



Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAI 80 (I-80) Office Phone Number, if available: _____

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

I-80 approximate M.M. 121.5 to M.M. 138 (ISGS #2233V2-1)

City: Multiple State: IL Zip Code: 60433

County: Will Township: Joliet

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

Latitude: 41.51344 Longitude: - 88.06261
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

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

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

See attachment A for locations sampled within the construction zone at ISGS #2233V2-1 (ROW). Refer to PSI Report including Table 4-3, and Figures 4-2 through 4-8.

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

See attached data summary table and associated laboratory data packages J212294-1, J212335-1, J212441-1, and J212442-1.

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

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

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

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

Tom Campbell
Printed Name:

Campbell,
Thomas
(USTC689263)

Digitally signed by Campbell, Thomas
(USTC689263)
DN: cn=Campbell, Thomas (USTC689263),
ou=Active, email=Tom.Campbell@wsp.com
Reason: I agree to the terms defined by the
placement of my signature on this document
Date: 2022.03.10 17:30:16 -05'00'

03/10/2022

Date:



Expires 11/30/2023

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

[Empty box for signature]

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

Attachment A

2233V2-01-B01

2233V2-01-B02

2233V2-01-B03

2233V2-01-B04

2233V2-01-B05

2233V2-01-B07

2233V2-01-B08

2233V2-01-B09

2233V2-01-B10

2233V2-01-B11

2233V2-01-B15

2233V2-01-B21

2233V2-01-B22

2233V2-01-B24

2233V2-01-B25

2233V2-01-B26

2233V2-01-B28

2233V2-01-B29

2233V2-01-B30

2233V2-01-B31

2233V2-01-B33

2233V2-01-B34

2233V2-01-B35

2233V2-01-B36



2233V2-01-B37

Analytical Data Summary
PTB #196-002; Work Order 03 - IDOT Job # D-91-441-20

Key to Data Tables

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

Criteria Qualifiers and Shading

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

PTB #196-002; Work Order 03 - IDOT Job # D-91-441-20
CONTAMINANTS OF CONCERN

SITE	ISGS #2233V2-1 (ROW)				Comparison Criteria					
	2233V2-01-B01		2233V2-01-B02		MACs			TACO		
BORING	2233V2-01-B01 (0-5)		2233V2-01-B02 (0-5)		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	2233V2-01-B01 (0-5)	2233V2-01-B01 (5-10)	2233V2-01-B02 (0-5)	2233V2-01-B02 (5-10)						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-5	5-10	0-5	5-10						
pH	8.0	7.6	8.1	7.5						
PID (meter units)	--	--	--	--						
VOCs (mg/kg)										
2-Butanone (MEK)	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Acetone	0.012 J	0.024	0.012 J	0.024	25	--	--	70,000	100,000	--
Carbon disulfide	ND U	ND U	ND U	ND U	9	--	--	720	9	--
SVOCs (mg/kg)										
2-Methylnaphthalene	0.012 J	ND U	0.0072 J	ND U	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Anthracene	ND U	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	ND U	ND U	ND U	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	ND U	ND U	ND U	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	ND U	ND U	ND U	ND U	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	ND U	ND U	ND U	ND U	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--
Butyl benzyl phthalate	ND U	ND U	ND U	ND U	930	--	--	930	930	--
Carbazole	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	0.018 J	ND U	0.012 J	0.011 J	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	ND U	ND U	ND U	ND U	3,100	--	--	3,100	82,000	--
Fluorene	ND U	ND U	ND U	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND U	ND U	ND U	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	ND U	ND U	ND U	1.8	--	--	170	1.8	--
Phenanthrene	0.021 J	0.0070 J	0.014 J	0.017 J	--	--	--	--	--	--
Pyrene	0.012 J	ND UJ	ND UJ	ND UJ	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)										
Antimony	0.30 J	0.32 J	0.25 J	0.30 J	5	--	--	31	82	--
Arsenic	11	8.7	11	8.4	11.3	13	--	13	61	--
Barium	23	49	32	39	1,500	--	--	5,500	14,000	--
Beryllium	0.30	0.45	0.34	0.44	22	--	--	160	410	--
Boron	5.5	3.9	5.3	5.7	40	--	--	16,000	41,000	--
Cadmium	ND U	ND U	ND U	ND U	5.2	--	--	78	200	--
Calcium	85,000	48,000	75,000	57,000	--	--	--	--	--	--
Chromium	9.1	13	10	14	21	--	--	230	690	--
Cobalt	8.9	12	9.7	12	20	--	--	4,700	12,000	--
Copper	23	19	21	20	2,900	--	--	2,900	8,200	--
Iron	19,000 †m	18,000 †m	20,000 †m	19,000 †m	15,000	15,900	--	--	--	--
Lead	12	13	12	12	107	--	--	400	700	--
Magnesium	46,000	20,000	39,000	23,000	325,000	--	--	--	730,000	--
Manganese	390	410	380	380	630	636	--	1,600	4,100	--
Mercury	0.020	0.024	0.021	0.020	0.89	--	--	10	0.1	--
Nickel	21	24	23	27	100	--	--	1,600	4,100	--
Potassium	1,000	980	1,100	1,400	--	--	--	--	--	--
Selenium	ND U	ND U	ND U	ND U	1.3	--	--	390	1,000	--
Silver	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	--
Sodium	1,700	470	1,600	390	--	--	--	--	--	--
Thallium	0.37 J	0.55 J	0.56	0.31 J	2.6	--	--	6.3	160	--
Vanadium	11	17	12	15	550	--	--	550	1,400	--
Zinc	59	59	58	56	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	0.47 J	0.52	0.43 J	0.38 J	--	--	--	--	--	2
Boron	ND U	ND U	ND U	ND U	--	--	--	--	--	2
Cadmium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	0.014 J	ND U	0.012 J	0.010 J	--	--	--	--	--	1
Iron	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	3.2 L	4.7 L	3.0 L	3.4 L	--	--	--	--	--	0.15
Mercury	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002
Nickel	0.017 J	ND U	0.014 J	0.011 J	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05
Zinc	ND U	ND U	0.043 J	0.057 J	--	--	--	--	--	5
SPLP Metals (mg/L)										
Cadmium	NA	NA	NA	NA	--	--	--	--	--	0.005
Lead	NA	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	2.3 L	0.35 L	2.1 L	0.099	--	--	--	--	--	0.15
Nickel	NA	NA	NA	NA	--	--	--	--	--	0.1

PTB #196-002; Work Order 03 - IDOT Job # D-91-441-20
CONTAMINANTS OF CONCERN

SITE	ISGS #2233V2-1 (ROW)					Comparison Criteria					
	2233V2-01-B03		2233V2-01-B04			MACs			TACO		
BORING	2233V2-01-B03 (0-5)		2233V2-01-B04 (0-4)		2233V2-01-B04 (0-4)D		2233V2-01-B04 (4-7.8)				
SAMPLE	2233V2-01-B03 (0-5)	2233V2-01-B03 (5-9.6)	2233V2-01-B04 (0-4)	2233V2-01-B04 (0-4)D	2233V2-01-B04 (4-7.8)						
MATRIX	Soil	Soil	Soil	Soil	Soil	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
DEPTH (feet)	0-5	5-9.6	0-4	0-4	4-7.8						
pH	8.0	7.7	8.4	8.2	7.5						
PID (meter units)	--	--	--	--	--						
VOcs (mg/kg)											
2-Butanone (MEK)	ND U	0.0031 J	ND U	ND U	ND U	--	--	--	--	--	--
Acetone	0.022	0.024	0.011 J	0.026	ND U	25	--	--	70,000	100,000	--
Carbon disulfide	ND U	ND U	ND U	ND U	ND U	9	--	--	720	9	--
SVOcs (mg/kg)											
2-Methylnaphthalene	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	0.0072 J	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Anthracene	ND U	ND U	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	ND U	ND U	ND U	ND U	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	ND U	ND U	ND UJ	ND UJ	ND UJ	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	ND U	ND U	0.0090 J	ND UJ	ND UJ	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	ND U	ND U	ND UJ	0.015 J	ND UJ	--	--	--	--	--	--
Benzo(k)fluoranthene	ND U	ND U	ND UJ	ND UJ	ND UJ	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--
Butyl benzyl phthalate	ND U	ND U	ND U	ND U	ND U	930	--	--	930	930	--
Carbazole	ND U	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	0.010 J	ND U	0.014 J	0.020 J	0.017 J	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND U	ND U	ND UJ	ND UJ	ND UJ	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	ND U	ND U	ND U	ND U	ND U	3,100	--	--	3,100	82,000	--
Fluorene	ND U	ND U	ND U	ND U	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND U	ND U	ND UJ	ND UJ	ND UJ	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	ND U	ND U	ND U	ND U	1.8	--	--	170	1.8	--
Phenanthrene	0.013 J	0.0057 J	0.020 J	0.039	0.016 J	--	--	--	--	--	--
Pyrene	ND UJ	ND UJ	0.0086 J	0.017 J	0.013 J	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)											
Antimony	0.34 J	0.32 J	0.33 J	0.48 J	0.32 J	5	--	--	31	82	--
Arsenic	8.3	9.1	9.0	13	10	11.3	13	--	13	61	--
Barium	41	57	35	26	29	1,500	--	--	5,500	14,000	--
Beryllium	0.44	0.48	0.54	0.49	0.53	22	--	--	160	410	--
Boron	5.2	4.8	4.7	5.6	5.1	40	--	--	16,000	41,000	--
Cadmium	ND U	ND U	ND U	ND U	ND U	5.2	--	--	78	200	--
Calcium	57,000	67,000	66,000	58,000	72,000	--	--	--	--	--	--
Chromium	12	13	11	10	16	21	--	--	230	690	--
Cobalt	11	10	9.9	15	11	20	--	--	4,700	12,000	--
Copper	21	22	21	28	19	2,900	--	--	2,900	8,200	--
Iron	18,000 †m	19,000 †m	18,000 †m	17,000 †m	17,000 †m	15,000	15,900	--	--	--	--
Lead	15	13	11 J	90 J	11	107	--	--	400	700	--
Magnesium	26,000	27,000	26,000	26,000	26,000	325,000	--	--	--	730,000	--
Manganese	370	400	350	320	350	630	636	--	1,600	4,100	--
Mercury	0.038	0.025	0.028	ND U	ND U	0.89	--	--	10	0.1	--
Nickel	26	27	24	31	26	100	--	--	1,600	4,100	--
Potassium	1,200	1,100	1,000	1,200	1,100	--	--	--	--	--	--
Selenium	ND U	ND U	ND U	ND U	ND U	1.3	--	--	390	1,000	--
Silver	ND U	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	--
Sodium	2,200	1,200	1,800	1,400	1,500	--	--	--	--	--	--
Thallium	0.58 J	0.52 J	0.72	1.1	0.67	2.6	--	--	6.3	160	--
Vanadium	15	15	13	12	16	550	--	--	550	1,400	--
Zinc	61	61	57	100	51	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)											
Barium	0.55	0.52	0.58	0.49 J	0.44 J	--	--	--	--	--	2
Boron	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	2
Cadmium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	ND U	ND U	0.011 J	0.029	0.016 J	--	--	--	--	--	1
Iron	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	3.9 L	3.4 L	4.2 L	4.4 L	3.8 L	--	--	--	--	--	0.15
Mercury	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002
Nickel	ND U	ND U	0.010 J	0.038	0.024 J	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05
Zinc	ND U	0.035 J	ND U	0.039 J	ND U	--	--	--	--	--	5
SPLP Metals (mg/L)											
Cadmium	NA	NA	NA	NA	NA	--	--	--	--	--	0.005
Lead	NA	NA	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	2.6 L	1.7 L	2.3 L	1.4 L	1.1 L	--	--	--	--	--	0.15
Nickel	NA	NA	NA	NA	NA	--	--	--	--	--	0.1

PTB #196-002; Work Order 03 - IDOT Job # D-91-441-20
CONTAMINANTS OF CONCERN

SITE	ISGS #2233V2-1 (ROW)				Comparison Criteria					
	2233V2-01-B05	2233V2-01-B06	2233V2-01-B07		MACs			TACO		
SAMPLE	2233V2-01-B05 (0-5.8)	2233V2-01-B06 (0-5.7)	2233V2-01-B07 (0-4)	2233V2-01-B07 (4-7.2)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-5.8	0-5.7	0-4	4-7.2						
pH	8.6	8.6	8.5	8.3						
PID (meter units)	--	--	--	--						
VOcs (mg/kg)										
2-Butanone (MEK)	ND U	ND U	ND U	0.023	--	--	--	--	--	--
Acetone	0.014 J	ND U	ND U	0.096	25	--	--	70,000	100,000	--
Carbon disulfide	ND U	ND U	ND U	ND U	9	--	--	720	9	--
SVOcs (mg/kg)										
2-Methylnaphthalene	ND U	0.012 J	ND U	0.045 J	--	--	--	--	--	--
Acenaphthene	0.0084 J	ND U	ND U	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Anthracene	0.045	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	0.12	0.0061 J	ND U	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.12 J	ND UJ	ND UJ	ND UJ	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.16 J	ND UJ	ND UJ	ND UJ	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	0.038 J	0.014 J	ND UJ	0.014 J	--	--	--	--	--	--
Benzo(k)fluoranthene	0.078 J	ND UJ	ND UJ	ND UJ	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND UJ	ND UJ	ND UJ	46	--	--	46	4,100	--
Butyl benzyl phthalate	ND U	ND UJ	ND UJ	ND UJ	930	--	--	930	930	--
Carbazole	ND UJ	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	0.15	0.016 J	ND U	0.013 J	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	0.012 J	ND UJ	ND UJ	ND UJ	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	0.27	0.0075 J	ND U	ND U	3,100	--	--	3,100	82,000	--
Fluorene	0.0091 J	ND U	ND U	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.036 J	ND UJ	ND UJ	ND UJ	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	ND U	ND U	0.019 J	1.8	--	--	170	1.8	--
Phenanthrene	0.13	0.023 J	ND U	0.043	--	--	--	--	--	--
Pyrene	0.4	0.019 J	ND U	0.019 J	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)										
Antimony	0.25 J	0.58 J	0.4 J	0.25 J	5	--	--	31	82	--
Arsenic	6.3	19 †mr	9.8	6.1	11.3	13	--	13	61	--
Barium	49	66	61	37	1,500	--	--	5,500	14,000	--
Beryllium	0.59	0.86 J	0.64	0.67	22	--	--	160	410	--
Boron	13	12	10	14	40	--	--	16,000	41,000	--
Cadmium	0.09 J	ND U	0.027 J	ND U	5.2	--	--	78	200	--
Calcium	91,000	68,000	31,000	79,000	--	--	--	--	--	--
Chromium	16	19	18	18	21	--	--	230	690	--
Cobalt	10	15	11	12	20	--	--	4,700	12,000	--
Copper	20	27	22	22	2,900	--	--	2,900	8,200	--
Iron	18,000 †m	45,000 †m	23,000 †m	20,000 †m	15,000	15,900	--	--	--	--
Lead	15	20	16	12	107	--	--	400	700	--
Magnesium	33,000	27,000	18,000	29,000	325,000	--	--	--	730,000	--
Manganese	430	500	360	410	630	636	--	1,600	4,100	--
Mercury	0.022	0.046	0.055	0.027	0.89	--	--	10	0.1	--
Nickel	24	51	30	30	100	--	--	1,600	4,100	--
Potassium	2,700	3,100	2,300	3,300	--	--	--	--	--	--
Selenium	ND U	0.43 J	ND U	ND U	1.3	--	--	390	1,000	--
Silver	0.23 J	0.28	0.33	0.24 J	4.4	--	--	390	1,000	--
Sodium	1,300	1,700	1,200	910	--	--	--	--	--	--
Thallium	0.56	ND U	0.87	0.71	2.6	--	--	6.3	160	--
Vanadium	20	32	24	22	550	--	--	550	1,400	--
Zinc	57	57	70	56	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	0.32 J	0.6	0.42 J-	0.58	--	--	--	--	--	2
Boron	0.057 J	ND U	ND UR	ND U	--	--	--	--	--	2
Cadmium	0.0021 J	ND U	ND UR	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND UR	ND U	--	--	--	--	--	0.1
Cobalt	0.01 J	ND U	ND UR	0.021 J	--	--	--	--	--	1
Iron	0.22 J	ND U	ND UR	ND U	--	--	--	--	--	5
Lead	ND U	ND U	ND UR	ND U	--	--	--	--	--	0.0075
Manganese	3.4 L	3.9 L	0.11 J-	2.7 L	--	--	--	--	--	0.15
Mercury	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002
Nickel	0.013 J	ND U	ND UR	0.041	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND UR	ND U	--	--	--	--	--	0.05
Zinc	ND U	0.02 J	ND UR	0.021 J	--	--	--	--	--	5
SPLP Metals (mg/L)										
Cadmium	NA	NA	NA	NA	--	--	--	--	--	0.005
Lead	NA	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	1.7 L	2.8 L	NA	1.7 L	--	--	--	--	--	0.15
Nickel	NA	NA	NA	NA	--	--	--	--	--	0.1

PTB #196-002; Work Order 03 - IDOT Job # D-91-441-20
CONTAMINANTS OF CONCERN

SITE	ISGS #2233V2-1 (ROW)				Comparison Criteria					
	BORING	2233V2-01-B08	2233V2-01-B09	2233V2-01-B10	MACs			TACO		
SAMPLE	2233V2-01-B08 (0-4)	2233V2-01-B09 (0-3.4)	2233V2-01-B10 (0-3)	2233V2-01-B10 (3-6.7)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-4	0-3.4	0-3	3-6.7						
pH	8	8.7	8.8	8.4						
PID (meter units)	--	--	--	--						
VOCs (mg/kg)										
2-Butanone (MEK)	0.0079	ND U	ND U	ND U	--	--	--	--	--	--
Acetone	0.038	ND U	0.0092 J	ND U	25	--	--	70,000	100,000	--
Carbon disulfide	ND U	ND U	ND U	ND U	9	--	--	720	9	--
SVOCs (mg/kg)										
2-Methylnaphthalene	0.016 J	0.0073 J	ND U	ND U	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	0.0066 J	ND U	ND U	ND U	--	--	--	--	--	--
Anthracene	0.026 J	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	0.058	ND U	ND U	0.028 J	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.34 J ↑	ND UJ	ND UJ	0.029 J	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.21 J	ND UJ	ND UJ	0.051	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	0.56 J	0.012 J	ND UJ	0.016 J	--	--	--	--	--	--
Benzo(k)fluoranthene	ND UJ	ND UJ	0.014 J	ND U	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND UJ	ND UJ	ND U	ND U	46	--	--	46	4,100	--
Butyl benzyl phthalate	ND UJ	ND UJ	ND U	ND U	930	--	--	930	930	--
Carbazole	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	0.14	0.013 J	0.021 J	0.035 J	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	0.098 J ↑	ND UJ	ND UJ	ND U	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	0.076	ND U	0.0071 J	0.048	3,100	--	--	3,100	82,000	--
Fluorene	0.01 J	ND U	ND U	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.15 J	ND UJ	ND UJ	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	0.0096 J	ND U	ND U	ND U	1.8	--	--	170	1.8	--
Phenanthrene	0.082	0.022 J	0.026 J	0.026 J	--	--	--	--	--	--
Pyrene	0.22	0.016 J	0.013 J	0.060	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)										
Antimony	0.28 J	ND U	0.37 J	0.27 J	5	--	--	31	82	--
Arsenic	5.6 J	6	12 ↑	7.6	11.3	13	--	13	61	--
Barium	41 J	45	32	27	1,500	--	--	5,500	14,000	--
Beryllium	0.47 J	0.64	0.47	0.43	22	--	--	160	410	--
Boron	12 J	13	5.1	6.5	40	--	--	16,000	41,000	--
Cadmium	0.18 J	0.065 J	ND U	ND U	5.2	--	--	78	200	--
Calcium	92,000	77,000	62,000	110,000	--	--	--	--	--	--
Chromium	11 J	19	9.9	7.0	21	--	--	230	690	--
Cobalt	6.9	11	10	6.0	20	--	--	4,700	12,000	--
Copper	14 J	21	18	14	2,900	--	--	2,900	8,200	--
Iron	16,000 ↑m	20,000 ↑m	14,000	17,000 ↑m	15,000	15,900	--	--	--	--
Lead	23 J	12	12	46	107	--	--	400	700	--
Magnesium	53,000	27,000	21,000	62,000	325,000	--	--	--	730,000	--
Manganese	350	370	310	330	630	636	--	1,600	4,100	--
Mercury	0.06	0.029	0.020	0.041	0.89	--	--	10	0.1	--
Nickel	16 J	29	23	14	100	--	--	1,600	4,100	--
Potassium	2,200	3,000	1,100	700	--	--	--	--	--	--
Selenium	ND UJ	ND U	ND U	ND U	1.3	--	--	390	1,000	--
Silver	0.17 J	0.26 J	ND U	ND U	4.4	--	--	390	1,000	--
Sodium	1,300 J	1,200	2,200	1,700	--	--	--	--	--	--
Thallium	0.51 J	0.44 J	0.34 J	ND U	2.6	--	--	6.3	160	--
Vanadium	15 J	22	12	11	550	--	--	550	1,400	--
Zinc	60 R	62	48	45	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	0.37 J	0.4 J	0.43 J	0.36 J	--	--	--	--	--	2
Boron	0.077 J	0.13 J	ND U	0.062 J	--	--	--	--	--	2
Cadmium	ND U	0.0036 J	ND U	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	0.017 J	0.073	ND U	0.013 J	--	--	--	--	--	1
Iron	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	3.9 L	5.8 L	1.4 L	3.3 L	--	--	--	--	--	0.15
Mercury	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002
Nickel	0.021 J	0.076	ND U	0.023 J	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05
Zinc	0.18 J	0.038 J	ND U	0.037 J	--	--	--	--	--	5
SPLP Metals (mg/L)										
Cadmium	NA	NA	NA	NA	--	--	--	--	--	0.005
Lead	NA	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	0.9 L	1.2 L	1.3 L	0.86 L	--	--	--	--	--	0.15
Nickel	NA	NA	NA	NA	--	--	--	--	--	0.1

PTB #196-002; Work Order 03 - IDOT Job # D-91-441-20
CONTAMINANTS OF CONCERN

SITE	ISGS #2233V2-1 (ROW)				Comparison Criteria					
	2233V2-01-B11		2233V2-01-B15	2233V2-01-B21	MACs			TACO		
BORING	2233V2-01-B11		2233V2-01-B15	2233V2-01-B21	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	2233V2-01-B11 (0-3)	2233V2-01-B11 (3-6.3)	2233V2-01-B15 (0-3)	2233V2-01-B21 (0-2.9)						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-3	3-6.3	0-3	0-2.9						
pH	7.9	7.8	8.9	8.2						
PID (meter units)	--	--	--	--						
VOCs (mg/kg)										
2-Butanone (MEK)	ND U	0.024	ND U	ND U	--	--	--	--	--	--
Acetone	ND U	0.14	ND U	ND U	25	--	--	70,000	100,000	--
Carbon disulfide	ND U	ND U	ND U	ND U	9	--	--	720	9	--
SVOCs (mg/kg)										
2-Methylnaphthalene	0.0097 J	ND U	0.0072 J	0.026 J	--	--	--	--	--	--
Acenaphthene	0.014 J	ND U	ND U	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	0.0086 J	ND U	0.012 J	0.0089 J	--	--	--	--	--	--
Anthracene	0.025 J	ND U	0.023 J	0.017 J	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	0.099	0.018 J	0.087	0.090	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.13 J ↑	0.025 J	0.095 ↑	0.14 ↑	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.21 J	0.040 J	0.14	0.17	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	0.062 J	0.017 J	0.033 J	0.071	--	--	--	--	--	--
Benzo(k)fluoranthene	0.085 J	0.018 J	0.046	0.058	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	0.095 J	ND U	ND UJ	ND U	46	--	--	46	4,100	--
Butyl benzyl phthalate	ND U	ND U	ND UJ	ND U	930	--	--	930	930	--
Carbazole	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	0.12	0.028 J	0.09	0.11	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND UJ	ND UJ	0.013 J	0.021 J	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	0.18	0.035 J	0.19	0.16	3,100	--	--	3,100	82,000	--
Fluorene	0.010 J	ND U	0.0084 J	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.059 J	0.016 J	0.041	0.069	0.9	1.6	0.9	1.6	170	--
Naphthalene	0.0077 J	ND U	0.0073 J	0.012 J	1.8	--	--	170	1.8	--
Phenanthrene	0.089	0.017 J	0.1	0.12	--	--	--	--	--	--
Pyrene	0.21	0.042	0.16	0.15	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)										
Antimony	0.38 J	0.27 J	0.32 J	0.44 J	5	--	--	31	82	--
Arsenic	9.2	5.8	7.9	12 ↑	11.3	13	--	13	61	--
Barium	48	37	90	57	1,500	--	--	5,500	14,000	--
Beryllium	0.62	0.58	0.58	0.82	22	--	--	160	410	--
Boron	3.7	4.1	3.9	11	40	--	--	16,000	41,000	--
Cadmium	ND U	ND U	ND U	0.39	5.2	--	--	78	200	--
Calcium	50,000	70,000	28,000	73,000	--	--	--	--	--	--
Chromium	9.6	12	16	10	21	--	--	230	690	--
Cobalt	9.6	6.2	7.6	6.6	20	--	--	4,700	12,000	--
Copper	15	11	19	25	2,900	--	--	2,900	8,200	--
Iron	17,000 ↑m	12,000	18,000 ↑m	15,000	15,000	15,900	--	--	--	--
Lead	32	41	55	130 ↑	107	--	--	400	700	--
Magnesium	19,000	31,000	17,000	26,000	325,000	--	--	--	730,000	--
Manganese	480	370	400	410	630	636	--	1,600	4,100	--
Mercury	0.036	0.093	0.097	0.088	0.89	--	--	10	0.1	--
Nickel	20	20	14	16	100	--	--	1,600	4,100	--
Potassium	800	760	930	900	--	--	--	--	--	--
Selenium	ND U	ND U	0.36 J	ND U	1.3	--	--	390	1,000	--
Silver	0.10 J	ND U	0.32	0.091 J	4.4	--	--	390	1,000	--
Sodium	1,900	1,200	1,300	1,600	--	--	--	--	--	--
Thallium	0.27 J	ND U	0.41 J	0.28 J	2.6	--	--	6.3	160	--
Vanadium	16	13	20	16	550	--	--	550	1,400	--
Zinc	74	72	93	120	5,100	--	--	23,000	61,000	--
TCPL Metals (mg/L)										
Barium	0.31 J	0.42 J	0.45 J	0.37 J	--	--	--	--	--	2
Boron	0.061 J	0.097 J	0.078 J	0.097 J	--	--	--	--	--	2
Cadmium	ND U	ND U	0.002 J	0.0028 J	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	ND U	0.021 J	ND U	ND U	--	--	--	--	--	1
Iron	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	0.027 L	ND U	ND U	--	--	--	--	--	0.0075
Manganese	0.47 L	7.9 L	0.64 L	0.88 L	--	--	--	--	--	0.15
Mercury	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002
Nickel	ND U	0.013 J	ND U	ND U	--	--	--	--	--	0.1
Selenium	ND U	0.021 J	ND U	ND U	--	--	--	--	--	0.05
Zinc	0.11 J	0.15 J	0.079 J	0.074 J	--	--	--	--	--	5
SPLP Metals (mg/L)										
Cadmium	NA	NA	NA	NA	--	--	--	--	--	0.005
Lead	NA	0.57 L	NA	NA	--	--	--	--	--	0.0075
Manganese	1.0 L	1.3 L	0.74 L	1.7 L	--	--	--	--	--	0.15
Nickel	NA	NA	NA	NA	--	--	--	--	--	0.1

PTB #196-002; Work Order 03 - IDOT Job # D-91-441-20
CONTAMINANTS OF CONCERN

SITE	ISGS #2233V2-1 (ROW)			Comparison Criteria					
	2233V2-01-B22	2233V2-01-B24		MACs			TACO		
BORING	2233V2-01-B22 (0-2.6)	2233V2-01-B24 (0-4)	2233V2-01-B24 (0-4)D	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	2233V2-01-B22 (0-2.6)	2233V2-01-B24 (0-4)	2233V2-01-B24 (0-4)D						
MATRIX	Soil	Soil	Soil						
DEPTH (feet)	0-2.6	0-4	0-4						
pH	8.0	8.3	8.5						
PID (meter units)	--	--	--						
VOCs (mg/kg)									
2-Butanone (MEK)	ND U	ND U	ND U	--	--	--	--	--	--
Acetone	ND U	0.015 J	0.0085 J	25	--	--	70,000	100,000	--
Carbon disulfide	ND U	ND U	ND U	9	--	--	720	9	--
SVOCs (mg/kg)									
2-Methylnaphthalene	0.0078 J	0.012 J	0.0091 J	--	--	--	--	--	--
Acenaphthene	0.0080 J	ND U	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	0.0075 J	ND U	ND U	--	--	--	--	--	--
Anthracene	0.028 J	ND U	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	0.15	0.0060 J	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.21 †	ND U	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.33	0.010 J	0.0082 J	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	0.12	0.023 J	0.016 J	--	--	--	--	--	--
Benzo(k)fluoranthene	0.12	ND U	ND U	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	0.096 J	ND U	ND U	46	--	--	46	4,100	--
Butyl benzyl phthalate	ND U	ND U	ND U	930	--	--	930	930	--
Carbazole	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	0.21	0.022 J	0.016 J	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	0.034 J	ND U	ND U	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	0.41	0.0081 J	ND U	3,100	--	--	3,100	82,000	--
Fluorene	0.0075 J	0.0055 J	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.11	ND U	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	0.0087 J	0.0065 J	ND U	1.8	--	--	170	1.8	--
Phenanthrene	0.16	0.043	0.031 J	--	--	--	--	--	--
Pyrene	0.31	0.017 J	0.012 J	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)									
Antimony	0.66 J	0.33 J	0.44 J	5	--	--	31	82	--
Arsenic	8.3	9.5	9.7	11.3	13	--	13	61	--
Barium	80	34	28	1,500	--	--	5,500	14,000	--
Beryllium	0.60	0.56	0.49	22	--	--	160	410	--
Boron	3.6	6.1	5.4	40	--	--	16,000	41,000	--
Cadmium	ND U	ND U	ND U	5.2	--	--	78	200	--
Calcium	28,000	73,000	77,000	--	--	--	--	--	--
Chromium	16	11	8.5	21	--	--	230	690	--
Cobalt	7.3	9.9	8.3	20	--	--	4,700	12,000	--
Copper	29	21	19	2,900	--	--	2,900	8,200	--
Iron	18,000 †m	19,000 †m	17,000 †m	15,000	15,900	--	--	--	--
Lead	100	13	13	107	--	--	400	700	--
Magnesium	16,000	28,000	32,000	325,000	--	--	--	730,000	--
Manganese	480	400	370	630	636	--	1,600	4,100	--
Mercury	0.034	0.025	0.026	0.89	--	--	10	0.1	--
Nickel	17	26	21	100	--	--	1,600	4,100	--
Potassium	760	1,200	970	--	--	--	--	--	--
Selenium	ND U	ND U	ND U	1.3	--	--	390	1,000	--
Silver	0.096 J	0.13 J	0.096 J	4.4	--	--	390	1,000	--
Sodium	1,400	850	780	--	--	--	--	--	--
Thallium	0.32 J	0.82	0.51 J	2.6	--	--	6.3	160	--
Vanadium	18	13	12	550	--	--	550	1,400	--
Zinc	130	63	68	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)									
Barium	0.51	0.55	0.52	--	--	--	--	--	2
Boron	0.088 J	ND U	0.052 J	--	--	--	--	--	2
Cadmium	0.0027 J	ND U	0.0020 J	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	ND U	0.011 J	0.014 J	--	--	--	--	--	1
Iron	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	1.2 L	4.6 L	6.1 L	--	--	--	--	--	0.15
Mercury	ND U	ND U	ND U	--	--	--	--	--	0.002
Nickel	ND U	0.018 J	0.017 J	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U	--	--	--	--	--	0.05
Zinc	0.23 J	ND U	ND U	--	--	--	--	--	5
SPLP Metals (mg/L)									
Cadmium	NA	NA	NA	--	--	--	--	--	0.005
Lead	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	1.2 L	2.4 L	2.5 L	--	--	--	--	--	0.15
Nickel	NA	NA	NA	--	--	--	--	--	0.1

CONTAMINANTS OF CONCERN

SITE	ISGS #2233V2-1 (ROW)		Comparison Criteria					
	2233V2-01-B25	2233V2-01-B26	MACs			TACO		
SAMPLE	2233V2-01-B25 (0-4)	2233V2-01-B26 (0-4)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
MATRIX	Soil	Soil						
DEPTH (feet)	0-4	0-4						
pH	7.8	7.9						
PID (meter units)	--	--						
VOCs (mg/kg)								
2-Butanone (MEK)	ND U	ND U	--	--	--	--	--	--
Acetone	0.0074 J	0.011 J	25	--	--	70,000	100,000	--
Carbon disulfide	ND U	ND U	9	--	--	720	9	--
SVOCs (mg/kg)								
2-Methylnaphthalene	0.0080 J	0.0074 J	--	--	--	--	--	--
Acenaphthene	ND U	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	ND U	ND U	--	--	--	--	--	--
Anthracene	ND U	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	ND U	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	ND U	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.0094 J	ND U	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	0.021 J	0.018 J	--	--	--	--	--	--
Benzo(k)fluoranthene	ND U	ND U	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND U	46	--	--	46	4,100	--
Butyl benzyl phthalate	ND U	ND U	930	--	--	930	930	--
Carbazole	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	0.020 J	0.014 J	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND U	ND U	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	--	--	--	--	--	--
Fluoranthene	0.0068 J	ND U	3,100	--	--	3,100	82,000	--
Fluorene	ND U	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND U	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	ND U	1.8	--	--	170	1.8	--
Phenanthrene	0.038	0.022 J	--	--	--	--	--	--
Pyrene	0.013 J	0.011 J	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)								
Antimony	0.38 J	0.31 J	5	--	--	31	82	--
Arsenic	7.5	7.8 J	11.3	13	--	13	61	--
Barium	43	28 J	1,500	--	--	5,500	14,000	--
Beryllium	0.57	0.49	22	--	--	160	410	--
Boron	6.1	8.8 J	40	--	--	16,000	41,000	--
Cadmium	ND U	ND U	5.2	--	--	78	200	--
Calcium	65,000	76,000	--	--	--	--	--	--
Chromium	12	10	21	--	--	230	690	--
Cobalt	10	9.0 J	20	--	--	4,700	12,000	--
Copper	21	19 J	2,900	--	--	2,900	8,200	--
Iron	17,000 †m	16,000 †m	15,000	15,900	--	--	--	--
Lead	13	11 J	107	--	--	400	700	--
Magnesium	21,000	27,000	325,000	--	--	--	730,000	--
Manganese	390	370	630	636	--	1,600	4,100	--
Mercury	0.024	0.023	0.89	--	--	10	0.1	--
Nickel	27	23 J	100	--	--	1,600	4,100	--
Potassium	1,400	1,100 J	--	--	--	--	--	--
Selenium	ND U	ND U	1.3	--	--	390	1,000	--
Silver	0.099 J	0.13 J	4.4	--	--	390	1,000	--
Sodium	580	690	--	--	--	--	--	--
Thallium	0.71	0.78 J	2.6	--	--	6.3	160	--
Vanadium	15	12 J	550	--	--	550	1,400	--
Zinc	55	57 J	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)								
Barium	0.52	0.62	--	--	--	--	--	2
Boron	ND U	0.19 J	--	--	--	--	--	2
Cadmium	ND U	0.0020 J	--	--	--	--	--	0.005
Chromium	ND U	ND U	--	--	--	--	--	0.1
Cobalt	0.016 J	0.011 J	--	--	--	--	--	1
Iron	ND U	ND U	--	--	--	--	--	5
Lead	ND U	ND U	--	--	--	--	--	0.0075
Manganese	3.6 L	6.1 L	--	--	--	--	--	0.15
Mercury	ND U	ND U	--	--	--	--	--	0.002
Nickel	0.038	0.012 J	--	--	--	--	--	0.1
Selenium	ND U	ND U	--	--	--	--	--	0.05
Zinc	0.033 J	ND U	--	--	--	--	--	5
SPLP Metals (mg/L)								
Cadmium	NA	NA	--	--	--	--	--	0.005
Lead	NA	NA	--	--	--	--	--	0.0075
Manganese	1.6 L	2.3 L	--	--	--	--	--	0.15
Nickel	NA	NA	--	--	--	--	--	0.1

PTB #196-002; Work Order 03 - IDOT Job # D-91-441-20
CONTAMINANTS OF CONCERN

SITE	ISGS #2233V2-1 (ROW)				Comparison Criteria					
	2233V2-01-B28				MACs			TACO		
BORING	2233V2-01-B28 (0-5)	2233V2-01-B28 (5-10)	2233V2-01-B28 (10-15)	2233V2-01-B28 (15-20)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	2233V2-01-B28 (0-5)	2233V2-01-B28 (5-10)	2233V2-01-B28 (10-15)	2233V2-01-B28 (15-20)						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-5	5-10	10-15	15-20						
pH	7.6	6.9	7.2	7.6						
PID (meter units)	--	--	--	--						
VOCs (mg/kg)										
2-Butanone (MEK)	0.0024 J	0.01	0.0024 J	ND U	--	--	--	--	--	--
Acetone	0.016 J	0.044 J	0.021 J	ND U	25	--	--	70,000	100,000	--
Carbon disulfide	ND U	ND U	ND U	ND U	9	--	--	720	9	--
SVOCs (mg/kg)										
2-Methylnaphthalene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Acenaphthene	0.0078 J	ND U	ND U	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Anthracene	ND U	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	ND U	0.013 J	ND U	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	ND U	0.014 J	ND U	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	ND U	0.028 J	ND U	ND U	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	ND U	ND U	ND U	ND U	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--
Butyl benzyl phthalate	ND U	ND U	ND U	ND U	930	--	--	930	930	--
Carbazole	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	ND U	0.026 J	ND U	ND U	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	0.0097 J	0.033 J	ND U	ND U	3,100	--	--	3,100	82,000	--
Fluorene	0.009 J	ND U	ND U	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND U	0.011 J	ND U	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	0.011 J	ND U	ND U	1.8	--	--	170	1.8	--
Phenanthrene	0.017 J	0.025 J	ND U	ND U	--	--	--	--	--	--
Pyrene	0.015 J	0.024 J	ND U	ND U	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)										
Antimony	0.4 J	0.32 J	0.54 J	0.44 J	5	--	--	31	82	--
Arsenic	9.1	7.2	10	11	11.3	13	--	13	61	--
Barium	63	76	66	29	1,500	--	--	5,500	14,000	--
Beryllium	0.54	0.49	0.65	0.5	22	--	--	160	410	--
Boron	4.8	4.9	6.2	6.7	40	--	--	16,000	41,000	--
Cadmium	ND U	ND U	ND U	ND U	5.2	--	--	78	200	--
Calcium	17,000	8,100	1,900	39,000	--	--	--	--	--	--
Chromium	15	12	18	14	21	--	--	230	690	--
Cobalt	14	10	15	12	20	--	--	4,700	12,000	--
Copper	29	17	34	31	2,900	--	--	2,900	8,200	--
Iron	20,000 †m	14,000	26,000 †m	22,000 †m	15,000	15,900	--	--	--	--
Lead	19	27	20	15	107	--	--	400	700	--
Magnesium	11,000	5,400	4,400	22,000	325,000	--	--	--	730,000	--
Manganese	320	400	260	370	630	636	--	1,600	4,100	--
Mercury	0.043	0.041	0.05	0.034	0.89	--	--	10	0.1	--
Nickel	32	18	44	29	100	--	--	1,600	4,100	--
Potassium	1,200	1,100	1,800	1,600	--	--	--	--	--	--
Selenium	ND U	0.34 J	ND U	ND U	1.3	--	--	390	1,000	--
Silver	0.23 J	0.16 J	0.28 J	0.23 J	4.4	--	--	390	1,000	--
Sodium	1,100	ND U	290	280	--	--	--	--	--	--
Thallium	0.72	0.66	1.2	0.78	2.6	--	--	6.3	160	--
Vanadium	19	17	19	15	550	--	--	550	1,400	--
Zinc	73	75	110	77	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	0.79	0.75	0.38 J	0.29 J	--	--	--	--	--	2
Boron	0.097 J	0.43 J	0.074 J	0.063 J	--	--	--	--	--	2
Cadmium	0.0027 J	0.0042 J	0.0029 J	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	0.029	0.08	0.015 J	ND U	--	--	--	--	--	1
Iron	0.36 J	1.5	0.95	ND U	--	--	--	--	--	5
Lead	ND U	0.015 L	ND U	ND U	--	--	--	--	--	0.0075
Manganese	11 L	12 L	5 L	2.2 L	--	--	--	--	--	0.15
Mercury	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002
Nickel	0.022 J	0.051	0.024 J	0.032	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05
Zinc	0.07 J	0.39 J	0.12 J	ND U	--	--	--	--	--	5
SPLP Metals (mg/L)										
Cadmium	NA	NA	NA	NA	--	--	--	--	--	0.005
Lead	NA	0.059 L	NA	NA	--	--	--	--	--	0.0075
Manganese	1.8 L	0.68 L	2.3 L	0.18 L	--	--	--	--	--	0.15
Nickel	NA	NA	NA	NA	--	--	--	--	--	0.1

PTB #196-002; Work Order 03 - IDOT Job # D-91-441-20
CONTAMINANTS OF CONCERN

SITE	ISGS #2233V2-1 (ROW)			Comparison Criteria					
	2233V2-01-B29	2233V2-01-B30	2233V2-01-B31	MACs			TACO		
SAMPLE	2233V2-01-B29 (0-4)	2233V2-01-B30 (0-4)	2233V2-01-B31 (0-4)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
MATRIX	Soil	Soil	Soil						
DEPTH (feet)	0-4	0-4	0-4						
pH	8.0	8.5	7.9						
PID (meter units)	--	--	--						
VOCs (mg/kg)									
2-Butanone (MEK)	ND U	ND U	ND U	--	--	--	--	--	--
Acetone	0.019 J	ND U	ND U	25	--	--	70,000	100,000	--
Carbon disulfide	ND U	ND U	ND U	9	--	--	720	9	--
SVOCs (mg/kg)									
2-Methylnaphthalene	ND U	ND U	ND U	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	ND U	ND U	ND U	--	--	--	--	--	--
Anthracene	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	ND U	ND U	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	ND UJ	ND UJ	ND UJ	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	ND UJ	ND UJ	ND UJ	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	ND UJ	ND UJ	ND UJ	--	--	--	--	--	--
Benzo(k)fluoranthene	ND UJ	ND UJ	ND UJ	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	46	--	--	46	4,100	--
Butyl benzyl phthalate	ND U	ND U	ND U	930	--	--	930	930	--
Carbazole	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	ND U	ND U	ND U	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND UJ	ND UJ	ND UJ	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	0.0095 J	ND U	ND U	3,100	--	--	3,100	82,000	--
Fluorene	ND U	ND U	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND UJ	ND UJ	ND UJ	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	ND U	ND U	1.8	--	--	170	1.8	--
Phenanthrene	0.0091 J	ND U	ND U	--	--	--	--	--	--
Pyrene	0.022 J	ND U	ND U	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)									
Antimony	0.43 J	0.48 J	0.46 J	5	--	--	31	82	--
Arsenic	8.3	11	10	11.3	13	--	13	61	--
Barium	66	74	69	1,500	--	--	5,500	14,000	--
Beryllium	0.58	0.59	0.59	22	--	--	160	410	--
Boron	7.5	8.4	6.6	40	--	--	16,000	41,000	--
Cadmium	ND U	ND U	ND U	5.2	--	--	78	200	--
Calcium	32,000	53,000	31,000	--	--	--	--	--	--
Chromium	15	16	15	21	--	--	230	690	--
Cobalt	11	14	16	20	--	--	4,700	12,000	--
Copper	25	27	27	2,900	--	--	2,900	8,200	--
Iron	20,000 †m	23,000 †m	22,000 †m	15,000	15,900	--	--	--	--
Lead	21	16	19	107	--	--	400	700	--
Magnesium	18,000	24,000	18,000	325,000	--	--	--	730,000	--
Manganese	450	560	520	630	636	--	1,600	4,100	--
Mercury	0.029	0.045	0.03	0.89	--	--	10	0.1	--
Nickel	28	32	34	100	--	--	1,600	4,100	--
Potassium	1,600	1,900	1,600	--	--	--	--	--	--
Selenium	ND U	ND U	ND U	1.3	--	--	390	1,000	--
Silver	0.22 J	0.25 J	0.64	4.4	--	--	390	1,000	--
Sodium	1,000	1,600	1,100	--	--	--	--	--	--
Thallium	0.3 J	0.65	0.5 J	2.6	--	--	6.3	160	--
Vanadium	20	19	24	550	--	--	550	1,400	--
Zinc	74	69	72	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)									
Barium	0.7	0.52	0.59	--	--	--	--	--	2
Boron	0.079 J	0.074 J	0.067 J	--	--	--	--	--	2
Cadmium	0.002 J	ND U	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	0.019 J	ND U	ND U	--	--	--	--	--	1
Iron	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	12 L	1.5 L	0.78 L	--	--	--	--	--	0.15
Mercury	ND U	ND U	0.0002	--	--	--	--	--	0.002
Nickel	ND U	ND U	ND U	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U	--	--	--	--	--	0.05
Zinc	0.044 J	0.046 J	ND U	--	--	--	--	--	5
SPLP Metals (mg/L)									
Cadmium	NA	NA	NA	--	--	--	--	--	0.005
Lead	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	3.1 L	1.6 L	0.85 L	--	--	--	--	--	0.15
Nickel	NA	NA	NA	--	--	--	--	--	0.1

