6-Dinitrotoluene	1.33	1.38		mg/Kg		104	70 - 123	
2-Nitrophenol	1.33	1.26		mg/Kg		95	60 - 120	
3-Nitroaniline	1.33	0.675		mg/Kg		51	40 - 122	
Dimethyl phthalate	1.33	1.44		mg/Kg		108	69 - 116	
2,4-Dinitrophenol	2.67	0.976		mg/Kg		37	10 - 100	
Acenaphthylene	1.33	1.33		mg/Kg		100	68 - 120	
2,4-Dinitrotoluene	1.33	1.43		mg/Kg		107	69 - 124	
Acenaphthene	1.33	1.25		mg/Kg		94	65 - 124	
Dibenzofuran	1.33	1.28		mg/Kg		96	66 - 115	
4-Nitrophenol	2.67	2.36		mg/Kg		88	30 - 122	
Fluorene	1.33	1.23		mg/Kg		92	62 - 120	

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-686550/2-A
Matrix: Solid
Analysis Batch: 687499

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686550

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Nitroaniline	1.33	1.07		mg/Kg		80	60 - 160
4-Bromophenyl phenyl ether	1.33	1.31		mg/Kg		98	68 - 118
Hexachlorobenzene	1.33	1.35		mg/Kg		101	63 - 124
Diethyl phthalate	1.33	1.29		mg/Kg		97	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.23		mg/Kg		92	62 - 119
Pentachlorophenol	2.67	1.22		mg/Kg		46	13 - 112
N-Nitrosodiphenylamine	1.33	1.20		mg/Kg		90	65 - 112
4,6-Dinitro-2-methylphenol	2.67	1.22		mg/Kg		46	10 - 110
Phenanthrene	1.33	1.26		mg/Kg		94	62 - 120
Anthracene	1.33	1.26		mg/Kg		95	70 - 114
Carbazole	1.33	1.26		mg/Kg		94	65 - 142
Di-n-butyl phthalate	1.33	1.27		mg/Kg		95	65 - 120
Fluoranthene	1.33	1.28		mg/Kg		96	62 - 120
Pyrene	1.33	1.68		mg/Kg		126	61 - 128
Butyl benzyl phthalate	1.33	1.45		mg/Kg		109	71 - 129
Benzo[a]anthracene	1.33	1.52		mg/Kg		114	67 - 122
Chrysene	1.33	1.51		mg/Kg		114	63 - 120
3,3'-Dichlorobenzidine	1.33	0.985		mg/Kg		74	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.39		mg/Kg		104	72 - 131
Di-n-octyl phthalate	1.33	1.06		mg/Kg		80	68 - 134
Benzo[b]fluoranthene	1.33	1.23		mg/Kg		92	69 - 129
Benzo[k]fluoranthene	1.33	1.23		mg/Kg		92	68 - 127
Benzo[a]pyrene	1.33	1.27		mg/Kg		95	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.40		mg/Kg		105	68 - 130
Dibenz(a,h)anthracene	1.33	1.31		mg/Kg		98	64 - 131
Benzo[g,h,i]perylene	1.33	1.38		mg/Kg		103	72 - 131
3 & 4 Methylphenol	1.33	1.32		mg/Kg		99	57 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	115		31 - 166
Phenol-d5	105		30 - 153
Nitrobenzene-d5 (Surr)	105		37 - 147
2-Fluorobiphenyl (Surr)	98		43 - 145
2,4,6-Tribromophenol	101		31 - 143
Terphenyl-d14 (Surr)	132		42 - 157

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-686617/2-A
Matrix: Solid
Analysis Batch: 687706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686617

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.512		mg/L		102	80 - 120
Beryllium	0.0500	0.0493		mg/L		99	80 - 120
Boron	1.00	1.17		mg/L		117	80 - 120
Cadmium	0.0500	0.0525		mg/L		105	80 - 120
Chromium	0.200	0.197		mg/L		98	80 - 120
Cobalt	0.500	0.519		mg/L		104	80 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-686617/2-A
Matrix: Solid
Analysis Batch: 687706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686617

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	0.988		mg/L		99	80 - 120
Lead	0.100	0.0960		mg/L		96	80 - 120
Manganese	0.500	0.490		mg/L		98	80 - 120
Nickel	0.500	0.508		mg/L		102	80 - 120
Selenium	0.100	0.110		mg/L		110	80 - 120
Silver	0.0500	0.0533		mg/L		107	80 - 120
Zinc	0.500	0.548		mg/L		110	80 - 120