PTB #196-002; Work Order 03 - IDOT Job # D-91-441-20
CONTAMINANTS OF CONCERN

SITE	ISGS #2233V2-1 (ROW)				Comparison Criteria									
	2233V2-01-B33		2233V2-01-B34		MACs			TACO						
BORING	2233V2-01-B33 (0-4)		2233V2-01-B33 (4-8)		2233V2-01-B34 (0-4)		2233V2-01-B34 (4-8)		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	Soil	Soil	Soil	Soil										
MATRIX	Soil	Soil	Soil	Soil										
DEPTH (feet)	0-4	4-8	0-4	4-8										
pH	7.9	7.6	8.7	7.7										
PID (meter units)	--	--	--	--										
VOCs (mg/kg)														
2-Butanone (MEK)	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	--
Acetone	0.011 J	ND U	ND U	0.017 J	25	--	--	70,000	100,000	--	--	--	--	--
Carbon disulfide	ND U	ND U	ND U	ND U	9	--	--	720	9	--	--	--	--	--
SVOCs (mg/kg)														
2-Methylnaphthalene	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	ND U	570	--	--	4,700	120,000	--	--	--	--	--
Acenaphthylene	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	--
Anthracene	ND U	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--	--	--	--	--
Benzo(a)anthracene	ND U	ND U	ND U	ND U	0.9	1.8	1.1	1.8	170	--	--	--	--	--
Benzo(a)pyrene	ND UJ	ND U	ND U	ND U	0.09	2.1	1.3	2.1	17	--	--	--	--	--
Benzo(b)fluoranthene	ND UJ	ND U	ND U	ND U	0.9	2.1	1.5	2.1	170	--	--	--	--	--
Benzo(g,h,i)perylene	ND UJ	ND UJ	ND UJ	ND UJ	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	ND UJ	ND U	ND U	ND U	9	--	--	9	1,700	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--	--	--	--	--
Butyl benzyl phthalate	ND U	ND U	ND U	ND U	930	--	--	930	930	--	--	--	--	--
Carbazole	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--	--	--	--	--
Chrysene	ND U	ND U	ND U	ND U	88	--	--	88	17,000	--	--	--	--	--
Dibenz(a,h)anthracene	ND UJ	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--	--	--	--	--
Dibenzofuran	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	--
Fluoranthene	ND U	ND U	ND U	ND U	3,100	--	--	3,100	82,000	--	--	--	--	--
Fluorene	ND U	ND U	ND U	ND U	560	--	--	3,100	82,000	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	ND UJ	ND U	ND U	ND U	0.9	1.6	0.9	1.6	170	--	--	--	--	--
Naphthalene	ND U	ND U	ND U	ND U	1.8	--	--	170	1.8	--	--	--	--	--
Phenanthrene	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	--
Pyrene	ND U	ND U	ND U	ND U	2,300	--	--	2,300	61,000	--	--	--	--	--
Inorganics (mg/kg)														
Antimony	0.31 J	0.31 J	0.36 J	0.4 J	5	--	--	31	82	--	--	--	--	--
Arsenic	8.9	8.9	11	9.9	11.3	13	--	13	61	--	--	--	--	--
Barium	66	39	48	46	1,500	--	--	5,500	14,000	--	--	--	--	--
Beryllium	0.58	0.43	0.56	0.55	22	--	--	160	410	--	--	--	--	--
Boron	7.9	8.4	8.7	7.1	40	--	--	16,000	41,000	--	--	--	--	--
Cadmium	ND U	ND U	ND U	ND U	5.2	--	--	78	200	--	--	--	--	--
Calcium	45,000	77,000	59,000	52,000	--	--	--	--	--	--	--	--	--	--
Chromium	16	13	15	15	21	--	--	230	690	--	--	--	--	--
Cobalt	13	9.5	13	11	20	--	--	4,700	12,000	--	--	--	--	--
Copper	27	20	24	24	2,900	--	--	2,900	8,200	--	--	--	--	--
Iron	22,000 †m	22,000 †m	22,000 †m	22,000 †m	15,000	15,900	--	--	--	--	--	--	--	--
Lead	15	12	14	14	107	--	--	400	700	--	--	--	--	--
Magnesium	20,000	40,000	25,000	22,000	325,000	--	--	--	730,000	--	--	--	--	--
Manganese	510	440	440	360	630	636	--	1,600	4,100	--	--	--	--	--
Mercury	0.032	0.027	0.028	0.029	0.89	--	--	10	0.1	--	--	--	--	--
Nickel	33	25	31	31	100	--	--	1,600	4,100	--	--	--	--	--
Potassium	1,800	1,800	1,900	1,700	--	--	--	--	--	--	--	--	--	--
Selenium	ND U	ND U	ND U	ND U	1.3	--	--	390	1,000	--	--	--	--	--
Silver	0.25 J	0.19 J	0.23 J	0.25 J	4.4	--	--	390	1,000	--	--	--	--	--
Sodium	1,100	220	1,700	460	--	--	--	--	--	--	--	--	--	--
Thallium	0.78	0.53 J	0.67	0.68	2.6	--	--	6.3	160	--	--	--	--	--
Vanadium	19	15	19	17	550	--	--	550	1,400	--	--	--	--	--
Zinc	69	60	77	71	5,100	--	--	23,000	61,000	--	--	--	--	--
TCLP Metals (mg/L)														
Barium	0.58	0.31 J	0.32 J	0.46 J	--	--	--	--	--	--	--	--	--	2
Boron	0.073 J	0.065 J	0.074 J	0.21 J	--	--	--	--	--	--	--	--	--	2
Cadmium	ND U	ND U	0.0039 J	ND U	--	--	--	--	--	--	--	--	--	0.005
Chromium	ND U	0.086	ND U	ND U	--	--	--	--	--	--	--	--	--	0.1
Cobalt	0.018 J	ND U	0.027	ND U	--	--	--	--	--	--	--	--	--	1
Iron	ND U	0.43	ND U	ND U	--	--	--	--	--	--	--	--	--	5
Lead	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	0.0075
Manganese	7.4 L	1.7 L	4.3 L	4.2 L	--	--	--	--	--	--	--	--	--	0.15
Mercury	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	0.002
Nickel	0.017 J	0.016 J	0.037	0.012 J	--	--	--	--	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	0.05
Zinc	0.061 J	ND U	0.025 J	ND U	--	--	--	--	--	--	--	--	--	5
SPLP Metals (mg/L)														
Cadmium	NA	NA	NA	NA	--	--	--	--	--	--	--	--	--	0.005
Lead	NA	NA	NA	NA	--	--	--	--	--	--	--	--	--	0.0075
Manganese	3 L	0.84 L	1.1 L	1.2 L	--	--	--	--	--	--	--	--	--	0.15
Nickel	NA	NA	NA	NA	--	--	--	--	--	--	--	--	--	0.1

PTB #196-002; Work Order 03 - IDOT Job # D-91-441-20
CONTAMINANTS OF CONCERN

SITE	ISGS #2233V2-1 (ROW)			Comparison Criteria					
	2233V2-01-B35	2233V2-01-B36	2233V2-01-B37	MACs			TACO		
SAMPLE	2233V2-01-B35 (0-2)	2233V2-01-B36 (0-2)	2233V2-01-B37 (0-2)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
MATRIX	Soil	Soil	Soil						
DEPTH (feet)	0-2	0-2	0-2						
pH	8.8	8.5	8.5						
PID (meter units)	--	--	--						
VOCs (mg/kg)									
2-Butanone (MEK)	ND U	ND U	ND U	--	--	--	--	--	--
Acetone	ND U	ND U	ND U	25	--	--	70,000	100,000	--
Carbon disulfide	ND U	ND U	ND U	9	--	--	720	9	--
SVOCs (mg/kg)									
2-Methylnaphthalene	ND U	ND U	ND U	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	ND U	ND U	ND U	--	--	--	--	--	--
Anthracene	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	ND U	ND U	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	ND U	ND U	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	ND U	ND U	ND U	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	ND UJ	ND UJ	ND UJ	--	--	--	--	--	--
Benzo(k)fluoranthene	ND U	ND U	ND U	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	46	--	--	46	4,100	--
Butyl benzyl phthalate	ND U	ND U	ND U	930	--	--	930	930	--
Carbazole	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	ND U	ND U	ND U	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND U	ND U	ND UJ	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	ND U	ND U	ND U	3,100	--	--	3,100	82,000	--
Fluorene	ND U	ND U	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND U	ND U	ND UJ	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	ND U	ND U	1.8	--	--	170	1.8	--
Phenanthrene	ND U	ND U	ND U	--	--	--	--	--	--
Pyrene	ND U	ND U	ND U	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)									
Antimony	0.29 J	0.4 J	0.44 J	5	--	--	31	82	--
Arsenic	8.4	12 †	8 J	11.3	13	--	13	61	--
Barium	58	76	58 J	1,500	--	--	5,500	14,000	--
Beryllium	0.55	0.57	0.62	22	--	--	160	410	--
Boron	8.4	5.5	8.6 J	40	--	--	16,000	41,000	--
Cadmium	ND U	ND U	ND U	5.2	--	--	78	200	--
Calcium	59,000	18,000	25,000	--	--	--	--	--	--
Chromium	16	15	20 J	21	--	--	230	690	--
Cobalt	11	13	8.8 J	20	--	--	4,700	12,000	--
Copper	23	22	23 J	2,900	--	--	2,900	8,200	--
Iron	20,000 †m	25,000 †m	23,000 †m	15,000	15,900	--	--	--	--
Lead	13	17	11 J	107	--	--	400	700	--
Magnesium	24,000	11,000	19,000	325,000	--	--	--	730,000	--
Manganese	330	540	210	630	636	--	1,600	4,100	--
Mercury	0.027	0.047	ND U	0.89	--	--	10	0.1	--
Nickel	28	31	29 J	100	--	--	1,600	4,100	--
Potassium	1,900	1,300	2,500	--	--	--	--	--	--
Selenium	ND U	ND U	ND UJ	1.3	--	--	390	1,000	--
Silver	0.23 J	0.32	0.37	4.4	--	--	390	1,000	--
Sodium	640	830	1,200 J	--	--	--	--	--	--
Thallium	1	1.1	1.4 J	2.6	--	--	6.3	160	--
Vanadium	18	21	21	550	--	--	550	1,400	--
Zinc	69	80	77 J	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)									
Barium	0.4 J	0.53	0.41 J	--	--	--	--	--	2
Boron	ND U	0.11 J	0.085 J	--	--	--	--	--	2
Cadmium	0.0043 J	ND U	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	0.012 J	ND U	ND U	--	--	--	--	--	1
Iron	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	2.6 L	0.44 L	0.2 L	--	--	--	--	--	0.15
Mercury	ND U	ND U	ND U	--	--	--	--	--	0.002
Nickel	0.024 J	ND U	ND U	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U	--	--	--	--	--	0.05
Zinc	ND U	0.033 J	ND U	--	--	--	--	--	5
SPLP Metals (mg/L)									
Cadmium	NA	NA	NA	--	--	--	--	--	0.005
Lead	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	0.83 L	0.93 L	1.2 L	--	--	--	--	--	0.15
Nickel	NA	NA	NA	--	--	--	--	--	0.1

ANALYTICAL REPORT

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

Laboratory Job ID: 500-212294-1
Client Project/Site: IDOT - 196-002-WO003 Joliet

For:
WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602

Attn: Dean Tiebot



Authorized for release by:
2/28/2022 3:37:46 PM

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

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

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

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

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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Job ID: 500-212294-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-212294-1

Receipt

The samples were received on 2/14/2022 5:05 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.1° C and 3.6° C.

GC/MS VOA

Method 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 643739 recovered outside control limits for 2-Hexanone.2233V2-01-B27 (4-8) (500-212294-19), 2233V2-01-B15 (0-3) (500-212294-20), 2233V2-01-B13 (0-2.6) (500-212294-21) and 2233V2-01-B12(0-3.2) (500-212294-22)

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 643739 recovered outside control limits for the following analytes: Bromomethane and Chloromethane. These analytes were not detected in the associated samples; therefore, the data have been reported.2233V2-01-B27 (4-8) (500-212294-19), 2233V2-01-B15 (0-3) (500-212294-20), 2233V2-01-B13 (0-2.6) (500-212294-21) and 2233V2-01-B12(0-3.2) (500-212294-22)

Method 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 500-643734 recovered outside control limits for the following analyte: Acetone.

Method 8260B: Surrogate recovery for the following sample was outside the upper control limit: 2233V2-01-B27 (4-8) (500-212294-19). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

GC/MS Semi VOA

Method 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with preparation batch 500-643085 and analytical batch 500-643375 had 1 analyte outside control limits: Butyl benzyl phthalate. These results have been reported and qualified.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-643726 was outside the method criteria for the following analyte(s): 2,4-Dinitrophenol, 4-Nitrophenol, Hexachlorocyclopentadiene, Pentachlorophenol and 2,4,6-Tribromophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-643963 was outside the method criteria for the following analyte(s): 2,4-Dinitrophenol, 4-Nitrophenol, Hexachlorocyclopentadiene and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with preparation batch 500-643829 and analytical batch 500-643963 had 3 analytes outside control limits: 2,4-Dinitrophenol, Benzo[g,h,i]perylene and Hexachlorocyclopentadiene. These results have been reported and qualified.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 500-643829 and analytical batch 500-643963 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8270D: Perylene-d12 Internal standard (ISTD) response for the following samples were outside of acceptance limits: 2233V2-01-B33 (0-4) (500-212294-6), 2233V2-01-B31 (0-4) (500-212294-11) and 2233V2-01-B30 (0-4) (500-212294-12). Analytes associated to this internal standard were non-detect limit; therefore, re-analysis was not performed.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-643957 was outside the method criteria for the

Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Job ID: 500-212294-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

following analyte(s): multi analytes. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-644221 was outside the method criteria for the following analyte(s): 2,4-Dinitrophenol, 4-Nitrophenol, Hexachlorocyclopentadiene, Pentachlorophenol and 2,4,6-Tribromophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-644203 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Perylene-d12 Internal standard (ISTD) response for the following sample was outside of acceptance limits: 2233V2-01-B29 (0-4) (500-212294-13). Analytes associated to this internal standard were non-detect; therefore, re-analysis was not performed.

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

Metals

Method 6010B: The method blank for preparation batch 500-644039 and analytical batch 500-644509 contained Chromium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 6010B: The method blank for preparation batch 500-644302 and analytical batch 500-644656 contained Chromium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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

General Chemistry

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

Organic Prep

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

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B37 (0-2)

Lab Sample ID: 500-212294-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.44	J F1	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	8.0	F1	0.57	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	58	F1	0.57	0.065	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.62		0.23	0.054	mg/Kg	1	✳	6010B	Total/NA
Boron	8.6	F1	2.9	0.27	mg/Kg	1	✳	6010B	Total/NA
Calcium	25000		11	1.9	mg/Kg	1	✳	6010B	Total/NA
Chromium	20	B F1	0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	8.8	F1 F2	0.29	0.075	mg/Kg	1	✳	6010B	Total/NA
Copper	23	F1	0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	23000	B	11	6.0	mg/Kg	1	✳	6010B	Total/NA
Lead	11	F1	0.29	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	19000		5.7	2.8	mg/Kg	1	✳	6010B	Total/NA
Manganese	210	F2	0.57	0.083	mg/Kg	1	✳	6010B	Total/NA
Nickel	29	F1 F2	0.57	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	2500		29	10	mg/Kg	1	✳	6010B	Total/NA
Silver	0.37		0.29	0.074	mg/Kg	1	✳	6010B	Total/NA
Sodium	1200	B F1	57	8.5	mg/Kg	1	✳	6010B	Total/NA
Thallium	1.4	F1	0.57	0.29	mg/Kg	1	✳	6010B	Total/NA
Vanadium	21		0.29	0.068	mg/Kg	1	✳	6010B	Total/NA
Zinc	77	F1	1.1	0.50	mg/Kg	1	✳	6010B	Total/NA
Barium	0.41	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.085	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.20		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026	B	0.018	0.0061	mg/Kg	1	✳	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2233V2-01-B36 (0-2)

Lab Sample ID: 500-212294-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.40	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	12		0.60	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	76		0.60	0.068	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.57		0.24	0.056	mg/Kg	1	✳	6010B	Total/NA
Boron	5.5		3.0	0.28	mg/Kg	1	✳	6010B	Total/NA
Calcium	18000		12	2.0	mg/Kg	1	✳	6010B	Total/NA
Chromium	15	B	0.60	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	13		0.30	0.078	mg/Kg	1	✳	6010B	Total/NA
Copper	22		0.60	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	25000	B	12	6.2	mg/Kg	1	✳	6010B	Total/NA
Lead	17		0.30	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	11000		6.0	3.0	mg/Kg	1	✳	6010B	Total/NA
Manganese	540		0.60	0.086	mg/Kg	1	✳	6010B	Total/NA
Nickel	31		0.60	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	1300		30	11	mg/Kg	1	✳	6010B	Total/NA
Silver	0.32		0.30	0.077	mg/Kg	1	✳	6010B	Total/NA
Sodium	830	B	60	8.8	mg/Kg	1	✳	6010B	Total/NA
Thallium	1.1		0.60	0.30	mg/Kg	1	✳	6010B	Total/NA
Vanadium	21		0.30	0.070	mg/Kg	1	✳	6010B	Total/NA
Zinc	80		1.2	0.52	mg/Kg	1	✳	6010B	Total/NA
Barium	0.53		0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B36 (0-2) (Continued)

Lab Sample ID: 500-212294-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.11	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.44		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.033	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.93		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.047	B	0.018	0.0061	mg/Kg	1	⊛	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2233V2-01-B35 (0-2)

Lab Sample ID: 500-212294-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.29	J	1.1	0.21	mg/Kg	1	⊛	6010B	Total/NA
Arsenic	8.4		0.55	0.19	mg/Kg	1	⊛	6010B	Total/NA
Barium	58		0.55	0.062	mg/Kg	1	⊛	6010B	Total/NA
Beryllium	0.55		0.22	0.051	mg/Kg	1	⊛	6010B	Total/NA
Boron	8.4		2.7	0.26	mg/Kg	1	⊛	6010B	Total/NA
Calcium	59000		55	9.3	mg/Kg	5	⊛	6010B	Total/NA
Chromium	16	B	0.55	0.27	mg/Kg	1	⊛	6010B	Total/NA
Cobalt	11		0.27	0.072	mg/Kg	1	⊛	6010B	Total/NA
Copper	23		0.55	0.15	mg/Kg	1	⊛	6010B	Total/NA
Iron	20000	B	11	5.7	mg/Kg	1	⊛	6010B	Total/NA
Lead	13		0.27	0.13	mg/Kg	1	⊛	6010B	Total/NA
Magnesium	24000		5.5	2.7	mg/Kg	1	⊛	6010B	Total/NA
Manganese	330		0.55	0.079	mg/Kg	1	⊛	6010B	Total/NA
Nickel	28		0.55	0.16	mg/Kg	1	⊛	6010B	Total/NA
Potassium	1900		27	9.7	mg/Kg	1	⊛	6010B	Total/NA
Silver	0.23	J	0.27	0.071	mg/Kg	1	⊛	6010B	Total/NA
Sodium	640	B	55	8.1	mg/Kg	1	⊛	6010B	Total/NA
Thallium	1.0		0.55	0.27	mg/Kg	1	⊛	6010B	Total/NA
Vanadium	18		0.27	0.065	mg/Kg	1	⊛	6010B	Total/NA
Zinc	69		1.1	0.48	mg/Kg	1	⊛	6010B	Total/NA
Barium	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0043	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.024	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.83		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.027		0.019	0.0063	mg/Kg	1	⊛	7471B	Total/NA
pH	8.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2233V2-01-B34 (0-4)

Lab Sample ID: 500-212294-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.36	J	1.1	0.22	mg/Kg	1	⊛	6010B	Total/NA
Arsenic	11		0.56	0.19	mg/Kg	1	⊛	6010B	Total/NA
Barium	48		0.56	0.064	mg/Kg	1	⊛	6010B	Total/NA
Beryllium	0.56		0.22	0.052	mg/Kg	1	⊛	6010B	Total/NA
Boron	8.7		2.8	0.26	mg/Kg	1	⊛	6010B	Total/NA
Calcium	59000		56	9.5	mg/Kg	5	⊛	6010B	Total/NA
Chromium	15	B	0.56	0.28	mg/Kg	1	⊛	6010B	Total/NA
Cobalt	13		0.28	0.073	mg/Kg	1	⊛	6010B	Total/NA
Copper	24		0.56	0.16	mg/Kg	1	⊛	6010B	Total/NA
Iron	22000	B	11	5.8	mg/Kg	1	⊛	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B34 (0-4) (Continued)

Lab Sample ID: 500-212294-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	14		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	25000		5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	440		0.56	0.081	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900		28	9.9	mg/Kg	1	☼	6010B	Total/NA
Silver	0.23	J	0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Sodium	1700	B	56	8.3	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.67		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	77		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.074	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0039	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.027		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	4.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.037		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.025	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.028		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2233V2-01-B34 (4-8)

Lab Sample ID: 500-212294-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.017	*1	0.017	0.0076	mg/Kg	1	☼	8260B	Total/NA
Antimony	0.40	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.9		0.54	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	46		0.54	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.55		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	7.1		2.7	0.25	mg/Kg	1	☼	6010B	Total/NA
Calcium	52000		54	9.2	mg/Kg	5	☼	6010B	Total/NA
Chromium	15	B	0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	22000	B	11	5.6	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	22000		5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	360		0.54	0.079	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		27	9.6	mg/Kg	1	☼	6010B	Total/NA
Silver	0.25	J	0.27	0.070	mg/Kg	1	☼	6010B	Total/NA
Sodium	460	B	54	8.0	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.68		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	71		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.21	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	4.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.018	0.0059	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B34 (4-8) (Continued)

Lab Sample ID: 500-212294-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2233V2-01-B33 (0-4)

Lab Sample ID: 500-212294-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.011	J *1	0.015	0.0067	mg/Kg	1	✳	8260B	Total/NA
Antimony	0.31	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	8.9		0.58	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	66		0.58	0.066	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.58		0.23	0.054	mg/Kg	1	✳	6010B	Total/NA
Boron	7.9		2.9	0.27	mg/Kg	1	✳	6010B	Total/NA
Calcium	45000		58	9.8	mg/Kg	5	✳	6010B	Total/NA
Chromium	16	B	0.58	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	13		0.29	0.076	mg/Kg	1	✳	6010B	Total/NA
Copper	27		0.58	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	22000	B	12	6.0	mg/Kg	1	✳	6010B	Total/NA
Lead	15		0.29	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	20000		5.8	2.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	510		0.58	0.084	mg/Kg	1	✳	6010B	Total/NA
Nickel	33		0.58	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	1800		29	10	mg/Kg	1	✳	6010B	Total/NA
Silver	0.25	J	0.29	0.075	mg/Kg	1	✳	6010B	Total/NA
Sodium	1100	B	58	8.6	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.78		0.58	0.29	mg/Kg	1	✳	6010B	Total/NA
Vanadium	19		0.29	0.069	mg/Kg	1	✳	6010B	Total/NA
Zinc	69		1.2	0.51	mg/Kg	1	✳	6010B	Total/NA
Barium	0.58		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.073	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	7.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.061	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	3.0		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.032		0.019	0.0062	mg/Kg	1	✳	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2233V2-01-B33 (4-8)

Lab Sample ID: 500-212294-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.31	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	8.9		0.55	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	39		0.55	0.063	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.43		0.22	0.052	mg/Kg	1	✳	6010B	Total/NA
Boron	8.4		2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Calcium	77000		55	9.4	mg/Kg	5	✳	6010B	Total/NA
Chromium	13	B	0.55	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	9.5		0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Copper	20		0.55	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	22000	B	55	29	mg/Kg	5	✳	6010B	Total/NA
Lead	12		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	40000		28	14	mg/Kg	5	✳	6010B	Total/NA
Manganese	440		0.55	0.080	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B33 (4-8) (Continued)

Lab Sample ID: 500-212294-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	25		0.55	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	1800		28	9.8	mg/Kg	1	✳	6010B	Total/NA
Silver	0.19	J	0.28	0.072	mg/Kg	1	✳	6010B	Total/NA
Sodium	220	B	55	8.2	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.53	J	0.55	0.28	mg/Kg	1	✳	6010B	Total/NA
Vanadium	15		0.28	0.065	mg/Kg	1	✳	6010B	Total/NA
Zinc	60		1.1	0.49	mg/Kg	1	✳	6010B	Total/NA
Barium	0.31	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.065	J	0.50	0.050	mg/L	1		6010B	TCLP
Chromium	0.086		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.43		0.40	0.20	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.84		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.027		0.017	0.0055	mg/Kg	1	✳	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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Client Sample ID: 2233V2-01-B31 (0-4)

Lab Sample ID: 500-212294-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Antimony	0.46	J	1.1	0.21	mg/Kg	1	✳		6010B	Total/NA
Arsenic	10		0.55	0.19	mg/Kg	1	✳		6010B	Total/NA
Barium	69		0.55	0.063	mg/Kg	1	✳		6010B	Total/NA
Beryllium	0.59		0.22	0.052	mg/Kg	1	✳		6010B	Total/NA
Boron	6.6		2.8	0.26	mg/Kg	1	✳		6010B	Total/NA
Calcium	31000		11	1.9	mg/Kg	1	✳		6010B	Total/NA
Chromium	15	B	0.55	0.27	mg/Kg	1	✳		6010B	Total/NA
Cobalt	16		0.28	0.072	mg/Kg	1	✳		6010B	Total/NA
Copper	27		0.55	0.15	mg/Kg	1	✳		6010B	Total/NA
Iron	22000	B	11	5.7	mg/Kg	1	✳		6010B	Total/NA
Lead	19		0.28	0.13	mg/Kg	1	✳		6010B	Total/NA
Magnesium	18000		5.5	2.7	mg/Kg	1	✳		6010B	Total/NA
Manganese	520		0.55	0.080	mg/Kg	1	✳		6010B	Total/NA
Nickel	34		0.55	0.16	mg/Kg	1	✳		6010B	Total/NA
Potassium	1600		28	9.8	mg/Kg	1	✳		6010B	Total/NA
Silver	0.64		0.28	0.071	mg/Kg	1	✳		6010B	Total/NA
Sodium	1100	B	55	8.2	mg/Kg	1	✳		6010B	Total/NA
Thallium	0.50	J	0.55	0.28	mg/Kg	1	✳		6010B	Total/NA
Vanadium	24		0.28	0.065	mg/Kg	1	✳		6010B	Total/NA
Zinc	72		1.1	0.48	mg/Kg	1	✳		6010B	Total/NA
Barium	0.59		0.50	0.050	mg/L	1			6010B	TCLP
Boron	0.067	J	0.50	0.050	mg/L	1			6010B	TCLP
Manganese	0.78		0.025	0.010	mg/L	1			6010B	TCLP
Manganese	0.85		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.00020		0.00020	0.00020	mg/L	1			7470A	TCLP
Mercury	0.030		0.019	0.0063	mg/Kg	1	✳		7471B	Total/NA
pH	7.9		0.2	0.2	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B30 (0-4)

Lab Sample ID: 500-212294-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.48	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	11		0.57	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	74		0.57	0.066	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.59		0.23	0.054	mg/Kg	1	✳	6010B	Total/NA
Boron	8.4		2.9	0.27	mg/Kg	1	✳	6010B	Total/NA
Calcium	53000		57	9.7	mg/Kg	5	✳	6010B	Total/NA
Chromium	16	B	0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	14		0.29	0.075	mg/Kg	1	✳	6010B	Total/NA
Copper	27		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	23000	B	11	6.0	mg/Kg	1	✳	6010B	Total/NA
Lead	16		0.29	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	24000		5.7	2.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	560		0.57	0.083	mg/Kg	1	✳	6010B	Total/NA
Nickel	32		0.57	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	1900		29	10	mg/Kg	1	✳	6010B	Total/NA
Silver	0.25	J	0.29	0.074	mg/Kg	1	✳	6010B	Total/NA
Sodium	1600	B	57	8.5	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.65		0.57	0.29	mg/Kg	1	✳	6010B	Total/NA
Vanadium	19		0.29	0.068	mg/Kg	1	✳	6010B	Total/NA
Zinc	69		1.1	0.50	mg/Kg	1	✳	6010B	Total/NA
Barium	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.074	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.046	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.045		0.019	0.0062	mg/Kg	1	✳	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2233V2-01-B29 (0-4)

Lab Sample ID: 500-212294-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.019	J*1	0.023	0.0098	mg/Kg	1	✳	8260B	Total/NA
Phenanthrene	0.0091	J	0.037	0.0053	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.0095	J	0.037	0.0070	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.022	J	0.037	0.0075	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.43	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	8.3		0.59	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	66		0.59	0.067	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.58		0.23	0.055	mg/Kg	1	✳	6010B	Total/NA
Boron	7.5		2.9	0.27	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.043	J B	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	32000		12	2.0	mg/Kg	1	✳	6010B	Total/NA
Chromium	15	B	0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	11		0.29	0.077	mg/Kg	1	✳	6010B	Total/NA
Copper	25		0.59	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	20000	B	12	6.1	mg/Kg	1	✳	6010B	Total/NA
Lead	21		0.29	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	18000		5.9	2.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	450		0.59	0.085	mg/Kg	1	✳	6010B	Total/NA
Nickel	28		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	1600		29	10	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B29 (0-4) (Continued)

Lab Sample ID: 500-212294-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	0.22	J	0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000	B	59	8.7	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.30	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	74		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Barium	0.70		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.079	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	12		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.044	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	3.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.017	0.0057	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2233V2-01-B28 (0-5)

Lab Sample ID: 500-212294-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.016	J*1	0.017	0.0072	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.0024	J	0.0041	0.0018	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.0078	J	0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0090	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.017	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0097	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.015	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.40	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.1		0.57	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	63		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.54		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Boron	4.8		2.8	0.27	mg/Kg	1	☼	6010B	Total/NA
Calcium	17000		11	1.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.28	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	29		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	11000		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	320		0.57	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		28	10	mg/Kg	1	☼	6010B	Total/NA
Silver	0.23	J	0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100	B	57	8.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.72		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	73		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Barium	0.79		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.097	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.029		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.36	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	11		0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B28 (0-5) (Continued)

Lab Sample ID: 500-212294-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.070	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.043		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2233V2-01-B28 (5-10)

Lab Sample ID: 500-212294-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.044	*1	0.019	0.0083	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.010		0.0048	0.0021	mg/Kg	1	☼	8260B	Total/NA
Naphthalene	0.011	J	0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.025	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.033	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.024	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.013	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.026	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.028	J	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.014	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.011	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.32	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.2		0.57	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	76		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.49		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Boron	4.9		2.8	0.26	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.23	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Calcium	8100		11	1.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	17		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	14000	B	11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	27		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	5400		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	400		0.57	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		28	10	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.34	J	0.57	0.33	mg/Kg	1	☼	6010B	Total/NA
Silver	0.16	J	0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Sodium	150	B	57	8.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.66		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	75		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Barium	0.75		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0042	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.080		0.025	0.010	mg/L	1		6010B	TCLP
Iron	1.5		0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.015		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	12		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.051		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.39	J	0.50	0.020	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B28 (5-10) (Continued)

Lab Sample ID: 500-212294-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.059		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.68		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.041		0.020	0.0068	mg/Kg	1	⊛	7471B	Total/NA
pH	6.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2233V2-01-B28 (10-15)

Lab Sample ID: 500-212294-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.021	*1	0.019	0.0082	mg/Kg	1	⊛	8260B	Total/NA
2-Butanone (MEK)	0.0024	J	0.0047	0.0021	mg/Kg	1	⊛	8260B	Total/NA
Antimony	0.54	J	1.2	0.23	mg/Kg	1	⊛	6010B	Total/NA
Arsenic	10		0.58	0.20	mg/Kg	1	⊛	6010B	Total/NA
Barium	66		0.58	0.066	mg/Kg	1	⊛	6010B	Total/NA
Beryllium	0.65		0.23	0.054	mg/Kg	1	⊛	6010B	Total/NA
Boron	6.2		2.9	0.27	mg/Kg	1	⊛	6010B	Total/NA
Calcium	1900		12	2.0	mg/Kg	1	⊛	6010B	Total/NA
Chromium	18	B	0.58	0.29	mg/Kg	1	⊛	6010B	Total/NA
Cobalt	15		0.29	0.076	mg/Kg	1	⊛	6010B	Total/NA
Copper	34		0.58	0.16	mg/Kg	1	⊛	6010B	Total/NA
Iron	26000	B	12	6.0	mg/Kg	1	⊛	6010B	Total/NA
Lead	20		0.29	0.13	mg/Kg	1	⊛	6010B	Total/NA
Magnesium	4400		5.8	2.9	mg/Kg	1	⊛	6010B	Total/NA
Manganese	260		0.58	0.084	mg/Kg	1	⊛	6010B	Total/NA
Nickel	44		0.58	0.17	mg/Kg	1	⊛	6010B	Total/NA
Potassium	1800		29	10	mg/Kg	1	⊛	6010B	Total/NA
Silver	0.28	J	0.29	0.075	mg/Kg	1	⊛	6010B	Total/NA
Sodium	290	B	58	8.6	mg/Kg	1	⊛	6010B	Total/NA
Thallium	1.2		0.58	0.29	mg/Kg	1	⊛	6010B	Total/NA
Vanadium	19		0.29	0.069	mg/Kg	1	⊛	6010B	Total/NA
Zinc	110		1.2	0.51	mg/Kg	1	⊛	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.074	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0029	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.95		0.40	0.20	mg/L	1		6010B	TCLP
Manganese	5.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.024	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.12	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	2.3		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.050		0.020	0.0067	mg/Kg	1	⊛	7471B	Total/NA
pH	7.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2233V2-01-B28 (15-20)

Lab Sample ID: 500-212294-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.44	J	1.1	0.21	mg/Kg	1	⊛	6010B	Total/NA
Arsenic	11		0.54	0.18	mg/Kg	1	⊛	6010B	Total/NA
Barium	29		0.54	0.061	mg/Kg	1	⊛	6010B	Total/NA
Beryllium	0.50		0.22	0.050	mg/Kg	1	⊛	6010B	Total/NA
Boron	6.7		2.7	0.25	mg/Kg	1	⊛	6010B	Total/NA
Calcium	39000		54	9.1	mg/Kg	5	⊛	6010B	Total/NA
Chromium	14	B	0.54	0.27	mg/Kg	1	⊛	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B28 (15-20) (Continued)

Lab Sample ID: 500-212294-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	12		0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	31		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	22000	B	11	5.6	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.27	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	22000		5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	370		0.54	0.078	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		27	9.5	mg/Kg	1	☼	6010B	Total/NA
Silver	0.23	J	0.27	0.070	mg/Kg	1	☼	6010B	Total/NA
Sodium	280	B	54	8.0	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.78		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	77		1.1	0.47	mg/Kg	1	☼	6010B	Total/NA
Barium	0.29	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.063	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	2.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.032		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.034		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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Client Sample ID: 2233V2-01-B15 (0-3)

Lab Sample ID: 500-212294-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Naphthalene	0.0073	J	0.037	0.0057	mg/Kg	1	✳		8270D	Total/NA
2-Methylnaphthalene	0.0072	J	0.075	0.0069	mg/Kg	1	✳		8270D	Total/NA
Acenaphthylene	0.012	J	0.037	0.0049	mg/Kg	1	✳		8270D	Total/NA
Fluorene	0.0084	J	0.037	0.0052	mg/Kg	1	✳		8270D	Total/NA
Phenanthrene	0.10		0.037	0.0052	mg/Kg	1	✳		8270D	Total/NA
Anthracene	0.023	J	0.037	0.0062	mg/Kg	1	✳		8270D	Total/NA
Fluoranthene	0.19		0.037	0.0069	mg/Kg	1	✳		8270D	Total/NA
Pyrene	0.16		0.037	0.0074	mg/Kg	1	✳		8270D	Total/NA
Benzo[a]anthracene	0.087		0.037	0.0050	mg/Kg	1	✳		8270D	Total/NA
Chrysene	0.090		0.037	0.010	mg/Kg	1	✳		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B15 (0-3) (Continued)

Lab Sample ID: 500-212294-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.14		0.037	0.0080	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.046		0.037	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.095		0.037	0.0072	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.041		0.037	0.0097	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.013	J	0.037	0.0072	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.033	J *	0.037	0.012	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.32	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	7.9		0.56	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	90		0.56	0.064	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.58		0.23	0.053	mg/Kg	1	✳	6010B	Total/NA
Boron	3.9		2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.10	J B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	28000		11	1.9	mg/Kg	1	✳	6010B	Total/NA
Chromium	16	B	0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	7.6		0.28	0.074	mg/Kg	1	✳	6010B	Total/NA
Copper	19		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	18000	B	11	5.9	mg/Kg	1	✳	6010B	Total/NA
Lead	55		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	17000		5.6	2.8	mg/Kg	1	✳	6010B	Total/NA
Manganese	400		0.56	0.082	mg/Kg	1	✳	6010B	Total/NA
Nickel	14		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	930		28	10	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.36	J	0.56	0.33	mg/Kg	1	✳	6010B	Total/NA
Silver	0.32		0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Sodium	1300	B	56	8.3	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.41	J	0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Vanadium	20		0.28	0.066	mg/Kg	1	✳	6010B	Total/NA
Zinc	93		1.1	0.49	mg/Kg	1	✳	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.078	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	0.64		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.079	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.74		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.097		0.018	0.0060	mg/Kg	1	✳	7471B	Total/NA
pH	8.9		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-212294-1	2233V2-01-B37 (0-2)	Solid	02/14/22 09:45	02/14/22 17:05
500-212294-2	2233V2-01-B36 (0-2)	Solid	02/14/22 09:50	02/14/22 17:05
500-212294-3	2233V2-01-B35 (0-2)	Solid	02/14/22 09:55	02/14/22 17:05
500-212294-4	2233V2-01-B34 (0-4)	Solid	02/14/22 10:05	02/14/22 17:05
500-212294-5	2233V2-01-B34 (4-8)	Solid	02/14/22 10:10	02/14/22 17:05
500-212294-6	2233V2-01-B33 (0-4)	Solid	02/14/22 10:20	02/14/22 17:05
500-212294-7	2233V2-01-B33 (4-8)	Solid	02/14/22 10:25	02/14/22 17:05
500-212294-11	2233V2-01-B31 (0-4)	Solid	02/14/22 10:55	02/14/22 17:05
500-212294-12	2233V2-01-B30 (0-4)	Solid	02/14/22 11:05	02/14/22 17:05
500-212294-13	2233V2-01-B29 (0-4)	Solid	02/14/22 11:20	02/14/22 17:05
500-212294-14	2233V2-01-B28 (0-5)	Solid	02/14/22 11:45	02/14/22 17:05
500-212294-15	2233V2-01-B28 (5-10)	Solid	02/14/22 11:50	02/14/22 17:05
500-212294-16	2233V2-01-B28 (10-15)	Solid	02/14/22 11:55	02/14/22 17:05
500-212294-17	2233V2-01-B28 (15-20)	Solid	02/14/22 12:00	02/14/22 17:05
500-212294-20	2233V2-01-B15 (0-3)	Solid	02/14/22 13:35	02/14/22 17:05

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B37 (0-2)

Lab Sample ID: 500-212294-1

Date Collected: 02/14/22 09:45

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018	*1	0.018	0.0080	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
1,2-Dichloropropene	<0.0018		0.0018	0.00047	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	02/14/22 18:10	02/22/22 11:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		75 - 131	02/14/22 18:10	02/22/22 11:45	1
Dibromofluoromethane	117		75 - 126	02/14/22 18:10	02/22/22 11:45	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	02/14/22 18:10	02/22/22 11:45	1
Toluene-d8 (Surr)	116		75 - 124	02/14/22 18:10	02/22/22 11:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	02/22/22 11:19	02/23/22 12:54	1
Bis(2-chloroethyl)ether	<0.20	F2 F1	0.20	0.059	mg/Kg	☼	02/22/22 11:19	02/23/22 12:54	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/22/22 11:19	02/23/22 12:54	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/22/22 11:19	02/23/22 12:54	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B37 (0-2)

Lab Sample ID: 500-212294-1

Date Collected: 02/14/22 09:45

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
Isophorone	<0.20		0.20	0.044	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
Hexachlorocyclopentadiene	<0.80	F1 *	0.80	0.23	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
2,4-Dinitrophenol	<0.80	F1 *	0.80	0.70	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
Carbazole	<0.20		0.20	0.099	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	✱	02/22/22 11:19	02/23/22 12:54	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B37 (0-2)

Lab Sample ID: 500-212294-1

Date Collected: 02/14/22 09:45

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	✳	02/22/22 11:19	02/23/22 12:54	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	✳	02/22/22 11:19	02/23/22 12:54	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	✳	02/22/22 11:19	02/23/22 12:54	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	✳	02/22/22 11:19	02/23/22 12:54	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	✳	02/22/22 11:19	02/23/22 12:54	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	✳	02/22/22 11:19	02/23/22 12:54	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	✳	02/22/22 11:19	02/23/22 12:54	1
Indeno[1,2,3-cd]pyrene	<0.039	F1	0.039	0.010	mg/Kg	✳	02/22/22 11:19	02/23/22 12:54	1
Dibenz(a,h)anthracene	<0.039	F1	0.039	0.0076	mg/Kg	✳	02/22/22 11:19	02/23/22 12:54	1
Benzo[g,h,i]perylene	<0.039	F1 *-	0.039	0.013	mg/Kg	✳	02/22/22 11:19	02/23/22 12:54	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	✳	02/22/22 11:19	02/23/22 12:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	112		31 - 166	02/22/22 11:19	02/23/22 12:54	1
Phenol-d5	88		30 - 153	02/22/22 11:19	02/23/22 12:54	1
Nitrobenzene-d5 (Surr)	81		37 - 147	02/22/22 11:19	02/23/22 12:54	1
2-Fluorobiphenyl (Surr)	80		43 - 145	02/22/22 11:19	02/23/22 12:54	1
2,4,6-Tribromophenol	83		31 - 143	02/22/22 11:19	02/23/22 12:54	1
Terphenyl-d14 (Surr)	103		42 - 157	02/22/22 11:19	02/23/22 12:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J F1	1.1	0.22	mg/Kg	✳	02/24/22 10:16	02/24/22 21:43	1
Arsenic	8.0	F1	0.57	0.20	mg/Kg	✳	02/24/22 10:16	02/24/22 21:43	1
Barium	58	F1	0.57	0.065	mg/Kg	✳	02/24/22 10:16	02/24/22 21:43	1
Beryllium	0.62		0.23	0.054	mg/Kg	✳	02/24/22 10:16	02/25/22 16:50	1
Boron	8.6	F1	2.9	0.27	mg/Kg	✳	02/24/22 10:16	02/24/22 21:43	1
Cadmium	<0.11		0.11	0.021	mg/Kg	✳	02/24/22 10:16	02/24/22 21:43	1
Calcium	25000		11	1.9	mg/Kg	✳	02/24/22 10:16	02/24/22 21:43	1
Chromium	20	B F1	0.57	0.28	mg/Kg	✳	02/24/22 10:16	02/24/22 21:43	1
Cobalt	8.8	F1 F2	0.29	0.075	mg/Kg	✳	02/24/22 10:16	02/24/22 21:43	1
Copper	23	F1	0.57	0.16	mg/Kg	✳	02/24/22 10:16	02/24/22 21:43	1
Iron	23000	B	11	6.0	mg/Kg	✳	02/24/22 10:16	02/25/22 16:50	1
Lead	11	F1	0.29	0.13	mg/Kg	✳	02/24/22 10:16	02/24/22 21:43	1
Magnesium	19000		5.7	2.8	mg/Kg	✳	02/24/22 10:16	02/24/22 21:43	1
Manganese	210	F2	0.57	0.083	mg/Kg	✳	02/24/22 10:16	02/24/22 21:43	1
Nickel	29	F1 F2	0.57	0.17	mg/Kg	✳	02/24/22 10:16	02/24/22 21:43	1
Potassium	2500		29	10	mg/Kg	✳	02/24/22 10:16	02/24/22 21:43	1
Selenium	<0.57	F1	0.57	0.34	mg/Kg	✳	02/24/22 10:16	02/24/22 21:43	1
Silver	0.37		0.29	0.074	mg/Kg	✳	02/24/22 10:16	02/24/22 21:43	1
Sodium	1200	B F1	57	8.5	mg/Kg	✳	02/24/22 10:16	02/25/22 16:50	1
Thallium	1.4	F1	0.57	0.29	mg/Kg	✳	02/24/22 10:16	02/24/22 21:43	1
Vanadium	21		0.29	0.068	mg/Kg	✳	02/24/22 10:16	02/24/22 21:43	1
Zinc	77	F1	1.1	0.50	mg/Kg	✳	02/24/22 10:16	02/24/22 21:43	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.41	J	0.50	0.050	mg/L		02/23/22 09:06	02/23/22 17:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/22 09:06	02/23/22 17:59	1
Boron	0.085	J	0.50	0.050	mg/L		02/23/22 09:06	02/23/22 17:59	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B37 (0-2)

Lab Sample ID: 500-212294-1

Date Collected: 02/14/22 09:45

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/22 09:06	02/23/22 17:59	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 17:59	1
Cobalt	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 17:59	1
Iron	<0.40		0.40	0.20	mg/L		02/23/22 09:06	02/23/22 17:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/23/22 09:06	02/23/22 17:59	1
Manganese	0.20		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 17:59	1
Nickel	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 17:59	1
Selenium	<0.050		0.050	0.020	mg/L		02/23/22 09:06	02/23/22 17:59	1
Silver	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 17:59	1
Zinc	<0.50		0.50	0.020	mg/L		02/23/22 09:06	02/23/22 17:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.2		0.025	0.010	mg/L		02/23/22 09:11	02/24/22 20:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/23/22 09:06	02/23/22 18:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/22 09:06	02/23/22 18:59	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/22/22 14:20	02/23/22 15:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026	B	0.018	0.0061	mg/Kg	☆	02/22/22 13:40	02/23/22 10:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.5		0.2	0.2	SU			02/17/22 17:41	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B36 (0-2)

Lab Sample ID: 500-212294-2

Date Collected: 02/14/22 09:50

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.028	*1	0.028	0.012	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
Benzene	<0.0028		0.0028	0.00071	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
Bromodichloromethane	<0.0028		0.0028	0.00057	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
Bromoform	<0.0028		0.0028	0.00081	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
Bromomethane	<0.0070		0.0070	0.0026	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
2-Butanone (MEK)	<0.0070		0.0070	0.0031	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
Carbon disulfide	<0.0070		0.0070	0.0014	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
Carbon tetrachloride	<0.0028		0.0028	0.00081	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
Chlorobenzene	<0.0028		0.0028	0.0010	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
Chloroethane	<0.0070		0.0070	0.0021	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
Chloroform	<0.0028		0.0028	0.00097	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
Chloromethane	<0.0070		0.0070	0.0028	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
cis-1,2-Dichloroethene	<0.0028		0.0028	0.00078	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
cis-1,3-Dichloropropene	<0.0028		0.0028	0.00084	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
Dibromochloromethane	<0.0028		0.0028	0.00091	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
1,1-Dichloroethane	<0.0028		0.0028	0.00095	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
1,2-Dichloroethane	<0.0070		0.0070	0.0022	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
1,1-Dichloroethene	<0.0028		0.0028	0.00096	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
1,2-Dichloropropene	<0.0028		0.0028	0.00072	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
1,3-Dichloropropene, Total	<0.0028		0.0028	0.00098	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
Ethylbenzene	<0.0028		0.0028	0.0013	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
2-Hexanone	<0.0070		0.0070	0.0022	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
Methylene Chloride	<0.0070		0.0070	0.0027	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
4-Methyl-2-pentanone (MIBK)	<0.0070		0.0070	0.0021	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
Methyl tert-butyl ether	<0.0028		0.0028	0.00082	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
Styrene	<0.0028		0.0028	0.00084	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
1,1,2,2-Tetrachloroethane	<0.0028		0.0028	0.00089	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
Tetrachloroethene	<0.0028		0.0028	0.00095	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
Toluene	<0.0028		0.0028	0.00070	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
trans-1,2-Dichloroethene	<0.0028		0.0028	0.0012	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
trans-1,3-Dichloropropene	<0.0028		0.0028	0.00098	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
1,1,1-Trichloroethane	<0.0028		0.0028	0.00093	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
1,1,2-Trichloroethane	<0.0028		0.0028	0.0012	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
Trichloroethene	<0.0028		0.0028	0.00094	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
Vinyl acetate	<0.0070		0.0070	0.0024	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
Vinyl chloride	<0.0028		0.0028	0.0012	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1
Xylenes, Total	<0.0056		0.0056	0.00089	mg/Kg	✳	02/14/22 18:10	02/22/22 12:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		75 - 131	02/14/22 18:10	02/22/22 12:11	1
Dibromofluoromethane	117		75 - 126	02/14/22 18:10	02/22/22 12:11	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134	02/14/22 18:10	02/22/22 12:11	1
Toluene-d8 (Surr)	113		75 - 124	02/14/22 18:10	02/22/22 12:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	✳	02/22/22 11:19	02/23/22 14:04	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	✳	02/22/22 11:19	02/23/22 14:04	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	✳	02/22/22 11:19	02/23/22 14:04	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	✳	02/22/22 11:19	02/23/22 14:04	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B36 (0-2)

Lab Sample ID: 500-212294-2

Date Collected: 02/14/22 09:50

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
Isophorone	<0.19		0.19	0.043	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
Hexachlorocyclopentadiene	<0.77	*	0.77	0.22	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
2-Methylnaphthalene	<0.077		0.077	0.0071	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
2,4-Dinitrophenol	<0.77	*	0.77	0.68	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
4-Nitrophenol	<0.77		0.77	0.37	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
Carbazole	<0.19		0.19	0.096	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	✱	02/22/22 11:19	02/23/22 14:04	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B36 (0-2)

Lab Sample ID: 500-212294-2

Date Collected: 02/14/22 09:50

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	✳	02/22/22 11:19	02/23/22 14:04	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	✳	02/22/22 11:19	02/23/22 14:04	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	✳	02/22/22 11:19	02/23/22 14:04	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	✳	02/22/22 11:19	02/23/22 14:04	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	✳	02/22/22 11:19	02/23/22 14:04	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	✳	02/22/22 11:19	02/23/22 14:04	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	✳	02/22/22 11:19	02/23/22 14:04	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	✳	02/22/22 11:19	02/23/22 14:04	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	✳	02/22/22 11:19	02/23/22 14:04	1
Benzo[g,h,i]perylene	<0.038	*	0.038	0.012	mg/Kg	✳	02/22/22 11:19	02/23/22 14:04	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	✳	02/22/22 11:19	02/23/22 14:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	104		31 - 166	02/22/22 11:19	02/23/22 14:04	1
Phenol-d5	75		30 - 153	02/22/22 11:19	02/23/22 14:04	1
Nitrobenzene-d5 (Surr)	75		37 - 147	02/22/22 11:19	02/23/22 14:04	1
2-Fluorobiphenyl (Surr)	78		43 - 145	02/22/22 11:19	02/23/22 14:04	1
2,4,6-Tribromophenol	78		31 - 143	02/22/22 11:19	02/23/22 14:04	1
Terphenyl-d14 (Surr)	103		42 - 157	02/22/22 11:19	02/23/22 14:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	J	1.2	0.23	mg/Kg	✳	02/24/22 10:16	02/24/22 22:06	1
Arsenic	12		0.60	0.20	mg/Kg	✳	02/24/22 10:16	02/24/22 22:06	1
Barium	76		0.60	0.068	mg/Kg	✳	02/24/22 10:16	02/25/22 17:13	1
Beryllium	0.57		0.24	0.056	mg/Kg	✳	02/24/22 10:16	02/25/22 17:13	1
Boron	5.5		3.0	0.28	mg/Kg	✳	02/24/22 10:16	02/24/22 22:06	1
Cadmium	<0.12		0.12	0.021	mg/Kg	✳	02/24/22 10:16	02/24/22 22:06	1
Calcium	18000		12	2.0	mg/Kg	✳	02/24/22 10:16	02/25/22 17:13	1
Chromium	15	B	0.60	0.29	mg/Kg	✳	02/24/22 10:16	02/24/22 22:06	1
Cobalt	13		0.30	0.078	mg/Kg	✳	02/24/22 10:16	02/24/22 22:06	1
Copper	22		0.60	0.17	mg/Kg	✳	02/24/22 10:16	02/24/22 22:06	1
Iron	25000	B	12	6.2	mg/Kg	✳	02/24/22 10:16	02/25/22 17:13	1
Lead	17		0.30	0.14	mg/Kg	✳	02/24/22 10:16	02/24/22 22:06	1
Magnesium	11000		6.0	3.0	mg/Kg	✳	02/24/22 10:16	02/25/22 17:13	1
Manganese	540		0.60	0.086	mg/Kg	✳	02/24/22 10:16	02/25/22 17:13	1
Nickel	31		0.60	0.17	mg/Kg	✳	02/24/22 10:16	02/24/22 22:06	1
Potassium	1300		30	11	mg/Kg	✳	02/24/22 10:16	02/25/22 17:13	1
Selenium	<0.60		0.60	0.35	mg/Kg	✳	02/24/22 10:16	02/24/22 22:06	1
Silver	0.32		0.30	0.077	mg/Kg	✳	02/24/22 10:16	02/24/22 22:06	1
Sodium	830	B	60	8.8	mg/Kg	✳	02/24/22 10:16	02/25/22 17:13	1
Thallium	1.1		0.60	0.30	mg/Kg	✳	02/24/22 10:16	02/24/22 22:06	1
Vanadium	21		0.30	0.070	mg/Kg	✳	02/24/22 10:16	02/24/22 22:06	1
Zinc	80		1.2	0.52	mg/Kg	✳	02/24/22 10:16	02/24/22 22:06	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.53		0.50	0.050	mg/L		02/23/22 09:06	02/23/22 18:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/22 09:06	02/23/22 18:02	1
Boron	0.11	J	0.50	0.050	mg/L		02/23/22 09:06	02/23/22 18:02	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B36 (0-2)

Lab Sample ID: 500-212294-2

Date Collected: 02/14/22 09:50

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/22 09:06	02/23/22 18:02	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 18:02	1
Cobalt	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 18:02	1
Iron	<0.40		0.40	0.20	mg/L		02/23/22 09:06	02/23/22 18:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/23/22 09:06	02/23/22 18:02	1
Manganese	0.44		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 18:02	1
Nickel	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 18:02	1
Selenium	<0.050		0.050	0.020	mg/L		02/23/22 09:06	02/23/22 18:02	1
Silver	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 18:02	1
Zinc	0.033	J	0.50	0.020	mg/L		02/23/22 09:06	02/23/22 18:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.93		0.025	0.010	mg/L		02/23/22 09:11	02/24/22 20:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/23/22 09:06	02/23/22 19:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/22 09:06	02/23/22 19:01	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/22/22 14:20	02/23/22 15:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047	B	0.018	0.0061	mg/Kg	☆	02/22/22 13:40	02/23/22 10:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.5		0.2	0.2	SU			02/17/22 17:43	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B35 (0-2)

Lab Sample ID: 500-212294-3

Date Collected: 02/14/22 09:55

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022	*1	0.022	0.0095	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
Benzene	<0.0022		0.0022	0.00056	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
Bromodichloromethane	<0.0022		0.0022	0.00045	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
Bromoform	<0.0022		0.0022	0.00064	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
Bromomethane	<0.0055		0.0055	0.0021	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
2-Butanone (MEK)	<0.0055		0.0055	0.0024	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
Carbon disulfide	<0.0055		0.0055	0.0011	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
Carbon tetrachloride	<0.0022		0.0022	0.00064	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
Chlorobenzene	<0.0022		0.0022	0.00081	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
Chloroethane	<0.0055		0.0055	0.0016	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
Chloroform	<0.0022		0.0022	0.00076	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
Chloromethane	<0.0055		0.0055	0.0022	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00061	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00066	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
Dibromochloromethane	<0.0022		0.0022	0.00072	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
1,1-Dichloroethane	<0.0022		0.0022	0.00075	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
1,2-Dichloroethane	<0.0055		0.0055	0.0017	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
1,1-Dichloroethene	<0.0022		0.0022	0.00075	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
1,2-Dichloropropane	<0.0022		0.0022	0.00057	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
1,3-Dichloropropane, Total	<0.0022		0.0022	0.00077	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
Ethylbenzene	<0.0022		0.0022	0.0010	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
2-Hexanone	<0.0055		0.0055	0.0017	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
Methylene Chloride	<0.0055		0.0055	0.0022	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0016	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00064	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
Styrene	<0.0022		0.0022	0.00066	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.00070	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
Tetrachloroethene	<0.0022		0.0022	0.00075	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
Toluene	<0.0022		0.0022	0.00055	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00097	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.00077	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
1,1,1-Trichloroethane	<0.0022		0.0022	0.00073	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00094	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
Trichloroethene	<0.0022		0.0022	0.00074	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
Vinyl acetate	<0.0055		0.0055	0.0019	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
Vinyl chloride	<0.0022		0.0022	0.00097	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1
Xylenes, Total	<0.0044		0.0044	0.00070	mg/Kg	✳	02/14/22 18:10	02/22/22 12:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		75 - 131	02/14/22 18:10	02/22/22 12:38	1
Dibromofluoromethane	115		75 - 126	02/14/22 18:10	02/22/22 12:38	1
1,2-Dichloroethane-d4 (Surr)	115		70 - 134	02/14/22 18:10	02/22/22 12:38	1
Toluene-d8 (Surr)	116		75 - 124	02/14/22 18:10	02/22/22 12:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	✳	02/22/22 11:19	02/23/22 14:28	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	✳	02/22/22 11:19	02/23/22 14:28	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	✳	02/22/22 11:19	02/23/22 14:28	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	✳	02/22/22 11:19	02/23/22 14:28	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B35 (0-2)

Lab Sample ID: 500-212294-3

Date Collected: 02/14/22 09:55

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
Hexachlorocyclopentadiene	<0.77	*	0.77	0.22	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
2,4-Dinitrophenol	<0.77	*	0.77	0.67	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	02/22/22 11:19	02/23/22 14:28	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B35 (0-2)

Lab Sample ID: 500-212294-3

Date Collected: 02/14/22 09:55

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	✳	02/22/22 11:19	02/23/22 14:28	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	✳	02/22/22 11:19	02/23/22 14:28	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	✳	02/22/22 11:19	02/23/22 14:28	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	✳	02/22/22 11:19	02/23/22 14:28	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	✳	02/22/22 11:19	02/23/22 14:28	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	✳	02/22/22 11:19	02/23/22 14:28	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	✳	02/22/22 11:19	02/23/22 14:28	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	✳	02/22/22 11:19	02/23/22 14:28	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	✳	02/22/22 11:19	02/23/22 14:28	1
Benzo[g,h,i]perylene	<0.038	*	0.038	0.012	mg/Kg	✳	02/22/22 11:19	02/23/22 14:28	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	✳	02/22/22 11:19	02/23/22 14:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	113		31 - 166	02/22/22 11:19	02/23/22 14:28	1
Phenol-d5	105		30 - 153	02/22/22 11:19	02/23/22 14:28	1
Nitrobenzene-d5 (Surr)	83		37 - 147	02/22/22 11:19	02/23/22 14:28	1
2-Fluorobiphenyl (Surr)	83		43 - 145	02/22/22 11:19	02/23/22 14:28	1
2,4,6-Tribromophenol	80		31 - 143	02/22/22 11:19	02/23/22 14:28	1
Terphenyl-d14 (Surr)	108		42 - 157	02/22/22 11:19	02/23/22 14:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.29	J	1.1	0.21	mg/Kg	✳	02/24/22 10:16	02/24/22 22:09	1
Arsenic	8.4		0.55	0.19	mg/Kg	✳	02/24/22 10:16	02/24/22 22:09	1
Barium	58		0.55	0.062	mg/Kg	✳	02/24/22 10:16	02/25/22 17:16	1
Beryllium	0.55		0.22	0.051	mg/Kg	✳	02/24/22 10:16	02/25/22 17:16	1
Boron	8.4		2.7	0.26	mg/Kg	✳	02/24/22 10:16	02/24/22 22:09	1
Cadmium	<0.11		0.11	0.020	mg/Kg	✳	02/24/22 10:16	02/24/22 22:09	1
Calcium	59000		55	9.3	mg/Kg	✳	02/24/22 10:16	02/25/22 17:19	5
Chromium	16	B	0.55	0.27	mg/Kg	✳	02/24/22 10:16	02/24/22 22:09	1
Cobalt	11		0.27	0.072	mg/Kg	✳	02/24/22 10:16	02/24/22 22:09	1
Copper	23		0.55	0.15	mg/Kg	✳	02/24/22 10:16	02/24/22 22:09	1
Iron	20000	B	11	5.7	mg/Kg	✳	02/24/22 10:16	02/25/22 17:16	1
Lead	13		0.27	0.13	mg/Kg	✳	02/24/22 10:16	02/24/22 22:09	1
Magnesium	24000		5.5	2.7	mg/Kg	✳	02/24/22 10:16	02/25/22 17:16	1
Manganese	330		0.55	0.079	mg/Kg	✳	02/24/22 10:16	02/25/22 17:16	1
Nickel	28		0.55	0.16	mg/Kg	✳	02/24/22 10:16	02/24/22 22:09	1
Potassium	1900		27	9.7	mg/Kg	✳	02/24/22 10:16	02/25/22 17:16	1
Selenium	<0.55		0.55	0.32	mg/Kg	✳	02/24/22 10:16	02/24/22 22:09	1
Silver	0.23	J	0.27	0.071	mg/Kg	✳	02/24/22 10:16	02/24/22 22:09	1
Sodium	640	B	55	8.1	mg/Kg	✳	02/24/22 10:16	02/25/22 17:16	1
Thallium	1.0		0.55	0.27	mg/Kg	✳	02/24/22 10:16	02/24/22 22:09	1
Vanadium	18		0.27	0.065	mg/Kg	✳	02/24/22 10:16	02/24/22 22:09	1
Zinc	69		1.1	0.48	mg/Kg	✳	02/24/22 10:16	02/24/22 22:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.40	J	0.50	0.050	mg/L		02/23/22 09:06	02/23/22 19:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/22 09:06	02/23/22 19:43	1
Boron	<0.50		0.50	0.050	mg/L		02/23/22 09:06	02/23/22 19:43	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B35 (0-2)

Lab Sample ID: 500-212294-3

Date Collected: 02/14/22 09:55

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0043	J	0.0050	0.0020	mg/L	-	02/23/22 09:06	02/23/22 19:43	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/23/22 09:06	02/23/22 19:43	1
Cobalt	0.012	J	0.025	0.010	mg/L	-	02/23/22 09:06	02/23/22 19:43	1
Iron	<0.40		0.40	0.20	mg/L	-	02/23/22 09:06	02/23/22 19:43	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/23/22 09:06	02/24/22 15:00	1
Manganese	2.6		0.025	0.010	mg/L	-	02/23/22 09:06	02/23/22 19:43	1
Nickel	0.024	J	0.025	0.010	mg/L	-	02/23/22 09:06	02/23/22 19:43	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/23/22 09:06	02/23/22 19:43	1
Silver	<0.025		0.025	0.010	mg/L	-	02/23/22 09:06	02/23/22 19:43	1
Zinc	<0.50		0.50	0.020	mg/L	-	02/23/22 09:06	02/23/22 19:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.83		0.025	0.010	mg/L	-	02/23/22 09:11	02/24/22 20:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/23/22 09:06	02/23/22 19:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/23/22 09:06	02/23/22 19:55	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/22/22 14:20	02/23/22 17:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.019	0.0063	mg/Kg	☆	02/22/22 13:40	02/23/22 11:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.8		0.2	0.2	SU	-		02/17/22 17:46	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B34 (0-4)

Lab Sample ID: 500-212294-4

Date Collected: 02/14/22 10:05

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018	*1	0.018	0.0077	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
Carbon disulfide	<0.0044		0.0044	0.00092	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
1,2-Dichloropropene	<0.0018		0.0018	0.00046	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1
Xylenes, Total	<0.0035		0.0035	0.00057	mg/Kg	☼	02/14/22 18:10	02/22/22 13:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		75 - 131	02/14/22 18:10	02/22/22 13:05	1
Dibromofluoromethane	116		75 - 126	02/14/22 18:10	02/22/22 13:05	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134	02/14/22 18:10	02/22/22 13:05	1
Toluene-d8 (Surr)	117		75 - 124	02/14/22 18:10	02/22/22 13:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B34 (0-4)

Lab Sample ID: 500-212294-4

Date Collected: 02/14/22 10:05

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
Hexachlorocyclopentadiene	<0.75	*	0.75	0.21	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
2-Methylnaphthalene	<0.075		0.075	0.0068	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
2,4-Dinitrophenol	<0.75	*	0.75	0.65	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	02/22/22 11:19	02/23/22 14:51	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B34 (0-4)

Lab Sample ID: 500-212294-4

Date Collected: 02/14/22 10:05

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	✱	02/22/22 11:19	02/23/22 14:51	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	✱	02/22/22 11:19	02/23/22 14:51	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	✱	02/22/22 11:19	02/23/22 14:51	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	✱	02/22/22 11:19	02/23/22 14:51	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	✱	02/22/22 11:19	02/23/22 14:51	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	✱	02/22/22 11:19	02/23/22 14:51	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	✱	02/22/22 11:19	02/23/22 14:51	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	✱	02/22/22 11:19	02/23/22 14:51	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	✱	02/22/22 11:19	02/23/22 14:51	1
Benzo[g,h,i]perylene	<0.037	*	0.037	0.012	mg/Kg	✱	02/22/22 11:19	02/23/22 14:51	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	✱	02/22/22 11:19	02/23/22 14:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	108		31 - 166	02/22/22 11:19	02/23/22 14:51	1
Phenol-d5	103		30 - 153	02/22/22 11:19	02/23/22 14:51	1
Nitrobenzene-d5 (Surr)	80		37 - 147	02/22/22 11:19	02/23/22 14:51	1
2-Fluorobiphenyl (Surr)	83		43 - 145	02/22/22 11:19	02/23/22 14:51	1
2,4,6-Tribromophenol	79		31 - 143	02/22/22 11:19	02/23/22 14:51	1
Terphenyl-d14 (Surr)	106		42 - 157	02/22/22 11:19	02/23/22 14:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.36	J	1.1	0.22	mg/Kg	✱	02/24/22 10:16	02/24/22 22:12	1
Arsenic	11		0.56	0.19	mg/Kg	✱	02/24/22 10:16	02/24/22 22:12	1
Barium	48		0.56	0.064	mg/Kg	✱	02/24/22 10:16	02/25/22 17:22	1
Beryllium	0.56		0.22	0.052	mg/Kg	✱	02/24/22 10:16	02/25/22 17:22	1
Boron	8.7		2.8	0.26	mg/Kg	✱	02/24/22 10:16	02/24/22 22:12	1
Cadmium	<0.11		0.11	0.020	mg/Kg	✱	02/24/22 10:16	02/24/22 22:12	1
Calcium	59000		56	9.5	mg/Kg	✱	02/24/22 10:16	02/25/22 17:25	5
Chromium	15	B	0.56	0.28	mg/Kg	✱	02/24/22 10:16	02/24/22 22:12	1
Cobalt	13		0.28	0.073	mg/Kg	✱	02/24/22 10:16	02/24/22 22:12	1
Copper	24		0.56	0.16	mg/Kg	✱	02/24/22 10:16	02/24/22 22:12	1
Iron	22000	B	11	5.8	mg/Kg	✱	02/24/22 10:16	02/25/22 17:22	1
Lead	14		0.28	0.13	mg/Kg	✱	02/24/22 10:16	02/24/22 22:12	1
Magnesium	25000		5.6	2.8	mg/Kg	✱	02/24/22 10:16	02/25/22 17:22	1
Manganese	440		0.56	0.081	mg/Kg	✱	02/24/22 10:16	02/25/22 17:22	1
Nickel	31		0.56	0.16	mg/Kg	✱	02/24/22 10:16	02/24/22 22:12	1
Potassium	1900		28	9.9	mg/Kg	✱	02/24/22 10:16	02/25/22 17:22	1
Selenium	<0.56		0.56	0.33	mg/Kg	✱	02/24/22 10:16	02/24/22 22:12	1
Silver	0.23	J	0.28	0.072	mg/Kg	✱	02/24/22 10:16	02/24/22 22:12	1
Sodium	1700	B	56	8.3	mg/Kg	✱	02/24/22 10:16	02/25/22 17:22	1
Thallium	0.67		0.56	0.28	mg/Kg	✱	02/24/22 10:16	02/24/22 22:12	1
Vanadium	19		0.28	0.066	mg/Kg	✱	02/24/22 10:16	02/24/22 22:12	1
Zinc	77		1.1	0.49	mg/Kg	✱	02/24/22 10:16	02/24/22 22:12	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.32	J	0.50	0.050	mg/L		02/23/22 09:06	02/23/22 19:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/22 09:06	02/23/22 19:46	1
Boron	0.074	J	0.50	0.050	mg/L		02/23/22 09:06	02/23/22 19:46	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B34 (0-4)

Lab Sample ID: 500-212294-4

Date Collected: 02/14/22 10:05

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0039	J	0.0050	0.0020	mg/L	-	02/23/22 09:06	02/23/22 19:46	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/23/22 09:06	02/23/22 19:46	1
Cobalt	0.027		0.025	0.010	mg/L	-	02/23/22 09:06	02/23/22 19:46	1
Iron	<0.40		0.40	0.20	mg/L	-	02/23/22 09:06	02/23/22 19:46	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/23/22 09:06	02/24/22 15:03	1
Manganese	4.3		0.025	0.010	mg/L	-	02/23/22 09:06	02/23/22 19:46	1
Nickel	0.037		0.025	0.010	mg/L	-	02/23/22 09:06	02/23/22 19:46	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/23/22 09:06	02/23/22 19:46	1
Silver	<0.025		0.025	0.010	mg/L	-	02/23/22 09:06	02/23/22 19:46	1
Zinc	0.025	J	0.50	0.020	mg/L	-	02/23/22 09:06	02/23/22 19:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.1		0.025	0.010	mg/L	-	02/23/22 09:11	02/24/22 20:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/23/22 09:06	02/23/22 19:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/23/22 09:06	02/23/22 19:57	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/22/22 14:20	02/23/22 17:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.019	0.0062	mg/Kg	☆	02/22/22 13:40	02/23/22 11:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.7		0.2	0.2	SU	-		02/17/22 17:48	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B34 (4-8)

Lab Sample ID: 500-212294-5

Date Collected: 02/14/22 10:10

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.017	*1	0.017	0.0076	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
Carbon tetrachloride	<0.0017		0.0017	0.00051	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00053	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
1,2-Dichloropropene	<0.0017		0.0017	0.00045	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	02/14/22 18:10	02/22/22 13:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		75 - 131	02/14/22 18:10	02/22/22 13:32	1
Dibromofluoromethane	119		75 - 126	02/14/22 18:10	02/22/22 13:32	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134	02/14/22 18:10	02/22/22 13:32	1
Toluene-d8 (Surr)	112		75 - 124	02/14/22 18:10	02/22/22 13:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	02/22/22 11:19	02/23/22 15:15	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/22/22 11:19	02/23/22 15:15	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/22/22 11:19	02/23/22 15:15	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/22/22 11:19	02/23/22 15:15	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B34 (4-8)

Lab Sample ID: 500-212294-5

Date Collected: 02/14/22 10:10

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
Isophorone	<0.19		0.19	0.042	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
Hexachlorocyclopentadiene	<0.75	*	0.75	0.21	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
2-Methylnaphthalene	<0.075		0.075	0.0069	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
2,4-Dinitrophenol	<0.75	*	0.75	0.66	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
Carbazole	<0.19		0.19	0.093	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	✱	02/22/22 11:19	02/23/22 15:15	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B34 (4-8)

Lab Sample ID: 500-212294-5

Date Collected: 02/14/22 10:10

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	✳	02/22/22 11:19	02/23/22 15:15	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	✳	02/22/22 11:19	02/23/22 15:15	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	✳	02/22/22 11:19	02/23/22 15:15	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	✳	02/22/22 11:19	02/23/22 15:15	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	✳	02/22/22 11:19	02/23/22 15:15	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	✳	02/22/22 11:19	02/23/22 15:15	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	✳	02/22/22 11:19	02/23/22 15:15	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	✳	02/22/22 11:19	02/23/22 15:15	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	✳	02/22/22 11:19	02/23/22 15:15	1
Benzo[g,h,i]perylene	<0.037	*	0.037	0.012	mg/Kg	✳	02/22/22 11:19	02/23/22 15:15	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	✳	02/22/22 11:19	02/23/22 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	107		31 - 166	02/22/22 11:19	02/23/22 15:15	1
Phenol-d5	99		30 - 153	02/22/22 11:19	02/23/22 15:15	1
Nitrobenzene-d5 (Surr)	77		37 - 147	02/22/22 11:19	02/23/22 15:15	1
2-Fluorobiphenyl (Surr)	82		43 - 145	02/22/22 11:19	02/23/22 15:15	1
2,4,6-Tribromophenol	77		31 - 143	02/22/22 11:19	02/23/22 15:15	1
Terphenyl-d14 (Surr)	109		42 - 157	02/22/22 11:19	02/23/22 15:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	J	1.1	0.21	mg/Kg	✳	02/24/22 10:16	02/24/22 22:16	1
Arsenic	9.9		0.54	0.19	mg/Kg	✳	02/24/22 10:16	02/24/22 22:16	1
Barium	46		0.54	0.062	mg/Kg	✳	02/24/22 10:16	02/25/22 17:28	1
Beryllium	0.55		0.22	0.051	mg/Kg	✳	02/24/22 10:16	02/25/22 17:28	1
Boron	7.1		2.7	0.25	mg/Kg	✳	02/24/22 10:16	02/24/22 22:16	1
Cadmium	<0.11		0.11	0.020	mg/Kg	✳	02/24/22 10:16	02/24/22 22:16	1
Calcium	52000		54	9.2	mg/Kg	✳	02/24/22 10:16	02/25/22 17:32	5
Chromium	15	B	0.54	0.27	mg/Kg	✳	02/24/22 10:16	02/24/22 22:16	1
Cobalt	11		0.27	0.071	mg/Kg	✳	02/24/22 10:16	02/24/22 22:16	1
Copper	24		0.54	0.15	mg/Kg	✳	02/24/22 10:16	02/24/22 22:16	1
Iron	22000	B	11	5.6	mg/Kg	✳	02/24/22 10:16	02/25/22 17:28	1
Lead	14		0.27	0.13	mg/Kg	✳	02/24/22 10:16	02/24/22 22:16	1
Magnesium	22000		5.4	2.7	mg/Kg	✳	02/24/22 10:16	02/25/22 17:28	1
Manganese	360		0.54	0.079	mg/Kg	✳	02/24/22 10:16	02/25/22 17:28	1
Nickel	31		0.54	0.16	mg/Kg	✳	02/24/22 10:16	02/24/22 22:16	1
Potassium	1700		27	9.6	mg/Kg	✳	02/24/22 10:16	02/25/22 17:28	1
Selenium	<0.54		0.54	0.32	mg/Kg	✳	02/24/22 10:16	02/24/22 22:16	1
Silver	0.25	J	0.27	0.070	mg/Kg	✳	02/24/22 10:16	02/24/22 22:16	1
Sodium	460	B	54	8.0	mg/Kg	✳	02/24/22 10:16	02/25/22 17:28	1
Thallium	0.68		0.54	0.27	mg/Kg	✳	02/24/22 10:16	02/24/22 22:16	1
Vanadium	17		0.27	0.064	mg/Kg	✳	02/24/22 10:16	02/24/22 22:16	1
Zinc	71		1.1	0.48	mg/Kg	✳	02/24/22 10:16	02/24/22 22:16	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.46	J	0.50	0.050	mg/L		02/23/22 09:06	02/23/22 18:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/22 09:06	02/23/22 18:12	1
Boron	0.21	J	0.50	0.050	mg/L		02/23/22 09:06	02/23/22 18:12	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B34 (4-8)

Lab Sample ID: 500-212294-5

Date Collected: 02/14/22 10:10

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/22 09:06	02/23/22 18:12	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 18:12	1
Cobalt	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 18:12	1
Iron	<0.40		0.40	0.20	mg/L		02/23/22 09:06	02/23/22 18:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/23/22 09:06	02/23/22 18:12	1
Manganese	4.2		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 18:12	1
Nickel	0.012	J	0.025	0.010	mg/L		02/23/22 09:06	02/23/22 18:12	1
Selenium	<0.050		0.050	0.020	mg/L		02/23/22 09:06	02/23/22 18:12	1
Silver	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 18:12	1
Zinc	<0.50		0.50	0.020	mg/L		02/23/22 09:06	02/23/22 18:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.2		0.025	0.010	mg/L		02/23/22 09:11	02/24/22 20:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/23/22 09:06	02/23/22 19:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/22 09:06	02/23/22 19:03	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/22/22 14:20	02/23/22 15:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.018	0.0059	mg/Kg	☆	02/22/22 13:40	02/23/22 11:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.7		0.2	0.2	SU			02/17/22 17:51	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B33 (0-4)

Lab Sample ID: 500-212294-6

Date Collected: 02/14/22 10:20

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.011	J*1	0.015	0.0067	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
Benzene	<0.0015		0.0015	0.00039	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
Bromodichloromethane	<0.0015		0.0015	0.00031	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
Bromoform	<0.0015		0.0015	0.00045	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
Bromomethane	<0.0038		0.0038	0.0014	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
2-Butanone (MEK)	<0.0038		0.0038	0.0017	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
Carbon disulfide	<0.0038		0.0038	0.00079	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
Carbon tetrachloride	<0.0015		0.0015	0.00044	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
Chlorobenzene	<0.0015		0.0015	0.00056	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
Chloroethane	<0.0038		0.0038	0.0011	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
Chloroform	<0.0015		0.0015	0.00053	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
Chloromethane	<0.0038		0.0038	0.0015	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00043	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00046	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
Dibromochloromethane	<0.0015		0.0015	0.00050	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
1,1-Dichloroethane	<0.0015		0.0015	0.00052	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
1,2-Dichloroethane	<0.0038		0.0038	0.0012	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
1,1-Dichloroethene	<0.0015		0.0015	0.00053	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
1,2-Dichloropropene	<0.0015		0.0015	0.00039	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00054	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
Ethylbenzene	<0.0015		0.0015	0.00073	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
Methylene Chloride	<0.0038		0.0038	0.0015	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.0011	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00045	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
Styrene	<0.0015		0.0015	0.00046	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00049	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
Tetrachloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
Toluene	<0.0015		0.0015	0.00039	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00068	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00054	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
1,1,1-Trichloroethane	<0.0015		0.0015	0.00051	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00066	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
Trichloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
Vinyl acetate	<0.0038		0.0038	0.0013	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
Vinyl chloride	<0.0015		0.0015	0.00068	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1
Xylenes, Total	<0.0031		0.0031	0.00049	mg/Kg	☼	02/14/22 18:10	02/22/22 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		75 - 131	02/14/22 18:10	02/22/22 14:26	1
Dibromofluoromethane	118		75 - 126	02/14/22 18:10	02/22/22 14:26	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	02/14/22 18:10	02/22/22 14:26	1
Toluene-d8 (Surr)	113		75 - 124	02/14/22 18:10	02/22/22 14:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	02/22/22 11:19	02/23/22 15:39	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/22/22 11:19	02/23/22 15:39	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/22/22 11:19	02/23/22 15:39	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/22/22 11:19	02/23/22 15:39	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B33 (0-4)

Lab Sample ID: 500-212294-6

Date Collected: 02/14/22 10:20

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
Hexachlorocyclopentadiene	<0.78	*	0.78	0.22	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
2,4-Dinitrophenol	<0.78	*	0.78	0.68	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☆	02/22/22 11:19	02/23/22 15:39	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B33 (0-4)

Lab Sample ID: 500-212294-6

Date Collected: 02/14/22 10:20

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.011	mg/Kg	✳	02/22/22 11:19	02/23/22 15:39	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	✳	02/22/22 11:19	02/23/22 15:39	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	✳	02/22/22 11:19	02/23/22 15:39	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	✳	02/22/22 11:19	02/23/22 15:39	1
Benzo[b]fluoranthene	<0.038	*3	0.038	0.0083	mg/Kg	✳	02/22/22 11:19	02/23/22 15:39	1
Benzo[k]fluoranthene	<0.038	*3	0.038	0.011	mg/Kg	✳	02/22/22 11:19	02/23/22 15:39	1
Benzo[a]pyrene	<0.038	*3	0.038	0.0075	mg/Kg	✳	02/22/22 11:19	02/23/22 15:39	1
Indeno[1,2,3-cd]pyrene	<0.038	*3	0.038	0.010	mg/Kg	✳	02/22/22 11:19	02/23/22 15:39	1
Dibenz(a,h)anthracene	<0.038	*3	0.038	0.0074	mg/Kg	✳	02/22/22 11:19	02/23/22 15:39	1
Benzo[g,h,i]perylene	<0.038	*- *3	0.038	0.012	mg/Kg	✳	02/22/22 11:19	02/23/22 15:39	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	✳	02/22/22 11:19	02/23/22 15:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	101		31 - 166				02/22/22 11:19	02/23/22 15:39	1
Phenol-d5	98		30 - 153				02/22/22 11:19	02/23/22 15:39	1
Nitrobenzene-d5 (Surr)	65		37 - 147				02/22/22 11:19	02/23/22 15:39	1
2-Fluorobiphenyl (Surr)	72		43 - 145				02/22/22 11:19	02/23/22 15:39	1
2,4,6-Tribromophenol	78		31 - 143				02/22/22 11:19	02/23/22 15:39	1
Terphenyl-d14 (Surr)	116		42 - 157				02/22/22 11:19	02/23/22 15:39	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.31	J	1.2	0.23	mg/Kg	✳	02/24/22 10:16	02/24/22 22:19	1
Arsenic	8.9		0.58	0.20	mg/Kg	✳	02/24/22 10:16	02/24/22 22:19	1
Barium	66		0.58	0.066	mg/Kg	✳	02/24/22 10:16	02/25/22 17:35	1
Beryllium	0.58		0.23	0.054	mg/Kg	✳	02/24/22 10:16	02/25/22 17:35	1
Boron	7.9		2.9	0.27	mg/Kg	✳	02/24/22 10:16	02/24/22 22:19	1
Cadmium	<0.12		0.12	0.021	mg/Kg	✳	02/24/22 10:16	02/24/22 22:19	1
Calcium	45000		58	9.8	mg/Kg	✳	02/24/22 10:16	02/25/22 17:48	5
Chromium	16	B	0.58	0.29	mg/Kg	✳	02/24/22 10:16	02/24/22 22:19	1
Cobalt	13		0.29	0.076	mg/Kg	✳	02/24/22 10:16	02/24/22 22:19	1
Copper	27		0.58	0.16	mg/Kg	✳	02/24/22 10:16	02/24/22 22:19	1
Iron	22000	B	12	6.0	mg/Kg	✳	02/24/22 10:16	02/25/22 17:35	1
Lead	15		0.29	0.13	mg/Kg	✳	02/24/22 10:16	02/24/22 22:19	1
Magnesium	20000		5.8	2.9	mg/Kg	✳	02/24/22 10:16	02/25/22 17:35	1
Manganese	510		0.58	0.084	mg/Kg	✳	02/24/22 10:16	02/25/22 17:35	1
Nickel	33		0.58	0.17	mg/Kg	✳	02/24/22 10:16	02/24/22 22:19	1
Potassium	1800		29	10	mg/Kg	✳	02/24/22 10:16	02/25/22 17:35	1
Selenium	<0.58		0.58	0.34	mg/Kg	✳	02/24/22 10:16	02/24/22 22:19	1
Silver	0.25	J	0.29	0.075	mg/Kg	✳	02/24/22 10:16	02/24/22 22:19	1
Sodium	1100	B	58	8.6	mg/Kg	✳	02/24/22 10:16	02/25/22 17:35	1
Thallium	0.78		0.58	0.29	mg/Kg	✳	02/24/22 10:16	02/24/22 22:19	1
Vanadium	19		0.29	0.069	mg/Kg	✳	02/24/22 10:16	02/24/22 22:19	1
Zinc	69		1.2	0.51	mg/Kg	✳	02/24/22 10:16	02/24/22 22:19	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.58		0.50	0.050	mg/L		02/23/22 09:06	02/23/22 18:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/22 09:06	02/23/22 18:25	1
Boron	0.073	J	0.50	0.050	mg/L		02/23/22 09:06	02/23/22 18:25	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B33 (0-4)

Lab Sample ID: 500-212294-6

Date Collected: 02/14/22 10:20

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/22 09:06	02/23/22 18:25	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 18:25	1
Cobalt	0.018	J	0.025	0.010	mg/L		02/23/22 09:06	02/23/22 18:25	1
Iron	<0.40		0.40	0.20	mg/L		02/23/22 09:06	02/23/22 18:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/23/22 09:06	02/23/22 18:25	1
Manganese	7.4		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 18:25	1
Nickel	0.017	J	0.025	0.010	mg/L		02/23/22 09:06	02/23/22 18:25	1
Selenium	<0.050		0.050	0.020	mg/L		02/23/22 09:06	02/23/22 18:25	1
Silver	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 18:25	1
Zinc	0.061	J	0.50	0.020	mg/L		02/23/22 09:06	02/23/22 18:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	3.0		0.025	0.010	mg/L		02/23/22 09:11	02/24/22 20:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/23/22 09:06	02/23/22 19:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/22 09:06	02/23/22 19:12	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/22/22 14:20	02/23/22 15:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.019	0.0062	mg/Kg	☆	02/22/22 13:40	02/23/22 11:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9		0.2	0.2	SU			02/17/22 17:56	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B33 (4-8)

Lab Sample ID: 500-212294-7

Date Collected: 02/14/22 10:25

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016	*1	0.016	0.0069	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
Carbon disulfide	<0.0040		0.0040	0.00082	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
1,2-Dichloropropene	<0.0016		0.0016	0.00041	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
Ethylbenzene	<0.0016		0.0016	0.00076	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00070	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
Vinyl acetate	<0.0040		0.0040	0.0014	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	02/14/22 18:10	02/22/22 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		75 - 131	02/14/22 18:10	02/22/22 14:52	1
Dibromofluoromethane	119		75 - 126	02/14/22 18:10	02/22/22 14:52	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134	02/14/22 18:10	02/22/22 14:52	1
Toluene-d8 (Surr)	113		75 - 124	02/14/22 18:10	02/22/22 14:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.079	mg/Kg	☼	02/22/22 11:19	02/23/22 16:02	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	02/22/22 11:19	02/23/22 16:02	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	02/22/22 11:19	02/23/22 16:02	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	02/22/22 11:19	02/23/22 16:02	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B33 (4-8)

Lab Sample ID: 500-212294-7

Date Collected: 02/14/22 10:25

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
N-Nitrosodi-n-propylamine	<0.072		0.072	0.044	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
Nitrobenzene	<0.035		0.035	0.0089	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
Isophorone	<0.18		0.18	0.040	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
2,4-Dimethylphenol	<0.35		0.35	0.14	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
Naphthalene	<0.035		0.035	0.0055	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
2,4-Dichlorophenol	<0.35		0.35	0.085	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
Hexachlorocyclopentadiene	<0.72	*	0.72	0.20	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
2-Methylnaphthalene	<0.072		0.072	0.0066	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
2,4-Dinitrophenol	<0.72	*	0.72	0.63	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
Acenaphthylene	<0.035		0.035	0.0047	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
Acenaphthene	<0.035		0.035	0.0064	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
Fluorene	<0.035		0.035	0.0050	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
Hexachlorobenzene	<0.072		0.072	0.0083	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
Pentachlorophenol	<0.72		0.72	0.57	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.29	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
Phenanthrene	<0.035		0.035	0.0050	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
Anthracene	<0.035		0.035	0.0060	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
Carbazole	<0.18		0.18	0.089	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
Fluoranthene	<0.035		0.035	0.0066	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
Pyrene	<0.035		0.035	0.0071	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1
Benzo[a]anthracene	<0.035		0.035	0.0048	mg/Kg	✱	02/22/22 11:19	02/23/22 16:02	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B33 (4-8)

Lab Sample ID: 500-212294-7

Date Collected: 02/14/22 10:25

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.035		0.035	0.0097	mg/Kg	✳	02/22/22 11:19	02/23/22 16:02	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	✳	02/22/22 11:19	02/23/22 16:02	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	✳	02/22/22 11:19	02/23/22 16:02	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	✳	02/22/22 11:19	02/23/22 16:02	1
Benzo[b]fluoranthene	<0.035		0.035	0.0077	mg/Kg	✳	02/22/22 11:19	02/23/22 16:02	1
Benzo[k]fluoranthene	<0.035		0.035	0.011	mg/Kg	✳	02/22/22 11:19	02/23/22 16:02	1
Benzo[a]pyrene	<0.035		0.035	0.0069	mg/Kg	✳	02/22/22 11:19	02/23/22 16:02	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.0092	mg/Kg	✳	02/22/22 11:19	02/23/22 16:02	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0069	mg/Kg	✳	02/22/22 11:19	02/23/22 16:02	1
Benzo[g,h,i]perylene	<0.035	*	0.035	0.011	mg/Kg	✳	02/22/22 11:19	02/23/22 16:02	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	✳	02/22/22 11:19	02/23/22 16:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	99		31 - 166	02/22/22 11:19	02/23/22 16:02	1
Phenol-d5	95		30 - 153	02/22/22 11:19	02/23/22 16:02	1
Nitrobenzene-d5 (Surr)	73		37 - 147	02/22/22 11:19	02/23/22 16:02	1
2-Fluorobiphenyl (Surr)	74		43 - 145	02/22/22 11:19	02/23/22 16:02	1
2,4,6-Tribromophenol	71		31 - 143	02/22/22 11:19	02/23/22 16:02	1
Terphenyl-d14 (Surr)	114		42 - 157	02/22/22 11:19	02/23/22 16:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.31	J	1.1	0.22	mg/Kg	✳	02/24/22 10:16	02/24/22 22:22	1
Arsenic	8.9		0.55	0.19	mg/Kg	✳	02/24/22 10:16	02/24/22 22:22	1
Barium	39		0.55	0.063	mg/Kg	✳	02/24/22 10:16	02/25/22 17:52	1
Beryllium	0.43		0.22	0.052	mg/Kg	✳	02/24/22 10:16	02/25/22 17:52	1
Boron	8.4		2.8	0.26	mg/Kg	✳	02/24/22 10:16	02/24/22 22:22	1
Cadmium	<0.11		0.11	0.020	mg/Kg	✳	02/24/22 10:16	02/24/22 22:22	1
Calcium	77000		55	9.4	mg/Kg	✳	02/24/22 10:16	02/25/22 17:55	5
Chromium	13	B	0.55	0.27	mg/Kg	✳	02/24/22 10:16	02/24/22 22:22	1
Cobalt	9.5		0.28	0.073	mg/Kg	✳	02/24/22 10:16	02/24/22 22:22	1
Copper	20		0.55	0.16	mg/Kg	✳	02/24/22 10:16	02/24/22 22:22	1
Iron	22000	B	55	29	mg/Kg	✳	02/24/22 10:16	02/25/22 17:55	5
Lead	12		0.28	0.13	mg/Kg	✳	02/24/22 10:16	02/24/22 22:22	1
Magnesium	40000		28	14	mg/Kg	✳	02/24/22 10:16	02/25/22 17:55	5
Manganese	440		0.55	0.080	mg/Kg	✳	02/24/22 10:16	02/25/22 17:52	1
Nickel	25		0.55	0.16	mg/Kg	✳	02/24/22 10:16	02/24/22 22:22	1
Potassium	1800		28	9.8	mg/Kg	✳	02/24/22 10:16	02/25/22 17:52	1
Selenium	<0.55		0.55	0.33	mg/Kg	✳	02/24/22 10:16	02/24/22 22:22	1
Silver	0.19	J	0.28	0.072	mg/Kg	✳	02/24/22 10:16	02/24/22 22:22	1
Sodium	220	B	55	8.2	mg/Kg	✳	02/24/22 10:16	02/25/22 17:52	1
Thallium	0.53	J	0.55	0.28	mg/Kg	✳	02/24/22 10:16	02/24/22 22:22	1
Vanadium	15		0.28	0.065	mg/Kg	✳	02/24/22 10:16	02/24/22 22:22	1
Zinc	60		1.1	0.49	mg/Kg	✳	02/24/22 10:16	02/24/22 22:22	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.31	J	0.50	0.050	mg/L		02/23/22 09:06	02/23/22 18:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/22 09:06	02/23/22 18:29	1
Boron	0.065	J	0.50	0.050	mg/L		02/23/22 09:06	02/23/22 18:29	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B33 (4-8)

Lab Sample ID: 500-212294-7

Date Collected: 02/14/22 10:25

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/22 09:06	02/23/22 18:29	1
Chromium	0.086		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 18:29	1
Cobalt	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 18:29	1
Iron	0.43		0.40	0.20	mg/L		02/23/22 09:06	02/23/22 18:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/23/22 09:06	02/23/22 18:29	1
Manganese	1.7		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 18:29	1
Nickel	0.016	J	0.025	0.010	mg/L		02/23/22 09:06	02/23/22 18:29	1
Selenium	<0.050		0.050	0.020	mg/L		02/23/22 09:06	02/23/22 18:29	1
Silver	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 18:29	1
Zinc	<0.50		0.50	0.020	mg/L		02/23/22 09:06	02/23/22 18:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.84		0.025	0.010	mg/L		02/23/22 09:11	02/24/22 20:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/23/22 09:06	02/23/22 19:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/22 09:06	02/23/22 19:14	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/22/22 14:20	02/23/22 15:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.017	0.0055	mg/Kg	☆	02/22/22 13:40	02/23/22 11:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6		0.2	0.2	SU			02/17/22 17:58	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B31 (0-4)

Lab Sample ID: 500-212294-11

Date Collected: 02/14/22 10:55

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018	*1	0.018	0.0079	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
Carbon disulfide	<0.0045		0.0045	0.00095	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
1,2-Dichloropropene	<0.0018		0.0018	0.00047	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	✳	02/14/22 18:10	02/22/22 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		75 - 131	02/14/22 18:10	02/22/22 16:40	1
Dibromofluoromethane	117		75 - 126	02/14/22 18:10	02/22/22 16:40	1
1,2-Dichloroethane-d4 (Surr)	115		70 - 134	02/14/22 18:10	02/22/22 16:40	1
Toluene-d8 (Surr)	112		75 - 124	02/14/22 18:10	02/22/22 16:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	✳	02/22/22 11:19	02/23/22 17:37	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	✳	02/22/22 11:19	02/23/22 17:37	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	✳	02/22/22 11:19	02/23/22 17:37	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	✳	02/22/22 11:19	02/23/22 17:37	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B31 (0-4)

Lab Sample ID: 500-212294-11

Date Collected: 02/14/22 10:55

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
Isophorone	<0.20		0.20	0.045	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
Hexachlorocyclopentadiene	<0.81	*	0.81	0.23	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
2,4-Dinitrophenol	<0.81	*	0.81	0.71	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
Carbazole	<0.20		0.20	0.10	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	✱	02/22/22 11:19	02/23/22 17:37	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B31 (0-4)

Lab Sample ID: 500-212294-11

Date Collected: 02/14/22 10:55

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	✳	02/22/22 11:19	02/23/22 17:37	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	✳	02/22/22 11:19	02/23/22 17:37	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	✳	02/22/22 11:19	02/23/22 17:37	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	✳	02/22/22 11:19	02/23/22 17:37	1
Benzo[b]fluoranthene	<0.040	*3	0.040	0.0087	mg/Kg	✳	02/22/22 11:19	02/23/22 17:37	1
Benzo[k]fluoranthene	<0.040	*3	0.040	0.012	mg/Kg	✳	02/22/22 11:19	02/23/22 17:37	1
Benzo[a]pyrene	<0.040	*3	0.040	0.0078	mg/Kg	✳	02/22/22 11:19	02/23/22 17:37	1
Indeno[1,2,3-cd]pyrene	<0.040	*3	0.040	0.010	mg/Kg	✳	02/22/22 11:19	02/23/22 17:37	1
Dibenz(a,h)anthracene	<0.040	*3	0.040	0.0078	mg/Kg	✳	02/22/22 11:19	02/23/22 17:37	1
Benzo[g,h,i]perylene	<0.040	*- *3	0.040	0.013	mg/Kg	✳	02/22/22 11:19	02/23/22 17:37	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	✳	02/22/22 11:19	02/23/22 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	107		31 - 166	02/22/22 11:19	02/23/22 17:37	1
Phenol-d5	83		30 - 153	02/22/22 11:19	02/23/22 17:37	1
Nitrobenzene-d5 (Surr)	83		37 - 147	02/22/22 11:19	02/23/22 17:37	1
2-Fluorobiphenyl (Surr)	85		43 - 145	02/22/22 11:19	02/23/22 17:37	1
2,4,6-Tribromophenol	69		31 - 143	02/22/22 11:19	02/23/22 17:37	1
Terphenyl-d14 (Surr)	117		42 - 157	02/22/22 11:19	02/23/22 17:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.46	J	1.1	0.21	mg/Kg	✳	02/24/22 10:16	02/24/22 22:42	1
Arsenic	10		0.55	0.19	mg/Kg	✳	02/24/22 10:16	02/24/22 22:42	1
Barium	69		0.55	0.063	mg/Kg	✳	02/24/22 10:16	02/25/22 18:14	1
Beryllium	0.59		0.22	0.052	mg/Kg	✳	02/24/22 10:16	02/25/22 18:14	1
Boron	6.6		2.8	0.26	mg/Kg	✳	02/24/22 10:16	02/24/22 22:42	1
Cadmium	<0.11		0.11	0.020	mg/Kg	✳	02/24/22 10:16	02/24/22 22:42	1
Calcium	31000		11	1.9	mg/Kg	✳	02/24/22 10:16	02/25/22 18:14	1
Chromium	15	B	0.55	0.27	mg/Kg	✳	02/24/22 10:16	02/24/22 22:42	1
Cobalt	16		0.28	0.072	mg/Kg	✳	02/24/22 10:16	02/24/22 22:42	1
Copper	27		0.55	0.15	mg/Kg	✳	02/24/22 10:16	02/24/22 22:42	1
Iron	22000	B	11	5.7	mg/Kg	✳	02/24/22 10:16	02/25/22 18:14	1
Lead	19		0.28	0.13	mg/Kg	✳	02/24/22 10:16	02/24/22 22:42	1
Magnesium	18000		5.5	2.7	mg/Kg	✳	02/24/22 10:16	02/25/22 18:14	1
Manganese	520		0.55	0.080	mg/Kg	✳	02/24/22 10:16	02/25/22 18:14	1
Nickel	34		0.55	0.16	mg/Kg	✳	02/24/22 10:16	02/24/22 22:42	1
Potassium	1600		28	9.8	mg/Kg	✳	02/24/22 10:16	02/25/22 18:14	1
Selenium	<0.55		0.55	0.32	mg/Kg	✳	02/24/22 10:16	02/24/22 22:42	1
Silver	0.64		0.28	0.071	mg/Kg	✳	02/24/22 10:16	02/24/22 22:42	1
Sodium	1100	B	55	8.2	mg/Kg	✳	02/24/22 10:16	02/25/22 18:14	1
Thallium	0.50	J	0.55	0.28	mg/Kg	✳	02/24/22 10:16	02/24/22 22:42	1
Vanadium	24		0.28	0.065	mg/Kg	✳	02/24/22 10:16	02/24/22 22:42	1
Zinc	72		1.1	0.48	mg/Kg	✳	02/24/22 10:16	02/24/22 22:42	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.59		0.50	0.050	mg/L		02/23/22 09:06	02/23/22 18:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/22 09:06	02/23/22 18:42	1
Boron	0.067	J	0.50	0.050	mg/L		02/23/22 09:06	02/23/22 18:42	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B31 (0-4)

Lab Sample ID: 500-212294-11

Date Collected: 02/14/22 10:55

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/22 09:06	02/23/22 18:42	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 18:42	1
Cobalt	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 18:42	1
Iron	<0.40		0.40	0.20	mg/L		02/23/22 09:06	02/23/22 18:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/23/22 09:06	02/23/22 18:42	1
Manganese	0.78		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 18:42	1
Nickel	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 18:42	1
Selenium	<0.050		0.050	0.020	mg/L		02/23/22 09:06	02/23/22 18:42	1
Silver	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 18:42	1
Zinc	<0.50		0.50	0.020	mg/L		02/23/22 09:06	02/23/22 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.85		0.025	0.010	mg/L		02/23/22 09:11	02/24/22 20:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/23/22 09:06	02/23/22 19:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/22 09:06	02/23/22 19:26	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020		0.00020	0.00020	mg/L		02/22/22 14:20	02/23/22 15:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.019	0.0063	mg/Kg	☆	02/22/22 13:40	02/23/22 11:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9		0.2	0.2	SU			02/17/22 18:08	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B30 (0-4)