Lab Sample ID: LCS 500-686620/2-A
Matrix: Solid
Analysis Batch: 687846

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686620

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	0.0500	0.0486		mg/L		97	80 - 120
Lead	0.100	0.0995		mg/L		100	80 - 120
Manganese	0.500	0.505		mg/L		101	80 - 120

Lab Sample ID: MB 500-686720/1-A
Matrix: Solid
Analysis Batch: 687677

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686720

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Arsenic	<1.0		1.0	0.34	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Barium	<1.0		1.0	0.11	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Beryllium	<0.40		0.40	0.093	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Boron	0.511	J	5.0	0.47	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Cadmium	0.0438	J	0.20	0.036	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Calcium	3.90	J	20	3.4	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Chromium	<1.0		1.0	0.50	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Cobalt	<0.50		0.50	0.13	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Copper	<1.0		1.0	0.28	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Iron	<20		20	10	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Lead	<0.50		0.50	0.23	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Magnesium	<10		10	5.0	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Manganese	<1.0		1.0	0.15	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Nickel	<1.0		1.0	0.29	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Potassium	<50		50	18	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Selenium	<1.0		1.0	0.59	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Silver	<0.50		0.50	0.13	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Sodium	<100		100	15	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Thallium	<1.0		1.0	0.50	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Vanadium	<0.50		0.50	0.12	mg/Kg		11/23/22 09:41	11/30/22 14:51	1
Zinc	<2.0		2.0	0.88	mg/Kg		11/23/22 09:41	11/30/22 14:51	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-686720/2-A
Matrix: Solid
Analysis Batch: 687677

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686720

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	44.1		mg/Kg		88	80 - 120
Arsenic	10.0	8.86		mg/Kg		89	80 - 120
Barium	200	193		mg/Kg		97	80 - 120
Beryllium	5.00	4.47		mg/Kg		89	80 - 120
Boron	100	83.3		mg/Kg		83	80 - 120
Cadmium	5.00	4.40		mg/Kg		88	80 - 120
Calcium	1000	954		mg/Kg		95	80 - 120
Chromium	20.0	19.1		mg/Kg		95	80 - 120
Cobalt	50.0	47.7		mg/Kg		95	80 - 120
Copper	25.0	24.2		mg/Kg		97	80 - 120
Iron	100	104		mg/Kg		104	80 - 120
Lead	10.0	9.15		mg/Kg		91	80 - 120
Magnesium	1000	896		mg/Kg		90	80 - 120
Manganese	50.0	46.0		mg/Kg		92	80 - 120
Nickel	50.0	46.4		mg/Kg		93	80 - 120
Potassium	1000	917		mg/Kg		92	80 - 120
Selenium	10.0	8.20		mg/Kg		82	80 - 120
Silver	5.00	4.19		mg/Kg		84	80 - 120
Sodium	1000	932		mg/Kg		93	80 - 120
Thallium	10.0	9.16		mg/Kg		92	80 - 120
Vanadium	50.0	47.4		mg/Kg		95	80 - 120
Zinc	50.0	46.5		mg/Kg		93	80 - 120

Lab Sample ID: LB 500-686377/1-B
Matrix: Solid
Analysis Batch: 687706

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 686617

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		11/22/22 18:35	11/30/22 15:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/22 18:35	11/30/22 15:38	1
Boron	0.276	J	0.50	0.050	mg/L		11/22/22 18:35	11/30/22 15:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 18:35	11/30/22 15:38	1
Chromium	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:38	1
Cobalt	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:38	1
Iron	<0.40		0.40	0.20	mg/L		11/22/22 18:35	11/30/22 15:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 18:35	11/30/22 15:38	1
Manganese	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:38	1
Nickel	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:38	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/22 18:35	11/30/22 15:38	1
Silver	<0.025		0.025	0.010	mg/L		11/22/22 18:35	11/30/22 15:38	1
Zinc	<0.50		0.50	0.020	mg/L		11/22/22 18:35	11/30/22 15:38	1

Lab Sample ID: LB 500-686388/1-B
Matrix: Solid
Analysis Batch: 687846

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 686620

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/22/22 19:37	12/01/22 15:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/22 19:37	12/01/22 15:14	1

Eurofins Chicago

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-686388/1-B
Matrix: Solid
Analysis Batch: 687846

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 686620

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		11/22/22 19:37	12/01/22 15:14	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-686617/2-A
Matrix: Solid
Analysis Batch: 687529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686617

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.486		mg/L		97	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: LB 500-686377/1-B
Matrix: Solid
Analysis Batch: 687529

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 686617

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/22/22 18:35	11/29/22 15:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/22/22 18:35	11/29/22 15:45	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-686728/12-A
Matrix: Solid
Analysis Batch: 687111

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686728

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 09:15	11/28/22 08:32	1

Lab Sample ID: LCS 500-686728/14-A
Matrix: Solid
Analysis Batch: 687111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686728

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00191		mg/L		96	80 - 120

Lab Sample ID: LCS 500-686728/32-A
Matrix: Solid
Analysis Batch: 687111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686728

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00191		mg/L		96	80 - 120

Lab Sample ID: LB 500-686377/1-C
Matrix: Solid
Analysis Batch: 687111

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 686728

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/23/22 09:15	11/28/22 08:34	1

Eurofins Chicago

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-687107/12-A
Matrix: Solid
Analysis Batch: 687292

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687107

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00635	J	0.017	0.0056	mg/Kg		11/28/22 16:35	11/29/22 09:07	1

Lab Sample ID: LCS 500-687107/13-A
Matrix: Solid
Analysis Batch: 687292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687107

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.165	0.166		mg/Kg		101	80 - 120

Lab Sample ID: 500-225423-3 MS
Matrix: Solid
Analysis Batch: 687292

Client Sample ID: 1401V3-29-B02 (0-6)
Prep Type: Total/NA
Prep Batch: 687107

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.069	B	0.0984	0.167		mg/Kg	⊛	99	75 - 125

Lab Sample ID: 500-225423-3 MSD
Matrix: Solid
Analysis Batch: 687292

Client Sample ID: 1401V3-29-B02 (0-6)
Prep Type: Total/NA
Prep Batch: 687107

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.069	B	0.0985	0.179		mg/Kg	⊛	111	75 - 125	7	20

Lab Sample ID: 500-225423-3 DU
Matrix: Solid
Analysis Batch: 687292

Client Sample ID: 1401V3-29-B02 (0-6)
Prep Type: Total/NA
Prep Batch: 687107

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.069	B	0.0451	F3	mg/Kg	⊛	42	20

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

Client Sample ID: 1401V3-29-B01 (0-7)

Lab Sample ID: 500-225423-1

Date Collected: 11/14/22 12:40

Matrix: Solid

Date Received: 11/14/22 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686388	AW	EET CHI	11/21/22 12:03 - 11/22/22 06:03 ¹
SPLP East	Prep	3010A			686620	LMB	EET CHI	11/22/22 19:37 - 11/22/22 20:07 ¹
SPLP East	Analysis	6010B		1	687846	JJJ	EET CHI	12/01/22 16:05
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6010B		1	687706	JJJ	EET CHI	11/30/22 16:20
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 16:11
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686728	MJG	EET CHI	11/23/22 09:15 - 11/23/22 11:15 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 09:04
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 18:43
Total/NA	Analysis	Moisture		1	685677	LWN	EET CHI	11/17/22 16:02

Client Sample ID: 1401V3-29-B01 (0-7)

Lab Sample ID: 500-225423-1

Date Collected: 11/14/22 12:40

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372631	MZR8	EET CF	11/15/22 09:07
Total/NA	Prep	5035			372633	MZR8	EET CF	11/21/22 08:21
Total/NA	Analysis	8260D		1	372636	MZR8	EET CF	11/22/22 04:52
Total/NA	Prep	3541			686550	EK	EET CHI	11/22/22 13:30 - 11/22/22 17:00 ¹
Total/NA	Analysis	8270D		1	687247	SS	EET CHI	11/29/22 18:29
Total/NA	Prep	3050B			686720	BDE	EET CHI	11/23/22 09:41 - 11/23/22 10:11 ¹
Total/NA	Analysis	6010B		1	687677	JJJ	EET CHI	11/30/22 15:49
Total/NA	Prep	7471B			687107	MJG	EET CHI	11/28/22 16:35
Total/NA	Analysis	7471B		1	687292	MJG	EET CHI	11/29/22 09:44

Client Sample ID: 1401V3-29-B01 (7-13)