Lab Sample ID: 500-212294-12

Date Collected: 02/14/22 11:05

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018	*1	0.018	0.0076	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
Dibromochloromethane	<0.0018		0.0018	0.00057	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
1,1-Dichloroethene	<0.0018		0.0018	0.00060	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
1,2-Dichloropropene	<0.0018		0.0018	0.00045	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
Toluene	<0.0018		0.0018	0.00044	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00075	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
Trichloroethene	<0.0018		0.0018	0.00059	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	✳	02/14/22 18:10	02/22/22 17:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		75 - 131	02/14/22 18:10	02/22/22 17:06	1
Dibromofluoromethane	121		75 - 126	02/14/22 18:10	02/22/22 17:06	1
1,2-Dichloroethane-d4 (Surr)	119		70 - 134	02/14/22 18:10	02/22/22 17:06	1
Toluene-d8 (Surr)	113		75 - 124	02/14/22 18:10	02/22/22 17:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	✳	02/22/22 11:19	02/23/22 18:00	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	✳	02/22/22 11:19	02/23/22 18:00	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	✳	02/22/22 11:19	02/23/22 18:00	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	✳	02/22/22 11:19	02/23/22 18:00	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B30 (0-4)

Lab Sample ID: 500-212294-12

Date Collected: 02/14/22 11:05

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
Hexachlorocyclopentadiene	<0.80	*	0.80	0.23	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
2,4-Dinitrophenol	<0.80	*	0.80	0.70	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
Fluoranthene	<0.039		0.039	0.0074	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☆	02/22/22 11:19	02/23/22 18:00	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B30 (0-4)

Lab Sample ID: 500-212294-12

Date Collected: 02/14/22 11:05

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	✳	02/22/22 11:19	02/23/22 18:00	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	✳	02/22/22 11:19	02/23/22 18:00	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	✳	02/22/22 11:19	02/23/22 18:00	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	✳	02/22/22 11:19	02/23/22 18:00	1
Benzo[b]fluoranthene	<0.039	*3	0.039	0.0086	mg/Kg	✳	02/22/22 11:19	02/23/22 18:00	1
Benzo[k]fluoranthene	<0.039	*3	0.039	0.012	mg/Kg	✳	02/22/22 11:19	02/23/22 18:00	1
Benzo[a]pyrene	<0.039	*3	0.039	0.0077	mg/Kg	✳	02/22/22 11:19	02/23/22 18:00	1
Indeno[1,2,3-cd]pyrene	<0.039	*3	0.039	0.010	mg/Kg	✳	02/22/22 11:19	02/23/22 18:00	1
Dibenz(a,h)anthracene	<0.039	*3	0.039	0.0077	mg/Kg	✳	02/22/22 11:19	02/23/22 18:00	1
Benzo[g,h,i]perylene	<0.039	*- *3	0.039	0.013	mg/Kg	✳	02/22/22 11:19	02/23/22 18:00	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	✳	02/22/22 11:19	02/23/22 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	100		31 - 166	02/22/22 11:19	02/23/22 18:00	1
Phenol-d5	97		30 - 153	02/22/22 11:19	02/23/22 18:00	1
Nitrobenzene-d5 (Surr)	79		37 - 147	02/22/22 11:19	02/23/22 18:00	1
2-Fluorobiphenyl (Surr)	83		43 - 145	02/22/22 11:19	02/23/22 18:00	1
2,4,6-Tribromophenol	75		31 - 143	02/22/22 11:19	02/23/22 18:00	1
Terphenyl-d14 (Surr)	121		42 - 157	02/22/22 11:19	02/23/22 18:00	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J	1.1	0.22	mg/Kg	✳	02/24/22 10:16	02/24/22 22:45	1
Arsenic	11		0.57	0.20	mg/Kg	✳	02/24/22 10:16	02/24/22 22:45	1
Barium	74		0.57	0.066	mg/Kg	✳	02/24/22 10:16	02/25/22 18:17	1
Beryllium	0.59		0.23	0.054	mg/Kg	✳	02/24/22 10:16	02/25/22 18:17	1
Boron	8.4		2.9	0.27	mg/Kg	✳	02/24/22 10:16	02/24/22 22:45	1
Cadmium	<0.11		0.11	0.021	mg/Kg	✳	02/24/22 10:16	02/24/22 22:45	1
Calcium	53000		57	9.7	mg/Kg	✳	02/24/22 10:16	02/25/22 18:30	5
Chromium	16	B	0.57	0.28	mg/Kg	✳	02/24/22 10:16	02/24/22 22:45	1
Cobalt	14		0.29	0.075	mg/Kg	✳	02/24/22 10:16	02/24/22 22:45	1
Copper	27		0.57	0.16	mg/Kg	✳	02/24/22 10:16	02/24/22 22:45	1
Iron	23000	B	11	6.0	mg/Kg	✳	02/24/22 10:16	02/25/22 18:17	1
Lead	16		0.29	0.13	mg/Kg	✳	02/24/22 10:16	02/24/22 22:45	1
Magnesium	24000		5.7	2.9	mg/Kg	✳	02/24/22 10:16	02/25/22 18:17	1
Manganese	560		0.57	0.083	mg/Kg	✳	02/24/22 10:16	02/25/22 18:17	1
Nickel	32		0.57	0.17	mg/Kg	✳	02/24/22 10:16	02/24/22 22:45	1
Potassium	1900		29	10	mg/Kg	✳	02/24/22 10:16	02/25/22 18:17	1
Selenium	<0.57		0.57	0.34	mg/Kg	✳	02/24/22 10:16	02/24/22 22:45	1
Silver	0.25	J	0.29	0.074	mg/Kg	✳	02/24/22 10:16	02/24/22 22:45	1
Sodium	1600	B	57	8.5	mg/Kg	✳	02/24/22 10:16	02/25/22 18:17	1
Thallium	0.65		0.57	0.29	mg/Kg	✳	02/24/22 10:16	02/24/22 22:45	1
Vanadium	19		0.29	0.068	mg/Kg	✳	02/24/22 10:16	02/24/22 22:45	1
Zinc	69		1.1	0.50	mg/Kg	✳	02/24/22 10:16	02/24/22 22:45	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.52		0.50	0.050	mg/L		02/23/22 09:06	02/23/22 18:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/22 09:06	02/23/22 18:56	1
Boron	0.074	J	0.50	0.050	mg/L		02/23/22 09:06	02/23/22 18:56	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B30 (0-4)

Lab Sample ID: 500-212294-12

Date Collected: 02/14/22 11:05

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/22 09:06	02/23/22 18:56	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 18:56	1
Cobalt	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 18:56	1
Iron	<0.40		0.40	0.20	mg/L		02/23/22 09:06	02/23/22 18:56	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/23/22 09:06	02/23/22 18:56	1
Manganese	1.5		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 18:56	1
Nickel	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 18:56	1
Selenium	<0.050		0.050	0.020	mg/L		02/23/22 09:06	02/23/22 18:56	1
Silver	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 18:56	1
Zinc	0.046	J	0.50	0.020	mg/L		02/23/22 09:06	02/23/22 18:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.6		0.025	0.010	mg/L		02/23/22 09:11	02/24/22 21:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/23/22 09:06	02/23/22 19:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/22 09:06	02/23/22 19:28	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/22/22 14:20	02/23/22 15:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045		0.019	0.0062	mg/Kg	☆	02/22/22 13:40	02/23/22 11:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.5		0.2	0.2	SU			02/17/22 18:10	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B29 (0-4)

Lab Sample ID: 500-212294-13

Date Collected: 02/14/22 11:20

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.019	J*1	0.023	0.0098	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
Benzene	<0.0023		0.0023	0.00057	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
Bromodichloromethane	<0.0023		0.0023	0.00046	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
Bromoform	<0.0023		0.0023	0.00066	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
Bromomethane	<0.0056		0.0056	0.0021	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
2-Butanone (MEK)	<0.0056		0.0056	0.0025	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
Carbon disulfide	<0.0056		0.0056	0.0012	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
Carbon tetrachloride	<0.0023		0.0023	0.00065	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
Chlorobenzene	<0.0023		0.0023	0.00083	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
Chloroethane	<0.0056		0.0056	0.0017	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
Chloroform	<0.0023		0.0023	0.00078	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
Chloromethane	<0.0056		0.0056	0.0023	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
cis-1,2-Dichloroethene	<0.0023		0.0023	0.00063	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
cis-1,3-Dichloropropene	<0.0023		0.0023	0.00068	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
Dibromochloromethane	<0.0023		0.0023	0.00074	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
1,1-Dichloroethane	<0.0023		0.0023	0.00077	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
1,2-Dichloroethane	<0.0056		0.0056	0.0018	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
1,1-Dichloroethene	<0.0023		0.0023	0.00077	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
1,2-Dichloropropene	<0.0023		0.0023	0.00058	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
1,3-Dichloropropene, Total	<0.0023		0.0023	0.00079	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
Ethylbenzene	<0.0023		0.0023	0.0011	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
2-Hexanone	<0.0056		0.0056	0.0018	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
Methylene Chloride	<0.0056		0.0056	0.0022	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
4-Methyl-2-pentanone (MIBK)	<0.0056		0.0056	0.0017	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
Methyl tert-butyl ether	<0.0023		0.0023	0.00066	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
Styrene	<0.0023		0.0023	0.00068	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
1,1,2,2-Tetrachloroethane	<0.0023		0.0023	0.00072	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
Tetrachloroethene	<0.0023		0.0023	0.00077	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
Toluene	<0.0023		0.0023	0.00057	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
trans-1,2-Dichloroethene	<0.0023		0.0023	0.0010	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
trans-1,3-Dichloropropene	<0.0023		0.0023	0.00079	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
1,1,1-Trichloroethane	<0.0023		0.0023	0.00076	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
1,1,2-Trichloroethane	<0.0023		0.0023	0.00097	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
Trichloroethene	<0.0023		0.0023	0.00076	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
Vinyl acetate	<0.0056		0.0056	0.0020	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
Vinyl chloride	<0.0023		0.0023	0.0010	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1
Xylenes, Total	<0.0045		0.0045	0.00072	mg/Kg	☼	02/14/22 18:10	02/22/22 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		75 - 131	02/14/22 18:10	02/22/22 17:33	1
Dibromofluoromethane	116		75 - 126	02/14/22 18:10	02/22/22 17:33	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134	02/14/22 18:10	02/22/22 17:33	1
Toluene-d8 (Surr)	112		75 - 124	02/14/22 18:10	02/22/22 17:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	02/22/22 11:19	02/23/22 18:24	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/22/22 11:19	02/23/22 18:24	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/22/22 11:19	02/23/22 18:24	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/22/22 11:19	02/23/22 18:24	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B29 (0-4)

Lab Sample ID: 500-212294-13

Date Collected: 02/14/22 11:20

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
Isophorone	<0.19		0.19	0.042	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
2,4-Dichlorophenol	<0.37		0.37	0.090	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
Hexachlorocyclopentadiene	<0.76	*	0.76	0.22	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
2,4-Dinitrophenol	<0.76	*	0.76	0.66	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
Phenanthrene	0.0091	J	0.037	0.0053	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
Carbazole	<0.19		0.19	0.094	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
Fluoranthene	0.0095	J	0.037	0.0070	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
Pyrene	0.022	J	0.037	0.0075	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B29 (0-4)

Lab Sample ID: 500-212294-13

Date Collected: 02/14/22 11:20

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
Benzo[b]fluoranthene	<0.037	*3	0.037	0.0081	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
Benzo[k]fluoranthene	<0.037	*3	0.037	0.011	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
Benzo[a]pyrene	<0.037	*3	0.037	0.0073	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
Indeno[1,2,3-cd]pyrene	<0.037	*3	0.037	0.0098	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
Dibenz(a,h)anthracene	<0.037	*3	0.037	0.0073	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
Benzo[g,h,i]perylene	<0.037	*- *3	0.037	0.012	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	✳	02/22/22 11:19	02/23/22 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	91		31 - 166	02/22/22 11:19	02/23/22 18:24	1
Phenol-d5	94		30 - 153	02/22/22 11:19	02/23/22 18:24	1
Nitrobenzene-d5 (Surr)	73		37 - 147	02/22/22 11:19	02/23/22 18:24	1
2-Fluorobiphenyl (Surr)	75		43 - 145	02/22/22 11:19	02/23/22 18:24	1
2,4,6-Tribromophenol	60		31 - 143	02/22/22 11:19	02/23/22 18:24	1
Terphenyl-d14 (Surr)	120		42 - 157	02/22/22 11:19	02/23/22 18:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J	1.2	0.23	mg/Kg	✳	02/24/22 10:16	02/24/22 22:48	1
Arsenic	8.3		0.59	0.20	mg/Kg	✳	02/24/22 10:16	02/24/22 22:48	1
Barium	66		0.59	0.067	mg/Kg	✳	02/24/22 10:16	02/25/22 18:34	1
Beryllium	0.58		0.23	0.055	mg/Kg	✳	02/24/22 10:16	02/25/22 18:34	1
Boron	7.5		2.9	0.27	mg/Kg	✳	02/24/22 10:16	02/24/22 22:48	1
Cadmium	0.043	J B	0.12	0.021	mg/Kg	✳	02/24/22 10:16	02/24/22 22:48	1
Calcium	32000		12	2.0	mg/Kg	✳	02/24/22 10:16	02/25/22 18:34	1
Chromium	15	B	0.59	0.29	mg/Kg	✳	02/24/22 10:16	02/24/22 22:48	1
Cobalt	11		0.29	0.077	mg/Kg	✳	02/24/22 10:16	02/24/22 22:48	1
Copper	25		0.59	0.16	mg/Kg	✳	02/24/22 10:16	02/24/22 22:48	1
Iron	20000	B	12	6.1	mg/Kg	✳	02/24/22 10:16	02/25/22 18:34	1
Lead	21		0.29	0.14	mg/Kg	✳	02/24/22 10:16	02/24/22 22:48	1
Magnesium	18000		5.9	2.9	mg/Kg	✳	02/24/22 10:16	02/25/22 18:34	1
Manganese	450		0.59	0.085	mg/Kg	✳	02/24/22 10:16	02/25/22 18:34	1
Nickel	28		0.59	0.17	mg/Kg	✳	02/24/22 10:16	02/24/22 22:48	1
Potassium	1600		29	10	mg/Kg	✳	02/24/22 10:16	02/25/22 18:34	1
Selenium	<0.59		0.59	0.34	mg/Kg	✳	02/24/22 10:16	02/24/22 22:48	1
Silver	0.22	J	0.29	0.076	mg/Kg	✳	02/24/22 10:16	02/24/22 22:48	1
Sodium	1000	B	59	8.7	mg/Kg	✳	02/24/22 10:16	02/25/22 18:34	1
Thallium	0.30	J	0.59	0.29	mg/Kg	✳	02/24/22 10:16	02/24/22 22:48	1
Vanadium	20		0.29	0.069	mg/Kg	✳	02/24/22 10:16	02/24/22 22:48	1
Zinc	74		1.2	0.51	mg/Kg	✳	02/24/22 10:16	02/24/22 22:48	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.70		0.50	0.050	mg/L		02/23/22 09:06	02/23/22 18:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/22 09:06	02/23/22 18:59	1
Boron	0.079	J	0.50	0.050	mg/L		02/23/22 09:06	02/23/22 18:59	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B29 (0-4)

Lab Sample ID: 500-212294-13

Date Collected: 02/14/22 11:20

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0020	J	0.0050	0.0020	mg/L	-	02/23/22 09:06	02/23/22 18:59	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/23/22 09:06	02/23/22 18:59	1
Cobalt	0.019	J	0.025	0.010	mg/L	-	02/23/22 09:06	02/23/22 18:59	1
Iron	<0.40		0.40	0.20	mg/L	-	02/23/22 09:06	02/23/22 18:59	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/23/22 09:06	02/23/22 18:59	1
Manganese	12		0.025	0.010	mg/L	-	02/23/22 09:06	02/23/22 18:59	1
Nickel	<0.025		0.025	0.010	mg/L	-	02/23/22 09:06	02/23/22 18:59	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/23/22 09:06	02/23/22 18:59	1
Silver	<0.025		0.025	0.010	mg/L	-	02/23/22 09:06	02/23/22 18:59	1
Zinc	0.044	J	0.50	0.020	mg/L	-	02/23/22 09:06	02/23/22 18:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	3.1		0.025	0.010	mg/L	-	02/23/22 09:11	02/24/22 21:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/23/22 09:06	02/23/22 19:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/23/22 09:06	02/23/22 19:30	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/22/22 14:20	02/23/22 15:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.017	0.0057	mg/Kg	☆	02/22/22 13:40	02/23/22 11:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.2	0.2	SU	-		02/17/22 18:13	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B28 (0-5)

Lab Sample ID: 500-212294-14

Date Collected: 02/14/22 11:45

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.016	J*1	0.017	0.0072	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
Benzene	<0.0017		0.0017	0.00042	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
Bromoform	<0.0017		0.0017	0.00048	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
Bromomethane	<0.0041		0.0041	0.0016	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
2-Butanone (MEK)	0.0024	J	0.0041	0.0018	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
Carbon disulfide	<0.0041		0.0041	0.00086	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
Chlorobenzene	<0.0017		0.0017	0.00061	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
Chloroform	<0.0017		0.0017	0.00057	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
Chloromethane	<0.0041		0.0041	0.0017	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00046	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
1,2-Dichloropropene	<0.0017		0.0017	0.00043	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00058	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
Ethylbenzene	<0.0017		0.0017	0.00079	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
Tetrachloroethene	<0.0017		0.0017	0.00056	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00073	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00058	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00071	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
Vinyl acetate	<0.0041		0.0041	0.0014	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
Vinyl chloride	<0.0017		0.0017	0.00073	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	✳	02/14/22 18:10	02/22/22 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		75 - 131	02/14/22 18:10	02/22/22 18:00	1
Dibromofluoromethane	118		75 - 126	02/14/22 18:10	02/22/22 18:00	1
1,2-Dichloroethane-d4 (Surr)	115		70 - 134	02/14/22 18:10	02/22/22 18:00	1
Toluene-d8 (Surr)	116		75 - 124	02/14/22 18:10	02/22/22 18:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	✳	02/22/22 11:19	02/24/22 18:52	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	✳	02/22/22 11:19	02/24/22 18:52	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	✳	02/22/22 11:19	02/24/22 18:52	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	✳	02/22/22 11:19	02/24/22 18:52	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B28 (0-5)

Lab Sample ID: 500-212294-14

Date Collected: 02/14/22 11:45

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
Isophorone	<0.19		0.19	0.043	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
Hexachlorocyclopentadiene	<0.77	*	0.77	0.22	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
2,4-Dinitrophenol	<0.77	*	0.77	0.67	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
Acenaphthene	0.0078	J	0.038	0.0069	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
Fluorene	0.0090	J	0.038	0.0054	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
Phenanthrene	0.017	J	0.038	0.0053	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
Carbazole	<0.19		0.19	0.095	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
Fluoranthene	0.0097	J	0.038	0.0071	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
Pyrene	0.015	J	0.038	0.0076	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	✱	02/22/22 11:19	02/24/22 18:52	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B28 (0-5)

Lab Sample ID: 500-212294-14

Date Collected: 02/14/22 11:45

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	✳	02/22/22 11:19	02/24/22 18:52	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	✳	02/22/22 11:19	02/24/22 18:52	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	✳	02/22/22 11:19	02/24/22 18:52	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	✳	02/22/22 11:19	02/24/22 18:52	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	✳	02/22/22 11:19	02/24/22 18:52	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	✳	02/22/22 11:19	02/24/22 18:52	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	✳	02/22/22 11:19	02/24/22 18:52	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	✳	02/22/22 11:19	02/24/22 18:52	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	✳	02/22/22 11:19	02/24/22 18:52	1
Benzo[g,h,i]perylene	<0.038	*	0.038	0.012	mg/Kg	✳	02/22/22 11:19	02/24/22 18:52	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	✳	02/22/22 11:19	02/24/22 18:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	93		31 - 166	02/22/22 11:19	02/24/22 18:52	1
Phenol-d5	91		30 - 153	02/22/22 11:19	02/24/22 18:52	1
Nitrobenzene-d5 (Surr)	67		37 - 147	02/22/22 11:19	02/24/22 18:52	1
2-Fluorobiphenyl (Surr)	81		43 - 145	02/22/22 11:19	02/24/22 18:52	1
2,4,6-Tribromophenol	71		31 - 143	02/22/22 11:19	02/24/22 18:52	1
Terphenyl-d14 (Surr)	101		42 - 157	02/22/22 11:19	02/24/22 18:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	J	1.1	0.22	mg/Kg	✳	02/24/22 10:16	02/24/22 22:52	1
Arsenic	9.1		0.57	0.19	mg/Kg	✳	02/24/22 10:16	02/24/22 22:52	1
Barium	63		0.57	0.065	mg/Kg	✳	02/24/22 10:16	02/25/22 18:37	1
Beryllium	0.54		0.23	0.053	mg/Kg	✳	02/24/22 10:16	02/25/22 18:37	1
Boron	4.8		2.8	0.27	mg/Kg	✳	02/24/22 10:16	02/24/22 22:52	1
Cadmium	<0.11		0.11	0.020	mg/Kg	✳	02/24/22 10:16	02/24/22 22:52	1
Calcium	17000		11	1.9	mg/Kg	✳	02/24/22 10:16	02/25/22 18:37	1
Chromium	15	B	0.57	0.28	mg/Kg	✳	02/24/22 10:16	02/24/22 22:52	1
Cobalt	14		0.28	0.075	mg/Kg	✳	02/24/22 10:16	02/24/22 22:52	1
Copper	29		0.57	0.16	mg/Kg	✳	02/24/22 10:16	02/24/22 22:52	1
Iron	20000	B	11	5.9	mg/Kg	✳	02/24/22 10:16	02/25/22 18:37	1
Lead	19		0.28	0.13	mg/Kg	✳	02/24/22 10:16	02/24/22 22:52	1
Magnesium	11000		5.7	2.8	mg/Kg	✳	02/24/22 10:16	02/25/22 18:37	1
Manganese	320		0.57	0.082	mg/Kg	✳	02/24/22 10:16	02/25/22 18:37	1
Nickel	32		0.57	0.17	mg/Kg	✳	02/24/22 10:16	02/24/22 22:52	1
Potassium	1200		28	10	mg/Kg	✳	02/24/22 10:16	02/25/22 18:37	1
Selenium	<0.57		0.57	0.33	mg/Kg	✳	02/24/22 10:16	02/24/22 22:52	1
Silver	0.23	J	0.28	0.073	mg/Kg	✳	02/24/22 10:16	02/24/22 22:52	1
Sodium	1100	B	57	8.4	mg/Kg	✳	02/24/22 10:16	02/25/22 18:37	1
Thallium	0.72		0.57	0.28	mg/Kg	✳	02/24/22 10:16	02/24/22 22:52	1
Vanadium	19		0.28	0.067	mg/Kg	✳	02/24/22 10:16	02/24/22 22:52	1
Zinc	73		1.1	0.50	mg/Kg	✳	02/24/22 10:16	02/24/22 22:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.79		0.50	0.050	mg/L		02/23/22 09:06	02/23/22 19:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/22 09:06	02/23/22 19:02	1
Boron	0.097	J	0.50	0.050	mg/L		02/23/22 09:06	02/23/22 19:02	1

Eurofins Chicago

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B28 (0-5)

Lab Sample ID: 500-212294-14

Date Collected: 02/14/22 11:45

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0027	J	0.0050	0.0020	mg/L	-	02/23/22 09:06	02/23/22 19:02	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/23/22 09:06	02/23/22 19:02	1
Cobalt	0.029		0.025	0.010	mg/L	-	02/23/22 09:06	02/23/22 19:02	1
Iron	0.36	J	0.40	0.20	mg/L	-	02/23/22 09:06	02/23/22 19:02	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/23/22 09:06	02/23/22 19:02	1
Manganese	11		0.025	0.010	mg/L	-	02/23/22 09:06	02/23/22 19:02	1
Nickel	0.022	J	0.025	0.010	mg/L	-	02/23/22 09:06	02/23/22 19:02	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/23/22 09:06	02/23/22 19:02	1
Silver	<0.025		0.025	0.010	mg/L	-	02/23/22 09:06	02/23/22 19:02	1
Zinc	0.070	J	0.50	0.020	mg/L	-	02/23/22 09:06	02/23/22 19:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.8		0.025	0.010	mg/L	-	02/23/22 09:11	02/24/22 21:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/23/22 09:06	02/23/22 19:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/23/22 09:06	02/23/22 19:32	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/22/22 14:20	02/23/22 15:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.019	0.0063	mg/Kg	☆	02/22/22 13:40	02/23/22 11:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6		0.2	0.2	SU	-		02/17/22 18:15	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B28 (5-10)

Lab Sample ID: 500-212294-15

Date Collected: 02/14/22 11:50

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.044	*1	0.019	0.0083	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
2-Butanone (MEK)	0.010		0.0048	0.0021	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
Carbon disulfide	<0.0048		0.0048	0.00099	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
1,2-Dichloropropene	<0.0019		0.0019	0.00049	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
Vinyl acetate	<0.0048		0.0048	0.0017	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	02/14/22 18:10	02/22/22 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		75 - 131	02/14/22 18:10	02/22/22 18:27	1
Dibromofluoromethane	119		75 - 126	02/14/22 18:10	02/22/22 18:27	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 134	02/14/22 18:10	02/22/22 18:27	1
Toluene-d8 (Surr)	113		75 - 124	02/14/22 18:10	02/22/22 18:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/22/22 11:19	02/23/22 13:12	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/22/22 11:19	02/23/22 13:12	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/22/22 11:19	02/23/22 13:12	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/22/22 11:19	02/23/22 13:12	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B28 (5-10)

Lab Sample ID: 500-212294-15

Date Collected: 02/14/22 11:50

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
Isophorone	<0.20		0.20	0.044	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
Naphthalene	0.011	J	0.039	0.0060	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
Hexachlorocyclopentadiene	<0.79	*	0.79	0.23	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
2,4-Dinitrophenol	<0.79	*	0.79	0.69	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
Phenanthrene	0.025	J	0.039	0.0055	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
Carbazole	<0.20		0.20	0.098	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
Fluoranthene	0.033	J	0.039	0.0073	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
Pyrene	0.024	J	0.039	0.0078	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1
Benzo[a]anthracene	0.013	J	0.039	0.0053	mg/Kg	✱	02/22/22 11:19	02/23/22 13:12	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B28 (5-10)

Lab Sample ID: 500-212294-15

Date Collected: 02/14/22 11:50

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.026	J	0.039	0.011	mg/Kg	✳	02/22/22 11:19	02/23/22 13:12	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	✳	02/22/22 11:19	02/23/22 13:12	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	✳	02/22/22 11:19	02/23/22 13:12	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	✳	02/22/22 11:19	02/23/22 13:12	1
Benzo[b]fluoranthene	0.028	J	0.039	0.0085	mg/Kg	✳	02/22/22 11:19	02/23/22 13:12	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	✳	02/22/22 11:19	02/23/22 13:12	1
Benzo[a]pyrene	0.014	J	0.039	0.0076	mg/Kg	✳	02/22/22 11:19	02/23/22 13:12	1
Indeno[1,2,3-cd]pyrene	0.011	J	0.039	0.010	mg/Kg	✳	02/22/22 11:19	02/23/22 13:12	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	✳	02/22/22 11:19	02/23/22 13:12	1
Benzo[g,h,i]perylene	<0.039	*	0.039	0.013	mg/Kg	✳	02/22/22 11:19	02/23/22 13:12	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	✳	02/22/22 11:19	02/23/22 13:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	77		31 - 166				02/22/22 11:19	02/23/22 13:12	1
Phenol-d5	69		30 - 153				02/22/22 11:19	02/23/22 13:12	1
Nitrobenzene-d5 (Surr)	78		37 - 147				02/22/22 11:19	02/23/22 13:12	1
2-Fluorobiphenyl (Surr)	91		43 - 145				02/22/22 11:19	02/23/22 13:12	1
2,4,6-Tribromophenol	102		31 - 143				02/22/22 11:19	02/23/22 13:12	1
Terphenyl-d14 (Surr)	82		42 - 157				02/22/22 11:19	02/23/22 13:12	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.32	J	1.1	0.22	mg/Kg	✳	02/24/22 10:16	02/24/22 22:55	1
Arsenic	7.2		0.57	0.19	mg/Kg	✳	02/24/22 10:16	02/24/22 22:55	1
Barium	76		0.57	0.065	mg/Kg	✳	02/24/22 10:16	02/25/22 18:40	1
Beryllium	0.49		0.23	0.053	mg/Kg	✳	02/24/22 10:16	02/25/22 18:40	1
Boron	4.9		2.8	0.26	mg/Kg	✳	02/24/22 10:16	02/24/22 22:55	1
Cadmium	0.23	B	0.11	0.020	mg/Kg	✳	02/24/22 10:16	02/24/22 22:55	1
Calcium	8100		11	1.9	mg/Kg	✳	02/24/22 10:16	02/25/22 18:40	1
Chromium	12	B	0.57	0.28	mg/Kg	✳	02/24/22 10:16	02/24/22 22:55	1
Cobalt	10		0.28	0.074	mg/Kg	✳	02/24/22 10:16	02/24/22 22:55	1
Copper	17		0.57	0.16	mg/Kg	✳	02/24/22 10:16	02/24/22 22:55	1
Iron	14000	B	11	5.9	mg/Kg	✳	02/24/22 10:16	02/25/22 18:40	1
Lead	27		0.28	0.13	mg/Kg	✳	02/24/22 10:16	02/24/22 22:55	1
Magnesium	5400		5.7	2.8	mg/Kg	✳	02/24/22 10:16	02/25/22 18:40	1
Manganese	400		0.57	0.082	mg/Kg	✳	02/24/22 10:16	02/25/22 18:40	1
Nickel	18		0.57	0.17	mg/Kg	✳	02/24/22 10:16	02/24/22 22:55	1
Potassium	1100		28	10	mg/Kg	✳	02/24/22 10:16	02/25/22 18:40	1
Selenium	0.34	J	0.57	0.33	mg/Kg	✳	02/24/22 10:16	02/24/22 22:55	1
Silver	0.16	J	0.28	0.073	mg/Kg	✳	02/24/22 10:16	02/24/22 22:55	1
Sodium	150	B	57	8.4	mg/Kg	✳	02/24/22 10:16	02/25/22 18:40	1
Thallium	0.66		0.57	0.28	mg/Kg	✳	02/24/22 10:16	02/24/22 22:55	1
Vanadium	17		0.28	0.067	mg/Kg	✳	02/24/22 10:16	02/24/22 22:55	1
Zinc	75		1.1	0.50	mg/Kg	✳	02/24/22 10:16	02/24/22 22:55	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.75		0.50	0.050	mg/L		02/23/22 09:06	02/23/22 19:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/22 09:06	02/23/22 19:06	1
Boron	0.43	J	0.50	0.050	mg/L		02/23/22 09:06	02/23/22 19:06	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B28 (5-10)

Lab Sample ID: 500-212294-15

Date Collected: 02/14/22 11:50

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0042	J	0.0050	0.0020	mg/L		02/23/22 09:06	02/23/22 19:06	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 19:06	1
Cobalt	0.080		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 19:06	1
Iron	1.5		0.40	0.20	mg/L		02/23/22 09:06	02/23/22 19:06	1
Lead	0.015		0.0075	0.0075	mg/L		02/23/22 09:06	02/23/22 19:06	1
Manganese	12		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 19:06	1
Nickel	0.051		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 19:06	1
Selenium	<0.050		0.050	0.020	mg/L		02/23/22 09:06	02/23/22 19:06	1
Silver	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 19:06	1
Zinc	0.39	J	0.50	0.020	mg/L		02/23/22 09:06	02/23/22 19:06	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.059		0.0075	0.0075	mg/L		02/23/22 09:11	02/24/22 21:11	1
Manganese	0.68		0.025	0.010	mg/L		02/23/22 09:11	02/24/22 21:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/23/22 09:06	02/23/22 19:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/22 09:06	02/23/22 19:34	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/22/22 14:20	02/23/22 15:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.020	0.0068	mg/Kg	☼	02/22/22 13:40	02/23/22 11:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.9		0.2	0.2	SU			02/17/22 18:18	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B28 (10-15)

Lab Sample ID: 500-212294-16

Date Collected: 02/14/22 11:55

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.021	*1	0.019	0.0082	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
2-Butanone (MEK)	0.0024	J	0.0047	0.0021	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
Carbon disulfide	<0.0047		0.0047	0.00097	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
1,2-Dichloropropene	<0.0019		0.0019	0.00048	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
Methylene Chloride	<0.0047		0.0047	0.0018	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
Vinyl acetate	<0.0047		0.0047	0.0016	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1
Xylenes, Total	<0.0037		0.0037	0.00060	mg/Kg	☼	02/14/22 18:10	02/22/22 18:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		75 - 131	02/14/22 18:10	02/22/22 18:53	1
Dibromofluoromethane	119		75 - 126	02/14/22 18:10	02/22/22 18:53	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134	02/14/22 18:10	02/22/22 18:53	1
Toluene-d8 (Surr)	113		75 - 124	02/14/22 18:10	02/22/22 18:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	02/22/22 11:19	02/23/22 13:33	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	02/22/22 11:19	02/23/22 13:33	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/22/22 11:19	02/23/22 13:33	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	02/22/22 11:19	02/23/22 13:33	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B28 (10-15)

Lab Sample ID: 500-212294-16

Date Collected: 02/14/22 11:55

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
Isophorone	<0.20		0.20	0.045	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
Hexachlorocyclopentadiene	<0.81	*	0.81	0.23	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
2,4-Dinitrophenol	<0.81	*	0.81	0.71	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
Hexachlorobenzene	<0.081		0.081	0.0094	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
Carbazole	<0.20		0.20	0.10	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	✱	02/22/22 11:19	02/23/22 13:33	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B28 (10-15)

Lab Sample ID: 500-212294-16

Date Collected: 02/14/22 11:55

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	✳	02/22/22 11:19	02/23/22 13:33	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	✳	02/22/22 11:19	02/23/22 13:33	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	✳	02/22/22 11:19	02/23/22 13:33	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	✳	02/22/22 11:19	02/23/22 13:33	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	✳	02/22/22 11:19	02/23/22 13:33	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	✳	02/22/22 11:19	02/23/22 13:33	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	✳	02/22/22 11:19	02/23/22 13:33	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	✳	02/22/22 11:19	02/23/22 13:33	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	✳	02/22/22 11:19	02/23/22 13:33	1
Benzo[g,h,i]perylene	<0.040	*	0.040	0.013	mg/Kg	✳	02/22/22 11:19	02/23/22 13:33	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	✳	02/22/22 11:19	02/23/22 13:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	80		31 - 166	02/22/22 11:19	02/23/22 13:33	1
Phenol-d5	69		30 - 153	02/22/22 11:19	02/23/22 13:33	1
Nitrobenzene-d5 (Surr)	78		37 - 147	02/22/22 11:19	02/23/22 13:33	1
2-Fluorobiphenyl (Surr)	83		43 - 145	02/22/22 11:19	02/23/22 13:33	1
2,4,6-Tribromophenol	105		31 - 143	02/22/22 11:19	02/23/22 13:33	1
Terphenyl-d14 (Surr)	88		42 - 157	02/22/22 11:19	02/23/22 13:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.54	J	1.2	0.23	mg/Kg	✳	02/24/22 10:16	02/24/22 22:58	1
Arsenic	10		0.58	0.20	mg/Kg	✳	02/24/22 10:16	02/24/22 22:58	1
Barium	66		0.58	0.066	mg/Kg	✳	02/24/22 10:16	02/25/22 18:43	1
Beryllium	0.65		0.23	0.054	mg/Kg	✳	02/24/22 10:16	02/25/22 18:43	1
Boron	6.2		2.9	0.27	mg/Kg	✳	02/24/22 10:16	02/24/22 22:58	1
Cadmium	<0.12		0.12	0.021	mg/Kg	✳	02/24/22 10:16	02/24/22 22:58	1
Calcium	1900		12	2.0	mg/Kg	✳	02/24/22 10:16	02/25/22 18:43	1
Chromium	18	B	0.58	0.29	mg/Kg	✳	02/24/22 10:16	02/24/22 22:58	1
Cobalt	15		0.29	0.076	mg/Kg	✳	02/24/22 10:16	02/24/22 22:58	1
Copper	34		0.58	0.16	mg/Kg	✳	02/24/22 10:16	02/24/22 22:58	1
Iron	26000	B	12	6.0	mg/Kg	✳	02/24/22 10:16	02/25/22 18:43	1
Lead	20		0.29	0.13	mg/Kg	✳	02/24/22 10:16	02/24/22 22:58	1
Magnesium	4400		5.8	2.9	mg/Kg	✳	02/24/22 10:16	02/25/22 18:43	1
Manganese	260		0.58	0.084	mg/Kg	✳	02/24/22 10:16	02/25/22 18:43	1
Nickel	44		0.58	0.17	mg/Kg	✳	02/24/22 10:16	02/24/22 22:58	1
Potassium	1800		29	10	mg/Kg	✳	02/24/22 10:16	02/25/22 18:43	1
Selenium	<0.58		0.58	0.34	mg/Kg	✳	02/24/22 10:16	02/24/22 22:58	1
Silver	0.28	J	0.29	0.075	mg/Kg	✳	02/24/22 10:16	02/24/22 22:58	1
Sodium	290	B	58	8.6	mg/Kg	✳	02/24/22 10:16	02/25/22 18:43	1
Thallium	1.2		0.58	0.29	mg/Kg	✳	02/24/22 10:16	02/24/22 22:58	1
Vanadium	19		0.29	0.069	mg/Kg	✳	02/24/22 10:16	02/24/22 22:58	1
Zinc	110		1.2	0.51	mg/Kg	✳	02/24/22 10:16	02/24/22 22:58	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.38	J	0.50	0.050	mg/L		02/23/22 09:06	02/23/22 19:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/22 09:06	02/23/22 19:09	1
Boron	0.074	J	0.50	0.050	mg/L		02/23/22 09:06	02/23/22 19:09	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B28 (10-15)

Lab Sample ID: 500-212294-16

Date Collected: 02/14/22 11:55

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0029	J	0.0050	0.0020	mg/L	-	02/23/22 09:06	02/23/22 19:09	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/23/22 09:06	02/23/22 19:09	1
Cobalt	0.015	J	0.025	0.010	mg/L	-	02/23/22 09:06	02/23/22 19:09	1
Iron	0.95		0.40	0.20	mg/L	-	02/23/22 09:06	02/23/22 19:09	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/23/22 09:06	02/23/22 19:09	1
Manganese	5.0		0.025	0.010	mg/L	-	02/23/22 09:06	02/23/22 19:09	1
Nickel	0.024	J	0.025	0.010	mg/L	-	02/23/22 09:06	02/23/22 19:09	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/23/22 09:06	02/23/22 19:09	1
Silver	<0.025		0.025	0.010	mg/L	-	02/23/22 09:06	02/23/22 19:09	1
Zinc	0.12	J	0.50	0.020	mg/L	-	02/23/22 09:06	02/23/22 19:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.3		0.025	0.010	mg/L	-	02/23/22 09:11	02/24/22 21:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/23/22 09:06	02/23/22 19:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/23/22 09:06	02/23/22 19:36	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/22/22 14:20	02/23/22 15:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.050		0.020	0.0067	mg/Kg	☆	02/22/22 13:40	02/23/22 11:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.2		0.2	0.2	SU	-		02/17/22 18:22	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B28 (15-20)

Lab Sample ID: 500-212294-17

Date Collected: 02/14/22 12:00

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018	*1	0.018	0.0078	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
1,2-Dichloropropene	<0.0018		0.0018	0.00046	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	✳	02/14/22 18:10	02/22/22 19:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		75 - 131	02/14/22 18:10	02/22/22 19:20	1
Dibromofluoromethane	117		75 - 126	02/14/22 18:10	02/22/22 19:20	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	02/14/22 18:10	02/22/22 19:20	1
Toluene-d8 (Surr)	112		75 - 124	02/14/22 18:10	02/22/22 19:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.082	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B28 (15-20)

Lab Sample ID: 500-212294-17

Date Collected: 02/14/22 12:00

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Isophorone	<0.19		0.19	0.042	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Hexachlorocyclopentadiene	<0.75	*	0.75	0.21	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
2-Methylnaphthalene	<0.075		0.075	0.0068	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
2,4-Dinitrophenol	<0.75	*	0.75	0.65	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Carbazole	<0.19		0.19	0.093	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B28 (15-20)

Lab Sample ID: 500-212294-17

Date Collected: 02/14/22 12:00

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
Benzo[g,h,i]perylene	<0.037	*	0.037	0.012	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	✳	02/22/22 11:19	02/23/22 13:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	84		31 - 166	02/22/22 11:19	02/23/22 13:54	1
Phenol-d5	69		30 - 153	02/22/22 11:19	02/23/22 13:54	1
Nitrobenzene-d5 (Surr)	86		37 - 147	02/22/22 11:19	02/23/22 13:54	1
2-Fluorobiphenyl (Surr)	91		43 - 145	02/22/22 11:19	02/23/22 13:54	1
2,4,6-Tribromophenol	104		31 - 143	02/22/22 11:19	02/23/22 13:54	1
Terphenyl-d14 (Surr)	90		42 - 157	02/22/22 11:19	02/23/22 13:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J	1.1	0.21	mg/Kg	✳	02/24/22 10:16	02/24/22 23:01	1
Arsenic	11		0.54	0.18	mg/Kg	✳	02/24/22 10:16	02/24/22 23:01	1
Barium	29		0.54	0.061	mg/Kg	✳	02/24/22 10:16	02/25/22 18:46	1
Beryllium	0.50		0.22	0.050	mg/Kg	✳	02/24/22 10:16	02/25/22 18:46	1
Boron	6.7		2.7	0.25	mg/Kg	✳	02/24/22 10:16	02/24/22 23:01	1
Cadmium	<0.11		0.11	0.019	mg/Kg	✳	02/24/22 10:16	02/24/22 23:01	1
Calcium	39000		54	9.1	mg/Kg	✳	02/24/22 10:16	02/28/22 11:42	5
Chromium	14	B	0.54	0.27	mg/Kg	✳	02/24/22 10:16	02/24/22 23:01	1
Cobalt	12		0.27	0.071	mg/Kg	✳	02/24/22 10:16	02/24/22 23:01	1
Copper	31		0.54	0.15	mg/Kg	✳	02/24/22 10:16	02/24/22 23:01	1
Iron	22000	B	11	5.6	mg/Kg	✳	02/24/22 10:16	02/25/22 18:46	1
Lead	15		0.27	0.12	mg/Kg	✳	02/24/22 10:16	02/24/22 23:01	1
Magnesium	22000		5.4	2.7	mg/Kg	✳	02/24/22 10:16	02/25/22 18:46	1
Manganese	370		0.54	0.078	mg/Kg	✳	02/24/22 10:16	02/25/22 18:46	1
Nickel	29		0.54	0.16	mg/Kg	✳	02/24/22 10:16	02/24/22 23:01	1
Potassium	1600		27	9.5	mg/Kg	✳	02/24/22 10:16	02/25/22 18:46	1
Selenium	<0.54		0.54	0.32	mg/Kg	✳	02/24/22 10:16	02/24/22 23:01	1
Silver	0.23	J	0.27	0.070	mg/Kg	✳	02/24/22 10:16	02/24/22 23:01	1
Sodium	280	B	54	8.0	mg/Kg	✳	02/24/22 10:16	02/25/22 18:46	1
Thallium	0.78		0.54	0.27	mg/Kg	✳	02/24/22 10:16	02/24/22 23:01	1
Vanadium	15		0.27	0.064	mg/Kg	✳	02/24/22 10:16	02/24/22 23:01	1
Zinc	77		1.1	0.47	mg/Kg	✳	02/24/22 10:16	02/24/22 23:01	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.29	J	0.50	0.050	mg/L		02/23/22 09:06	02/23/22 19:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/22 09:06	02/23/22 19:13	1
Boron	0.063	J	0.50	0.050	mg/L		02/23/22 09:06	02/23/22 19:13	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B28 (15-20)

Lab Sample ID: 500-212294-17

Date Collected: 02/14/22 12:00

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/22 09:06	02/23/22 19:13	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 19:13	1
Cobalt	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 19:13	1
Iron	<0.40		0.40	0.20	mg/L		02/23/22 09:06	02/23/22 19:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/23/22 09:06	02/23/22 19:13	1
Manganese	2.2		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 19:13	1
Nickel	0.032		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 19:13	1
Selenium	<0.050		0.050	0.020	mg/L		02/23/22 09:06	02/23/22 19:13	1
Silver	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 19:13	1
Zinc	<0.50		0.50	0.020	mg/L		02/23/22 09:06	02/23/22 19:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.18		0.025	0.010	mg/L		02/23/22 09:11	02/24/22 21:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/23/22 09:06	02/23/22 19:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/22 09:06	02/23/22 19:38	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/22/22 14:20	02/23/22 15:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.018	0.0061	mg/Kg	☆	02/22/22 13:40	02/23/22 11:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6		0.2	0.2	SU			02/17/22 18:27	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B15 (0-3)

Lab Sample ID: 500-212294-20

Date Collected: 02/14/22 13:35

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0080	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
Bromodichloromethane	<0.0018		0.0018	0.00038	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
Bromomethane	<0.0046	*+	0.0046	0.0017	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
2-Butanone (MEK)	<0.0046		0.0046	0.0021	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
Carbon tetrachloride	<0.0018		0.0018	0.00054	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
Chloromethane	<0.0046	*-	0.0046	0.0019	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00052	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00056	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
1,1-Dichloroethene	<0.0018		0.0018	0.00064	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
1,2-Dichloropropene	<0.0018		0.0018	0.00048	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00065	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
2-Hexanone	<0.0046	*1	0.0046	0.0014	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
Styrene	<0.0018		0.0018	0.00056	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
Tetrachloroethene	<0.0018		0.0018	0.00063	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
Toluene	<0.0018		0.0018	0.00047	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00082	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00065	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00062	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
Vinyl chloride	<0.0018		0.0018	0.00082	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	✳	02/14/22 18:10	02/22/22 15:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		75 - 131	02/14/22 18:10	02/22/22 15:33	1
Dibromofluoromethane	110		75 - 126	02/14/22 18:10	02/22/22 15:33	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 134	02/14/22 18:10	02/22/22 15:33	1
Toluene-d8 (Surr)	106		75 - 124	02/14/22 18:10	02/22/22 15:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	✳	02/22/22 11:19	02/23/22 14:56	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	✳	02/22/22 11:19	02/23/22 14:56	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	✳	02/22/22 11:19	02/23/22 14:56	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	✳	02/22/22 11:19	02/23/22 14:56	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B15 (0-3)

Lab Sample ID: 500-212294-20

Date Collected: 02/14/22 13:35

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
Isophorone	<0.19		0.19	0.042	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
Naphthalene	0.0073	J	0.037	0.0057	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
Hexachlorocyclopentadiene	<0.75	*	0.75	0.21	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
2-Methylnaphthalene	0.0072	J	0.075	0.0069	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
2,4-Dinitrophenol	<0.75	*	0.75	0.66	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
Acenaphthylene	0.012	J	0.037	0.0049	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
Fluorene	0.0084	J	0.037	0.0052	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
Phenanthrene	0.10		0.037	0.0052	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
Anthracene	0.023	J	0.037	0.0062	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
Carbazole	<0.19		0.19	0.093	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
Fluoranthene	0.19		0.037	0.0069	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
Pyrene	0.16		0.037	0.0074	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1
Benzo[a]anthracene	0.087		0.037	0.0050	mg/Kg	✱	02/22/22 11:19	02/23/22 14:56	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B15 (0-3)

Lab Sample ID: 500-212294-20

Date Collected: 02/14/22 13:35

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.090		0.037	0.010	mg/Kg	✳	02/22/22 11:19	02/23/22 14:56	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	✳	02/22/22 11:19	02/23/22 14:56	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	✳	02/22/22 11:19	02/23/22 14:56	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	✳	02/22/22 11:19	02/23/22 14:56	1
Benzo[b]fluoranthene	0.14		0.037	0.0080	mg/Kg	✳	02/22/22 11:19	02/23/22 14:56	1
Benzo[k]fluoranthene	0.046		0.037	0.011	mg/Kg	✳	02/22/22 11:19	02/23/22 14:56	1
Benzo[a]pyrene	0.095		0.037	0.0072	mg/Kg	✳	02/22/22 11:19	02/23/22 14:56	1
Indeno[1,2,3-cd]pyrene	0.041		0.037	0.0097	mg/Kg	✳	02/22/22 11:19	02/23/22 14:56	1
Dibenz(a,h)anthracene	0.013	J	0.037	0.0072	mg/Kg	✳	02/22/22 11:19	02/23/22 14:56	1
Benzo[g,h,i]perylene	0.033	J *	0.037	0.012	mg/Kg	✳	02/22/22 11:19	02/23/22 14:56	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	✳	02/22/22 11:19	02/23/22 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	87		31 - 166	02/22/22 11:19	02/23/22 14:56	1
Phenol-d5	51		30 - 153	02/22/22 11:19	02/23/22 14:56	1
Nitrobenzene-d5 (Surr)	92		37 - 147	02/22/22 11:19	02/23/22 14:56	1
2-Fluorobiphenyl (Surr)	98		43 - 145	02/22/22 11:19	02/23/22 14:56	1
2,4,6-Tribromophenol	107		31 - 143	02/22/22 11:19	02/23/22 14:56	1
Terphenyl-d14 (Surr)	98		42 - 157	02/22/22 11:19	02/23/22 14:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.32	J	1.1	0.22	mg/Kg	✳	02/24/22 10:16	02/24/22 23:17	1
Arsenic	7.9		0.56	0.19	mg/Kg	✳	02/24/22 10:16	02/24/22 23:17	1
Barium	90		0.56	0.064	mg/Kg	✳	02/24/22 10:16	02/25/22 18:56	1
Beryllium	0.58		0.23	0.053	mg/Kg	✳	02/24/22 10:16	02/25/22 18:56	1
Boron	3.9		2.8	0.26	mg/Kg	✳	02/24/22 10:16	02/24/22 23:17	1
Cadmium	0.10	J B	0.11	0.020	mg/Kg	✳	02/24/22 10:16	02/24/22 23:17	1
Calcium	28000		11	1.9	mg/Kg	✳	02/24/22 10:16	02/25/22 18:56	1
Chromium	16	B	0.56	0.28	mg/Kg	✳	02/24/22 10:16	02/24/22 23:17	1
Cobalt	7.6		0.28	0.074	mg/Kg	✳	02/24/22 10:16	02/24/22 23:17	1
Copper	19		0.56	0.16	mg/Kg	✳	02/24/22 10:16	02/24/22 23:17	1
Iron	18000	B	11	5.9	mg/Kg	✳	02/24/22 10:16	02/25/22 18:56	1
Lead	55		0.28	0.13	mg/Kg	✳	02/24/22 10:16	02/24/22 23:17	1
Magnesium	17000		5.6	2.8	mg/Kg	✳	02/24/22 10:16	02/25/22 18:56	1
Manganese	400		0.56	0.082	mg/Kg	✳	02/24/22 10:16	02/25/22 18:56	1
Nickel	14		0.56	0.16	mg/Kg	✳	02/24/22 10:16	02/24/22 23:17	1
Potassium	930		28	10	mg/Kg	✳	02/24/22 10:16	02/25/22 18:56	1
Selenium	0.36	J	0.56	0.33	mg/Kg	✳	02/24/22 10:16	02/24/22 23:17	1
Silver	0.32		0.28	0.073	mg/Kg	✳	02/24/22 10:16	02/24/22 23:17	1
Sodium	1300	B	56	8.3	mg/Kg	✳	02/24/22 10:16	02/25/22 18:56	1
Thallium	0.41	J	0.56	0.28	mg/Kg	✳	02/24/22 10:16	02/24/22 23:17	1
Vanadium	20		0.28	0.066	mg/Kg	✳	02/24/22 10:16	02/24/22 23:17	1
Zinc	93		1.1	0.49	mg/Kg	✳	02/24/22 10:16	02/24/22 23:17	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.45	J	0.50	0.050	mg/L		02/23/22 09:06	02/23/22 19:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/22 09:06	02/23/22 19:23	1
Boron	0.078	J	0.50	0.050	mg/L		02/23/22 09:06	02/23/22 19:23	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B15 (0-3)

Lab Sample ID: 500-212294-20

Date Collected: 02/14/22 13:35

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0020	J	0.0050	0.0020	mg/L	-	02/23/22 09:06	02/23/22 19:23	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/23/22 09:06	02/23/22 19:23	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/23/22 09:06	02/23/22 19:23	1
Iron	<0.40		0.40	0.20	mg/L	-	02/23/22 09:06	02/23/22 19:23	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/23/22 09:06	02/23/22 19:23	1
Manganese	0.64		0.025	0.010	mg/L	-	02/23/22 09:06	02/23/22 19:23	1
Nickel	<0.025		0.025	0.010	mg/L	-	02/23/22 09:06	02/23/22 19:23	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/23/22 09:06	02/23/22 19:23	1
Silver	<0.025		0.025	0.010	mg/L	-	02/23/22 09:06	02/23/22 19:23	1
Zinc	0.079	J	0.50	0.020	mg/L	-	02/23/22 09:06	02/23/22 19:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.74		0.025	0.010	mg/L	-	02/23/22 09:11	02/24/22 21:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/23/22 09:06	02/23/22 19:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/23/22 09:06	02/23/22 19:49	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/22/22 14:20	02/23/22 16:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.097		0.018	0.0060	mg/Kg	☆	02/22/22 13:40	02/23/22 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.9		0.2	0.2	SU	-		02/17/22 18:34	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*3	ISTD response or retention time outside acceptable limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

GC/MS VOA

Prep Batch: 643357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-1	2233V2-01-B37 (0-2)	Total/NA	Solid	5035	
500-212294-2	2233V2-01-B36 (0-2)	Total/NA	Solid	5035	
500-212294-3	2233V2-01-B35 (0-2)	Total/NA	Solid	5035	
500-212294-4	2233V2-01-B34 (0-4)	Total/NA	Solid	5035	
500-212294-5	2233V2-01-B34 (4-8)	Total/NA	Solid	5035	
500-212294-6	2233V2-01-B33 (0-4)	Total/NA	Solid	5035	
500-212294-7	2233V2-01-B33 (4-8)	Total/NA	Solid	5035	
500-212294-8	2233V2-01-B32 (0-4)	Total/NA	Solid	5035	
500-212294-9	2233V2-01-B32 (4-8)	Total/NA	Solid	5035	
500-212294-10	2233V2-01-B32 (4-8)D	Total/NA	Solid	5035	
500-212294-11	2233V2-01-B31 (0-4)	Total/NA	Solid	5035	
500-212294-12	2233V2-01-B30 (0-4)	Total/NA	Solid	5035	
500-212294-13	2233V2-01-B29 (0-4)	Total/NA	Solid	5035	
500-212294-14	2233V2-01-B28 (0-5)	Total/NA	Solid	5035	
500-212294-15	2233V2-01-B28 (5-10)	Total/NA	Solid	5035	
500-212294-16	2233V2-01-B28 (10-15)	Total/NA	Solid	5035	
500-212294-17	2233V2-01-B28 (15-20)	Total/NA	Solid	5035	
500-212294-18	2233V2-01-B27 (0-4)	Total/NA	Solid	5035	
500-212294-19	2233V2-01-B27 (4-8)	Total/NA	Solid	5035	
500-212294-20	2233V2-01-B15 (0-3)	Total/NA	Solid	5035	
500-212294-21	2233V2-01-B13 (0-2.6)	Total/NA	Solid	5035	
500-212294-22	2233V2-01-B12(0-3.2)	Total/NA	Solid	5035	

Analysis Batch: 643734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-1	2233V2-01-B37 (0-2)	Total/NA	Solid	8260B	643357
500-212294-2	2233V2-01-B36 (0-2)	Total/NA	Solid	8260B	643357
500-212294-3	2233V2-01-B35 (0-2)	Total/NA	Solid	8260B	643357
500-212294-4	2233V2-01-B34 (0-4)	Total/NA	Solid	8260B	643357
500-212294-5	2233V2-01-B34 (4-8)	Total/NA	Solid	8260B	643357
500-212294-6	2233V2-01-B33 (0-4)	Total/NA	Solid	8260B	643357
500-212294-7	2233V2-01-B33 (4-8)	Total/NA	Solid	8260B	643357
500-212294-8	2233V2-01-B32 (0-4)	Total/NA	Solid	8260B	643357
500-212294-9	2233V2-01-B32 (4-8)	Total/NA	Solid	8260B	643357
500-212294-10	2233V2-01-B32 (4-8)D	Total/NA	Solid	8260B	643357
500-212294-11	2233V2-01-B31 (0-4)	Total/NA	Solid	8260B	643357
500-212294-12	2233V2-01-B30 (0-4)	Total/NA	Solid	8260B	643357
500-212294-13	2233V2-01-B29 (0-4)	Total/NA	Solid	8260B	643357
500-212294-14	2233V2-01-B28 (0-5)	Total/NA	Solid	8260B	643357
500-212294-15	2233V2-01-B28 (5-10)	Total/NA	Solid	8260B	643357
500-212294-16	2233V2-01-B28 (10-15)	Total/NA	Solid	8260B	643357
500-212294-17	2233V2-01-B28 (15-20)	Total/NA	Solid	8260B	643357
MB 500-643734/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-643734/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-643734/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 643739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-19	2233V2-01-B27 (4-8)	Total/NA	Solid	8260B	643357
500-212294-20	2233V2-01-B15 (0-3)	Total/NA	Solid	8260B	643357
500-212294-21	2233V2-01-B13 (0-2.6)	Total/NA	Solid	8260B	643357

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

GC/MS VOA (Continued)

Analysis Batch: 643739 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-22	2233V2-01-B12(0-3.2)	Total/NA	Solid	8260B	643357
MB 500-643739/8	Method Blank	Total/NA	Solid	8260B	
LCS 500-643739/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-643739/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 643993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-18	2233V2-01-B27 (0-4)	Total/NA	Solid	8260B	643357
MB 500-643993/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-643993/28	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-643993/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 643085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-21	2233V2-01-B13 (0-2.6)	Total/NA	Solid	3541	
500-212294-22	2233V2-01-B12(0-3.2)	Total/NA	Solid	3541	
MB 500-643085/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-643085/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 643375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-643085/1-A	Method Blank	Total/NA	Solid	8270D	643085
LCS 500-643085/2-A	Lab Control Sample	Total/NA	Solid	8270D	643085

Analysis Batch: 643726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-21	2233V2-01-B13 (0-2.6)	Total/NA	Solid	8270D	643085
500-212294-22	2233V2-01-B12(0-3.2)	Total/NA	Solid	8270D	643085

Prep Batch: 643829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-1	2233V2-01-B37 (0-2)	Total/NA	Solid	3541	
500-212294-2	2233V2-01-B36 (0-2)	Total/NA	Solid	3541	
500-212294-3	2233V2-01-B35 (0-2)	Total/NA	Solid	3541	
500-212294-4	2233V2-01-B34 (0-4)	Total/NA	Solid	3541	
500-212294-5	2233V2-01-B34 (4-8)	Total/NA	Solid	3541	
500-212294-6	2233V2-01-B33 (0-4)	Total/NA	Solid	3541	
500-212294-7	2233V2-01-B33 (4-8)	Total/NA	Solid	3541	
500-212294-8	2233V2-01-B32 (0-4)	Total/NA	Solid	3541	
500-212294-9	2233V2-01-B32 (4-8)	Total/NA	Solid	3541	
500-212294-10	2233V2-01-B32 (4-8)D	Total/NA	Solid	3541	
500-212294-11	2233V2-01-B31 (0-4)	Total/NA	Solid	3541	
500-212294-12	2233V2-01-B30 (0-4)	Total/NA	Solid	3541	
500-212294-13	2233V2-01-B29 (0-4)	Total/NA	Solid	3541	
500-212294-14	2233V2-01-B28 (0-5)	Total/NA	Solid	3541	
500-212294-15	2233V2-01-B28 (5-10)	Total/NA	Solid	3541	
500-212294-16	2233V2-01-B28 (10-15)	Total/NA	Solid	3541	
500-212294-17	2233V2-01-B28 (15-20)	Total/NA	Solid	3541	
500-212294-18 - DL	2233V2-01-B27 (0-4)	Total/NA	Solid	3541	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

GC/MS Semi VOA (Continued)

Prep Batch: 643829 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-18	2233V2-01-B27 (0-4)	Total/NA	Solid	3541	
500-212294-19	2233V2-01-B27 (4-8)	Total/NA	Solid	3541	
500-212294-20	2233V2-01-B15 (0-3)	Total/NA	Solid	3541	
MB 500-643829/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-643829/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-212294-1 MS	2233V2-01-B37 (0-2)	Total/NA	Solid	3541	
500-212294-1 MSD	2233V2-01-B37 (0-2)	Total/NA	Solid	3541	

Analysis Batch: 643957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-15	2233V2-01-B28 (5-10)	Total/NA	Solid	8270D	643829
500-212294-16	2233V2-01-B28 (10-15)	Total/NA	Solid	8270D	643829
500-212294-17	2233V2-01-B28 (15-20)	Total/NA	Solid	8270D	643829
500-212294-18	2233V2-01-B27 (0-4)	Total/NA	Solid	8270D	643829
500-212294-19	2233V2-01-B27 (4-8)	Total/NA	Solid	8270D	643829
500-212294-20	2233V2-01-B15 (0-3)	Total/NA	Solid	8270D	643829

Analysis Batch: 643963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-1	2233V2-01-B37 (0-2)	Total/NA	Solid	8270D	643829
500-212294-2	2233V2-01-B36 (0-2)	Total/NA	Solid	8270D	643829
500-212294-3	2233V2-01-B35 (0-2)	Total/NA	Solid	8270D	643829
500-212294-4	2233V2-01-B34 (0-4)	Total/NA	Solid	8270D	643829
500-212294-5	2233V2-01-B34 (4-8)	Total/NA	Solid	8270D	643829
500-212294-6	2233V2-01-B33 (0-4)	Total/NA	Solid	8270D	643829
500-212294-7	2233V2-01-B33 (4-8)	Total/NA	Solid	8270D	643829
500-212294-8	2233V2-01-B32 (0-4)	Total/NA	Solid	8270D	643829
500-212294-10	2233V2-01-B32 (4-8)D	Total/NA	Solid	8270D	643829
500-212294-11	2233V2-01-B31 (0-4)	Total/NA	Solid	8270D	643829
500-212294-12	2233V2-01-B30 (0-4)	Total/NA	Solid	8270D	643829
500-212294-13	2233V2-01-B29 (0-4)	Total/NA	Solid	8270D	643829
MB 500-643829/1-A	Method Blank	Total/NA	Solid	8270D	643829
LCS 500-643829/2-A	Lab Control Sample	Total/NA	Solid	8270D	643829
500-212294-1 MS	2233V2-01-B37 (0-2)	Total/NA	Solid	8270D	643829
500-212294-1 MSD	2233V2-01-B37 (0-2)	Total/NA	Solid	8270D	643829

Analysis Batch: 644203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-14	2233V2-01-B28 (0-5)	Total/NA	Solid	8270D	643829
500-212294-18 - DL	2233V2-01-B27 (0-4)	Total/NA	Solid	8270D	643829

Analysis Batch: 644221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-9	2233V2-01-B32 (4-8)	Total/NA	Solid	8270D	643829

Metals

Leach Batch: 643676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-1	2233V2-01-B37 (0-2)	TCLP	Solid	1311	
500-212294-2	2233V2-01-B36 (0-2)	TCLP	Solid	1311	

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Metals (Continued)

Leach Batch: 643676 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-5	2233V2-01-B34 (4-8)	TCLP	Solid	1311	
500-212294-6	2233V2-01-B33 (0-4)	TCLP	Solid	1311	
500-212294-7	2233V2-01-B33 (4-8)	TCLP	Solid	1311	
500-212294-8	2233V2-01-B32 (0-4)	TCLP	Solid	1311	
500-212294-9	2233V2-01-B32 (4-8)	TCLP	Solid	1311	
500-212294-10	2233V2-01-B32 (4-8)D	TCLP	Solid	1311	
500-212294-11	2233V2-01-B31 (0-4)	TCLP	Solid	1311	
500-212294-12	2233V2-01-B30 (0-4)	TCLP	Solid	1311	
500-212294-13	2233V2-01-B29 (0-4)	TCLP	Solid	1311	
500-212294-14	2233V2-01-B28 (0-5)	TCLP	Solid	1311	
500-212294-15	2233V2-01-B28 (5-10)	TCLP	Solid	1311	
500-212294-16	2233V2-01-B28 (10-15)	TCLP	Solid	1311	
500-212294-17	2233V2-01-B28 (15-20)	TCLP	Solid	1311	
500-212294-18	2233V2-01-B27 (0-4)	TCLP	Solid	1311	
500-212294-19	2233V2-01-B27 (4-8)	TCLP	Solid	1311	
500-212294-20	2233V2-01-B15 (0-3)	TCLP	Solid	1311	
LB 500-643676/1-B	Method Blank	TCLP	Solid	1311	
LB 500-643676/2-B	Method Blank	TCLP	Solid	1311	
500-212294-5 MS	2233V2-01-B34 (4-8)	TCLP	Solid	1311	
500-212294-5 DU	2233V2-01-B34 (4-8)	TCLP	Solid	1311	

Leach Batch: 643677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-3	2233V2-01-B35 (0-2)	TCLP	Solid	1311	
500-212294-4	2233V2-01-B34 (0-4)	TCLP	Solid	1311	
LB2 500-643677/1-B	Method Blank	TCLP	Solid	1311	
LB2 500-643677/2-B	Method Blank	TCLP	Solid	1311	

Leach Batch: 643679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-21	2233V2-01-B13 (0-2.6)	TCLP	Solid	1311	
LB 500-643679/1-B	Method Blank	TCLP	Solid	1311	
LB 500-643679/2-B	Method Blank	TCLP	Solid	1311	

Leach Batch: 643681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-22	2233V2-01-B12(0-3.2)	TCLP	Solid	1311	
LB2 500-643681/1-B	Method Blank	TCLP	Solid	1311	
LB2 500-643681/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 643685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-1	2233V2-01-B37 (0-2)	SPLP East	Solid	1312	
500-212294-2	2233V2-01-B36 (0-2)	SPLP East	Solid	1312	
500-212294-3	2233V2-01-B35 (0-2)	SPLP East	Solid	1312	
500-212294-4	2233V2-01-B34 (0-4)	SPLP East	Solid	1312	
500-212294-5	2233V2-01-B34 (4-8)	SPLP East	Solid	1312	
500-212294-6	2233V2-01-B33 (0-4)	SPLP East	Solid	1312	
500-212294-7	2233V2-01-B33 (4-8)	SPLP East	Solid	1312	
500-212294-8	2233V2-01-B32 (0-4)	SPLP East	Solid	1312	
500-212294-9	2233V2-01-B32 (4-8)	SPLP East	Solid	1312	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Metals (Continued)

Leach Batch: 643685 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-10	2233V2-01-B32 (4-8)D	SPLP East	Solid	1312	
500-212294-11	2233V2-01-B31 (0-4)	SPLP East	Solid	1312	
500-212294-12	2233V2-01-B30 (0-4)	SPLP East	Solid	1312	
500-212294-13	2233V2-01-B29 (0-4)	SPLP East	Solid	1312	
500-212294-14	2233V2-01-B28 (0-5)	SPLP East	Solid	1312	
500-212294-15	2233V2-01-B28 (5-10)	SPLP East	Solid	1312	
500-212294-16	2233V2-01-B28 (10-15)	SPLP East	Solid	1312	
500-212294-17	2233V2-01-B28 (15-20)	SPLP East	Solid	1312	
500-212294-18	2233V2-01-B27 (0-4)	SPLP East	Solid	1312	
500-212294-19	2233V2-01-B27 (4-8)	SPLP East	Solid	1312	
500-212294-20	2233V2-01-B15 (0-3)	SPLP East	Solid	1312	
LB 500-643685/1-B	Method Blank	SPLP East	Solid	1312	
500-212294-1 MS	2233V2-01-B37 (0-2)	SPLP East	Solid	1312	
500-212294-1 DU	2233V2-01-B37 (0-2)	SPLP East	Solid	1312	

Leach Batch: 643686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-21	2233V2-01-B13 (0-2.6)	SPLP East	Solid	1312	
500-212294-22	2233V2-01-B12(0-3.2)	SPLP East	Solid	1312	
LB 500-643686/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 643812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-1	2233V2-01-B37 (0-2)	Total/NA	Solid	7471B	
500-212294-2	2233V2-01-B36 (0-2)	Total/NA	Solid	7471B	
MB 500-643812/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-643812/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 643814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-3	2233V2-01-B35 (0-2)	Total/NA	Solid	7471B	
500-212294-4	2233V2-01-B34 (0-4)	Total/NA	Solid	7471B	
500-212294-5	2233V2-01-B34 (4-8)	Total/NA	Solid	7471B	
500-212294-6	2233V2-01-B33 (0-4)	Total/NA	Solid	7471B	
500-212294-7	2233V2-01-B33 (4-8)	Total/NA	Solid	7471B	
500-212294-8	2233V2-01-B32 (0-4)	Total/NA	Solid	7471B	
500-212294-9	2233V2-01-B32 (4-8)	Total/NA	Solid	7471B	
500-212294-10	2233V2-01-B32 (4-8)D	Total/NA	Solid	7471B	
500-212294-11	2233V2-01-B31 (0-4)	Total/NA	Solid	7471B	
500-212294-12	2233V2-01-B30 (0-4)	Total/NA	Solid	7471B	
500-212294-13	2233V2-01-B29 (0-4)	Total/NA	Solid	7471B	
500-212294-14	2233V2-01-B28 (0-5)	Total/NA	Solid	7471B	
500-212294-15	2233V2-01-B28 (5-10)	Total/NA	Solid	7471B	
500-212294-16	2233V2-01-B28 (10-15)	Total/NA	Solid	7471B	
500-212294-17	2233V2-01-B28 (15-20)	Total/NA	Solid	7471B	
500-212294-18	2233V2-01-B27 (0-4)	Total/NA	Solid	7471B	
500-212294-19	2233V2-01-B27 (4-8)	Total/NA	Solid	7471B	
500-212294-20	2233V2-01-B15 (0-3)	Total/NA	Solid	7471B	
500-212294-21	2233V2-01-B13 (0-2.6)	Total/NA	Solid	7471B	
500-212294-22	2233V2-01-B12(0-3.2)	Total/NA	Solid	7471B	
MB 500-643814/12-A	Method Blank	Total/NA	Solid	7471B	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Metals (Continued)

Prep Batch: 643814 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-643814/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-212294-11 MS	2233V2-01-B31 (0-4)	Total/NA	Solid	7471B	
500-212294-11 MSD	2233V2-01-B31 (0-4)	Total/NA	Solid	7471B	
500-212294-11 DU	2233V2-01-B31 (0-4)	Total/NA	Solid	7471B	

Prep Batch: 643849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-1	2233V2-01-B37 (0-2)	TCLP	Solid	7470A	643676
500-212294-2	2233V2-01-B36 (0-2)	TCLP	Solid	7470A	643676
500-212294-5	2233V2-01-B34 (4-8)	TCLP	Solid	7470A	643676
500-212294-6	2233V2-01-B33 (0-4)	TCLP	Solid	7470A	643676
500-212294-7	2233V2-01-B33 (4-8)	TCLP	Solid	7470A	643676
500-212294-8	2233V2-01-B32 (0-4)	TCLP	Solid	7470A	643676
500-212294-9	2233V2-01-B32 (4-8)	TCLP	Solid	7470A	643676
500-212294-10	2233V2-01-B32 (4-8)D	TCLP	Solid	7470A	643676
500-212294-11	2233V2-01-B31 (0-4)	TCLP	Solid	7470A	643676
500-212294-12	2233V2-01-B30 (0-4)	TCLP	Solid	7470A	643676
500-212294-13	2233V2-01-B29 (0-4)	TCLP	Solid	7470A	643676
500-212294-14	2233V2-01-B28 (0-5)	TCLP	Solid	7470A	643676
500-212294-15	2233V2-01-B28 (5-10)	TCLP	Solid	7470A	643676
500-212294-16	2233V2-01-B28 (10-15)	TCLP	Solid	7470A	643676
500-212294-17	2233V2-01-B28 (15-20)	TCLP	Solid	7470A	643676
500-212294-18	2233V2-01-B27 (0-4)	TCLP	Solid	7470A	643676
500-212294-19	2233V2-01-B27 (4-8)	TCLP	Solid	7470A	643676
500-212294-20	2233V2-01-B15 (0-3)	TCLP	Solid	7470A	643676
LB 500-643676/2-B	Method Blank	TCLP	Solid	7470A	643676
MB 500-643849/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-643849/14-A	Lab Control Sample	Total/NA	Solid	7470A	
500-212294-5 MS	2233V2-01-B34 (4-8)	TCLP	Solid	7470A	643676
500-212294-5 DU	2233V2-01-B34 (4-8)	TCLP	Solid	7470A	643676

Prep Batch: 643853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-3	2233V2-01-B35 (0-2)	TCLP	Solid	7470A	643677
500-212294-4	2233V2-01-B34 (0-4)	TCLP	Solid	7470A	643677
500-212294-21	2233V2-01-B13 (0-2.6)	TCLP	Solid	7470A	643679
500-212294-22	2233V2-01-B12(0-3.2)	TCLP	Solid	7470A	643681
LB 500-643679/1-B	Method Blank	TCLP	Solid	7470A	643679
LB2 500-643677/2-B	Method Blank	TCLP	Solid	7470A	643677
LB2 500-643681/1-B	Method Blank	TCLP	Solid	7470A	643681
MB 500-643853/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-643853/14-A	Lab Control Sample	Total/NA	Solid	7470A	
LCS 500-643853/28-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 644030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-1	2233V2-01-B37 (0-2)	TCLP	Solid	3010A	643676
500-212294-2	2233V2-01-B36 (0-2)	TCLP	Solid	3010A	643676
500-212294-3	2233V2-01-B35 (0-2)	TCLP	Solid	3010A	643677
500-212294-4	2233V2-01-B34 (0-4)	TCLP	Solid	3010A	643677
500-212294-5	2233V2-01-B34 (4-8)	TCLP	Solid	3010A	643676

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Metals (Continued)

Prep Batch: 644030 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-6	2233V2-01-B33 (0-4)	TCLP	Solid	3010A	643676
500-212294-7	2233V2-01-B33 (4-8)	TCLP	Solid	3010A	643676
500-212294-8	2233V2-01-B32 (0-4)	TCLP	Solid	3010A	643676
500-212294-9	2233V2-01-B32 (4-8)	TCLP	Solid	3010A	643676
500-212294-10	2233V2-01-B32 (4-8)D	TCLP	Solid	3010A	643676
500-212294-11	2233V2-01-B31 (0-4)	TCLP	Solid	3010A	643676
500-212294-12	2233V2-01-B30 (0-4)	TCLP	Solid	3010A	643676
500-212294-13	2233V2-01-B29 (0-4)	TCLP	Solid	3010A	643676
500-212294-14	2233V2-01-B28 (0-5)	TCLP	Solid	3010A	643676
500-212294-15	2233V2-01-B28 (5-10)	TCLP	Solid	3010A	643676
500-212294-16	2233V2-01-B28 (10-15)	TCLP	Solid	3010A	643676
500-212294-17	2233V2-01-B28 (15-20)	TCLP	Solid	3010A	643676
500-212294-18	2233V2-01-B27 (0-4)	TCLP	Solid	3010A	643676
500-212294-19	2233V2-01-B27 (4-8)	TCLP	Solid	3010A	643676
500-212294-20	2233V2-01-B15 (0-3)	TCLP	Solid	3010A	643676
LB 500-643676/1-B	Method Blank	TCLP	Solid	3010A	643676
LB2 500-643677/1-B	Method Blank	TCLP	Solid	3010A	643677
LCS 500-644030/24-A	Lab Control Sample	Total/NA	Solid	3010A	
LCS 500-644030/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-212294-5 MS	2233V2-01-B34 (4-8)	TCLP	Solid	3010A	643676
500-212294-5 DU	2233V2-01-B34 (4-8)	TCLP	Solid	3010A	643676

Prep Batch: 644031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-21	2233V2-01-B13 (0-2.6)	TCLP	Solid	3010A	643679
500-212294-22	2233V2-01-B12(0-3.2)	TCLP	Solid	3010A	643681
LB 500-643679/2-B	Method Blank	TCLP	Solid	3010A	643679
LB2 500-643681/1-C	Method Blank	TCLP	Solid	3010A	643681
LCS 500-644031/16-A	Lab Control Sample	Total/NA	Solid	3010A	
LCS 500-644031/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 644033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-1	2233V2-01-B37 (0-2)	SPLP East	Solid	3010A	643685
500-212294-2	2233V2-01-B36 (0-2)	SPLP East	Solid	3010A	643685
500-212294-3	2233V2-01-B35 (0-2)	SPLP East	Solid	3010A	643685
500-212294-4	2233V2-01-B34 (0-4)	SPLP East	Solid	3010A	643685
500-212294-5	2233V2-01-B34 (4-8)	SPLP East	Solid	3010A	643685
500-212294-6	2233V2-01-B33 (0-4)	SPLP East	Solid	3010A	643685
500-212294-7	2233V2-01-B33 (4-8)	SPLP East	Solid	3010A	643685
500-212294-8	2233V2-01-B32 (0-4)	SPLP East	Solid	3010A	643685
500-212294-9	2233V2-01-B32 (4-8)	SPLP East	Solid	3010A	643685
500-212294-10	2233V2-01-B32 (4-8)D	SPLP East	Solid	3010A	643685
500-212294-11	2233V2-01-B31 (0-4)	SPLP East	Solid	3010A	643685
500-212294-12	2233V2-01-B30 (0-4)	SPLP East	Solid	3010A	643685
500-212294-13	2233V2-01-B29 (0-4)	SPLP East	Solid	3010A	643685
500-212294-14	2233V2-01-B28 (0-5)	SPLP East	Solid	3010A	643685
500-212294-15	2233V2-01-B28 (5-10)	SPLP East	Solid	3010A	643685
500-212294-16	2233V2-01-B28 (10-15)	SPLP East	Solid	3010A	643685
500-212294-17	2233V2-01-B28 (15-20)	SPLP East	Solid	3010A	643685
500-212294-18	2233V2-01-B27 (0-4)	SPLP East	Solid	3010A	643685

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Metals (Continued)

Prep Batch: 644033 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-19	2233V2-01-B27 (4-8)	SPLP East	Solid	3010A	643685
500-212294-20	2233V2-01-B15 (0-3)	SPLP East	Solid	3010A	643685
LB 500-643685/1-B	Method Blank	SPLP East	Solid	3010A	643685
LCS 500-644033/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-212294-1 MS	2233V2-01-B37 (0-2)	SPLP East	Solid	3010A	643685
500-212294-1 DU	2233V2-01-B37 (0-2)	SPLP East	Solid	3010A	643685

Prep Batch: 644034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-21	2233V2-01-B13 (0-2.6)	SPLP East	Solid	3010A	643686
500-212294-22	2233V2-01-B12(0-3.2)	SPLP East	Solid	3010A	643686
LB 500-643686/1-B	Method Blank	SPLP East	Solid	3010A	643686
LCS 500-644034/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 644039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-1	2233V2-01-B37 (0-2)	Total/NA	Solid	3050B	
500-212294-2	2233V2-01-B36 (0-2)	Total/NA	Solid	3050B	
500-212294-3	2233V2-01-B35 (0-2)	Total/NA	Solid	3050B	
500-212294-4	2233V2-01-B34 (0-4)	Total/NA	Solid	3050B	
500-212294-5	2233V2-01-B34 (4-8)	Total/NA	Solid	3050B	
500-212294-6	2233V2-01-B33 (0-4)	Total/NA	Solid	3050B	
500-212294-7	2233V2-01-B33 (4-8)	Total/NA	Solid	3050B	
500-212294-8	2233V2-01-B32 (0-4)	Total/NA	Solid	3050B	
500-212294-9	2233V2-01-B32 (4-8)	Total/NA	Solid	3050B	
500-212294-10	2233V2-01-B32 (4-8)D	Total/NA	Solid	3050B	
500-212294-11	2233V2-01-B31 (0-4)	Total/NA	Solid	3050B	
500-212294-12	2233V2-01-B30 (0-4)	Total/NA	Solid	3050B	
500-212294-13	2233V2-01-B29 (0-4)	Total/NA	Solid	3050B	
500-212294-14	2233V2-01-B28 (0-5)	Total/NA	Solid	3050B	
500-212294-15	2233V2-01-B28 (5-10)	Total/NA	Solid	3050B	
500-212294-16	2233V2-01-B28 (10-15)	Total/NA	Solid	3050B	
500-212294-17	2233V2-01-B28 (15-20)	Total/NA	Solid	3050B	
500-212294-18	2233V2-01-B27 (0-4)	Total/NA	Solid	3050B	
500-212294-19	2233V2-01-B27 (4-8)	Total/NA	Solid	3050B	
500-212294-20	2233V2-01-B15 (0-3)	Total/NA	Solid	3050B	
MB 500-644039/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-644039/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-212294-1 MS	2233V2-01-B37 (0-2)	Total/NA	Solid	3050B	
500-212294-1 MSD	2233V2-01-B37 (0-2)	Total/NA	Solid	3050B	
500-212294-1 DU	2233V2-01-B37 (0-2)	Total/NA	Solid	3050B	

Analysis Batch: 644105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-1	2233V2-01-B37 (0-2)	Total/NA	Solid	7471B	643812
500-212294-2	2233V2-01-B36 (0-2)	Total/NA	Solid	7471B	643812
500-212294-3	2233V2-01-B35 (0-2)	Total/NA	Solid	7471B	643814
500-212294-4	2233V2-01-B34 (0-4)	Total/NA	Solid	7471B	643814
500-212294-5	2233V2-01-B34 (4-8)	Total/NA	Solid	7471B	643814
500-212294-6	2233V2-01-B33 (0-4)	Total/NA	Solid	7471B	643814
500-212294-7	2233V2-01-B33 (4-8)	Total/NA	Solid	7471B	643814

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Metals (Continued)

Analysis Batch: 644105 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-8	2233V2-01-B32 (0-4)	Total/NA	Solid	7471B	643814
500-212294-9	2233V2-01-B32 (4-8)	Total/NA	Solid	7471B	643814
500-212294-10	2233V2-01-B32 (4-8)D	Total/NA	Solid	7471B	643814
500-212294-11	2233V2-01-B31 (0-4)	Total/NA	Solid	7471B	643814
500-212294-12	2233V2-01-B30 (0-4)	Total/NA	Solid	7471B	643814
500-212294-13	2233V2-01-B29 (0-4)	Total/NA	Solid	7471B	643814
500-212294-14	2233V2-01-B28 (0-5)	Total/NA	Solid	7471B	643814
500-212294-15	2233V2-01-B28 (5-10)	Total/NA	Solid	7471B	643814
500-212294-16	2233V2-01-B28 (10-15)	Total/NA	Solid	7471B	643814
500-212294-17	2233V2-01-B28 (15-20)	Total/NA	Solid	7471B	643814
500-212294-18	2233V2-01-B27 (0-4)	Total/NA	Solid	7471B	643814
500-212294-19	2233V2-01-B27 (4-8)	Total/NA	Solid	7471B	643814
500-212294-20	2233V2-01-B15 (0-3)	Total/NA	Solid	7471B	643814
500-212294-21	2233V2-01-B13 (0-2.6)	Total/NA	Solid	7471B	643814
500-212294-22	2233V2-01-B12(0-3.2)	Total/NA	Solid	7471B	643814
MB 500-643812/12-A	Method Blank	Total/NA	Solid	7471B	643812
MB 500-643814/12-A	Method Blank	Total/NA	Solid	7471B	643814
LCS 500-643812/13-A	Lab Control Sample	Total/NA	Solid	7471B	643812
LCS 500-643814/13-A	Lab Control Sample	Total/NA	Solid	7471B	643814
500-212294-11 MS	2233V2-01-B31 (0-4)	Total/NA	Solid	7471B	643814
500-212294-11 MSD	2233V2-01-B31 (0-4)	Total/NA	Solid	7471B	643814
500-212294-11 DU	2233V2-01-B31 (0-4)	Total/NA	Solid	7471B	643814

Analysis Batch: 644140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-1	2233V2-01-B37 (0-2)	TCLP	Solid	7470A	643849
500-212294-2	2233V2-01-B36 (0-2)	TCLP	Solid	7470A	643849
500-212294-3	2233V2-01-B35 (0-2)	TCLP	Solid	7470A	643853
500-212294-4	2233V2-01-B34 (0-4)	TCLP	Solid	7470A	643853
500-212294-5	2233V2-01-B34 (4-8)	TCLP	Solid	7470A	643849
500-212294-6	2233V2-01-B33 (0-4)	TCLP	Solid	7470A	643849
500-212294-7	2233V2-01-B33 (4-8)	TCLP	Solid	7470A	643849
500-212294-8	2233V2-01-B32 (0-4)	TCLP	Solid	7470A	643849
500-212294-9	2233V2-01-B32 (4-8)	TCLP	Solid	7470A	643849
500-212294-10	2233V2-01-B32 (4-8)D	TCLP	Solid	7470A	643849
500-212294-11	2233V2-01-B31 (0-4)	TCLP	Solid	7470A	643849
500-212294-12	2233V2-01-B30 (0-4)	TCLP	Solid	7470A	643849
500-212294-13	2233V2-01-B29 (0-4)	TCLP	Solid	7470A	643849
500-212294-14	2233V2-01-B28 (0-5)	TCLP	Solid	7470A	643849
500-212294-15	2233V2-01-B28 (5-10)	TCLP	Solid	7470A	643849
500-212294-16	2233V2-01-B28 (10-15)	TCLP	Solid	7470A	643849
500-212294-17	2233V2-01-B28 (15-20)	TCLP	Solid	7470A	643849
500-212294-18	2233V2-01-B27 (0-4)	TCLP	Solid	7470A	643849
500-212294-19	2233V2-01-B27 (4-8)	TCLP	Solid	7470A	643849
500-212294-20	2233V2-01-B15 (0-3)	TCLP	Solid	7470A	643849
500-212294-21	2233V2-01-B13 (0-2.6)	TCLP	Solid	7470A	643853
500-212294-22	2233V2-01-B12(0-3.2)	TCLP	Solid	7470A	643853
LB 500-643676/2-B	Method Blank	TCLP	Solid	7470A	643849
LB 500-643679/1-B	Method Blank	TCLP	Solid	7470A	643853
LB2 500-643677/2-B	Method Blank	TCLP	Solid	7470A	643853
LB2 500-643681/1-B	Method Blank	TCLP	Solid	7470A	643853

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Metals (Continued)

Analysis Batch: 644140 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-643849/12-A	Method Blank	Total/NA	Solid	7470A	643849
MB 500-643853/12-A	Method Blank	Total/NA	Solid	7470A	643853
LCS 500-643849/14-A	Lab Control Sample	Total/NA	Solid	7470A	643849
LCS 500-643853/14-A	Lab Control Sample	Total/NA	Solid	7470A	643853
LCS 500-643853/28-A	Lab Control Sample	Total/NA	Solid	7470A	643853
500-212294-5 MS	2233V2-01-B34 (4-8)	TCLP	Solid	7470A	643849
500-212294-5 DU	2233V2-01-B34 (4-8)	TCLP	Solid	7470A	643849

Analysis Batch: 644181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-1	2233V2-01-B37 (0-2)	TCLP	Solid	6020A	644030
500-212294-2	2233V2-01-B36 (0-2)	TCLP	Solid	6020A	644030
500-212294-3	2233V2-01-B35 (0-2)	TCLP	Solid	6020A	644030
500-212294-4	2233V2-01-B34 (0-4)	TCLP	Solid	6020A	644030
500-212294-5	2233V2-01-B34 (4-8)	TCLP	Solid	6020A	644030
500-212294-6	2233V2-01-B33 (0-4)	TCLP	Solid	6020A	644030
500-212294-7	2233V2-01-B33 (4-8)	TCLP	Solid	6020A	644030
500-212294-8	2233V2-01-B32 (0-4)	TCLP	Solid	6020A	644030
500-212294-9	2233V2-01-B32 (4-8)	TCLP	Solid	6020A	644030
500-212294-10	2233V2-01-B32 (4-8)D	TCLP	Solid	6020A	644030
500-212294-11	2233V2-01-B31 (0-4)	TCLP	Solid	6020A	644030
500-212294-12	2233V2-01-B30 (0-4)	TCLP	Solid	6020A	644030
500-212294-13	2233V2-01-B29 (0-4)	TCLP	Solid	6020A	644030
500-212294-14	2233V2-01-B28 (0-5)	TCLP	Solid	6020A	644030
500-212294-15	2233V2-01-B28 (5-10)	TCLP	Solid	6020A	644030
500-212294-16	2233V2-01-B28 (10-15)	TCLP	Solid	6020A	644030
500-212294-17	2233V2-01-B28 (15-20)	TCLP	Solid	6020A	644030
500-212294-18	2233V2-01-B27 (0-4)	TCLP	Solid	6020A	644030
500-212294-19	2233V2-01-B27 (4-8)	TCLP	Solid	6020A	644030
500-212294-20	2233V2-01-B15 (0-3)	TCLP	Solid	6020A	644030
500-212294-21	2233V2-01-B13 (0-2.6)	TCLP	Solid	6020A	644031
500-212294-22	2233V2-01-B12(0-3.2)	TCLP	Solid	6020A	644031
LB 500-643676/1-B	Method Blank	TCLP	Solid	6020A	644030
LB 500-643679/2-B	Method Blank	TCLP	Solid	6020A	644031
LB2 500-643677/1-B	Method Blank	TCLP	Solid	6020A	644030
LB2 500-643681/1-C	Method Blank	TCLP	Solid	6020A	644031
LCS 500-644030/24-A	Lab Control Sample	Total/NA	Solid	6020A	644030
LCS 500-644030/2-A	Lab Control Sample	Total/NA	Solid	6020A	644030
LCS 500-644031/16-A	Lab Control Sample	Total/NA	Solid	6020A	644031
LCS 500-644031/2-A	Lab Control Sample	Total/NA	Solid	6020A	644031
500-212294-5 MS	2233V2-01-B34 (4-8)	TCLP	Solid	6020A	644030
500-212294-5 DU	2233V2-01-B34 (4-8)	TCLP	Solid	6020A	644030

Analysis Batch: 644282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-1	2233V2-01-B37 (0-2)	TCLP	Solid	6010B	644030
500-212294-2	2233V2-01-B36 (0-2)	TCLP	Solid	6010B	644030
500-212294-3	2233V2-01-B35 (0-2)	TCLP	Solid	6010B	644030
500-212294-4	2233V2-01-B34 (0-4)	TCLP	Solid	6010B	644030
500-212294-5	2233V2-01-B34 (4-8)	TCLP	Solid	6010B	644030
500-212294-6	2233V2-01-B33 (0-4)	TCLP	Solid	6010B	644030

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Metals (Continued)

Analysis Batch: 644282 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-7	2233V2-01-B33 (4-8)	TCLP	Solid	6010B	644030
500-212294-8	2233V2-01-B32 (0-4)	TCLP	Solid	6010B	644030
500-212294-9	2233V2-01-B32 (4-8)	TCLP	Solid	6010B	644030
500-212294-10	2233V2-01-B32 (4-8)D	TCLP	Solid	6010B	644030
500-212294-11	2233V2-01-B31 (0-4)	TCLP	Solid	6010B	644030
500-212294-12	2233V2-01-B30 (0-4)	TCLP	Solid	6010B	644030
500-212294-13	2233V2-01-B29 (0-4)	TCLP	Solid	6010B	644030
500-212294-14	2233V2-01-B28 (0-5)	TCLP	Solid	6010B	644030
500-212294-15	2233V2-01-B28 (5-10)	TCLP	Solid	6010B	644030
500-212294-16	2233V2-01-B28 (10-15)	TCLP	Solid	6010B	644030
500-212294-17	2233V2-01-B28 (15-20)	TCLP	Solid	6010B	644030
500-212294-18	2233V2-01-B27 (0-4)	TCLP	Solid	6010B	644030
500-212294-19	2233V2-01-B27 (4-8)	TCLP	Solid	6010B	644030
500-212294-20	2233V2-01-B15 (0-3)	TCLP	Solid	6010B	644030
LB 500-643676/1-B	Method Blank	TCLP	Solid	6010B	644030
LB2 500-643677/1-B	Method Blank	TCLP	Solid	6010B	644030
LCS 500-644030/24-A	Lab Control Sample	Total/NA	Solid	6010B	644030
LCS 500-644030/2-A	Lab Control Sample	Total/NA	Solid	6010B	644030
500-212294-5 MS	2233V2-01-B34 (4-8)	TCLP	Solid	6010B	644030
500-212294-5 DU	2233V2-01-B34 (4-8)	TCLP	Solid	6010B	644030

Analysis Batch: 644300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-21	2233V2-01-B13 (0-2.6)	TCLP	Solid	6010B	644031
500-212294-22	2233V2-01-B12(0-3.2)	TCLP	Solid	6010B	644031
LB 500-643679/2-B	Method Blank	TCLP	Solid	6010B	644031
LB2 500-643681/1-C	Method Blank	TCLP	Solid	6010B	644031
LCS 500-644031/16-A	Lab Control Sample	Total/NA	Solid	6010B	644031
LCS 500-644031/2-A	Lab Control Sample	Total/NA	Solid	6010B	644031

Prep Batch: 644302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-21	2233V2-01-B13 (0-2.6)	Total/NA	Solid	3050B	
500-212294-22	2233V2-01-B12(0-3.2)	Total/NA	Solid	3050B	
MB 500-644302/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-644302/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 644508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-3	2233V2-01-B35 (0-2)	TCLP	Solid	6010B	644030
500-212294-4	2233V2-01-B34 (0-4)	TCLP	Solid	6010B	644030
500-212294-21	2233V2-01-B13 (0-2.6)	SPLP East	Solid	6010B	644034
500-212294-22	2233V2-01-B12(0-3.2)	SPLP East	Solid	6010B	644034
500-212294-22	2233V2-01-B12(0-3.2)	TCLP	Solid	6010B	644031
LB 500-643686/1-B	Method Blank	SPLP East	Solid	6010B	644034
LCS 500-644034/2-A	Lab Control Sample	Total/NA	Solid	6010B	644034

Analysis Batch: 644509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-1	2233V2-01-B37 (0-2)	SPLP East	Solid	6010B	644033
500-212294-1	2233V2-01-B37 (0-2)	Total/NA	Solid	6010B	644039

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Metals (Continued)

Analysis Batch: 644509 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-2	2233V2-01-B36 (0-2)	SPLP East	Solid	6010B	644033
500-212294-2	2233V2-01-B36 (0-2)	Total/NA	Solid	6010B	644039
500-212294-3	2233V2-01-B35 (0-2)	SPLP East	Solid	6010B	644033
500-212294-3	2233V2-01-B35 (0-2)	Total/NA	Solid	6010B	644039
500-212294-4	2233V2-01-B34 (0-4)	SPLP East	Solid	6010B	644033
500-212294-4	2233V2-01-B34 (0-4)	Total/NA	Solid	6010B	644039
500-212294-5	2233V2-01-B34 (4-8)	SPLP East	Solid	6010B	644033
500-212294-5	2233V2-01-B34 (4-8)	Total/NA	Solid	6010B	644039
500-212294-6	2233V2-01-B33 (0-4)	SPLP East	Solid	6010B	644033
500-212294-6	2233V2-01-B33 (0-4)	Total/NA	Solid	6010B	644039
500-212294-7	2233V2-01-B33 (4-8)	SPLP East	Solid	6010B	644033
500-212294-7	2233V2-01-B33 (4-8)	Total/NA	Solid	6010B	644039
500-212294-8	2233V2-01-B32 (0-4)	SPLP East	Solid	6010B	644033
500-212294-8	2233V2-01-B32 (0-4)	Total/NA	Solid	6010B	644039
500-212294-9	2233V2-01-B32 (4-8)	SPLP East	Solid	6010B	644033
500-212294-9	2233V2-01-B32 (4-8)	Total/NA	Solid	6010B	644039
500-212294-10	2233V2-01-B32 (4-8)D	SPLP East	Solid	6010B	644033
500-212294-10	2233V2-01-B32 (4-8)D	Total/NA	Solid	6010B	644039
500-212294-11	2233V2-01-B31 (0-4)	SPLP East	Solid	6010B	644033
500-212294-11	2233V2-01-B31 (0-4)	Total/NA	Solid	6010B	644039
500-212294-12	2233V2-01-B30 (0-4)	SPLP East	Solid	6010B	644033
500-212294-12	2233V2-01-B30 (0-4)	Total/NA	Solid	6010B	644039
500-212294-13	2233V2-01-B29 (0-4)	SPLP East	Solid	6010B	644033
500-212294-13	2233V2-01-B29 (0-4)	Total/NA	Solid	6010B	644039
500-212294-14	2233V2-01-B28 (0-5)	SPLP East	Solid	6010B	644033
500-212294-14	2233V2-01-B28 (0-5)	Total/NA	Solid	6010B	644039
500-212294-15	2233V2-01-B28 (5-10)	SPLP East	Solid	6010B	644033
500-212294-15	2233V2-01-B28 (5-10)	Total/NA	Solid	6010B	644039
500-212294-16	2233V2-01-B28 (10-15)	SPLP East	Solid	6010B	644033
500-212294-16	2233V2-01-B28 (10-15)	Total/NA	Solid	6010B	644039
500-212294-17	2233V2-01-B28 (15-20)	SPLP East	Solid	6010B	644033
500-212294-17	2233V2-01-B28 (15-20)	Total/NA	Solid	6010B	644039
500-212294-18	2233V2-01-B27 (0-4)	SPLP East	Solid	6010B	644033
500-212294-18	2233V2-01-B27 (0-4)	Total/NA	Solid	6010B	644039
500-212294-19	2233V2-01-B27 (4-8)	SPLP East	Solid	6010B	644033
500-212294-19	2233V2-01-B27 (4-8)	Total/NA	Solid	6010B	644039
500-212294-20	2233V2-01-B15 (0-3)	SPLP East	Solid	6010B	644033
500-212294-20	2233V2-01-B15 (0-3)	Total/NA	Solid	6010B	644039
LB 500-643685/1-B	Method Blank	SPLP East	Solid	6010B	644033
MB 500-644039/1-A	Method Blank	Total/NA	Solid	6010B	644039
LCS 500-644033/2-A	Lab Control Sample	Total/NA	Solid	6010B	644033
LCS 500-644039/2-A	Lab Control Sample	Total/NA	Solid	6010B	644039
500-212294-1 MS	2233V2-01-B37 (0-2)	SPLP East	Solid	6010B	644033
500-212294-1 MS	2233V2-01-B37 (0-2)	Total/NA	Solid	6010B	644039
500-212294-1 MSD	2233V2-01-B37 (0-2)	Total/NA	Solid	6010B	644039
500-212294-1 DU	2233V2-01-B37 (0-2)	SPLP East	Solid	6010B	644033
500-212294-1 DU	2233V2-01-B37 (0-2)	Total/NA	Solid	6010B	644039