Lab Sample ID: 500-225423-2

Date Collected: 11/14/22 12:50

Matrix: Solid

Date Received: 11/14/22 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686388	AW	EET CHI	11/21/22 12:03 - 11/22/22 06:03 ¹
SPLP East	Prep	3010A			686620	LMB	EET CHI	11/22/22 19:37 - 11/22/22 20:07 ¹
SPLP East	Analysis	6010B		1	687846	JJJ	EET CHI	12/01/22 16:08
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6010B		2	687778	JJJ	EET CHI	12/01/22 13:41
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6010B		1	687706	JJJ	EET CHI	11/30/22 16:23

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

Client Sample ID: 1401V3-29-B01 (7-13)

Lab Sample ID: 500-225423-2

Date Collected: 11/14/22 12:50

Matrix: Solid

Date Received: 11/14/22 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 16:13
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686728	MJG	EET CHI	11/23/22 09:15 - 11/23/22 11:15 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 09:06
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 18:46
Total/NA	Analysis	Moisture		1	685677	LWN	EET CHI	11/17/22 16:02

Client Sample ID: 1401V3-29-B01 (7-13)

Lab Sample ID: 500-225423-2

Date Collected: 11/14/22 12:50

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372631	MZR8	EET CF	11/15/22 09:07
Total/NA	Prep	5035			372633	MZR8	EET CF	11/21/22 08:21
Total/NA	Analysis	8260D		1	372636	MZR8	EET CF	11/22/22 05:17
Total/NA	Prep	3541			686550	EK	EET CHI	11/22/22 13:30 - 11/22/22 17:00 ¹
Total/NA	Analysis	8270D		1	687247	SS	EET CHI	11/29/22 18:51
Total/NA	Prep	3050B			686720	BDE	EET CHI	11/23/22 09:41 - 11/23/22 10:11 ¹
Total/NA	Analysis	6010B		1	687677	JJJ	EET CHI	11/30/22 15:52
Total/NA	Prep	3050B			686720	BDE	EET CHI	11/23/22 09:41 - 11/23/22 10:11 ¹
Total/NA	Analysis	6010B		5	687779	JJJ	EET CHI	12/01/22 11:24
Total/NA	Prep	7471B			687107	MJG	EET CHI	11/28/22 16:35
Total/NA	Analysis	7471B		1	687292	MJG	EET CHI	11/29/22 09:46

Client Sample ID: 1401V3-29-B02 (0-6)

Lab Sample ID: 500-225423-3

Date Collected: 11/14/22 13:10

Matrix: Solid

Date Received: 11/14/22 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6010B		1	687706	JJJ	EET CHI	11/30/22 16:26
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 16:15
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686728	MJG	EET CHI	11/23/22 09:15 - 11/23/22 11:15 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 09:08
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 18:48
Total/NA	Analysis	Moisture		1	685677	LWN	EET CHI	11/17/22 16:02

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

Client Sample ID: 1401V3-29-B02 (0-6)

Lab Sample ID: 500-225423-3

Date Collected: 11/14/22 13:10

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 75.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372631	MZR8	EET CF	11/15/22 09:07
Total/NA	Prep	5035			372633	MZR8	EET CF	11/21/22 08:21
Total/NA	Analysis	8260D		1	372636	MZR8	EET CF	11/22/22 05:42
Total/NA	Prep	3541			686550	EK	EET CHI	11/22/22 13:30 - 11/22/22 17:00 ¹
Total/NA	Analysis	8270D		10	687474	SS	EET CHI	11/30/22 13:59
Total/NA	Prep	3050B			686720	BDE	EET CHI	11/23/22 09:41 - 11/23/22 10:11 ¹
Total/NA	Analysis	6010B		1	687677	JJJ	EET CHI	11/30/22 15:55
Total/NA	Prep	7471B			687107	MJG	EET CHI	11/28/22 16:35
Total/NA	Analysis	7471B		1	687292	MJG	EET CHI	11/29/22 09:48

Client Sample ID: 1401V3-29-B03 (0-6)