Analysis Batch: 644645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-1	2233V2-01-B37 (0-2)	Total/NA	Solid	6010B	644039

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Metals (Continued)

Analysis Batch: 644645 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-2	2233V2-01-B36 (0-2)	Total/NA	Solid	6010B	644039
500-212294-3	2233V2-01-B35 (0-2)	Total/NA	Solid	6010B	644039
500-212294-3	2233V2-01-B35 (0-2)	Total/NA	Solid	6010B	644039
500-212294-4	2233V2-01-B34 (0-4)	Total/NA	Solid	6010B	644039
500-212294-4	2233V2-01-B34 (0-4)	Total/NA	Solid	6010B	644039
500-212294-5	2233V2-01-B34 (4-8)	Total/NA	Solid	6010B	644039
500-212294-5	2233V2-01-B34 (4-8)	Total/NA	Solid	6010B	644039
500-212294-6	2233V2-01-B33 (0-4)	Total/NA	Solid	6010B	644039
500-212294-6	2233V2-01-B33 (0-4)	Total/NA	Solid	6010B	644039
500-212294-7	2233V2-01-B33 (4-8)	Total/NA	Solid	6010B	644039
500-212294-7	2233V2-01-B33 (4-8)	Total/NA	Solid	6010B	644039
500-212294-8	2233V2-01-B32 (0-4)	Total/NA	Solid	6010B	644039
500-212294-8	2233V2-01-B32 (0-4)	Total/NA	Solid	6010B	644039
500-212294-9	2233V2-01-B32 (4-8)	Total/NA	Solid	6010B	644039
500-212294-9	2233V2-01-B32 (4-8)	Total/NA	Solid	6010B	644039
500-212294-10	2233V2-01-B32 (4-8)D	Total/NA	Solid	6010B	644039
500-212294-11	2233V2-01-B31 (0-4)	Total/NA	Solid	6010B	644039
500-212294-12	2233V2-01-B30 (0-4)	Total/NA	Solid	6010B	644039
500-212294-12	2233V2-01-B30 (0-4)	Total/NA	Solid	6010B	644039
500-212294-13	2233V2-01-B29 (0-4)	Total/NA	Solid	6010B	644039
500-212294-14	2233V2-01-B28 (0-5)	Total/NA	Solid	6010B	644039
500-212294-15	2233V2-01-B28 (5-10)	Total/NA	Solid	6010B	644039
500-212294-16	2233V2-01-B28 (10-15)	Total/NA	Solid	6010B	644039
500-212294-17	2233V2-01-B28 (15-20)	Total/NA	Solid	6010B	644039
500-212294-18	2233V2-01-B27 (0-4)	Total/NA	Solid	6010B	644039
500-212294-19	2233V2-01-B27 (4-8)	Total/NA	Solid	6010B	644039
500-212294-20	2233V2-01-B15 (0-3)	Total/NA	Solid	6010B	644039
MB 500-644039/1-A	Method Blank	Total/NA	Solid	6010B	644039
LCS 500-644039/2-A	Lab Control Sample	Total/NA	Solid	6010B	644039
500-212294-1 MS	2233V2-01-B37 (0-2)	Total/NA	Solid	6010B	644039
500-212294-1 MSD	2233V2-01-B37 (0-2)	Total/NA	Solid	6010B	644039
500-212294-1 DU	2233V2-01-B37 (0-2)	Total/NA	Solid	6010B	644039

Analysis Batch: 644656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-21	2233V2-01-B13 (0-2.6)	Total/NA	Solid	6010B	644302
500-212294-22	2233V2-01-B12(0-3.2)	Total/NA	Solid	6010B	644302
MB 500-644302/1-A	Method Blank	Total/NA	Solid	6010B	644302
LCS 500-644302/2-A	Lab Control Sample	Total/NA	Solid	6010B	644302

Analysis Batch: 644767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-21	2233V2-01-B13 (0-2.6)	Total/NA	Solid	6010B	644302
500-212294-22	2233V2-01-B12(0-3.2)	Total/NA	Solid	6010B	644302

Analysis Batch: 644768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-21	2233V2-01-B13 (0-2.6)	Total/NA	Solid	6010B	644302
500-212294-22	2233V2-01-B12(0-3.2)	Total/NA	Solid	6010B	644302

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Metals

Analysis Batch: 644872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-17	2233V2-01-B28 (15-20)	Total/NA	Solid	6010B	644039
500-212294-18	2233V2-01-B27 (0-4)	Total/NA	Solid	6010B	644039

General Chemistry

Analysis Batch: 642890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-1	2233V2-01-B37 (0-2)	Total/NA	Solid	Moisture	

Analysis Batch: 642937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-2	2233V2-01-B36 (0-2)	Total/NA	Solid	Moisture	
500-212294-3	2233V2-01-B35 (0-2)	Total/NA	Solid	Moisture	
500-212294-4	2233V2-01-B34 (0-4)	Total/NA	Solid	Moisture	
500-212294-5	2233V2-01-B34 (4-8)	Total/NA	Solid	Moisture	
500-212294-6	2233V2-01-B33 (0-4)	Total/NA	Solid	Moisture	
500-212294-7	2233V2-01-B33 (4-8)	Total/NA	Solid	Moisture	
500-212294-8	2233V2-01-B32 (0-4)	Total/NA	Solid	Moisture	
500-212294-9	2233V2-01-B32 (4-8)	Total/NA	Solid	Moisture	
500-212294-10	2233V2-01-B32 (4-8)D	Total/NA	Solid	Moisture	
500-212294-11	2233V2-01-B31 (0-4)	Total/NA	Solid	Moisture	
500-212294-12	2233V2-01-B30 (0-4)	Total/NA	Solid	Moisture	
500-212294-13	2233V2-01-B29 (0-4)	Total/NA	Solid	Moisture	
500-212294-14	2233V2-01-B28 (0-5)	Total/NA	Solid	Moisture	
500-212294-15	2233V2-01-B28 (5-10)	Total/NA	Solid	Moisture	
500-212294-16	2233V2-01-B28 (10-15)	Total/NA	Solid	Moisture	
500-212294-17	2233V2-01-B28 (15-20)	Total/NA	Solid	Moisture	
500-212294-18	2233V2-01-B27 (0-4)	Total/NA	Solid	Moisture	
500-212294-19	2233V2-01-B27 (4-8)	Total/NA	Solid	Moisture	
500-212294-20	2233V2-01-B15 (0-3)	Total/NA	Solid	Moisture	
500-212294-21	2233V2-01-B13 (0-2.6)	Total/NA	Solid	Moisture	
500-212294-18 DU	2233V2-01-B27 (0-4)	Total/NA	Solid	Moisture	

Analysis Batch: 642976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-22	2233V2-01-B12(0-3.2)	Total/NA	Solid	Moisture	
500-212294-22 DU	2233V2-01-B12(0-3.2)	Total/NA	Solid	Moisture	

Analysis Batch: 643084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-1	2233V2-01-B37 (0-2)	Total/NA	Solid	9045D	
500-212294-2	2233V2-01-B36 (0-2)	Total/NA	Solid	9045D	
500-212294-3	2233V2-01-B35 (0-2)	Total/NA	Solid	9045D	
500-212294-4	2233V2-01-B34 (0-4)	Total/NA	Solid	9045D	
500-212294-5	2233V2-01-B34 (4-8)	Total/NA	Solid	9045D	
500-212294-6	2233V2-01-B33 (0-4)	Total/NA	Solid	9045D	
500-212294-7	2233V2-01-B33 (4-8)	Total/NA	Solid	9045D	
500-212294-8	2233V2-01-B32 (0-4)	Total/NA	Solid	9045D	
500-212294-9	2233V2-01-B32 (4-8)	Total/NA	Solid	9045D	
500-212294-10	2233V2-01-B32 (4-8)D	Total/NA	Solid	9045D	
500-212294-11	2233V2-01-B31 (0-4)	Total/NA	Solid	9045D	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

General Chemistry (Continued)

Analysis Batch: 643084 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212294-12	2233V2-01-B30 (0-4)	Total/NA	Solid	9045D	
500-212294-13	2233V2-01-B29 (0-4)	Total/NA	Solid	9045D	
500-212294-14	2233V2-01-B28 (0-5)	Total/NA	Solid	9045D	
500-212294-15	2233V2-01-B28 (5-10)	Total/NA	Solid	9045D	
500-212294-16	2233V2-01-B28 (10-15)	Total/NA	Solid	9045D	
500-212294-17	2233V2-01-B28 (15-20)	Total/NA	Solid	9045D	
500-212294-18	2233V2-01-B27 (0-4)	Total/NA	Solid	9045D	
500-212294-19	2233V2-01-B27 (4-8)	Total/NA	Solid	9045D	
500-212294-20	2233V2-01-B15 (0-3)	Total/NA	Solid	9045D	
500-212294-21	2233V2-01-B13 (0-2.6)	Total/NA	Solid	9045D	
500-212294-22	2233V2-01-B12(0-3.2)	Total/NA	Solid	9045D	
LCS 500-643084/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-643084/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-212294-16 DU	2233V2-01-B28 (10-15)	Total/NA	Solid	9045D	

Surrogate Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-212294-1	2233V2-01-B37 (0-2)	117	117	113	116
500-212294-2	2233V2-01-B36 (0-2)	112	117	116	113
500-212294-3	2233V2-01-B35 (0-2)	116	115	115	116
500-212294-4	2233V2-01-B34 (0-4)	114	116	114	117
500-212294-5	2233V2-01-B34 (4-8)	115	119	116	112
500-212294-6	2233V2-01-B33 (0-4)	110	118	111	113
500-212294-7	2233V2-01-B33 (4-8)	112	119	114	113
500-212294-8	2233V2-01-B32 (0-4)	113	120	118	114
500-212294-9	2233V2-01-B32 (4-8)	115	119	113	114
500-212294-10	2233V2-01-B32 (4-8)D	115	118	114	111
500-212294-11	2233V2-01-B31 (0-4)	114	117	115	112
500-212294-12	2233V2-01-B30 (0-4)	112	121	119	113
500-212294-13	2233V2-01-B29 (0-4)	118	116	116	112
500-212294-14	2233V2-01-B28 (0-5)	111	118	115	116
500-212294-15	2233V2-01-B28 (5-10)	115	119	117	113
500-212294-16	2233V2-01-B28 (10-15)	110	119	114	113
500-212294-17	2233V2-01-B28 (15-20)	109	117	111	112
500-212294-18	2233V2-01-B27 (0-4)	127	98	98	103
500-212294-19	2233V2-01-B27 (4-8)	119 *3	111	116	110
500-212294-20	2233V2-01-B15 (0-3)	113	110	117	106
500-212294-21	2233V2-01-B13 (0-2.6)	105	110	118	106
500-212294-22	2233V2-01-B12(0-3.2)	111	110	113	108
LCS 500-643734/4	Lab Control Sample	108	115	104	121
LCS 500-643739/5	Lab Control Sample	89	105	107	106
LCS 500-643993/28	Lab Control Sample	101	101	94	98
LCSD 500-643734/5	Lab Control Sample Dup	109	116	104	119
LCSD 500-643739/6	Lab Control Sample Dup	90	104	109	107
LCSD 500-643993/5	Lab Control Sample Dup	107	97	93	95
MB 500-643734/7	Method Blank	107	115	104	115
MB 500-643739/8	Method Blank	103	105	111	107
MB 500-643993/7	Method Blank	111	107	102	91

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (31-166)	PHL (30-153)	NBZ (37-147)	FBP (43-145)	TBP (31-143)	TPHL (42-157)
500-212294-1	2233V2-01-B37 (0-2)	112	88	81	80	83	103
500-212294-1 MS	2233V2-01-B37 (0-2)	118	110	85	84	79	101
500-212294-1 MSD	2233V2-01-B37 (0-2)	115	107	79	75	73	94
500-212294-2	2233V2-01-B36 (0-2)	104	75	75	78	78	103
500-212294-3	2233V2-01-B35 (0-2)	113	105	83	83	80	108
500-212294-4	2233V2-01-B34 (0-4)	108	103	80	83	79	106

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Surrogate Summary

Client: WSP USA Inc.

Job ID: 500-212294-1

Project/Site: IDOT - 196-002-WO003 Joliet

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (31-166)	PHL (30-153)	NBZ (37-147)	FBP (43-145)	TBP (31-143)	TPHL (42-157)
500-212294-5	2233V2-01-B34 (4-8)	107	99	77	82	77	109
500-212294-6	2233V2-01-B33 (0-4)	101	98	65	72	78	116
500-212294-7	2233V2-01-B33 (4-8)	99	95	73	74	71	114
500-212294-8	2233V2-01-B32 (0-4)	101	92	72	79	72	111
500-212294-9	2233V2-01-B32 (4-8)	120	113	70	75	63	84
500-212294-10	2233V2-01-B32 (4-8)D	113	70	76	80	70	114
500-212294-11	2233V2-01-B31 (0-4)	107	83	83	85	69	117
500-212294-12	2233V2-01-B30 (0-4)	100	97	79	83	75	121
500-212294-13	2233V2-01-B29 (0-4)	91	94	73	75	60	120
500-212294-14	2233V2-01-B28 (0-5)	93	91	67	81	71	101
500-212294-15	2233V2-01-B28 (5-10)	77	69	78	91	102	82
500-212294-16	2233V2-01-B28 (10-15)	80	69	78	83	105	88
500-212294-17	2233V2-01-B28 (15-20)	84	69	86	91	104	90
500-212294-18	2233V2-01-B27 (0-4)	78	64	76	91	103	97
500-212294-18 - DL	2233V2-01-B27 (0-4)	122	78	65	84	74	87
500-212294-19	2233V2-01-B27 (4-8)	86	70	87	96	104	92
500-212294-20	2233V2-01-B15 (0-3)	87	51	92	98	107	98
500-212294-21	2233V2-01-B13 (0-2.6)	94	94	63	67	69	84
500-212294-22	2233V2-01-B12(0-3.2)	75	73	51	56	61	79
LCS 500-643085/2-A	Lab Control Sample	87	88	96	103	104	90
LCS 500-643829/2-A	Lab Control Sample	133	121	96	93	83	108
MB 500-643085/1-A	Method Blank	76	68	72	79	76	84
MB 500-643829/1-A	Method Blank	130	108	92	91	66	107

Surrogate Legend

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

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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

Lab Sample ID: MB 500-643734/7
Matrix: Solid
Analysis Batch: 643734

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			02/22/22 11:18	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			02/22/22 11:18	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			02/22/22 11:18	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			02/22/22 11:18	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			02/22/22 11:18	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			02/22/22 11:18	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			02/22/22 11:18	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			02/22/22 11:18	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			02/22/22 11:18	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			02/22/22 11:18	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			02/22/22 11:18	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			02/22/22 11:18	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			02/22/22 11:18	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			02/22/22 11:18	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			02/22/22 11:18	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			02/22/22 11:18	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			02/22/22 11:18	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			02/22/22 11:18	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			02/22/22 11:18	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			02/22/22 11:18	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			02/22/22 11:18	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/22/22 11:18	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			02/22/22 11:18	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			02/22/22 11:18	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			02/22/22 11:18	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			02/22/22 11:18	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			02/22/22 11:18	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/22/22 11:18	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			02/22/22 11:18	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			02/22/22 11:18	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			02/22/22 11:18	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			02/22/22 11:18	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			02/22/22 11:18	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/22/22 11:18	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			02/22/22 11:18	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			02/22/22 11:18	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			02/22/22 11:18	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	107		75 - 131		02/22/22 11:18	1
Dibromofluoromethane	115		75 - 126		02/22/22 11:18	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134		02/22/22 11:18	1
Toluene-d8 (Surr)	115		75 - 124		02/22/22 11:18	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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

Lab Sample ID: LCS 500-643734/4
Matrix: Solid
Analysis Batch: 643734

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0504		mg/Kg		101	40 - 150
Benzene	0.0500	0.0439		mg/Kg		88	70 - 125
Bromodichloromethane	0.0500	0.0416		mg/Kg		83	67 - 129
Bromoform	0.0500	0.0407		mg/Kg		81	68 - 136
Bromomethane	0.0500	0.0530		mg/Kg		106	70 - 130
2-Butanone (MEK)	0.0500	0.0401		mg/Kg		80	47 - 138
Carbon disulfide	0.0500	0.0449		mg/Kg		90	70 - 129
Carbon tetrachloride	0.0500	0.0467		mg/Kg		93	75 - 125
Chlorobenzene	0.0500	0.0441		mg/Kg		88	50 - 150
Chloroethane	0.0500	0.0521		mg/Kg		104	75 - 125
Chloroform	0.0500	0.0435		mg/Kg		87	57 - 135
Chloromethane	0.0500	0.0445		mg/Kg		89	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0453		mg/Kg		91	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0422		mg/Kg		84	70 - 125
Dibromochloromethane	0.0500	0.0435		mg/Kg		87	69 - 125
1,1-Dichloroethane	0.0500	0.0450		mg/Kg		90	70 - 125
1,2-Dichloroethane	0.0500	0.0406		mg/Kg		81	70 - 130
1,1-Dichloroethene	0.0500	0.0456		mg/Kg		91	70 - 120
1,2-Dichloropropane	0.0500	0.0410		mg/Kg		82	70 - 125
Ethylbenzene	0.0500	0.0462		mg/Kg		92	61 - 136
2-Hexanone	0.0500	0.0371		mg/Kg		74	48 - 146
Methylene Chloride	0.0500	0.0459		mg/Kg		92	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0375		mg/Kg		75	50 - 148
Methyl tert-butyl ether	0.0500	0.0402		mg/Kg		80	50 - 140
Styrene	0.0500	0.0436		mg/Kg		87	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0419		mg/Kg		84	70 - 122
Tetrachloroethene	0.0500	0.0480		mg/Kg		96	70 - 124
Toluene	0.0500	0.0456		mg/Kg		91	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0459		mg/Kg		92	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0412		mg/Kg		82	70 - 125
1,1,1-Trichloroethane	0.0500	0.0462		mg/Kg		92	70 - 128
1,1,2-Trichloroethane	0.0500	0.0426		mg/Kg		85	70 - 125
Trichloroethene	0.0500	0.0458		mg/Kg		92	70 - 125
Vinyl acetate	0.0500	0.0378		mg/Kg		76	40 - 153
Vinyl chloride	0.0500	0.0493		mg/Kg		99	70 - 125
Xylenes, Total	0.100	0.0893		mg/Kg		89	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	108		75 - 131
Dibromofluoromethane	115		75 - 126
1,2-Dichloroethane-d4 (Surr)	104		70 - 134
Toluene-d8 (Surr)	121		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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

Lab Sample ID: LCSD 500-643734/5
Matrix: Solid
Analysis Batch: 643734

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0368	*1	mg/Kg		74	40 - 150	31	30
Benzene	0.0500	0.0417		mg/Kg		83	70 - 125	5	30
Bromodichloromethane	0.0500	0.0392		mg/Kg		78	67 - 129	6	30
Bromoform	0.0500	0.0394		mg/Kg		79	68 - 136	3	30
Bromomethane	0.0500	0.0422		mg/Kg		84	70 - 130	23	30
2-Butanone (MEK)	0.0500	0.0381		mg/Kg		76	47 - 138	5	30
Carbon disulfide	0.0500	0.0423		mg/Kg		85	70 - 129	6	30
Carbon tetrachloride	0.0500	0.0440		mg/Kg		88	75 - 125	6	30
Chlorobenzene	0.0500	0.0413		mg/Kg		83	50 - 150	7	30
Chloroethane	0.0500	0.0453		mg/Kg		91	75 - 125	14	30
Chloroform	0.0500	0.0411		mg/Kg		82	57 - 135	6	30
Chloromethane	0.0500	0.0390		mg/Kg		78	70 - 125	13	30
cis-1,2-Dichloroethene	0.0500	0.0427		mg/Kg		85	70 - 125	6	30
cis-1,3-Dichloropropene	0.0500	0.0402		mg/Kg		80	70 - 125	5	30
Dibromochloromethane	0.0500	0.0421		mg/Kg		84	69 - 125	3	30
1,1-Dichloroethane	0.0500	0.0423		mg/Kg		85	70 - 125	6	30
1,2-Dichloroethane	0.0500	0.0386		mg/Kg		77	70 - 130	5	30
1,1-Dichloroethene	0.0500	0.0424		mg/Kg		85	70 - 120	7	30
1,2-Dichloropropane	0.0500	0.0389		mg/Kg		78	70 - 125	5	30
Ethylbenzene	0.0500	0.0418		mg/Kg		84	61 - 136	10	30
2-Hexanone	0.0500	0.0376		mg/Kg		75	48 - 146	2	30
Methylene Chloride	0.0500	0.0437		mg/Kg		87	70 - 126	5	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0396		mg/Kg		79	50 - 148	5	30
Methyl tert-butyl ether	0.0500	0.0405		mg/Kg		81	50 - 140	1	30
Styrene	0.0500	0.0407		mg/Kg		81	70 - 125	7	30
1,1,2,2-Tetrachloroethane	0.0500	0.0397		mg/Kg		79	70 - 122	5	30
Tetrachloroethene	0.0500	0.0442		mg/Kg		88	70 - 124	8	30
Toluene	0.0500	0.0422		mg/Kg		84	70 - 125	8	30
trans-1,2-Dichloroethene	0.0500	0.0438		mg/Kg		88	70 - 125	5	30
trans-1,3-Dichloropropene	0.0500	0.0395		mg/Kg		79	70 - 125	4	30
1,1,1-Trichloroethane	0.0500	0.0434		mg/Kg		87	70 - 128	6	30
1,1,2-Trichloroethane	0.0500	0.0411		mg/Kg		82	70 - 125	4	30
Trichloroethene	0.0500	0.0427		mg/Kg		85	70 - 125	7	30
Vinyl acetate	0.0500	0.0338		mg/Kg		68	40 - 153	11	30
Vinyl chloride	0.0500	0.0434		mg/Kg		87	70 - 125	13	30
Xylenes, Total	0.100	0.0822		mg/Kg		82	53 - 147	8	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	109		75 - 131
Dibromofluoromethane	116		75 - 126
1,2-Dichloroethane-d4 (Surr)	104		70 - 134
Toluene-d8 (Surr)	119		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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

Lab Sample ID: MB 500-643739/8
Matrix: Solid
Analysis Batch: 643739

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			02/22/22 11:37	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			02/22/22 11:37	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			02/22/22 11:37	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			02/22/22 11:37	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			02/22/22 11:37	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			02/22/22 11:37	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			02/22/22 11:37	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			02/22/22 11:37	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			02/22/22 11:37	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			02/22/22 11:37	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			02/22/22 11:37	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			02/22/22 11:37	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			02/22/22 11:37	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			02/22/22 11:37	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			02/22/22 11:37	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			02/22/22 11:37	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			02/22/22 11:37	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			02/22/22 11:37	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			02/22/22 11:37	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			02/22/22 11:37	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			02/22/22 11:37	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/22/22 11:37	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			02/22/22 11:37	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			02/22/22 11:37	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			02/22/22 11:37	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			02/22/22 11:37	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			02/22/22 11:37	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/22/22 11:37	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			02/22/22 11:37	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			02/22/22 11:37	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			02/22/22 11:37	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			02/22/22 11:37	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			02/22/22 11:37	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/22/22 11:37	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			02/22/22 11:37	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			02/22/22 11:37	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			02/22/22 11:37	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	103		75 - 131		02/22/22 11:37	1
Dibromofluoromethane	105		75 - 126		02/22/22 11:37	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134		02/22/22 11:37	1
Toluene-d8 (Surr)	107		75 - 124		02/22/22 11:37	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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

Lab Sample ID: LCS 500-643739/5
Matrix: Solid
Analysis Batch: 643739

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0425		mg/Kg		85	40 - 150
Benzene	0.0500	0.0432		mg/Kg		86	70 - 125
Bromodichloromethane	0.0500	0.0451		mg/Kg		90	67 - 129
Bromoform	0.0500	0.0481		mg/Kg		96	68 - 136
Bromomethane	0.0500	0.0776	*+	mg/Kg		155	70 - 130
2-Butanone (MEK)	0.0500	0.0370		mg/Kg		74	47 - 138
Carbon disulfide	0.0500	0.0438		mg/Kg		88	70 - 129
Carbon tetrachloride	0.0500	0.0466		mg/Kg		93	75 - 125
Chlorobenzene	0.0500	0.0435		mg/Kg		87	50 - 150
Chloroethane	0.0500	0.0576		mg/Kg		115	75 - 125
Chloroform	0.0500	0.0442		mg/Kg		88	57 - 135
Chloromethane	0.0500	0.0303	*-	mg/Kg		61	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0431		mg/Kg		86	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0425		mg/Kg		85	70 - 125
Dibromochloromethane	0.0500	0.0465		mg/Kg		93	69 - 125
1,1-Dichloroethane	0.0500	0.0398		mg/Kg		80	70 - 125
1,2-Dichloroethane	0.0500	0.0464		mg/Kg		93	70 - 130
1,1-Dichloroethene	0.0500	0.0463		mg/Kg		93	70 - 120
1,2-Dichloropropane	0.0500	0.0403		mg/Kg		81	70 - 125
Ethylbenzene	0.0500	0.0440		mg/Kg		88	61 - 136
2-Hexanone	0.0500	0.0344		mg/Kg		69	48 - 146
Methylene Chloride	0.0500	0.0427		mg/Kg		85	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0353		mg/Kg		71	50 - 148
Methyl tert-butyl ether	0.0500	0.0442		mg/Kg		88	50 - 140
Styrene	0.0500	0.0464		mg/Kg		93	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0422		mg/Kg		84	70 - 122
Tetrachloroethene	0.0500	0.0451		mg/Kg		90	70 - 124
Toluene	0.0500	0.0450		mg/Kg		90	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0450		mg/Kg		90	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0438		mg/Kg		88	70 - 125
1,1,1-Trichloroethane	0.0500	0.0467		mg/Kg		93	70 - 128
1,1,2-Trichloroethane	0.0500	0.0477		mg/Kg		95	70 - 125
Trichloroethene	0.0500	0.0445		mg/Kg		89	70 - 125
Vinyl acetate	0.0500	0.0325		mg/Kg		65	40 - 153
Vinyl chloride	0.0500	0.0409		mg/Kg		82	70 - 125
Xylenes, Total	0.100	0.0917		mg/Kg		92	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	89		75 - 131
Dibromofluoromethane	105		75 - 126
1,2-Dichloroethane-d4 (Surr)	107		70 - 134
Toluene-d8 (Surr)	106		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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

Lab Sample ID: LCSD 500-643739/6
Matrix: Solid
Analysis Batch: 643739

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0517		mg/Kg		103	40 - 150	19	30
Benzene	0.0500	0.0457		mg/Kg		91	70 - 125	6	30
Bromodichloromethane	0.0500	0.0486		mg/Kg		97	67 - 129	8	30
Bromoform	0.0500	0.0547		mg/Kg		109	68 - 136	13	30
Bromomethane	0.0500	0.0888	*+	mg/Kg		178	70 - 130	13	30
2-Butanone (MEK)	0.0500	0.0455		mg/Kg		91	47 - 138	21	30
Carbon disulfide	0.0500	0.0465		mg/Kg		93	70 - 129	6	30
Carbon tetrachloride	0.0500	0.0499		mg/Kg		100	75 - 125	7	30
Chlorobenzene	0.0500	0.0469		mg/Kg		94	50 - 150	8	30
Chloroethane	0.0500	0.0549		mg/Kg		110	75 - 125	5	30
Chloroform	0.0500	0.0474		mg/Kg		95	57 - 135	7	30
Chloromethane	0.0500	0.0319	*-	mg/Kg		64	70 - 125	5	30
cis-1,2-Dichloroethene	0.0500	0.0466		mg/Kg		93	70 - 125	8	30
cis-1,3-Dichloropropene	0.0500	0.0466		mg/Kg		93	70 - 125	9	30
Dibromochloromethane	0.0500	0.0520		mg/Kg		104	69 - 125	11	30
1,1-Dichloroethane	0.0500	0.0422		mg/Kg		84	70 - 125	6	30
1,2-Dichloroethane	0.0500	0.0494		mg/Kg		99	70 - 130	6	30
1,1-Dichloroethene	0.0500	0.0495		mg/Kg		99	70 - 120	7	30
1,2-Dichloropropane	0.0500	0.0422		mg/Kg		84	70 - 125	5	30
Ethylbenzene	0.0500	0.0475		mg/Kg		95	61 - 136	8	30
2-Hexanone	0.0500	0.0472	*1	mg/Kg		94	48 - 146	31	30
Methylene Chloride	0.0500	0.0454		mg/Kg		91	70 - 126	6	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0452		mg/Kg		90	50 - 148	25	30
Methyl tert-butyl ether	0.0500	0.0493		mg/Kg		99	50 - 140	11	30
Styrene	0.0500	0.0500		mg/Kg		100	70 - 125	7	30
1,1,2,2-Tetrachloroethane	0.0500	0.0479		mg/Kg		96	70 - 122	13	30
Tetrachloroethene	0.0500	0.0485		mg/Kg		97	70 - 124	7	30
Toluene	0.0500	0.0477		mg/Kg		95	70 - 125	6	30
trans-1,2-Dichloroethene	0.0500	0.0478		mg/Kg		96	70 - 125	6	30
trans-1,3-Dichloropropene	0.0500	0.0485		mg/Kg		97	70 - 125	10	30
1,1,1-Trichloroethane	0.0500	0.0506		mg/Kg		101	70 - 128	8	30
1,1,2-Trichloroethane	0.0500	0.0532		mg/Kg		106	70 - 125	11	30
Trichloroethene	0.0500	0.0477		mg/Kg		95	70 - 125	7	30
Vinyl acetate	0.0500	0.0417		mg/Kg		83	40 - 153	25	30
Vinyl chloride	0.0500	0.0425		mg/Kg		85	70 - 125	4	30
Xylenes, Total	0.100	0.0986		mg/Kg		99	53 - 147	7	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	90		75 - 131
Dibromofluoromethane	104		75 - 126
1,2-Dichloroethane-d4 (Surr)	109		70 - 134
Toluene-d8 (Surr)	107		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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

Lab Sample ID: MB 500-643993/7
Matrix: Solid
Analysis Batch: 643993

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			02/23/22 11:24	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			02/23/22 11:24	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			02/23/22 11:24	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			02/23/22 11:24	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			02/23/22 11:24	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			02/23/22 11:24	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			02/23/22 11:24	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			02/23/22 11:24	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			02/23/22 11:24	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			02/23/22 11:24	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			02/23/22 11:24	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			02/23/22 11:24	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			02/23/22 11:24	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			02/23/22 11:24	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			02/23/22 11:24	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			02/23/22 11:24	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			02/23/22 11:24	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			02/23/22 11:24	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			02/23/22 11:24	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			02/23/22 11:24	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			02/23/22 11:24	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/23/22 11:24	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			02/23/22 11:24	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			02/23/22 11:24	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			02/23/22 11:24	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			02/23/22 11:24	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			02/23/22 11:24	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/23/22 11:24	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			02/23/22 11:24	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			02/23/22 11:24	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			02/23/22 11:24	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			02/23/22 11:24	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			02/23/22 11:24	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/23/22 11:24	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			02/23/22 11:24	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			02/23/22 11:24	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			02/23/22 11:24	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	111		75 - 131		02/23/22 11:24	1
Dibromofluoromethane	107		75 - 126		02/23/22 11:24	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		02/23/22 11:24	1
Toluene-d8 (Surr)	91		75 - 124		02/23/22 11:24	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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

Lab Sample ID: LCS 500-643993/28

Matrix: Solid

Analysis Batch: 643993

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0496		mg/Kg		99	40 - 150
Benzene	0.0500	0.0491		mg/Kg		98	70 - 125
Bromodichloromethane	0.0500	0.0509		mg/Kg		102	67 - 129
Bromoform	0.0500	0.0566		mg/Kg		113	68 - 136
Bromomethane	0.0500	0.0417		mg/Kg		83	70 - 130
2-Butanone (MEK)	0.0500	0.0472		mg/Kg		94	47 - 138
Carbon disulfide	0.0500	0.0467		mg/Kg		93	70 - 129
Carbon tetrachloride	0.0500	0.0524		mg/Kg		105	75 - 125
Chlorobenzene	0.0500	0.0533		mg/Kg		107	50 - 150
Chloroethane	0.0500	0.0459		mg/Kg		92	75 - 125
Chloroform	0.0500	0.0549		mg/Kg		110	57 - 135
Chloromethane	0.0500	0.0421		mg/Kg		84	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0503		mg/Kg		101	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0489		mg/Kg		98	70 - 125
Dibromochloromethane	0.0500	0.0532		mg/Kg		106	69 - 125
1,1-Dichloroethane	0.0500	0.0510		mg/Kg		102	70 - 125
1,2-Dichloroethane	0.0500	0.0531		mg/Kg		106	70 - 130
1,1-Dichloroethene	0.0500	0.0493		mg/Kg		99	70 - 120
1,2-Dichloropropane	0.0500	0.0471		mg/Kg		94	70 - 125
Ethylbenzene	0.0500	0.0524		mg/Kg		105	61 - 136
2-Hexanone	0.0500	0.0433		mg/Kg		87	48 - 146
Methylene Chloride	0.0500	0.0499		mg/Kg		100	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0435		mg/Kg		87	50 - 148
Methyl tert-butyl ether	0.0500	0.0473		mg/Kg		95	50 - 140
Styrene	0.0500	0.0513		mg/Kg		103	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0523		mg/Kg		105	70 - 122
Tetrachloroethene	0.0500	0.0544		mg/Kg		109	70 - 124
Toluene	0.0500	0.0506		mg/Kg		101	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0496		mg/Kg		99	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0478		mg/Kg		96	70 - 125
1,1,1-Trichloroethane	0.0500	0.0521		mg/Kg		104	70 - 128
1,1,2-Trichloroethane	0.0500	0.0504		mg/Kg		101	70 - 125
Trichloroethene	0.0500	0.0512		mg/Kg		102	70 - 125
Vinyl acetate	0.0500	0.0404		mg/Kg		81	40 - 153
Vinyl chloride	0.0500	0.0458		mg/Kg		92	70 - 125
Xylenes, Total	0.100	0.105		mg/Kg		105	53 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		75 - 131
Dibromofluoromethane	101		75 - 126
1,2-Dichloroethane-d4 (Surr)	94		70 - 134
Toluene-d8 (Surr)	98		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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

Lab Sample ID: LCSD 500-643993/5
Matrix: Solid
Analysis Batch: 643993

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0513		mg/Kg		103	40 - 150	3	30
Benzene	0.0500	0.0530		mg/Kg		106	70 - 125	8	30
Bromodichloromethane	0.0500	0.0567		mg/Kg		113	67 - 129	11	30
Bromoform	0.0500	0.0582		mg/Kg		116	68 - 136	3	30
Bromomethane	0.0500	0.0444		mg/Kg		89	70 - 130	6	30
2-Butanone (MEK)	0.0500	0.0502		mg/Kg		100	47 - 138	6	30
Carbon disulfide	0.0500	0.0525		mg/Kg		105	70 - 129	12	30
Carbon tetrachloride	0.0500	0.0599		mg/Kg		120	75 - 125	14	30
Chlorobenzene	0.0500	0.0572		mg/Kg		114	50 - 150	7	30
Chloroethane	0.0500	0.0486		mg/Kg		97	75 - 125	6	30
Chloroform	0.0500	0.0582		mg/Kg		116	57 - 135	6	30
Chloromethane	0.0500	0.0431		mg/Kg		86	70 - 125	2	30
cis-1,2-Dichloroethene	0.0500	0.0544		mg/Kg		109	70 - 125	8	30
cis-1,3-Dichloropropene	0.0500	0.0518		mg/Kg		104	70 - 125	6	30
Dibromochloromethane	0.0500	0.0554		mg/Kg		111	69 - 125	4	30
1,1-Dichloroethane	0.0500	0.0553		mg/Kg		111	70 - 125	8	30
1,2-Dichloroethane	0.0500	0.0572		mg/Kg		114	70 - 130	8	30
1,1-Dichloroethene	0.0500	0.0553		mg/Kg		111	70 - 120	11	30
1,2-Dichloropropane	0.0500	0.0538		mg/Kg		108	70 - 125	13	30
Ethylbenzene	0.0500	0.0570		mg/Kg		114	61 - 136	8	30
2-Hexanone	0.0500	0.0459		mg/Kg		92	48 - 146	6	30
Methylene Chloride	0.0500	0.0548		mg/Kg		110	70 - 126	9	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0434		mg/Kg		87	50 - 148	0	30
Methyl tert-butyl ether	0.0500	0.0524		mg/Kg		105	50 - 140	10	30
Styrene	0.0500	0.0548		mg/Kg		110	70 - 125	7	30
1,1,2,2-Tetrachloroethane	0.0500	0.0577		mg/Kg		115	70 - 122	10	30
Tetrachloroethene	0.0500	0.0613		mg/Kg		123	70 - 124	12	30
Toluene	0.0500	0.0534		mg/Kg		107	70 - 125	5	30
trans-1,2-Dichloroethene	0.0500	0.0554		mg/Kg		111	70 - 125	11	30
trans-1,3-Dichloropropene	0.0500	0.0526		mg/Kg		105	70 - 125	9	30
1,1,1-Trichloroethane	0.0500	0.0599		mg/Kg		120	70 - 128	14	30
1,1,2-Trichloroethane	0.0500	0.0554		mg/Kg		111	70 - 125	9	30
Trichloroethene	0.0500	0.0571		mg/Kg		114	70 - 125	11	30
Vinyl acetate	0.0500	0.0376		mg/Kg		75	40 - 153	7	30
Vinyl chloride	0.0500	0.0481		mg/Kg		96	70 - 125	5	30
Xylenes, Total	0.100	0.111		mg/Kg		111	53 - 147	6	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	107		75 - 131
Dibromofluoromethane	97		75 - 126
1,2-Dichloroethane-d4 (Surr)	93		70 - 134
Toluene-d8 (Surr)	95		75 - 124

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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

Lab Sample ID: MB 500-643085/1-A
Matrix: Solid
Analysis Batch: 643375

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 643085

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/18/22 06:07	02/20/22 11:53	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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

Lab Sample ID: MB 500-643085/1-A
Matrix: Solid
Analysis Batch: 643375

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 643085

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/18/22 06:07	02/20/22 11:53	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/18/22 06:07	02/20/22 11:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	76		31 - 166	02/18/22 06:07	02/20/22 11:53	1
Phenol-d5	68		30 - 153	02/18/22 06:07	02/20/22 11:53	1
Nitrobenzene-d5 (Surr)	72		37 - 147	02/18/22 06:07	02/20/22 11:53	1
2-Fluorobiphenyl (Surr)	79		43 - 145	02/18/22 06:07	02/20/22 11:53	1
2,4,6-Tribromophenol	76		31 - 143	02/18/22 06:07	02/20/22 11:53	1
Terphenyl-d14 (Surr)	84		42 - 157	02/18/22 06:07	02/20/22 11:53	1

Lab Sample ID: LCS 500-643085/2-A
Matrix: Solid
Analysis Batch: 643375

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643085

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.08		mg/Kg		81	56 - 122
Bis(2-chloroethyl)ether	1.33	1.04		mg/Kg		78	55 - 111
1,3-Dichlorobenzene	1.33	1.04		mg/Kg		78	65 - 124
1,4-Dichlorobenzene	1.33	1.05		mg/Kg		79	61 - 110
1,2-Dichlorobenzene	1.33	1.06		mg/Kg		79	62 - 110
2-Methylphenol	1.33	1.22		mg/Kg		91	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.05		mg/Kg		79	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.12		mg/Kg		84	56 - 118
Hexachloroethane	1.33	0.994		mg/Kg		75	60 - 114
2-Chlorophenol	1.33	1.07		mg/Kg		80	64 - 110
Nitrobenzene	1.33	1.10		mg/Kg		83	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.12		mg/Kg		84	60 - 112
1,2,4-Trichlorobenzene	1.33	1.24		mg/Kg		93	66 - 117
Isophorone	1.33	1.14		mg/Kg		85	55 - 110
2,4-Dimethylphenol	1.33	1.02		mg/Kg		76	60 - 110
Hexachlorobutadiene	1.33	1.48		mg/Kg		111	56 - 120
Naphthalene	1.33	1.14		mg/Kg		85	63 - 110
2,4-Dichlorophenol	1.33	1.19		mg/Kg		89	58 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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

Lab Sample ID: LCS 500-643085/2-A
Matrix: Solid
Analysis Batch: 643375

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643085

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	0.707		mg/Kg		53	30 - 150
2,4,6-Trichlorophenol	1.33	1.24		mg/Kg		93	57 - 120
2,4,5-Trichlorophenol	1.33	1.40		mg/Kg		105	50 - 120
Hexachlorocyclopentadiene	1.33	0.518	J	mg/Kg		39	10 - 133
2-Methylnaphthalene	1.33	1.22		mg/Kg		91	69 - 112
2-Nitroaniline	1.33	1.08		mg/Kg		81	57 - 124
2-Chloronaphthalene	1.33	1.13		mg/Kg		85	69 - 114
4-Chloro-3-methylphenol	1.33	1.02		mg/Kg		76	65 - 122
2,6-Dinitrotoluene	1.33	1.19		mg/Kg		89	70 - 123
2-Nitrophenol	1.33	1.17		mg/Kg		88	60 - 120
3-Nitroaniline	1.33	0.677		mg/Kg		51	40 - 122
Dimethyl phthalate	1.33	1.19		mg/Kg		89	69 - 116
2,4-Dinitrophenol	2.67	1.47		mg/Kg		55	10 - 100
Acenaphthylene	1.33	1.17		mg/Kg		87	68 - 120
2,4-Dinitrotoluene	1.33	1.30		mg/Kg		97	69 - 124
Acenaphthene	1.33	1.10		mg/Kg		82	65 - 124
Dibenzofuran	1.33	1.25		mg/Kg		93	66 - 115
4-Nitrophenol	2.67	1.85		mg/Kg		69	30 - 122
Fluorene	1.33	1.14		mg/Kg		86	62 - 120
4-Nitroaniline	1.33	0.990		mg/Kg		74	60 - 160
4-Bromophenyl phenyl ether	1.33	1.30		mg/Kg		97	68 - 118
Hexachlorobenzene	1.33	1.31		mg/Kg		98	63 - 124
Diethyl phthalate	1.33	1.20		mg/Kg		90	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.39		mg/Kg		104	62 - 119
Pentachlorophenol	2.67	1.97		mg/Kg		74	13 - 112
N-Nitrosodiphenylamine	1.33	1.09		mg/Kg		81	65 - 112
4,6-Dinitro-2-methylphenol	2.67	2.08		mg/Kg		78	10 - 110
Phenanthrene	1.33	1.09		mg/Kg		82	62 - 120
Anthracene	1.33	1.13		mg/Kg		85	70 - 114
Carbazole	1.33	1.24		mg/Kg		93	65 - 142
Di-n-butyl phthalate	1.33	1.10		mg/Kg		83	65 - 120
Fluoranthene	1.33	1.31		mg/Kg		98	62 - 120
Pyrene	1.33	1.10		mg/Kg		82	61 - 128
Butyl benzyl phthalate	1.33	0.918	*	mg/Kg		69	71 - 129
Benzo[a]anthracene	1.33	1.08		mg/Kg		81	67 - 122
Chrysene	1.33	1.10		mg/Kg		82	63 - 120
3,3'-Dichlorobenzidine	1.33	0.769		mg/Kg		58	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	0.954		mg/Kg		72	72 - 131
Di-n-octyl phthalate	1.33	1.16		mg/Kg		87	68 - 134
Benzo[b]fluoranthene	1.33	1.17		mg/Kg		88	69 - 129
Benzo[k]fluoranthene	1.33	1.19		mg/Kg		89	68 - 127
Benzo[a]pyrene	1.33	1.33		mg/Kg		99	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.20		mg/Kg		90	68 - 130
Dibenz(a,h)anthracene	1.33	1.22		mg/Kg		91	64 - 131
Benzo[g,h,i]perylene	1.33	1.15		mg/Kg		86	72 - 131
3 & 4 Methylphenol	1.33	1.13		mg/Kg		85	57 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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

Lab Sample ID: LCS 500-643085/2-A
Matrix: Solid
Analysis Batch: 643375

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643085

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	87		31 - 166
Phenol-d5	88		30 - 153
Nitrobenzene-d5 (Surr)	96		37 - 147
2-Fluorobiphenyl (Surr)	103		43 - 145
2,4,6-Tribromophenol	104		31 - 143
Terphenyl-d14 (Surr)	90		42 - 157

Lab Sample ID: MB 500-643829/1-A
Matrix: Solid
Analysis Batch: 643963

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 643829

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/22/22 11:19	02/23/22 12:01	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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

Lab Sample ID: MB 500-643829/1-A
Matrix: Solid
Analysis Batch: 643963

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 643829

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/22/22 11:19	02/23/22 12:01	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/22/22 11:19	02/23/22 12:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	130		31 - 166	02/22/22 11:19	02/23/22 12:01	1
Phenol-d5	108		30 - 153	02/22/22 11:19	02/23/22 12:01	1
Nitrobenzene-d5 (Surr)	92		37 - 147	02/22/22 11:19	02/23/22 12:01	1
2-Fluorobiphenyl (Surr)	91		43 - 145	02/22/22 11:19	02/23/22 12:01	1
2,4,6-Tribromophenol	66		31 - 143	02/22/22 11:19	02/23/22 12:01	1
Terphenyl-d14 (Surr)	107		42 - 157	02/22/22 11:19	02/23/22 12:01	1

Lab Sample ID: LCS 500-643829/2-A
Matrix: Solid
Analysis Batch: 643963

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	1.33	1.54		mg/Kg		115	56 - 122
Bis(2-chloroethyl)ether	1.33	1.32		mg/Kg		99	55 - 111
1,3-Dichlorobenzene	1.33	1.23		mg/Kg		92	65 - 124
1,4-Dichlorobenzene	1.33	1.22		mg/Kg		91	61 - 110
1,2-Dichlorobenzene	1.33	1.24		mg/Kg		93	62 - 110
2-Methylphenol	1.33	1.45		mg/Kg		109	60 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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

Lab Sample ID: LCS 500-643829/2-A
Matrix: Solid
Analysis Batch: 643963

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2'-oxybis[1-chloropropane]	1.33	1.37		mg/Kg		103	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.33		mg/Kg		99	56 - 118
Hexachloroethane	1.33	1.17		mg/Kg		88	60 - 114
2-Chlorophenol	1.33	1.41		mg/Kg		106	64 - 110
Nitrobenzene	1.33	1.37		mg/Kg		103	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.39		mg/Kg		104	60 - 112
1,2,4-Trichlorobenzene	1.33	1.22		mg/Kg		92	66 - 117
Isophorone	1.33	1.36		mg/Kg		102	55 - 110
2,4-Dimethylphenol	1.33	1.27		mg/Kg		95	60 - 110
Hexachlorobutadiene	1.33	1.22		mg/Kg		92	56 - 120
Naphthalene	1.33	1.22		mg/Kg		92	63 - 110
2,4-Dichlorophenol	1.33	1.42		mg/Kg		107	58 - 120
4-Chloroaniline	1.33	0.889		mg/Kg		67	30 - 150
2,4,6-Trichlorophenol	1.33	1.29		mg/Kg		97	57 - 120
2,4,5-Trichlorophenol	1.33	1.23		mg/Kg		92	50 - 120
Hexachlorocyclopentadiene	1.33	<0.67	*-	mg/Kg		6	10 - 133
2-Methylnaphthalene	1.33	1.32		mg/Kg		99	69 - 112
2-Nitroaniline	1.33	1.47		mg/Kg		111	57 - 124
2-Chloronaphthalene	1.33	1.26		mg/Kg		95	69 - 114
4-Chloro-3-methylphenol	1.33	1.45		mg/Kg		109	65 - 122
2,6-Dinitrotoluene	1.33	1.34		mg/Kg		100	70 - 123
2-Nitrophenol	1.33	1.33		mg/Kg		100	60 - 120
3-Nitroaniline	1.33	0.911		mg/Kg		68	40 - 122
Dimethyl phthalate	1.33	1.30		mg/Kg		97	69 - 116
2,4-Dinitrophenol	2.67	<0.67	*-	mg/Kg		8	10 - 100
Acenaphthylene	1.33	1.35		mg/Kg		102	68 - 120
2,4-Dinitrotoluene	1.33	1.36		mg/Kg		102	69 - 124
Acenaphthene	1.33	1.24		mg/Kg		93	65 - 124
Dibenzofuran	1.33	1.28		mg/Kg		96	66 - 115
4-Nitrophenol	2.67	2.21		mg/Kg		83	30 - 122
Fluorene	1.33	1.23		mg/Kg		92	62 - 120
4-Nitroaniline	1.33	1.29		mg/Kg		97	60 - 160
4-Bromophenyl phenyl ether	1.33	1.29		mg/Kg		96	68 - 118
Hexachlorobenzene	1.33	1.24		mg/Kg		93	63 - 124
Diethyl phthalate	1.33	1.20		mg/Kg		90	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.23		mg/Kg		93	62 - 119
Pentachlorophenol	2.67	1.12		mg/Kg		42	13 - 112
N-Nitrosodiphenylamine	1.33	1.36		mg/Kg		102	65 - 112
4,6-Dinitro-2-methylphenol	2.67	0.512	J	mg/Kg		19	10 - 110
Phenanthrene	1.33	1.28		mg/Kg		96	62 - 120
Anthracene	1.33	1.32		mg/Kg		99	70 - 114
Carbazole	1.33	1.51		mg/Kg		113	65 - 142
Di-n-butyl phthalate	1.33	1.34		mg/Kg		100	65 - 120
Fluoranthene	1.33	1.32		mg/Kg		99	62 - 120
Pyrene	1.33	1.50		mg/Kg		113	61 - 128
Butyl benzyl phthalate	1.33	1.53		mg/Kg		114	71 - 129
Benzo[a]anthracene	1.33	1.35		mg/Kg		101	67 - 122
Chrysene	1.33	1.37		mg/Kg		102	63 - 120
3,3'-Dichlorobenzidine	1.33	1.19		mg/Kg		90	35 - 128

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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

Lab Sample ID: LCS 500-643829/2-A
Matrix: Solid
Analysis Batch: 643963

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-ethylhexyl) phthalate	1.33	1.59		mg/Kg		119	72 - 131
Di-n-octyl phthalate	1.33	1.44		mg/Kg		108	68 - 134
Benzo[b]fluoranthene	1.33	1.69		mg/Kg		127	69 - 129
Benzo[k]fluoranthene	1.33	1.68		mg/Kg		126	68 - 127
Benzo[a]pyrene	1.33	1.69		mg/Kg		127	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.03		mg/Kg		77	68 - 130
Dibenz(a,h)anthracene	1.33	1.08		mg/Kg		81	64 - 131
Benzo[g,h,i]perylene	1.33	0.901	*-	mg/Kg		68	72 - 131
3 & 4 Methylphenol	1.33	1.45		mg/Kg		109	57 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	133		31 - 166
Phenol-d5	121		30 - 153
Nitrobenzene-d5 (Surr)	96		37 - 147
2-Fluorobiphenyl (Surr)	93		43 - 145
2,4,6-Tribromophenol	83		31 - 143
Terphenyl-d14 (Surr)	108		42 - 157

Lab Sample ID: 500-212294-1 MS
Matrix: Solid
Analysis Batch: 643963

Client Sample ID: 2233V2-01-B37 (0-2)
Prep Type: Total/NA
Prep Batch: 643829

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	<0.20		1.55	1.74		mg/Kg	☼	112	56 - 122
Bis(2-chloroethyl)ether	<0.20	F2 F1	1.55	1.43		mg/Kg	☼	92	55 - 111
1,3-Dichlorobenzene	<0.20		1.55	1.18		mg/Kg	☼	76	60 - 110
1,4-Dichlorobenzene	<0.20		1.55	1.20		mg/Kg	☼	77	61 - 110
1,2-Dichlorobenzene	<0.20		1.55	1.24		mg/Kg	☼	80	62 - 110
2-Methylphenol	<0.20		1.55	1.76		mg/Kg	☼	114	60 - 120
2,2'-oxybis[1-chloropropane]	<0.20		1.55	1.45		mg/Kg	☼	93	40 - 124
N-Nitrosodi-n-propylamine	<0.080		1.55	1.40		mg/Kg	☼	90	56 - 118
Hexachloroethane	<0.20		1.55	1.09		mg/Kg	☼	71	60 - 114
2-Chlorophenol	<0.20		1.55	1.48		mg/Kg	☼	95	64 - 110
Nitrobenzene	<0.039		1.55	1.45		mg/Kg	☼	94	60 - 116
Bis(2-chloroethoxy)methane	<0.20		1.55	1.48		mg/Kg	☼	95	60 - 112
1,2,4-Trichlorobenzene	<0.20		1.55	1.25		mg/Kg	☼	80	66 - 117
Isophorone	<0.20		1.55	1.45		mg/Kg	☼	93	55 - 110
2,4-Dimethylphenol	<0.39		1.55	1.40		mg/Kg	☼	90	60 - 110
Hexachlorobutadiene	<0.20		1.55	1.18		mg/Kg	☼	76	56 - 120
Naphthalene	<0.039		1.55	1.30		mg/Kg	☼	84	63 - 110
2,4-Dichlorophenol	<0.39		1.55	1.48		mg/Kg	☼	96	58 - 120
4-Chloroaniline	<0.80		1.55	1.26		mg/Kg	☼	81	30 - 150
2,4,6-Trichlorophenol	<0.39		1.55	1.35		mg/Kg	☼	87	57 - 120
2,4,5-Trichlorophenol	<0.39		1.55	1.47		mg/Kg	☼	94	50 - 120
Hexachlorocyclopentadiene	<0.80	F1 *-	1.55	<0.78	F1	mg/Kg	☼	0	10 - 133
2-Methylnaphthalene	<0.080		1.55	1.41		mg/Kg	☼	91	69 - 112
2-Nitroaniline	<0.20		1.55	1.56		mg/Kg	☼	101	57 - 124
2-Chloronaphthalene	<0.20		1.55	1.34		mg/Kg	☼	86	69 - 114

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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

Lab Sample ID: 500-212294-1 MS

Matrix: Solid

Analysis Batch: 643963

Client Sample ID: 2233V2-01-B37 (0-2)

Prep Type: Total/NA

Prep Batch: 643829

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
4-Chloro-3-methylphenol	<0.39		1.55	1.60		mg/Kg	⊛	103	65 - 122	
2,6-Dinitrotoluene	<0.20		1.55	1.41		mg/Kg	⊛	91	70 - 123	
2-Nitrophenol	<0.39		1.55	1.42		mg/Kg	⊛	91	60 - 120	
3-Nitroaniline	<0.39		1.55	1.41		mg/Kg	⊛	91	40 - 122	
Dimethyl phthalate	<0.20		1.55	1.37		mg/Kg	⊛	88	69 - 116	
2,4-Dinitrophenol	<0.80	F1 *-	3.11	0.719	J	mg/Kg	⊛	23	10 - 100	
Acenaphthylene	<0.039		1.55	1.41		mg/Kg	⊛	91	68 - 120	
2,4-Dinitrotoluene	<0.20		1.55	1.43		mg/Kg	⊛	92	69 - 124	
Acenaphthene	<0.039		1.55	1.32		mg/Kg	⊛	85	65 - 124	
Dibenzofuran	<0.20		1.55	1.36		mg/Kg	⊛	87	66 - 115	
4-Nitrophenol	<0.80		3.11	2.34		mg/Kg	⊛	75	30 - 122	
Fluorene	<0.039		1.55	1.32		mg/Kg	⊛	85	62 - 120	
4-Nitroaniline	<0.39		1.55	1.46		mg/Kg	⊛	94	60 - 160	
4-Bromophenyl phenyl ether	<0.20		1.55	1.40		mg/Kg	⊛	90	68 - 118	
Hexachlorobenzene	<0.080		1.55	1.33		mg/Kg	⊛	86	63 - 124	
Diethyl phthalate	<0.20		1.55	1.26		mg/Kg	⊛	81	58 - 120	
4-Chlorophenyl phenyl ether	<0.20		1.55	1.33		mg/Kg	⊛	85	62 - 119	
Pentachlorophenol	<0.80		3.11	1.73		mg/Kg	⊛	56	13 - 112	
N-Nitrosodiphenylamine	<0.20		1.55	1.43		mg/Kg	⊛	92	65 - 112	
4,6-Dinitro-2-methylphenol	<0.80		3.11	1.13		mg/Kg	⊛	37	10 - 110	
Phenanthrene	<0.039		1.55	1.37		mg/Kg	⊛	88	62 - 120	
Anthracene	<0.039		1.55	1.39		mg/Kg	⊛	90	70 - 114	
Carbazole	<0.20		1.55	1.61		mg/Kg	⊛	104	65 - 142	
Di-n-butyl phthalate	<0.20		1.55	1.40		mg/Kg	⊛	90	65 - 120	
Fluoranthene	<0.039		1.55	1.42		mg/Kg	⊛	91	62 - 120	
Pyrene	<0.039		1.55	1.66		mg/Kg	⊛	107	61 - 128	
Butyl benzyl phthalate	<0.20		1.55	1.68		mg/Kg	⊛	108	71 - 129	
Benzo[a]anthracene	<0.039		1.55	1.46		mg/Kg	⊛	94	67 - 122	
Chrysene	<0.039		1.55	1.46		mg/Kg	⊛	94	63 - 120	
3,3'-Dichlorobenzidine	<0.20		1.55	1.09		mg/Kg	⊛	70	35 - 128	
Bis(2-ethylhexyl) phthalate	<0.20		1.55	1.75		mg/Kg	⊛	113	72 - 131	
Di-n-octyl phthalate	<0.20		1.55	1.45		mg/Kg	⊛	93	68 - 134	
Benzo[b]fluoranthene	<0.039		1.55	1.75		mg/Kg	⊛	113	69 - 129	
Benzo[k]fluoranthene	<0.039		1.55	1.74		mg/Kg	⊛	112	68 - 127	
Benzo[a]pyrene	<0.039		1.55	1.73		mg/Kg	⊛	112	65 - 133	
Indeno[1,2,3-cd]pyrene	<0.039	F1	1.55	1.03	F1	mg/Kg	⊛	66	68 - 130	
Dibenz(a,h)anthracene	<0.039	F1	1.55	1.06		mg/Kg	⊛	68	64 - 131	
Benzo[g,h,i]perylene	<0.039	F1 *-	1.55	0.890	F1	mg/Kg	⊛	57	72 - 131	
3 & 4 Methylphenol	<0.20		1.55	1.59		mg/Kg	⊛	102	57 - 120	

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	118		31 - 166
Phenol-d5	110		30 - 153
Nitrobenzene-d5 (Surr)	85		37 - 147
2-Fluorobiphenyl (Surr)	84		43 - 145
2,4,6-Tribromophenol	79		31 - 143
Terphenyl-d14 (Surr)	101		42 - 157

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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

Lab Sample ID: 500-212294-1 MSD

Matrix: Solid

Analysis Batch: 643963

Client Sample ID: 2233V2-01-B37 (0-2)

Prep Type: Total/NA

Prep Batch: 643829

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Phenol	<0.20		1.54	1.84		mg/Kg	✱	120	56 - 122	5	30
Bis(2-chloroethyl)ether	<0.20	F2 F1	1.54	2.18	F1 F2	mg/Kg	✱	142	55 - 111	42	30
1,3-Dichlorobenzene	<0.20		1.54	1.12		mg/Kg	✱	73	60 - 110	5	30
1,4-Dichlorobenzene	<0.20		1.54	1.14		mg/Kg	✱	74	61 - 110	5	30
1,2-Dichlorobenzene	<0.20		1.54	1.18		mg/Kg	✱	77	62 - 110	5	30
2-Methylphenol	<0.20		1.54	1.47		mg/Kg	✱	96	60 - 120	18	30
2,2'-oxybis[1-chloropropane]	<0.20		1.54	1.37		mg/Kg	✱	90	40 - 124	5	30
N-Nitrosodi-n-propylamine	<0.080		1.54	1.39		mg/Kg	✱	91	56 - 118	0	30
Hexachloroethane	<0.20		1.54	1.03		mg/Kg	✱	67	60 - 114	6	30
2-Chlorophenol	<0.20		1.54	1.42		mg/Kg	✱	92	64 - 110	4	30
Nitrobenzene	<0.039		1.54	1.32		mg/Kg	✱	86	60 - 116	9	30
Bis(2-chloroethoxy)methane	<0.20		1.54	1.34		mg/Kg	✱	87	60 - 112	9	30
1,2,4-Trichlorobenzene	<0.20		1.54	1.10		mg/Kg	✱	72	66 - 117	12	30
Isophorone	<0.20		1.54	1.30		mg/Kg	✱	85	55 - 110	11	30
2,4-Dimethylphenol	<0.39		1.54	1.21		mg/Kg	✱	79	60 - 110	15	30
Hexachlorobutadiene	<0.20		1.54	0.892		mg/Kg	✱	58	56 - 120	28	30
Naphthalene	<0.039		1.54	1.16		mg/Kg	✱	76	63 - 110	11	30
2,4-Dichlorophenol	<0.39		1.54	1.40		mg/Kg	✱	91	58 - 120	6	30
4-Chloroaniline	<0.80		1.54	1.05		mg/Kg	✱	69	30 - 150	18	30
2,4,6-Trichlorophenol	<0.39		1.54	1.13		mg/Kg	✱	74	57 - 120	18	30
2,4,5-Trichlorophenol	<0.39		1.54	1.35		mg/Kg	✱	88	50 - 120	8	30
Hexachlorocyclopentadiene	<0.80	F1 *-	1.54	<0.77	F1	mg/Kg	✱	0	10 - 133	NC	30
2-Methylnaphthalene	<0.080		1.54	1.28		mg/Kg	✱	83	69 - 112	10	30
2-Nitroaniline	<0.20		1.54	1.38		mg/Kg	✱	90	57 - 124	12	30
2-Chloronaphthalene	<0.20		1.54	1.19		mg/Kg	✱	77	69 - 114	12	30
4-Chloro-3-methylphenol	<0.39		1.54	1.44		mg/Kg	✱	94	65 - 122	11	30
2,6-Dinitrotoluene	<0.20		1.54	1.26		mg/Kg	✱	82	70 - 123	11	30
2-Nitrophenol	<0.39		1.54	1.30		mg/Kg	✱	85	60 - 120	9	30
3-Nitroaniline	<0.39		1.54	1.37		mg/Kg	✱	89	40 - 122	3	30
Dimethyl phthalate	<0.20		1.54	1.21		mg/Kg	✱	79	69 - 116	12	30
2,4-Dinitrophenol	<0.80	F1 *-	3.07	<0.77	F1	mg/Kg	✱	0	10 - 100	NC	30
Acenaphthylene	<0.039		1.54	1.27		mg/Kg	✱	83	68 - 120	11	30
2,4-Dinitrotoluene	<0.20		1.54	1.28		mg/Kg	✱	84	69 - 124	11	30
Acenaphthene	<0.039		1.54	1.17		mg/Kg	✱	77	65 - 124	12	30
Dibenzofuran	<0.20		1.54	1.21		mg/Kg	✱	79	66 - 115	11	30
4-Nitrophenol	<0.80		3.07	1.87		mg/Kg	✱	61	30 - 122	22	30
Fluorene	<0.039		1.54	1.18		mg/Kg	✱	77	62 - 120	11	30
4-Nitroaniline	<0.39		1.54	1.33		mg/Kg	✱	86	60 - 160	10	30
4-Bromophenyl phenyl ether	<0.20		1.54	1.24		mg/Kg	✱	80	68 - 118	13	30
Hexachlorobenzene	<0.080		1.54	1.19		mg/Kg	✱	77	63 - 124	12	30
Diethyl phthalate	<0.20		1.54	1.11		mg/Kg	✱	72	58 - 120	13	30
4-Chlorophenyl phenyl ether	<0.20		1.54	1.18		mg/Kg	✱	77	62 - 119	11	30
Pentachlorophenol	<0.80		3.07	1.32		mg/Kg	✱	43	13 - 112	27	30
N-Nitrosodiphenylamine	<0.20		1.54	1.29		mg/Kg	✱	84	65 - 112	11	30
4,6-Dinitro-2-methylphenol	<0.80		3.07	0.864		mg/Kg	✱	28	10 - 110	27	30
Phenanthrene	<0.039		1.54	1.21		mg/Kg	✱	79	62 - 120	12	30
Anthracene	<0.039		1.54	1.24		mg/Kg	✱	81	70 - 114	12	30
Carbazole	<0.20		1.54	1.43		mg/Kg	✱	93	65 - 142	12	30

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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

Lab Sample ID: 500-212294-1 MSD

Matrix: Solid

Analysis Batch: 643963

Client Sample ID: 2233V2-01-B37 (0-2)

Prep Type: Total/NA

Prep Batch: 643829

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Di-n-butyl phthalate	<0.20		1.54	1.27		mg/Kg	☼	83	65 - 120	10	30
Fluoranthene	<0.039		1.54	1.25		mg/Kg	☼	81	62 - 120	13	30
Pyrene	<0.039		1.54	1.50		mg/Kg	☼	97	61 - 128	11	30
Butyl benzyl phthalate	<0.20		1.54	1.51		mg/Kg	☼	99	71 - 129	10	30
Benzo[a]anthracene	<0.039		1.54	1.29		mg/Kg	☼	84	67 - 122	12	30
Chrysene	<0.039		1.54	1.27		mg/Kg	☼	83	63 - 120	14	30
3,3'-Dichlorobenzidine	<0.20		1.54	0.970		mg/Kg	☼	63	35 - 128	11	30
Bis(2-ethylhexyl) phthalate	<0.20		1.54	1.57		mg/Kg	☼	102	72 - 131	11	30
Di-n-octyl phthalate	<0.20		1.54	1.26		mg/Kg	☼	82	68 - 134	14	30
Benzo[b]fluoranthene	<0.039		1.54	1.57		mg/Kg	☼	102	69 - 129	11	30
Benzo[k]fluoranthene	<0.039		1.54	1.56		mg/Kg	☼	102	68 - 127	11	30
Benzo[a]pyrene	<0.039		1.54	1.55		mg/Kg	☼	101	65 - 133	11	30
Indeno[1,2,3-cd]pyrene	<0.039	F1	1.54	0.918	F1	mg/Kg	☼	60	68 - 130	12	30
Dibenz(a,h)anthracene	<0.039	F1	1.54	0.945	F1	mg/Kg	☼	62	64 - 131	12	30
Benzo[g,h,i]perylene	<0.039	F1 *-	1.54	0.789	F1	mg/Kg	☼	51	72 - 131	12	30
3 & 4 Methylphenol	<0.20		1.54	1.71		mg/Kg	☼	111	57 - 120	7	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorophenol	115		31 - 166
Phenol-d5	107		30 - 153
Nitrobenzene-d5 (Surr)	79		37 - 147
2-Fluorobiphenyl (Surr)	75		43 - 145
2,4,6-Tribromophenol	73		31 - 143
Terphenyl-d14 (Surr)	94		42 - 157

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-644030/24-A

Matrix: Solid

Analysis Batch: 644282

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 644030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.500	0.512		mg/L		102	80 - 120
Beryllium	0.0500	0.0503		mg/L		101	80 - 120
Boron	1.00	0.949		mg/L		95	80 - 120
Cadmium	0.0500	0.0490		mg/L		98	80 - 120
Chromium	0.200	0.199		mg/L		100	80 - 120
Cobalt	0.500	0.499		mg/L		100	80 - 120
Iron	1.00	1.02		mg/L		102	80 - 120
Lead	0.100	0.0946		mg/L		95	80 - 120
Manganese	0.500	0.500		mg/L		100	80 - 120
Nickel	0.500	0.489		mg/L		98	80 - 120
Selenium	0.100	0.106		mg/L		106	80 - 120
Silver	0.0500	0.0471		mg/L		94	80 - 120
Zinc	0.500	0.483	J	mg/L		97	80 - 120

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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

Lab Sample ID: LCS 500-644030/2-A
Matrix: Solid
Analysis Batch: 644282

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644030
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Barium	0.500	0.510		mg/L		102	80 - 120
Beryllium	0.0500	0.0478		mg/L		96	80 - 120
Boron	1.00	0.905		mg/L		91	80 - 120
Cadmium	0.0500	0.0510		mg/L		102	80 - 120
Chromium	0.200	0.201		mg/L		100	80 - 120
Cobalt	0.500	0.529		mg/L		106	80 - 120
Iron	1.00	1.04		mg/L		104	80 - 120
Lead	0.100	0.0980		mg/L		98	80 - 120
Manganese	0.500	0.486		mg/L		97	80 - 120
Nickel	0.500	0.516		mg/L		103	80 - 120
Selenium	0.100	0.105		mg/L		105	80 - 120
Silver	0.0500	0.0523		mg/L		105	80 - 120
Zinc	0.500	0.564		mg/L		113	80 - 120

Lab Sample ID: LCS 500-644031/16-A
Matrix: Solid
Analysis Batch: 644300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644031
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Barium	0.500	0.500		mg/L		100	80 - 120
Beryllium	0.0500	0.0486		mg/L		97	80 - 120
Boron	1.00	0.906		mg/L		91	80 - 120
Cadmium	0.0500	0.0473		mg/L		95	80 - 120
Chromium	0.200	0.194		mg/L		97	80 - 120
Cobalt	0.500	0.475		mg/L		95	80 - 120
Iron	1.00	0.995		mg/L		99	80 - 120
Lead	0.100	0.0915		mg/L		91	80 - 120
Manganese	0.500	0.485		mg/L		97	80 - 120
Nickel	0.500	0.474		mg/L		95	80 - 120
Selenium	0.100	0.0960		mg/L		96	80 - 120
Silver	0.0500	0.0459		mg/L		92	80 - 120
Zinc	0.500	0.469	J	mg/L		94	80 - 120

Lab Sample ID: LCS 500-644031/2-A
Matrix: Solid
Analysis Batch: 644300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644031
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Barium	0.500	0.510		mg/L		102	80 - 120
Beryllium	0.0500	0.0472		mg/L		94	80 - 120
Boron	1.00	0.917		mg/L		92	80 - 120
Cadmium	0.0500	0.0510		mg/L		102	80 - 120
Chromium	0.200	0.199		mg/L		100	80 - 120
Cobalt	0.500	0.515		mg/L		103	80 - 120
Iron	1.00	0.962		mg/L		96	80 - 120
Lead	0.100	0.0963		mg/L		96	80 - 120
Manganese	0.500	0.482		mg/L		96	80 - 120
Nickel	0.500	0.513		mg/L		103	80 - 120
Selenium	0.100	0.109		mg/L		109	80 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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

Lab Sample ID: LCS 500-644031/2-A
Matrix: Solid
Analysis Batch: 644300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644031

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.0500	0.0528		mg/L		106	80 - 120
Zinc	0.500	0.557		mg/L		111	80 - 120

Lab Sample ID: LCS 500-644033/2-A
Matrix: Solid
Analysis Batch: 644509

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644033

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.0500	0.0482		mg/L		96	80 - 120
Lead	0.100	0.0917		mg/L		92	80 - 120
Manganese	0.500	0.513		mg/L		103	80 - 120
Nickel	0.500	0.486		mg/L		97	80 - 120

Lab Sample ID: LCS 500-644034/2-A
Matrix: Solid
Analysis Batch: 644508

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644034

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	0.500	0.464		mg/L		93	80 - 120

Lab Sample ID: MB 500-644039/1-A
Matrix: Solid
Analysis Batch: 644509

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644039

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg		02/24/22 10:16	02/24/22 21:37	1
Arsenic	<1.0		1.0	0.34	mg/Kg		02/24/22 10:16	02/24/22 21:37	1
Barium	<1.0		1.0	0.11	mg/Kg		02/24/22 10:16	02/24/22 21:37	1
Boron	<5.0		5.0	0.47	mg/Kg		02/24/22 10:16	02/24/22 21:37	1
Cadmium	0.0718	J	0.20	0.036	mg/Kg		02/24/22 10:16	02/24/22 21:37	1
Calcium	<20		20	3.4	mg/Kg		02/24/22 10:16	02/24/22 21:37	1
Chromium	1.65		1.0	0.50	mg/Kg		02/24/22 10:16	02/24/22 21:37	1
Cobalt	<0.50		0.50	0.13	mg/Kg		02/24/22 10:16	02/24/22 21:37	1
Copper	<1.0		1.0	0.28	mg/Kg		02/24/22 10:16	02/24/22 21:37	1
Iron	23.3		20	10	mg/Kg		02/24/22 10:16	02/24/22 21:37	1
Lead	<0.50		0.50	0.23	mg/Kg		02/24/22 10:16	02/24/22 21:37	1
Magnesium	<10		10	5.0	mg/Kg		02/24/22 10:16	02/24/22 21:37	1
Manganese	<1.0		1.0	0.15	mg/Kg		02/24/22 10:16	02/24/22 21:37	1
Nickel	<1.0		1.0	0.29	mg/Kg		02/24/22 10:16	02/24/22 21:37	1
Potassium	<50		50	18	mg/Kg		02/24/22 10:16	02/24/22 21:37	1
Selenium	<1.0		1.0	0.59	mg/Kg		02/24/22 10:16	02/24/22 21:37	1
Silver	<0.50		0.50	0.13	mg/Kg		02/24/22 10:16	02/24/22 21:37	1
Thallium	<1.0		1.0	0.50	mg/Kg		02/24/22 10:16	02/24/22 21:37	1
Vanadium	<0.50		0.50	0.12	mg/Kg		02/24/22 10:16	02/24/22 21:37	1
Zinc	<2.0		2.0	0.88	mg/Kg		02/24/22 10:16	02/24/22 21:37	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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

Lab Sample ID: MB 500-644039/1-A
Matrix: Solid
Analysis Batch: 644645

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644039

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	<0.40		0.40	0.093	mg/Kg		02/24/22 10:16	02/25/22 16:44	1
Sodium	32.7	J	100	15	mg/Kg		02/24/22 10:16	02/25/22 16:44	1

Lab Sample ID: LCS 500-644039/2-A
Matrix: Solid
Analysis Batch: 644509

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644039

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	46.8		mg/Kg		94	80 - 120
Arsenic	10.0	8.32		mg/Kg		83	80 - 120
Barium	200	202		mg/Kg		101	80 - 120
Boron	100	82.4		mg/Kg		82	80 - 120
Cadmium	5.00	4.53		mg/Kg		91	80 - 120
Calcium	1000	903		mg/Kg		90	80 - 120
Chromium	20.0	20.7		mg/Kg		103	80 - 120
Cobalt	50.0	47.1		mg/Kg		94	80 - 120
Copper	25.0	24.7		mg/Kg		99	80 - 120
Lead	10.0	8.58		mg/Kg		86	80 - 120
Magnesium	1000	927		mg/Kg		93	80 - 120
Manganese	50.0	50.8		mg/Kg		102	80 - 120
Nickel	50.0	47.1		mg/Kg		94	80 - 120
Potassium	1000	924		mg/Kg		92	80 - 120
Selenium	10.0	8.02		mg/Kg		80	80 - 120
Silver	5.00	4.47		mg/Kg		89	80 - 120
Thallium	10.0	8.73		mg/Kg		87	80 - 120
Vanadium	50.0	47.5		mg/Kg		95	80 - 120
Zinc	50.0	46.4		mg/Kg		93	80 - 120

Lab Sample ID: LCS 500-644039/2-A
Matrix: Solid
Analysis Batch: 644645

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644039

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Beryllium	5.00	4.92		mg/Kg		98	80 - 120
Iron	100	97.9		mg/Kg		98	80 - 120
Sodium	1000	953		mg/Kg		95	80 - 120

Lab Sample ID: 500-212294-1 MS
Matrix: Solid
Analysis Batch: 644509

Client Sample ID: 2233V2-01-B37 (0-2)
Prep Type: Total/NA
Prep Batch: 644039

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.44	J F1	28.4	4.53	F1	mg/Kg	☼	14	75 - 125
Cadmium	<0.11		2.84	2.47		mg/Kg	☼	87	75 - 125
Calcium	25000		568	43900	E 4 ^-	mg/Kg	☼	3253	75 - 125
Chromium	20	B F1	11.4	28.3	F1	mg/Kg	☼	70	75 - 125
Cobalt	8.8	F1 F2	28.4	57.4	F1	mg/Kg	☼	171	75 - 125
Copper	23	F1	14.2	33.8	F1	mg/Kg	☼	73	75 - 125
Lead	11	F1	5.68	18.7	F1	mg/Kg	☼	142	75 - 125

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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

Lab Sample ID: 500-212294-1 MS
Matrix: Solid
Analysis Batch: 644509

Client Sample ID: 2233V2-01-B37 (0-2)
Prep Type: Total/NA
Prep Batch: 644039

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	
	Result	Qualifier		Result	Qualifier				Limits	RPD
Magnesium	19000		568	26800	4 ^-	mg/Kg	⊛	1399	75 - 125	
Manganese	210	F2	28.4	1240	E 4 ^-	mg/Kg	⊛	3634	75 - 125	
Nickel	29	F1 F2	28.4	88.2	F1	mg/Kg	⊛	209	75 - 125	
Potassium	2500		568	5080	4 ^+	mg/Kg	⊛	454	75 - 125	
Selenium	<0.57	F1	5.68	3.89	F1	mg/Kg	⊛	68	75 - 125	
Thallium	1.4	F1	5.68	5.61	F1	mg/Kg	⊛	74	75 - 125	
Vanadium	21		28.4	45.3		mg/Kg	⊛	87	75 - 125	
Zinc	77	F1	28.4	95.5	F1	mg/Kg	⊛	66	75 - 125	

Lab Sample ID: 500-212294-1 MS
Matrix: Solid
Analysis Batch: 644645

Client Sample ID: 2233V2-01-B37 (0-2)
Prep Type: Total/NA
Prep Batch: 644039

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	
	Result	Qualifier		Result	Qualifier				Limits	RPD
Beryllium	0.62		2.84	3.20		mg/Kg	⊛	90	75 - 125	
Iron	23000	B	56.8	23100	4	mg/Kg	⊛	-624	75 - 125	
Sodium	1200	B F1	568	1600	F1	mg/Kg	⊛	67	75 - 125	

Lab Sample ID: 500-212294-1 MSD
Matrix: Solid
Analysis Batch: 644509

Client Sample ID: 2233V2-01-B37 (0-2)
Prep Type: Total/NA
Prep Batch: 644039

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit	
Antimony	0.44	J F1	30.1	4.51	F1	mg/Kg	⊛	13	75 - 125	0	20	
Arsenic	8.0	F1	6.03	12.3	F1	mg/Kg	⊛	72	75 - 125	7	20	
Barium	58	F1	121	186	^+	mg/Kg	⊛	106	75 - 125	13	20	
Boron	8.6	F1	60.3	53.0	F1	mg/Kg	⊛	74	75 - 125	1	20	
Cadmium	<0.11		3.01	2.42		mg/Kg	⊛	80	75 - 125	2	20	
Calcium	25000		603	39200	E 4 ^-	mg/Kg	⊛	2278	75 - 125	11	20	
Chromium	20	B F1	12.1	29.6		mg/Kg	⊛	77	75 - 125	4	20	
Cobalt	8.8	F1 F2	30.1	43.2	F2	mg/Kg	⊛	114	75 - 125	28	20	
Copper	23	F1	15.1	38.1		mg/Kg	⊛	97	75 - 125	12	20	
Lead	11	F1	6.03	18.2	F1	mg/Kg	⊛	126	75 - 125	3	20	
Magnesium	19000		603	23900	4 ^-	mg/Kg	⊛	830	75 - 125	12	20	
Manganese	210	F2	30.1	515	4 F2 ^-	mg/Kg	⊛	1017	75 - 125	83	20	
Nickel	29	F1 F2	30.1	62.4	F2	mg/Kg	⊛	112	75 - 125	34	20	
Potassium	2500		603	4970	4 ^+	mg/Kg	⊛	409	75 - 125	2	20	
Selenium	<0.57	F1	6.03	4.20	F1	mg/Kg	⊛	70	75 - 125	8	20	
Silver	0.37		3.01	2.95		mg/Kg	⊛	86	75 - 125	8	20	
Thallium	1.4	F1	6.03	5.77	F1	mg/Kg	⊛	72	75 - 125	3	20	
Vanadium	21		30.1	46.4		mg/Kg	⊛	86	75 - 125	3	20	
Zinc	77	F1	30.1	94.5	F1	mg/Kg	⊛	59	75 - 125	1	20	

Lab Sample ID: 500-212294-1 MSD
Matrix: Solid
Analysis Batch: 644645

Client Sample ID: 2233V2-01-B37 (0-2)
Prep Type: Total/NA
Prep Batch: 644039

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit	
Beryllium	0.62		3.01	3.33		mg/Kg	⊛	90	75 - 125	4	20	

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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

Lab Sample ID: 500-212294-1 MSD
Matrix: Solid
Analysis Batch: 644645

Client Sample ID: 2233V2-01-B37 (0-2)
Prep Type: Total/NA
Prep Batch: 644039

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	23000	B	60.3	23300	4	mg/Kg	☼	-270	75 - 125	1	20
Sodium	1200	B F1	603	1660	F1	mg/Kg	☼	72	75 - 125	3	20

Lab Sample ID: 500-212294-1 DU
Matrix: Solid
Analysis Batch: 644509

Client Sample ID: 2233V2-01-B37 (0-2)
Prep Type: Total/NA
Prep Batch: 644039

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	0.44	J F1	0.460	J	mg/Kg	☼	3	20
Arsenic	8.0	F1	9.73		mg/Kg	☼	20	20
Barium	58	F1	70.5		mg/Kg	☼	19	20
Boron	8.6	F1	9.66		mg/Kg	☼	12	20
Cadmium	<0.11		<0.11		mg/Kg	☼	NC	20
Calcium	25000		26300		mg/Kg	☼	3	20
Chromium	20	B F1	20.5		mg/Kg	☼	0.7	20
Cobalt	8.8	F1 F2	16.4	F3	mg/Kg	☼	60	20
Copper	23	F1	24.0		mg/Kg	☼	2	20
Lead	11	F1	14.1	F3	mg/Kg	☼	28	20
Magnesium	19000		18500		mg/Kg	☼	2	20
Manganese	210	F2	424	F3	mg/Kg	☼	68	20
Nickel	29	F1 F2	36.7	F3	mg/Kg	☼	24	20
Potassium	2500		2680		mg/Kg	☼	7	20
Selenium	<0.57	F1	<0.57		mg/Kg	☼	NC	20
Silver	0.37		0.366		mg/Kg	☼	1	20
Thallium	1.4	F1	1.21		mg/Kg	☼	15	20
Vanadium	21		22.2		mg/Kg	☼	8	20
Zinc	77	F1	76.5		mg/Kg	☼	0.4	20

Lab Sample ID: 500-212294-1 DU
Matrix: Solid
Analysis Batch: 644645

Client Sample ID: 2233V2-01-B37 (0-2)
Prep Type: Total/NA
Prep Batch: 644039

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Beryllium	0.62		0.675		mg/Kg	☼	8	20
Iron	23000	B	24700		mg/Kg	☼	5	20
Sodium	1200	B F1	1130		mg/Kg	☼	8	20

Lab Sample ID: MB 500-644302/1-A
Matrix: Solid
Analysis Batch: 644656

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644302

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Arsenic	<1.0		1.0	0.34	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Barium	<1.0		1.0	0.11	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Beryllium	<0.40		0.40	0.093	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Boron	<5.0		5.0	0.47	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Cadmium	0.0588	J	0.20	0.036	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Calcium	4.63	J	20	3.4	mg/Kg		02/25/22 09:04	02/26/22 00:39	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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

Lab Sample ID: MB 500-644302/1-A
Matrix: Solid
Analysis Batch: 644656

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644302

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	1.39		1.0	0.50	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Cobalt	<0.50		0.50	0.13	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Copper	<1.0		1.0	0.28	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Iron	18.7	J	20	10	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Lead	<0.50		0.50	0.23	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Magnesium	<10		10	5.0	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Manganese	0.590	J	1.0	0.15	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Nickel	0.416	J	1.0	0.29	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Potassium	<50		50	18	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Selenium	<1.0		1.0	0.59	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Silver	<0.50		0.50	0.13	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Sodium	<100		100	15	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Thallium	<1.0		1.0	0.50	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Vanadium	<0.50		0.50	0.12	mg/Kg		02/25/22 09:04	02/26/22 00:39	1
Zinc	<2.0		2.0	0.88	mg/Kg		02/25/22 09:04	02/26/22 00:39	1

Lab Sample ID: LCS 500-644302/2-A
Matrix: Solid
Analysis Batch: 644656

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644302

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	45.5		mg/Kg		91	80 - 120
Arsenic	10.0	8.46		mg/Kg		85	80 - 120
Barium	200	186		mg/Kg		93	80 - 120
Beryllium	5.00	4.64		mg/Kg		93	80 - 120
Boron	100	82.5		mg/Kg		83	80 - 120
Cadmium	5.00	4.46		mg/Kg		89	80 - 120
Calcium	1000	910		mg/Kg		91	80 - 120
Chromium	20.0	19.7		mg/Kg		99	80 - 120
Cobalt	50.0	45.8		mg/Kg		92	80 - 120
Copper	25.0	23.7		mg/Kg		95	80 - 120
Iron	100	93.4		mg/Kg		93	80 - 120
Lead	10.0	8.92		mg/Kg		89	80 - 120
Magnesium	1000	877		mg/Kg		88	80 - 120
Manganese	50.0	46.7		mg/Kg		93	80 - 120
Nickel	50.0	46.9		mg/Kg		94	80 - 120
Potassium	1000	884		mg/Kg		88	80 - 120
Selenium	10.0	8.05		mg/Kg		80	80 - 120
Silver	5.00	4.47		mg/Kg		89	80 - 120
Sodium	1000	896		mg/Kg		90	80 - 120
Thallium	10.0	9.10		mg/Kg		91	80 - 120
Vanadium	50.0	45.6		mg/Kg		91	80 - 120
Zinc	50.0	46.0		mg/Kg		92	80 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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

Lab Sample ID: LB 500-643676/1-B
Matrix: Solid
Analysis Batch: 644282

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644030

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		02/23/22 09:06	02/23/22 17:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/22 09:06	02/23/22 17:52	1
Boron	<0.50		0.50	0.050	mg/L		02/23/22 09:06	02/23/22 17:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/22 09:06	02/23/22 17:52	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 17:52	1
Cobalt	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 17:52	1
Iron	<0.40		0.40	0.20	mg/L		02/23/22 09:06	02/23/22 17:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/23/22 09:06	02/23/22 17:52	1
Manganese	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 17:52	1
Nickel	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 17:52	1
Selenium	<0.050		0.050	0.020	mg/L		02/23/22 09:06	02/23/22 17:52	1
Silver	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 17:52	1
Zinc	<0.50		0.50	0.020	mg/L		02/23/22 09:06	02/23/22 17:52	1

Lab Sample ID: LB2 500-643677/1-B
Matrix: Solid
Analysis Batch: 644282

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644030

Analyte	LB2 LB2		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		02/23/22 09:06	02/23/22 19:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/22 09:06	02/23/22 19:26	1
Boron	<0.50		0.50	0.050	mg/L		02/23/22 09:06	02/23/22 19:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/22 09:06	02/23/22 19:26	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 19:26	1
Cobalt	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 19:26	1
Iron	<0.40		0.40	0.20	mg/L		02/23/22 09:06	02/23/22 19:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/23/22 09:06	02/23/22 19:26	1
Manganese	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 19:26	1
Nickel	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 19:26	1
Selenium	<0.050		0.050	0.020	mg/L		02/23/22 09:06	02/23/22 19:26	1
Silver	<0.025		0.025	0.010	mg/L		02/23/22 09:06	02/23/22 19:26	1
Zinc	<0.50		0.50	0.020	mg/L		02/23/22 09:06	02/23/22 19:26	1

Lab Sample ID: 500-212294-5 MS
Matrix: Solid
Analysis Batch: 644282

Client Sample ID: 2233V2-01-B34 (4-8)
Prep Type: TCLP
Prep Batch: 644030

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Barium	0.46	J	0.500	0.983		mg/L		105	75 - 125
Beryllium	<0.0040		0.0500	0.0486		mg/L		97	75 - 125
Boron	0.21	J	1.00	1.13		mg/L		93	75 - 125
Cadmium	<0.0050		0.0500	0.0546		mg/L		109	75 - 125
Chromium	<0.025		0.200	0.194		mg/L		97	75 - 125
Cobalt	<0.025		0.500	0.542		mg/L		108	75 - 125
Iron	<0.40		1.00	1.03		mg/L		103	75 - 125
Lead	<0.0075		0.100	0.0958		mg/L		96	75 - 125
Manganese	4.2		0.500	4.76	4	mg/L		116	75 - 125
Nickel	0.012	J	0.500	0.529		mg/L		103	75 - 125
Selenium	<0.050		0.100	0.110		mg/L		110	75 - 125

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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

Lab Sample ID: 500-212294-5 MS
Matrix: Solid
Analysis Batch: 644282

Client Sample ID: 2233V2-01-B34 (4-8)
Prep Type: TCLP
Prep Batch: 644030

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	<0.025		0.0500	0.0531		mg/L		106	75 - 125
Zinc	<0.50		0.500	0.554		mg/L		111	75 - 125

Lab Sample ID: 500-212294-5 DU
Matrix: Solid
Analysis Batch: 644282

Client Sample ID: 2233V2-01-B34 (4-8)
Prep Type: TCLP
Prep Batch: 644030

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Barium	0.46	J	0.460	J	mg/L		0.5	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	0.21	J	0.207	J	mg/L		0.2	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	<0.025		<0.025		mg/L		NC	20
Iron	<0.40		<0.40		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	4.2		4.19		mg/L		0.3	20
Nickel	0.012	J	0.0118	J	mg/L		0.3	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	<0.50		<0.50		mg/L		NC	20

Lab Sample ID: LB 500-643679/2-B
Matrix: Solid
Analysis Batch: 644300

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644031

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		02/23/22 09:08	02/23/22 23:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/22 09:08	02/23/22 23:16	1
Boron	<0.50		0.50	0.050	mg/L		02/23/22 09:08	02/23/22 23:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/22 09:08	02/23/22 23:16	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/22 09:08	02/23/22 23:16	1
Cobalt	<0.025		0.025	0.010	mg/L		02/23/22 09:08	02/23/22 23:16	1
Iron	<0.40		0.40	0.20	mg/L		02/23/22 09:08	02/23/22 23:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/23/22 09:08	02/23/22 23:16	1
Manganese	<0.025		0.025	0.010	mg/L		02/23/22 09:08	02/23/22 23:16	1
Nickel	<0.025		0.025	0.010	mg/L		02/23/22 09:08	02/23/22 23:16	1
Selenium	<0.050		0.050	0.020	mg/L		02/23/22 09:08	02/23/22 23:16	1
Silver	<0.025		0.025	0.010	mg/L		02/23/22 09:08	02/23/22 23:16	1
Zinc	<0.50		0.50	0.020	mg/L		02/23/22 09:08	02/23/22 23:16	1

Lab Sample ID: LB2 500-643681/1-C
Matrix: Solid
Analysis Batch: 644300

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644031

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		02/23/22 09:08	02/23/22 23:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/22 09:08	02/23/22 23:47	1
Boron	<0.50		0.50	0.050	mg/L		02/23/22 09:08	02/23/22 23:47	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

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

Lab Sample ID: LB2 500-643681/1-C
Matrix: Solid
Analysis Batch: 644300

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644031

Analyte	LB2	LB2	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/22 09:08	02/23/22 23:47	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/22 09:08	02/23/22 23:47	1
Cobalt	<0.025		0.025	0.010	mg/L		02/23/22 09:08	02/23/22 23:47	1
Iron	<0.40		0.40	0.20	mg/L		02/23/22 09:08	02/23/22 23:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/23/22 09:08	02/23/22 23:47	1
Manganese	<0.025		0.025	0.010	mg/L		02/23/22 09:08	02/23/22 23:47	1
Nickel	<0.025		0.025	0.010	mg/L		02/23/22 09:08	02/23/22 23:47	1
Selenium	<0.050		0.050	0.020	mg/L		02/23/22 09:08	02/23/22 23:47	1
Silver	<0.025		0.025	0.010	mg/L		02/23/22 09:08	02/23/22 23:47	1
Zinc	<0.50		0.50	0.020	mg/L		02/23/22 09:08	02/23/22 23:47	1

Lab Sample ID: LB 500-643685/1-B
Matrix: Solid
Analysis Batch: 644509

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 644033

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/22 09:11	02/24/22 20:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/23/22 09:11	02/24/22 20:04	1
Manganese	<0.025		0.025	0.010	mg/L		02/23/22 09:11	02/24/22 20:04	1
Nickel	<0.025		0.025	0.010	mg/L		02/23/22 09:11	02/24/22 20:04	1

Lab Sample ID: 500-212294-1 MS
Matrix: Solid
Analysis Batch: 644509

Client Sample ID: 2233V2-01-B37 (0-2)
Prep Type: SPLP East
Prep Batch: 644033

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				
Cadmium	<0.0050		0.0500	0.0399		mg/L		80	75 - 125
Lead	0.12		0.100	0.200		mg/L		84	75 - 125
Manganese	1.2		0.500	1.71		mg/L		104	75 - 125
Nickel	0.31		0.500	0.797		mg/L		98	75 - 125

Lab Sample ID: 500-212294-1 DU
Matrix: Solid
Analysis Batch: 644509

Client Sample ID: 2233V2-01-B37 (0-2)
Prep Type: SPLP East
Prep Batch: 644033

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD	Limit
	Result	Qualifier		Result					
Cadmium	<0.0050		<0.0050		mg/L		NC	20	
Lead	0.12		0.114		mg/L		1	20	
Manganese	1.2		1.18		mg/L		0.4	20	
Nickel	0.31		0.311		mg/L		0.7	20	

Lab Sample ID: LB 500-643686/1-B
Matrix: Solid
Analysis Batch: 644508

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 644034

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Manganese	<0.025		0.025	0.010	mg/L		02/23/22 09:13	02/24/22 16:01	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-644030/24-A
Matrix: Solid
Analysis Batch: 644181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644030
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.483		mg/L		97	80 - 120
Thallium	0.100	0.101		mg/L		101	80 - 120

Lab Sample ID: LCS 500-644030/2-A
Matrix: Solid
Analysis Batch: 644181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644030
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.516		mg/L		103	80 - 120
Thallium	0.100	0.105		mg/L		105	80 - 120

Lab Sample ID: LCS 500-644031/16-A
Matrix: Solid
Analysis Batch: 644181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644031
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.480		mg/L		96	80 - 120
Thallium	0.100	0.100		mg/L		100	80 - 120

Lab Sample ID: LCS 500-644031/2-A
Matrix: Solid
Analysis Batch: 644181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644031
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.512		mg/L		102	80 - 120
Thallium	0.100	0.101		mg/L		101	80 - 120

Lab Sample ID: LB 500-643676/1-B
Matrix: Solid
Analysis Batch: 644181

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644030

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/23/22 09:06	02/23/22 18:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/22 09:06	02/23/22 18:55	1

Lab Sample ID: LB2 500-643677/1-B
Matrix: Solid
Analysis Batch: 644181

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644030

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/23/22 09:06	02/23/22 19:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/22 09:06	02/23/22 19:51	1

Lab Sample ID: 500-212294-5 MS
Matrix: Solid
Analysis Batch: 644181

Client Sample ID: 2233V2-01-B34 (4-8)
Prep Type: TCLP
Prep Batch: 644030
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0060		0.500	0.498		mg/L		100	75 - 125
Thallium	<0.0020		0.100	0.104		mg/L		104	75 - 125

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: 500-212294-5 DU
Matrix: Solid
Analysis Batch: 644181

Client Sample ID: 2233V2-01-B34 (4-8)
Prep Type: TCLP
Prep Batch: 644030

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: LB 500-643679/2-B
Matrix: Solid
Analysis Batch: 644181

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644031

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		02/23/22 09:08	02/23/22 21:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/22 09:08	02/23/22 21:27	1

Lab Sample ID: LB2 500-643681/1-C
Matrix: Solid
Analysis Batch: 644181

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644031

Analyte	LB2	LB2	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		02/23/22 09:08	02/23/22 21:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/22 09:08	02/23/22 21:40	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-643849/12-A
Matrix: Solid
Analysis Batch: 644140

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 643849

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		02/22/22 14:20	02/23/22 14:57	1

Lab Sample ID: LCS 500-643849/14-A
Matrix: Solid
Analysis Batch: 644140

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: MB 500-643853/12-A
Matrix: Solid
Analysis Batch: 644140

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 643853

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		02/22/22 14:20	02/23/22 16:07	1

Lab Sample ID: LCS 500-643853/14-A
Matrix: Solid
Analysis Batch: 644140

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LCS 500-643853/28-A
Matrix: Solid
Analysis Batch: 644140

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00194		mg/L		97	80 - 120

Lab Sample ID: LB 500-643676/2-B
Matrix: Solid
Analysis Batch: 644140

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 643849

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/22/22 14:20	02/23/22 15:00	1