Lab Sample ID: 500-225423-4

Date Collected: 11/14/22 13:35

Matrix: Solid

Date Received: 11/14/22 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			686388	AW	EET CHI	11/21/22 12:03 - 11/22/22 06:03 ¹
SPLP East	Prep	3010A			686620	LMB	EET CHI	11/22/22 19:37 - 11/22/22 20:07 ¹
SPLP East	Analysis	6010B		1	687846	JJJ	EET CHI	12/01/22 16:11
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6010B		1	687706	JJJ	EET CHI	11/30/22 16:29
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	3010A			686617	LMB	EET CHI	11/22/22 18:35 - 11/22/22 19:05 ¹
TCLP	Analysis	6020A		1	687529	FXG	EET CHI	11/29/22 16:17
TCLP	Leach	1311			686377	AW	EET CHI	11/21/22 14:52 - 11/22/22 06:52 ¹
TCLP	Prep	7470A			686728	MJG	EET CHI	11/23/22 09:15 - 11/23/22 11:15 ¹
TCLP	Analysis	7470A		1	687111	MJG	EET CHI	11/28/22 09:14
Total/NA	Analysis	9045D		1	685788	LWN	EET CHI	11/17/22 18:51
Total/NA	Analysis	Moisture		1	685677	LWN	EET CHI	11/17/22 16:02

Client Sample ID: 1401V3-29-B03 (0-6)

Lab Sample ID: 500-225423-4

Date Collected: 11/14/22 13:35

Matrix: Solid

Date Received: 11/14/22 17:56

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			372631	MZR8	EET CF	11/15/22 09:07
Total/NA	Prep	5035			372637	MZR8	EET CF	11/21/22 08:33
Total/NA	Analysis	8260D		1	372638	MZR8	EET CF	11/22/22 09:00
Total/NA	Prep	3541			686550	EK	EET CHI	11/22/22 13:30 - 11/22/22 17:00 ¹
Total/NA	Analysis	8270D		1	689515	JSB	EET CHI	12/13/22 11:56
Total/NA	Prep	3050B			686720	BDE	EET CHI	11/23/22 09:41 - 11/23/22 10:11 ¹
Total/NA	Analysis	6010B		1	687677	JJJ	EET CHI	11/30/22 15:59
Total/NA	Prep	7471B			687107	MJG	EET CHI	11/28/22 16:35
Total/NA	Analysis	7471B		1	687292	MJG	EET CHI	11/29/22 09:56

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401
EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO 13 IL 56

Job ID: 500-225423-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

Laboratory: Eurofins Cedar Falls

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Colorado	Petroleum Storage Tank Program	IA100001 (OR)	09-29-23
Georgia	State	IA100001 (OR)	09-29-23
Illinois	NELAP	200024	11-28-22
Iowa	State	007	12-01-23
Kansas	NELAP	E-10341	01-31-23
Minnesota	NELAP	019-999-319	12-31-22
Minnesota (Petrofund)	State	3349	01-18-24
North Dakota	State	R-186	09-29-23
Oregon	NELAP	IA100001	09-29-23

Chain of Custody Record

522942




Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager: <i>D. Tiebout</i>		Site Contact: <i>A. Hopper</i>		Date: <i>11/14/22</i>		COC No: <i>5</i>	
Company Name: <i>WSP</i>		Tel/Email:		Lab Contact: <i>R. Wright</i>		Carrier:		# of <i>8</i> COCs	
Address: <i>30 W Lake St</i>		Analysis Turnaround Time							
City/State/Zip: <i>Chicago IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____							
Phone:		<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							
Fax:		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ PH _____ Solids _____ Total Metals _____ VOCs _____ SVOCs _____ TULP <input checked="" type="checkbox"/>							
Project Name: <i>DOT 4013 - Butterfield Rd</i>									
Site: <i>31403035.013</i>									
PO#:									
QR Code: 		500-225423 COC							
Sampler:		For Lab Use Only							
Walk-in Client:		Lab Sampling:							
Job / SDG No:		<i>500-225423</i>							
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.	Sample Specific Notes		
<i>1401V3-29-B01 (0-7)</i>		<i>11/14/22</i>	<i>1240</i>	<i>C</i>	<i>S</i>	<i>2</i>			
<i>1401V3-29-B01 (7-13)</i>		<i>11/14/22</i>	<i>1250</i>	<i>C</i>	<i>S</i>	<i>2</i>			
<i>1401V3-29-B02 (0-6)</i>		<i>11/14/22</i>	<i>1310</i>	<i>C</i>	<i>S</i>	<i>2</i>			
<i>1401V3-29-B03 (0-6)</i>		<i>11/14/22</i>	<i>1335</i>	<i>C</i>	<i>S</i>	<i>2</i>			
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other									
Possible Hazard Identification:						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample						<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months			
<input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown									
Special Instructions/QC Requirements & Comments:									
* SLP analysis based on TULP results <i>3.3-73.5, 3.4-73.6</i>									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No _____			
Relinquished by: <i>[Signature]</i>		Company: <i>WSP</i>		Date/Time: <i>11/14/22 1630</i>		Received by: <i>[Signature]</i>		Company: <i>ETA</i>	
Relinquished by: <i>[Signature]</i>		Company: <i>ETA</i>		Date/Time: <i>11/14/22 1756</i>		Received by:		Company:	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by: <i>[Signature]</i>		Company: <i>ETA</i>	
								Date/Time: <i>11/15/22 0715</i>	



Environment Testing
America



500-225423 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Chicago</u>			
City/State:	<u>Univ Park</u>	STATE <u>IL</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>11-18-22</u>	TIME <u>1445</u>	Received By: <u>RL</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>1</u> of <u>2</u>	
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
Temperature Record			
Coolant:	<input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____	<input type="checkbox"/> NONE	
Thermometer ID:	<u>R</u>	Correction Factor (°C): <u>0</u>	
* Temp Blank Temperature - If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):	<u>1.9</u>	Corrected Temp (°C): <u>1.9</u>	
Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No			
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			





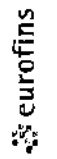
Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Chicago</u>			
City/State:	<u>Univ Park</u>	STATE: <u>IL</u>	Project:
Receipt Information			
Date/Time Received:	DATE: <u>11-18-22</u>	TIME: <u>1445</u>	Received By: <u>PK</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>2</u> of <u>2</u>	
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
<u>FW005</u>			
Temperature Record			
Coolant:	<input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE		
Thermometer ID:	<u>R</u>	Correction Factor (°C):	<u>0</u>
* Temp Blank Temperature - If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):	<u>0.6</u>	Corrected Temp (°C):	<u>0.6</u>
Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab POC: Wright, Richard		Carrier Tracking No(s): 500-167695 1	
Client Contact: Shipping/Receiving		E-Mail: Richard.Wright@et.eurofins.com		Pages: Page 1 of 1	
Company: Eurofins Environment Testing North Cent		Accreditations Required (See note): NELAP - Illinois		Job #: 500-225423-1	
Address: 3019 Venture Way,		Due Date Requested: 11/29/2022		Analysis Requested:	
City: Cedar Falls		TAT Requested (days):		M - Hexane	
State/Zip: IA, 50613		PO #:		N - Nbre	
Phone: 319-277-2401 (Tel) 319-277-2425 (Fax)		WO #:		O - AsNaO2	
E-mail:		Project #: 50020822		P - Na2OAS	
IDOT - 196-002-WO 13 IL 56		SSOW#:		Q - Na2SO3	
Site:		Matrix		R - Na2S2O3	
		Sample Type (C=comp, G=grab)		S - H2SO4	
		Sample Time		T - TSP Dodecahydrate	
		Sample Date		U - Acetone	
		Preservation Code:		V - MCAA	
		Field Filled Sample (Yes or No)		W - pH 4-5	
		9260/Frozen (48hr MOD) Copy Analytes		Y - Tritona	
		Field Filled Sample (Yes or No)		Z - other (specify)	
		Total Number of Containers		Special Instructions/Note:	
		1401V3-29-B01 (0-7) (500-225423-1)			
		1401V3-29-B01 (7-13) (500-225423-2)			
		1401V3-29-B02 (0-6) (500-225423-3)			
		1401V3-29-B03 (0-6) (500-225423-4)			

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification
 Unconfirmed Return To Client Disposal By Lab Archive For _____ Months
 Deliverable Requested I, II, III, IV, Other (specify) _____ Primary Deliverable Rank. 2

Empty Kit Relinquished by _____ Date _____
 Relinquished by _____ Date/Time: 11/18/22 14:45 Company: MV
 Relinquished by _____ Date/Time: _____ Company: _____
 Relinquished by _____ Date/Time: _____ Company: _____
 Custody Seals Intact: _____ Cooler Temperature(s) °C and Other Remarks: _____
 Δ Yes Δ No



Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225423-1

Login Number: 225423

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5,3.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-225423-1

Login Number: 225423

List Number: 2

Creator: Kizer, Preston V

List Source: Eurofins Cedar Falls

List Creation: 11/18/22 06:03 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