Lab Sample ID: 500-212294-5 MS
Matrix: Solid
Analysis Batch: 644140

Client Sample ID: 2233V2-01-B34 (4-8)
Prep Type: TCLP
Prep Batch: 643849

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000917		mg/L		92	75 - 125

Lab Sample ID: 500-212294-5 DU
Matrix: Solid
Analysis Batch: 644140

Client Sample ID: 2233V2-01-B34 (4-8)
Prep Type: TCLP
Prep Batch: 643849

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Lab Sample ID: LB 500-643679/1-B
Matrix: Solid
Analysis Batch: 644140

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 643853

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/22/22 14:20	02/23/22 16:32	1

Lab Sample ID: LB2 500-643677/2-B
Matrix: Solid
Analysis Batch: 644140

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 643853

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/22/22 14:20	02/23/22 17:06	1

Lab Sample ID: LB2 500-643681/1-B
Matrix: Solid
Analysis Batch: 644140

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 643853

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/22/22 14:20	02/23/22 16:52	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-643812/12-A
Matrix: Solid
Analysis Batch: 644105

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 643812

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00599	J	0.017	0.0056	mg/Kg		02/22/22 13:40	02/23/22 10:05	1

Lab Sample ID: LCS 500-643812/13-A
Matrix: Solid
Analysis Batch: 644105

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643812

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.183		mg/Kg		110	80 - 120

Lab Sample ID: MB 500-643814/12-A
Matrix: Solid
Analysis Batch: 644105

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 643814

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		02/22/22 13:40	02/23/22 10:58	1

Lab Sample ID: LCS 500-643814/13-A
Matrix: Solid
Analysis Batch: 644105

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643814

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.159		mg/Kg		96	80 - 120

Lab Sample ID: 500-212294-11 MS
Matrix: Solid
Analysis Batch: 644105

Client Sample ID: 2233V2-01-B31 (0-4)
Prep Type: Total/NA
Prep Batch: 643814

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.030		0.0959	0.128		mg/Kg	☼	102	75 - 125

Lab Sample ID: 500-212294-11 MSD
Matrix: Solid
Analysis Batch: 644105

Client Sample ID: 2233V2-01-B31 (0-4)
Prep Type: Total/NA
Prep Batch: 643814

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.030		0.0906	0.143		mg/Kg	☼	124	75 - 125	11	20

Lab Sample ID: 500-212294-11 DU
Matrix: Solid
Analysis Batch: 644105

Client Sample ID: 2233V2-01-B31 (0-4)
Prep Type: Total/NA
Prep Batch: 643814

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.030		0.0331		mg/Kg	☼	11	20

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Method: 9045D - pH

Lab Sample ID: 500-212294-16 DU

Matrix: Solid

Analysis Batch: 643084

Client Sample ID: 2233V2-01-B28 (10-15)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.2		7.0		SU		3	

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B37 (0-2)

Lab Sample ID: 500-212294-1

Date Collected: 02/14/22 09:45

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643685	02/21/22 13:25	EA	TAL CHI
SPLP East	Prep	3010A			644033	02/23/22 09:11	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644509	02/24/22 20:10	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	644282	02/23/22 17:59	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6020A		1	644181	02/23/22 18:59	FXG	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	7470A			643849	02/22/22 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	644140	02/23/22 15:06	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643084	02/17/22 17:41	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	642890	02/17/22 07:44	LWN	TAL CHI

Client Sample ID: 2233V2-01-B37 (0-2)

Lab Sample ID: 500-212294-1

Date Collected: 02/14/22 09:45

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			643357	02/14/22 18:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	643734	02/22/22 11:45	PMF	TAL CHI
Total/NA	Prep	3541			643829	02/22/22 11:19	DAK	TAL CHI
Total/NA	Analysis	8270D		1	643963	02/23/22 12:54	JSB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644509	02/24/22 21:43	JJB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 16:50	JJB	TAL CHI
Total/NA	Prep	7471B			643812	02/22/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	644105	02/23/22 10:55	MJG	TAL CHI

Client Sample ID: 2233V2-01-B36 (0-2)

Lab Sample ID: 500-212294-2

Date Collected: 02/14/22 09:50

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643685	02/21/22 13:25	EA	TAL CHI
SPLP East	Prep	3010A			644033	02/23/22 09:11	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644509	02/24/22 20:23	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	644282	02/23/22 18:02	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6020A		1	644181	02/23/22 19:01	FXG	TAL CHI

Eurolins Chicago

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B36 (0-2)

Lab Sample ID: 500-212294-2

Date Collected: 02/14/22 09:50

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	7470A			643849	02/22/22 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	644140	02/23/22 15:08	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643084	02/17/22 17:43	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	642937	02/17/22 08:47	LWN	TAL CHI

Client Sample ID: 2233V2-01-B36 (0-2)

Lab Sample ID: 500-212294-2

Date Collected: 02/14/22 09:50

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			643357	02/14/22 18:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	643734	02/22/22 12:11	PMF	TAL CHI
Total/NA	Prep	3541			643829	02/22/22 11:19	DAK	TAL CHI
Total/NA	Analysis	8270D		1	643963	02/23/22 14:04	JSB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644509	02/24/22 22:06	JJB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 17:13	JJB	TAL CHI
Total/NA	Prep	7471B			643812	02/22/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	644105	02/23/22 10:57	MJG	TAL CHI

Client Sample ID: 2233V2-01-B35 (0-2)

Lab Sample ID: 500-212294-3

Date Collected: 02/14/22 09:55

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643685	02/21/22 13:25	EA	TAL CHI
SPLP East	Prep	3010A			644033	02/23/22 09:11	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644509	02/24/22 20:26	JJB	TAL CHI
TCLP	Leach	1311			643677	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	644508	02/24/22 15:00	JJB	TAL CHI
TCLP	Leach	1311			643677	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	644282	02/23/22 19:43	JJB	TAL CHI
TCLP	Leach	1311			643677	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6020A		1	644181	02/23/22 19:55	FXG	TAL CHI
TCLP	Leach	1311			643677	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	7470A			643853	02/22/22 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	644140	02/23/22 17:09	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643084	02/17/22 17:46	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	642937	02/17/22 08:47	LWN	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B35 (0-2)

Lab Sample ID: 500-212294-3

Date Collected: 02/14/22 09:55

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			643357	02/14/22 18:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	643734	02/22/22 12:38	PMF	TAL CHI
Total/NA	Prep	3541			643829	02/22/22 11:19	DAK	TAL CHI
Total/NA	Analysis	8270D		1	643963	02/23/22 14:28	JSB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644509	02/24/22 22:09	JJB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 17:16	JJB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		5	644645	02/25/22 17:19	JJB	TAL CHI
Total/NA	Prep	7471B			643814	02/22/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	644105	02/23/22 11:07	MJG	TAL CHI

Client Sample ID: 2233V2-01-B34 (0-4)

Lab Sample ID: 500-212294-4

Date Collected: 02/14/22 10:05

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643685	02/21/22 13:25	EA	TAL CHI
SPLP East	Prep	3010A			644033	02/23/22 09:11	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644509	02/24/22 20:29	JJB	TAL CHI
TCLP	Leach	1311			643677	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	644508	02/24/22 15:03	JJB	TAL CHI
TCLP	Leach	1311			643677	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	644282	02/23/22 19:46	JJB	TAL CHI
TCLP	Leach	1311			643677	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6020A		1	644181	02/23/22 19:57	FXG	TAL CHI
TCLP	Leach	1311			643677	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	7470A			643853	02/22/22 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	644140	02/23/22 17:12	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643084	02/17/22 17:48	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	642937	02/17/22 08:47	LWN	TAL CHI

Client Sample ID: 2233V2-01-B34 (0-4)

Lab Sample ID: 500-212294-4

Date Collected: 02/14/22 10:05

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			643357	02/14/22 18:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	643734	02/22/22 13:05	PMF	TAL CHI
Total/NA	Prep	3541			643829	02/22/22 11:19	DAK	TAL CHI
Total/NA	Analysis	8270D		1	643963	02/23/22 14:51	JSB	TAL CHI

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B34 (0-4)

Lab Sample ID: 500-212294-4

Date Collected: 02/14/22 10:05

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644509	02/24/22 22:12	JJB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 17:22	JJB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		5	644645	02/25/22 17:25	JJB	TAL CHI
Total/NA	Prep	7471B			643814	02/22/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	644105	02/23/22 11:08	MJG	TAL CHI

Client Sample ID: 2233V2-01-B34 (4-8)

Lab Sample ID: 500-212294-5

Date Collected: 02/14/22 10:10

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643685	02/21/22 13:25	EA	TAL CHI
SPLP East	Prep	3010A			644033	02/23/22 09:11	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644509	02/24/22 20:32	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	644282	02/23/22 18:12	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6020A		1	644181	02/23/22 19:03	FXG	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	7470A			643849	02/22/22 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	644140	02/23/22 15:11	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643084	02/17/22 17:51	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	642937	02/17/22 08:47	LWN	TAL CHI

Client Sample ID: 2233V2-01-B34 (4-8)

Lab Sample ID: 500-212294-5

Date Collected: 02/14/22 10:10

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			643357	02/14/22 18:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	643734	02/22/22 13:32	PMF	TAL CHI
Total/NA	Prep	3541			643829	02/22/22 11:19	DAK	TAL CHI
Total/NA	Analysis	8270D		1	643963	02/23/22 15:15	JSB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644509	02/24/22 22:16	JJB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 17:28	JJB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		5	644645	02/25/22 17:32	JJB	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B34 (4-8)

Lab Sample ID: 500-212294-5

Date Collected: 02/14/22 10:10

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			643814	02/22/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	644105	02/23/22 11:10	MJG	TAL CHI

Client Sample ID: 2233V2-01-B33 (0-4)

Lab Sample ID: 500-212294-6

Date Collected: 02/14/22 10:20

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643685	02/21/22 13:25	EA	TAL CHI
SPLP East	Prep	3010A			644033	02/23/22 09:11	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644509	02/24/22 20:42	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	644282	02/23/22 18:25	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6020A		1	644181	02/23/22 19:12	FXG	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	7470A			643849	02/22/22 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	644140	02/23/22 15:19	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643084	02/17/22 17:56	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	642937	02/17/22 08:47	LWN	TAL CHI

Client Sample ID: 2233V2-01-B33 (0-4)

Lab Sample ID: 500-212294-6

Date Collected: 02/14/22 10:20

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			643357	02/14/22 18:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	643734	02/22/22 14:26	PMF	TAL CHI
Total/NA	Prep	3541			643829	02/22/22 11:19	DAK	TAL CHI
Total/NA	Analysis	8270D		1	643963	02/23/22 15:39	JSB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644509	02/24/22 22:19	JJB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 17:35	JJB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		5	644645	02/25/22 17:48	JJB	TAL CHI
Total/NA	Prep	7471B			643814	02/22/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	644105	02/23/22 11:12	MJG	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B33 (4-8)

Lab Sample ID: 500-212294-7

Date Collected: 02/14/22 10:25

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643685	02/21/22 13:25	EA	TAL CHI
SPLP East	Prep	3010A			644033	02/23/22 09:11	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644509	02/24/22 20:45	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	644282	02/23/22 18:29	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6020A		1	644181	02/23/22 19:14	FXG	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	7470A			643849	02/22/22 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	644140	02/23/22 15:21	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643084	02/17/22 17:58	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	642937	02/17/22 08:47	LWN	TAL CHI

Client Sample ID: 2233V2-01-B33 (4-8)

Lab Sample ID: 500-212294-7

Date Collected: 02/14/22 10:25

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			643357	02/14/22 18:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	643734	02/22/22 14:52	PMF	TAL CHI
Total/NA	Prep	3541			643829	02/22/22 11:19	DAK	TAL CHI
Total/NA	Analysis	8270D		1	643963	02/23/22 16:02	JSB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644509	02/24/22 22:22	JJB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 17:52	JJB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		5	644645	02/25/22 17:55	JJB	TAL CHI
Total/NA	Prep	7471B			643814	02/22/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	644105	02/23/22 11:14	MJG	TAL CHI

Client Sample ID: 2233V2-01-B32 (0-4)

Lab Sample ID: 500-212294-8

Date Collected: 02/14/22 10:40

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643685	02/21/22 13:25	EA	TAL CHI
SPLP East	Prep	3010A			644033	02/23/22 09:11	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644509	02/24/22 20:49	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	644282	02/23/22 18:32	JJB	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B32 (0-4)

Lab Sample ID: 500-212294-8

Date Collected: 02/14/22 10:40

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6020A		1	644181	02/23/22 19:20	FXG	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	7470A			643849	02/22/22 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	644140	02/23/22 15:29	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643084	02/17/22 18:01	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	642937	02/17/22 08:47	LWN	TAL CHI

Client Sample ID: 2233V2-01-B32 (0-4)

Lab Sample ID: 500-212294-8

Date Collected: 02/14/22 10:40

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			643357	02/14/22 18:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	643734	02/22/22 15:19	PMF	TAL CHI
Total/NA	Prep	3541			643829	02/22/22 11:19	DAK	TAL CHI
Total/NA	Analysis	8270D		1	643963	02/23/22 16:26	JSB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644509	02/24/22 22:26	JJB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 17:58	JJB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		5	644645	02/25/22 18:01	JJB	TAL CHI
Total/NA	Prep	7471B			643814	02/22/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	644105	02/23/22 11:15	MJG	TAL CHI

Client Sample ID: 2233V2-01-B32 (4-8)

Lab Sample ID: 500-212294-9

Date Collected: 02/14/22 10:45

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643685	02/21/22 13:25	EA	TAL CHI
SPLP East	Prep	3010A			644033	02/23/22 09:11	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644509	02/24/22 20:52	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	644282	02/23/22 18:36	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6020A		1	644181	02/23/22 19:22	FXG	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	7470A			643849	02/22/22 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	644140	02/23/22 15:31	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643084	02/17/22 18:03	LWN	TAL CHI

Euofins Chicago

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B32 (4-8)

Lab Sample ID: 500-212294-9

Date Collected: 02/14/22 10:45

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	642937	02/17/22 08:47	LWN	TAL CHI

Client Sample ID: 2233V2-01-B32 (4-8)

Lab Sample ID: 500-212294-9

Date Collected: 02/14/22 10:45

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			643357	02/14/22 18:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	643734	02/22/22 15:46	PMF	TAL CHI
Total/NA	Prep	3541			643829	02/22/22 11:19	DAK	TAL CHI
Total/NA	Analysis	8270D		1	644221	02/24/22 16:45	SS	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644509	02/24/22 22:29	JJB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 18:05	JJB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		5	644645	02/25/22 18:08	JJB	TAL CHI
Total/NA	Prep	7471B			643814	02/22/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	644105	02/23/22 11:17	MJG	TAL CHI

Client Sample ID: 2233V2-01-B32 (4-8)D

Lab Sample ID: 500-212294-10

Date Collected: 02/14/22 10:48

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643685	02/21/22 13:25	EA	TAL CHI
SPLP East	Prep	3010A			644033	02/23/22 09:11	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644509	02/24/22 20:55	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	644282	02/23/22 18:39	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6020A		1	644181	02/23/22 19:24	FXG	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	7470A			643849	02/22/22 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	644140	02/23/22 15:34	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643084	02/17/22 18:05	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	642937	02/17/22 08:47	LWN	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B32 (4-8)D

Lab Sample ID: 500-212294-10

Date Collected: 02/14/22 10:48

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			643357	02/14/22 18:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	643734	02/22/22 16:13	PMF	TAL CHI
Total/NA	Prep	3541			643829	02/22/22 11:19	DAK	TAL CHI
Total/NA	Analysis	8270D		1	643963	02/23/22 17:13	JSB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644509	02/24/22 22:39	JJB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 18:11	JJB	TAL CHI
Total/NA	Prep	7471B			643814	02/22/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	644105	02/23/22 11:19	MJG	TAL CHI

Client Sample ID: 2233V2-01-B31 (0-4)

Lab Sample ID: 500-212294-11

Date Collected: 02/14/22 10:55

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643685	02/21/22 13:25	EA	TAL CHI
SPLP East	Prep	3010A			644033	02/23/22 09:11	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644509	02/24/22 20:58	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	644282	02/23/22 18:42	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6020A		1	644181	02/23/22 19:26	FXG	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	7470A			643849	02/22/22 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	644140	02/23/22 15:37	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643084	02/17/22 18:08	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	642937	02/17/22 08:47	LWN	TAL CHI

Client Sample ID: 2233V2-01-B31 (0-4)

Lab Sample ID: 500-212294-11

Date Collected: 02/14/22 10:55

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			643357	02/14/22 18:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	643734	02/22/22 16:40	PMF	TAL CHI
Total/NA	Prep	3541			643829	02/22/22 11:19	DAK	TAL CHI
Total/NA	Analysis	8270D		1	643963	02/23/22 17:37	JSB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644509	02/24/22 22:42	JJB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 18:14	JJB	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B31 (0-4)

Lab Sample ID: 500-212294-11

Date Collected: 02/14/22 10:55

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			643814	02/22/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	644105	02/23/22 11:21	MJG	TAL CHI

Client Sample ID: 2233V2-01-B30 (0-4)

Lab Sample ID: 500-212294-12

Date Collected: 02/14/22 11:05

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643685	02/21/22 13:25	EA	TAL CHI
SPLP East	Prep	3010A			644033	02/23/22 09:11	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644509	02/24/22 21:01	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	644282	02/23/22 18:56	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6020A		1	644181	02/23/22 19:28	FXG	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	7470A			643849	02/22/22 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	644140	02/23/22 15:39	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643084	02/17/22 18:10	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	642937	02/17/22 08:47	LWN	TAL CHI

Client Sample ID: 2233V2-01-B30 (0-4)

Lab Sample ID: 500-212294-12

Date Collected: 02/14/22 11:05

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			643357	02/14/22 18:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	643734	02/22/22 17:06	PMF	TAL CHI
Total/NA	Prep	3541			643829	02/22/22 11:19	DAK	TAL CHI
Total/NA	Analysis	8270D		1	643963	02/23/22 18:00	JSB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644509	02/24/22 22:45	JJB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 18:17	JJB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		5	644645	02/25/22 18:30	JJB	TAL CHI
Total/NA	Prep	7471B			643814	02/22/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	644105	02/23/22 11:32	MJG	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B29 (0-4)

Lab Sample ID: 500-212294-13

Date Collected: 02/14/22 11:20

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643685	02/21/22 13:25	EA	TAL CHI
SPLP East	Prep	3010A			644033	02/23/22 09:11	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644509	02/24/22 21:04	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	644282	02/23/22 18:59	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6020A		1	644181	02/23/22 19:30	FXG	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	7470A			643849	02/22/22 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	644140	02/23/22 15:42	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643084	02/17/22 18:13	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	642937	02/17/22 08:47	LWN	TAL CHI

Client Sample ID: 2233V2-01-B29 (0-4)

Lab Sample ID: 500-212294-13

Date Collected: 02/14/22 11:20

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			643357	02/14/22 18:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	643734	02/22/22 17:33	PMF	TAL CHI
Total/NA	Prep	3541			643829	02/22/22 11:19	DAK	TAL CHI
Total/NA	Analysis	8270D		1	643963	02/23/22 18:24	JSB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644509	02/24/22 22:48	JJB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 18:34	JJB	TAL CHI
Total/NA	Prep	7471B			643814	02/22/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	644105	02/23/22 11:34	MJG	TAL CHI

Client Sample ID: 2233V2-01-B28 (0-5)

Lab Sample ID: 500-212294-14

Date Collected: 02/14/22 11:45

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643685	02/21/22 13:25	EA	TAL CHI
SPLP East	Prep	3010A			644033	02/23/22 09:11	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644509	02/24/22 21:07	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	644282	02/23/22 19:02	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6020A		1	644181	02/23/22 19:32	FXG	TAL CHI

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B28 (0-5)

Lab Sample ID: 500-212294-14

Date Collected: 02/14/22 11:45

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	7470A			643849	02/22/22 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	644140	02/23/22 15:44	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643084	02/17/22 18:15	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	642937	02/17/22 08:47	LWN	TAL CHI

Client Sample ID: 2233V2-01-B28 (0-5)

Lab Sample ID: 500-212294-14

Date Collected: 02/14/22 11:45

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			643357	02/14/22 18:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	643734	02/22/22 18:00	PMF	TAL CHI
Total/NA	Prep	3541			643829	02/22/22 11:19	DAK	TAL CHI
Total/NA	Analysis	8270D		1	644203	02/24/22 18:52	SS	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644509	02/24/22 22:52	JJB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 18:37	JJB	TAL CHI
Total/NA	Prep	7471B			643814	02/22/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	644105	02/23/22 11:36	MJG	TAL CHI

Client Sample ID: 2233V2-01-B28 (5-10)

Lab Sample ID: 500-212294-15

Date Collected: 02/14/22 11:50

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643685	02/21/22 13:25	EA	TAL CHI
SPLP East	Prep	3010A			644033	02/23/22 09:11	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644509	02/24/22 21:11	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	644282	02/23/22 19:06	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6020A		1	644181	02/23/22 19:34	FXG	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	7470A			643849	02/22/22 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	644140	02/23/22 15:47	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643084	02/17/22 18:18	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	642937	02/17/22 08:47	LWN	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B28 (5-10)

Lab Sample ID: 500-212294-15

Date Collected: 02/14/22 11:50

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			643357	02/14/22 18:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	643734	02/22/22 18:27	PMF	TAL CHI
Total/NA	Prep	3541			643829	02/22/22 11:19	DAK	TAL CHI
Total/NA	Analysis	8270D		1	643957	02/23/22 13:12	SS	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644509	02/24/22 22:55	JJB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 18:40	JJB	TAL CHI
Total/NA	Prep	7471B			643814	02/22/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	644105	02/23/22 11:38	MJG	TAL CHI

Client Sample ID: 2233V2-01-B28 (10-15)

Lab Sample ID: 500-212294-16

Date Collected: 02/14/22 11:55

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643685	02/21/22 13:25	EA	TAL CHI
SPLP East	Prep	3010A			644033	02/23/22 09:11	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644509	02/24/22 21:20	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	644282	02/23/22 19:09	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6020A		1	644181	02/23/22 19:36	FXG	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	7470A			643849	02/22/22 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	644140	02/23/22 15:49	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643084	02/17/22 18:22	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	642937	02/17/22 08:47	LWN	TAL CHI

Client Sample ID: 2233V2-01-B28 (10-15)

Lab Sample ID: 500-212294-16

Date Collected: 02/14/22 11:55

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			643357	02/14/22 18:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	643734	02/22/22 18:53	PMF	TAL CHI
Total/NA	Prep	3541			643829	02/22/22 11:19	DAK	TAL CHI
Total/NA	Analysis	8270D		1	643957	02/23/22 13:33	SS	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644509	02/24/22 22:58	JJB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 18:43	JJB	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B28 (10-15)

Lab Sample ID: 500-212294-16

Date Collected: 02/14/22 11:55

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			643814	02/22/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	644105	02/23/22 11:40	MJG	TAL CHI

Client Sample ID: 2233V2-01-B28 (15-20)

Lab Sample ID: 500-212294-17

Date Collected: 02/14/22 12:00

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643685	02/21/22 13:25	EA	TAL CHI
SPLP East	Prep	3010A			644033	02/23/22 09:11	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644509	02/24/22 21:24	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	644282	02/23/22 19:13	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6020A		1	644181	02/23/22 19:38	FXG	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	7470A			643849	02/22/22 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	644140	02/23/22 15:52	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643084	02/17/22 18:27	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	642937	02/17/22 08:47	LWN	TAL CHI

Client Sample ID: 2233V2-01-B28 (15-20)

Lab Sample ID: 500-212294-17

Date Collected: 02/14/22 12:00

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			643357	02/14/22 18:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	643734	02/22/22 19:20	PMF	TAL CHI
Total/NA	Prep	3541			643829	02/22/22 11:19	DAK	TAL CHI
Total/NA	Analysis	8270D		1	643957	02/23/22 13:54	SS	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644509	02/24/22 23:01	JJB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 18:46	JJB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		5	644872	02/28/22 11:42	JJB	TAL CHI
Total/NA	Prep	7471B			643814	02/22/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	644105	02/23/22 11:42	MJG	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B27 (0-4)

Lab Sample ID: 500-212294-18

Date Collected: 02/14/22 12:50

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643685	02/21/22 13:25	EA	TAL CHI
SPLP East	Prep	3010A			644033	02/23/22 09:11	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644509	02/24/22 21:27	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	644282	02/23/22 19:16	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6020A		1	644181	02/23/22 19:44	FXG	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	7470A			643849	02/22/22 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	644140	02/23/22 15:59	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643084	02/17/22 18:29	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	642937	02/17/22 08:47	LWN	TAL CHI

Client Sample ID: 2233V2-01-B27 (0-4)

Lab Sample ID: 500-212294-18

Date Collected: 02/14/22 12:50

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			643357	02/14/22 18:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	643993	02/23/22 12:42	JDD	TAL CHI
Total/NA	Prep	3541	DL		643829	02/22/22 11:19	DAK	TAL CHI
Total/NA	Analysis	8270D	DL	10	644203	02/24/22 19:17	SS	TAL CHI
Total/NA	Prep	3541			643829	02/22/22 11:19	DAK	TAL CHI
Total/NA	Analysis	8270D		1	643957	02/23/22 14:14	SS	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644509	02/24/22 23:04	JJB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 18:49	JJB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		5	644872	02/28/22 11:48	JJB	TAL CHI
Total/NA	Prep	7471B			643814	02/22/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	644105	02/23/22 11:44	MJG	TAL CHI

Client Sample ID: 2233V2-01-B27 (4-8)

Lab Sample ID: 500-212294-19

Date Collected: 02/14/22 12:55

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643685	02/21/22 13:25	EA	TAL CHI
SPLP East	Prep	3010A			644033	02/23/22 09:11	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644509	02/24/22 21:30	JJB	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B27 (4-8)

Lab Sample ID: 500-212294-19

Date Collected: 02/14/22 12:55

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	644282	02/23/22 19:19	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6020A		1	644181	02/23/22 19:46	FXG	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	7470A			643849	02/22/22 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	644140	02/23/22 16:02	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643084	02/17/22 18:32	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	642937	02/17/22 08:47	LWN	TAL CHI

Client Sample ID: 2233V2-01-B27 (4-8)

Lab Sample ID: 500-212294-19

Date Collected: 02/14/22 12:55

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			643357	02/14/22 18:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	643739	02/22/22 15:07	PMF	TAL CHI
Total/NA	Prep	3541			643829	02/22/22 11:19	DAK	TAL CHI
Total/NA	Analysis	8270D		1	643957	02/23/22 14:35	SS	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644509	02/24/22 23:07	JJB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 18:52	JJB	TAL CHI
Total/NA	Prep	7471B			643814	02/22/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	644105	02/23/22 11:46	MJG	TAL CHI

Client Sample ID: 2233V2-01-B15 (0-3)

Lab Sample ID: 500-212294-20

Date Collected: 02/14/22 13:35

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643685	02/21/22 13:25	EA	TAL CHI
SPLP East	Prep	3010A			644033	02/23/22 09:11	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644509	02/24/22 21:33	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	644282	02/23/22 19:23	JJB	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644030	02/23/22 09:06	BDE	TAL CHI
TCLP	Analysis	6020A		1	644181	02/23/22 19:49	FXG	TAL CHI
TCLP	Leach	1311			643676	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	7470A			643849	02/22/22 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	644140	02/23/22 16:05	MJG	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B15 (0-3)

Lab Sample ID: 500-212294-20

Date Collected: 02/14/22 13:35

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	643084	02/17/22 18:34	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	642937	02/17/22 08:47	LWN	TAL CHI

Client Sample ID: 2233V2-01-B15 (0-3)

Lab Sample ID: 500-212294-20

Date Collected: 02/14/22 13:35

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			643357	02/14/22 18:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	643739	02/22/22 15:33	PMF	TAL CHI
Total/NA	Prep	3541			643829	02/22/22 11:19	DAK	TAL CHI
Total/NA	Analysis	8270D		1	643957	02/23/22 14:56	SS	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644509	02/24/22 23:17	JJB	TAL CHI
Total/NA	Prep	3050B			644039	02/24/22 10:16		TAL CHI
Total/NA	Analysis	6010B		1	644645	02/25/22 18:56	JJB	TAL CHI
Total/NA	Prep	7471B			643814	02/22/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	644105	02/23/22 11:51	MJG	TAL CHI

Client Sample ID: 2233V2-01-B13 (0-2.6)

Lab Sample ID: 500-212294-21

Date Collected: 02/14/22 13:50

Matrix: Solid

Date Received: 02/14/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643686	02/21/22 13:25	EA	TAL CHI
SPLP East	Prep	3010A			644034	02/23/22 09:13	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644508	02/24/22 16:08	JJB	TAL CHI
TCLP	Leach	1311			643679	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644031	02/23/22 09:08	BDE	TAL CHI
TCLP	Analysis	6010B		1	644300	02/23/22 23:19	JJB	TAL CHI
TCLP	Leach	1311			643679	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644031	02/23/22 09:08	BDE	TAL CHI
TCLP	Analysis	6020A		1	644181	02/23/22 21:29	FXG	TAL CHI
TCLP	Leach	1311			643679	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	7470A			643853	02/22/22 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	644140	02/23/22 16:34	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643084	02/17/22 18:37	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	642937	02/17/22 08:47	LWN	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B13 (0-2.6)
Date Collected: 02/14/22 13:50
Date Received: 02/14/22 17:05

Lab Sample ID: 500-212294-21
Matrix: Solid
Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			643357	02/14/22 18:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	643739	02/22/22 15:59	PMF	TAL CHI
Total/NA	Prep	3541			643085	02/18/22 06:07	FRG	TAL CHI
Total/NA	Analysis	8270D		1	643726	02/22/22 15:15	SS	TAL CHI
Total/NA	Prep	3050B			644302	02/25/22 09:04	BDE	TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 14:42	JJB	TAL CHI
Total/NA	Prep	3050B			644302	02/25/22 09:04	BDE	TAL CHI
Total/NA	Analysis	6010B		1	644656	02/26/22 01:16	JJB	TAL CHI
Total/NA	Prep	3050B			644302	02/25/22 09:04	BDE	TAL CHI
Total/NA	Analysis	6010B		5	644768	02/27/22 14:44	JJB	TAL CHI
Total/NA	Prep	7471B			643814	02/22/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	644105	02/23/22 11:53	MJG	TAL CHI

Client Sample ID: 2233V2-01-B12(0-3.2)
Date Collected: 02/14/22 14:00
Date Received: 02/14/22 17:05

Lab Sample ID: 500-212294-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643686	02/21/22 13:25	EA	TAL CHI
SPLP East	Prep	3010A			644034	02/23/22 09:13	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644508	02/24/22 16:11	JJB	TAL CHI
TCLP	Leach	1311			643681	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644031	02/23/22 09:08	BDE	TAL CHI
TCLP	Analysis	6010B		1	644508	02/24/22 14:56	JJB	TAL CHI
TCLP	Leach	1311			643681	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644031	02/23/22 09:08	BDE	TAL CHI
TCLP	Analysis	6010B		1	644300	02/23/22 23:53	JJB	TAL CHI
TCLP	Leach	1311			643681	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	3010A			644031	02/23/22 09:08	BDE	TAL CHI
TCLP	Analysis	6020A		1	644181	02/23/22 21:44	FXG	TAL CHI
TCLP	Leach	1311			643681	02/21/22 16:08	EA	TAL CHI
TCLP	Prep	7470A			643853	02/22/22 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	644140	02/23/22 17:04	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643084	02/17/22 18:39	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	642976	02/17/22 10:51	LWN	TAL CHI

Client Sample ID: 2233V2-01-B12(0-3.2)
Date Collected: 02/14/22 14:00
Date Received: 02/14/22 17:05

Lab Sample ID: 500-212294-22
Matrix: Solid
Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			643357	02/14/22 18:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	643739	02/22/22 16:25	PMF	TAL CHI
Total/NA	Prep	3541			643085	02/18/22 06:07	FRG	TAL CHI
Total/NA	Analysis	8270D		1	643726	02/22/22 15:38	SS	TAL CHI

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Client Sample ID: 2233V2-01-B12(0-3.2)

Lab Sample ID: 500-212294-22

Date Collected: 02/14/22 14:00

Matrix: Solid

Date Received: 02/14/22 17:05

Percent Solids: 85.0

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Prep	3050B			644302	02/25/22 09:04	BDE	TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 14:52	JJB	TAL CHI
Total/NA	Prep	3050B			644302	02/25/22 09:04	BDE	TAL CHI
Total/NA	Analysis	6010B		1	644656	02/26/22 01:19	JJB	TAL CHI
Total/NA	Prep	3050B			644302	02/25/22 09:04	BDE	TAL CHI
Total/NA	Analysis	6010B		5	644768	02/27/22 14:59	JJB	TAL CHI
Total/NA	Prep	7471B			643814	02/22/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	644105	02/23/22 11:55	MJG	TAL CHI

Laboratory References:

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



Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212294-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

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Chain of Custody Record

542792



Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager <i>A Tiebout</i>		Site Contact <i>A Hoppel</i>		Date <i>2/14/2022</i>		COC No <i>1</i>																					
Company Name <i>WSP</i>		Tel/Email		Lab Contact <i>R Wright</i>		Carrier		<i>1</i> of <i>2</i> COCs																					
Address <i>30 N LaSalle</i>		Analysis Turnaround Time																											
City/State/Zip <i>Chicago IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____																											
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day																											
Fax		500-212294 COC Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=Grab) Matrix # of Cont. Filtered Sample (Y/N) Perform MS / MSD (Y/N) PH % Solids TD-TU metals VOCs SVOCs TCLP Metals*																											
Project Name <i>7 DOT WOODS</i>																													
Site <i>Toliet</i>																													
P O #																													
		For Lab Use Only Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/> Job / SDG No <i>500-212294</i>																											
Sample Specific Notes																													
<i>1</i> 2233V2-01-B37 (0-2)		<i>2/14/22</i>	<i>0945</i>	<i>C</i>	<i>S</i>	<i>2</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>											
<i>2</i> 2233V2-01-B36 (0-2)		<i>2/14/22</i>	<i>0950</i>	<i>C</i>	<i>S</i>	<i>2</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>											
<i>3</i> 2233V2-01-B35 (0-2)		<i>2/14/22</i>	<i>0955</i>	<i>C</i>	<i>S</i>	<i>2</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>											
<i>4</i> 2233V2-01-B34 (0-4)		<i>2/14/22</i>	<i>1005</i>	<i>C</i>	<i>S</i>	<i>2</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>											
<i>5</i> 2233V2-01-B34 (4-8)		<i>2/14/22</i>	<i>1010</i>	<i>C</i>	<i>S</i>	<i>2</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>											
<i>6</i> 2233V2-01-B33 (0-4)		<i>2/14/22</i>	<i>1020</i>	<i>C</i>	<i>S</i>	<i>2</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>											
<i>7</i> 2233V2-01-B33 (4-8)		<i>2/14/22</i>	<i>1025</i>	<i>C</i>	<i>S</i>	<i>2</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>											
<i>8</i> 2233V2-01-B32 (0-4)		<i>2/14/22</i>	<i>1040</i>	<i>C</i>	<i>S</i>	<i>2</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>											
<i>9</i> 2233V2-01-B32 (4-8)		<i>2/14/22</i>	<i>1045</i>	<i>C</i>	<i>S</i>	<i>2</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>											
<i>10</i> 2233V2-01-B32 (4-8) DUP		<i>2/14/22</i>	<i>1048</i>	<i>C</i>	<i>S</i>	<i>2</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>											
<i>11</i> 2233V2-01-B31 (0-4)		<i>2/14/22</i>	<i>1055</i>	<i>C</i>	<i>S</i>	<i>2</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>											
<i>12</i> 2233V2-01-B30 (0-4)		<i>2/14/22</i>	<i>1105</i>	<i>C</i>	<i>S</i>	<i>2</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>											
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other																													
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																			
<input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown										<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months																			
Special Instructions/QC Requirements & Comments: <i>* SPLP results based on TCLP results</i> <i>4.6 → 3.6, 3.1 → 2.1</i>																													
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No					Custody Seal No _____					Cooler Temp (°C) Obs'd _____ Corr'd _____					Therm ID No _____														
Relinquished by <i>Boyan McHenry</i>					Company <i>WSP</i>					Date/Time <i>1442 2/14/22</i>					Received by <i>P. Neal</i>					Company <i>eurofins</i>					Date/Time <i>2/17/22 1442</i>				
Relinquished by <i>P. Neal</i>					Company <i>eurofins</i>					Date/Time <i>2/14/22 1705</i>					Received by _____					Company _____					Date/Time _____				
Relinquished by _____					Company _____					Date/Time _____					Received in Laboratory by <i>Shirley Scott</i>					Company <i>EBPA</i>					Date/Time <i>2/14/22 1705</i>				

Chain of Custody Record

542793



Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact		Project Manager <i>D Flebow</i>		Site Contact <i>A Hoppel</i>		Date: <i>2/14/2022</i>		COC No <i>2</i>		
Company Name <i>WSP</i>		Tel/Email		Lab Contact <i>R Wright</i>		Carrier		<i>2</i> of <i>2</i> COCs		
Address <i>30 N Logan</i>		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) <i>pH</i> <i>1% solids</i> <i>Total metals</i> <i>VOCs</i> <i>SVOCs</i> <i>TCUP metals*</i>		Sampler: For Lab Use Only Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/> Job / SDG No <i>500-2/2294</i>		Sample Specific Notes		
City/State/Zip <i>Chicago IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS								
Phone		TAT if different from Below _____								
Fax		<input type="checkbox"/> 2 weeks								
Project Name <i>1 DOT WO 003</i>		<input type="checkbox"/> 1 week								
Site <i>J0124</i>		<input type="checkbox"/> 2 days								
P O #		<input type="checkbox"/> 1 day								
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.				
<i>13</i>	<i>2233V2-01-B29(0-4)</i>	<i>2/14/2022</i>	<i>1120</i>	<i>C</i>	<i>S</i>	<i>2</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>14</i>	<i>2233V2-01-B28(0-5)</i>	<i>2/14/22</i>	<i>1145</i>	<i>C</i>	<i>S</i>	<i>2</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>15</i>	<i>2233V2-01-B28(5-10)</i>	<i>2/14/22</i>	<i>1150</i>	<i>C</i>	<i>S</i>	<i>2</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>16</i>	<i>2233V2-01-B28(10-15)</i>	<i>2/14/22</i>	<i>1155</i>	<i>C</i>	<i>S</i>	<i>2</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>17</i>	<i>2233V2-01-B28(15-20)</i>	<i>2/14/22</i>	<i>1200</i>	<i>C</i>	<i>S</i>	<i>2</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>18</i>	<i>2233V2-01-B27(0-5) (0-4) BM</i>	<i>2/14/22</i>	<i>1250</i>	<i>C</i>	<i>S</i>	<i>2</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>19</i>	<i>2233V2-01-B27(5-10) (4-8) BM</i>	<i>2/14/22</i>	<i>1255</i>	<i>C</i>	<i>S</i>	<i>2</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>
	<i>2233V2-01-B27(10-15)</i>	<i>2/14/22</i>	<i>1300</i>	<i>C</i>	<i>S</i>	<i>2</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>
	<i>2233V2-01-B27(15-20)</i>	<i>2/14/22</i>	<i>1305</i>	<i>C</i>	<i>S</i>	<i>2</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>20</i>	<i>2233V2-01-B15(0-3)</i>	<i>2/14/22</i>	<i>1335</i>	<i>C</i>	<i>S</i>	<i>2</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>21</i>	<i>2233V2-01-B13(0-2.6)</i>	<i>2/14/22</i>	<i>1350</i>	<i>C</i>	<i>S</i>	<i>2</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>22</i>	<i>2233V2-01-B12(0-3.2)</i>	<i>2/14/22</i>	<i>1400</i>	<i>C</i>	<i>S</i>	<i>2</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other										
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown							<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months			
Special Instructions/QC Requirements & Comments: <i>* SPLP analysis based on TCUP results</i>										
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd		Corr'd		Therm ID No		
Relinquished by <i>Bryan McHenry</i>		Company <i>WSP</i>		Date/Time <i>2/14/22 1442</i>		Received by <i>Ned</i>		Company <i>eurifins</i>		Date/Time <i>2/14/22 1442</i>
Relinquished by <i>Ned</i>		Company <i>eurifins</i>		Date/Time <i>2/14/22 1705</i>		Received by		Company		Date/Time
Relinquished by		Company		Date/Time		Received in Laboratory by <i>Shirley Smith</i>		Company <i>WSP</i>		Date/Time <i>2/14/22 1705</i>

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-212294-1

Login Number: 212294

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.6.2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

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

Laboratory Job ID: 500-212335-1
Client Project/Site: IDOT - 196-002-WO003 Joliet

For:
WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602

Attn: Dean Tiebot



Authorized for release by:
2/28/2022 3:31:42 PM

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

LINKS

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results through
TotalAccess

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www.eurofinsus.com/Env

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

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

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



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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Job ID: 500-212335-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-212335-1

Receipt

The samples were received on 2/15/2022 12:36 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.2° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) for 644471 recovered outside control limits for Bromomethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. 223V2-01-B05 (0-5.8) (500-212335-6)

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

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-644209 was outside the method criteria for the following analyte(s): 2,4-Dinitrophenol, Carbazole, Indeno[1,2,3-cd]pyrene, Hexachlorocyclopentadiene and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-644215 was outside the method criteria for the following analyte(s): 4-Nitrophenol, Butyl benzyl phthalate, Bis(2-ethylhexyl) phthalate, Hexachlorocyclopentadiene, Hexachlorobutadiene, 4-Chlorophenyl phenyl ether, 2-Methylphenol, 2,4,5-Trichlorophenol and 2,4,6-Trichlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Perylene-d12 Internal standard (ISTD) response for the following sample and associated MS/MSD was outside of acceptance limits. No further corrective action was required as the matrix effect was confirmed on the parent sample from the subsequent MS/MSD analysis. 223V2-01-B08 (0-4) (500-212335-1), (500-212335-D-1-G MS) and (500-212335-D-1-H MSD).

Method 8270D: Perylene-d12 Internal standard (ISTD) response for the following samples was outside of acceptance limits: 223V2-01-B07 (0-4) (500-212335-2), 223V2-01-B07 (4-7.2) (500-212335-3), 223V2-01-B06 (0-5.7) (500-212335-4) and 223V2-01-B09 (0-3.4) (500-212335-5). Analytes associated to this internal standard were non-detect and/or below the reporting limit; therefore, re-analysis was not performed.

Method 8270D: Internal standard responses for Perylene-d12 was outside of acceptance limits for the following samples: 223V2-01-B05 (0-5.8) (500-212335-6). The samples were run a second time with concurring results. Results with the highest ISTD recovery have been reported.

Method 8270D: The continuing calibration verification (CCV) associated with batch 500-644447 recovered above the upper control limit for multi analytes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 500-644447/2).

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

Metals

Method 6010B: The method blank for preparation batch 500-644323 and analytical batch 500-644768 contained Iron above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 7470A: The initial calibration verification (ICV) result for batch 644370 recovered slightly above the 90-110% control limits for Hg (111%). All CCV's and batch QC were within acceptable limits. Sample results were non-detects, and have been reported as qualified data.

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

Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Job ID: 500-212335-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

General Chemistry

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

Organic Prep

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

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Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B08 (0-4)

Lab Sample ID: 500-212335-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.038		0.018	0.0078	mg/Kg	1	✳	8260B	Total/NA
2-Butanone (MEK)	0.0079		0.0045	0.0020	mg/Kg	1	✳	8260B	Total/NA
Naphthalene	0.0096	J	0.038	0.0060	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.016	J	0.078	0.0071	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.0066	J	0.038	0.0051	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.010	J	0.038	0.0054	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.082		0.038	0.0054	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.026	J	0.038	0.0065	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.076		0.038	0.0072	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.22		0.038	0.0077	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.058		0.038	0.0052	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.14		0.038	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.21	*3	0.038	0.0084	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.34	*3	0.038	0.0075	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.15	*3 F1	0.038	0.010	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.098	*3 F1	0.038	0.0075	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.56	*3 F1	0.038	0.012	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.28	J F1	1.1	0.21	mg/Kg	1	✳	6010B	Total/NA
Arsenic	5.6	F2	0.54	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	41	F1	0.54	0.062	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.47		0.22	0.051	mg/Kg	1	✳	6010B	Total/NA
Boron	12		2.7	0.25	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.18		0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	9200	B F2	54	9.2	mg/Kg	5	✳	6010B	Total/NA
Chromium	11	B F1	0.54	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	6.9		0.27	0.071	mg/Kg	1	✳	6010B	Total/NA
Copper	14	B F1	0.54	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	1600	B F2	54	28	mg/Kg	5	✳	6010B	Total/NA
Lead	23	F2	0.27	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	5300	F2	27	13	mg/Kg	5	✳	6010B	Total/NA
Manganese	350	B	0.54	0.079	mg/Kg	1	✳	6010B	Total/NA
Nickel	16	F1	0.54	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	2200	F1	27	9.6	mg/Kg	1	✳	6010B	Total/NA
Silver	0.17	J	0.27	0.070	mg/Kg	1	✳	6010B	Total/NA
Sodium	1300	F1	54	8.1	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.51	J F1	0.54	0.27	mg/Kg	1	✳	6010B	Total/NA
Vanadium	15	F1	0.27	0.064	mg/Kg	1	✳	6010B	Total/NA
Zinc	60	F1 F2	1.1	0.48	mg/Kg	1	✳	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.077	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	3.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.021	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.18	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.90		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.060		0.018	0.0059	mg/Kg	1	✳	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B07 (0-4)

Lab Sample ID: 500-212335-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.40	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	9.8		0.58	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	61		0.58	0.066	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.64		0.23	0.054	mg/Kg	1	✳	6010B	Total/NA
Boron	10		2.9	0.27	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.027	J	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	31000	B	12	2.0	mg/Kg	1	✳	6010B	Total/NA
Chromium	18	B	0.58	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	11		0.29	0.076	mg/Kg	1	✳	6010B	Total/NA
Copper	22	B	0.58	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	23000	B	12	6.1	mg/Kg	1	✳	6010B	Total/NA
Lead	16		0.29	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	18000		5.8	2.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	360	B	0.58	0.084	mg/Kg	1	✳	6010B	Total/NA
Nickel	30		0.58	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	2300		29	10	mg/Kg	1	✳	6010B	Total/NA
Silver	0.33		0.29	0.075	mg/Kg	1	✳	6010B	Total/NA
Sodium	1200		58	8.6	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.87		0.58	0.29	mg/Kg	1	✳	6010B	Total/NA
Vanadium	24		0.29	0.069	mg/Kg	1	✳	6010B	Total/NA
Zinc	70		1.2	0.51	mg/Kg	1	✳	6010B	Total/NA
Barium	0.42	J F1	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.11	F1	0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.055		0.020	0.0066	mg/Kg	1	✳	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 223V2-01-B07 (4-7.2)

Lab Sample ID: 500-212335-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.096		0.024	0.010	mg/Kg	1	✳	8260B	Total/NA
2-Butanone (MEK)	0.023		0.0060	0.0027	mg/Kg	1	✳	8260B	Total/NA
Naphthalene	0.019	J	0.038	0.0059	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.045	J	0.077	0.0071	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.043		0.038	0.0054	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.019	J	0.038	0.0076	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.013	J	0.038	0.010	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.014	J *3	0.038	0.012	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.25	J	1.1	0.21	mg/Kg	1	✳	6010B	Total/NA
Arsenic	6.1		0.53	0.18	mg/Kg	1	✳	6010B	Total/NA
Barium	37		0.53	0.060	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.67		0.21	0.049	mg/Kg	1	✳	6010B	Total/NA
Boron	14		2.6	0.25	mg/Kg	1	✳	6010B	Total/NA
Calcium	79000	B	53	8.9	mg/Kg	5	✳	6010B	Total/NA
Chromium	18	B	0.53	0.26	mg/Kg	1	✳	6010B	Total/NA
Cobalt	12		0.26	0.069	mg/Kg	1	✳	6010B	Total/NA
Copper	22	B	0.53	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	20000	B	11	5.5	mg/Kg	1	✳	6010B	Total/NA
Lead	12		0.26	0.12	mg/Kg	1	✳	6010B	Total/NA
Magnesium	29000		5.3	2.6	mg/Kg	1	✳	6010B	Total/NA
Manganese	410	B	0.53	0.077	mg/Kg	1	✳	6010B	Total/NA
Nickel	30		0.53	0.15	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B07 (4-7.2) (Continued)

Lab Sample ID: 500-212335-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	3300		26	9.3	mg/Kg	1	☼	6010B	Total/NA
Silver	0.24	J	0.26	0.068	mg/Kg	1	☼	6010B	Total/NA
Sodium	910		53	7.8	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.71		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.26	0.062	mg/Kg	1	☼	6010B	Total/NA
Zinc	56		1.1	0.46	mg/Kg	1	☼	6010B	Total/NA
Barium	0.58		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.021	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.041		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.021	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.027		0.017	0.0056	mg/Kg	1	☼	7471B	Total/NA
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 223V2-01-B06 (0-5.7)

Lab Sample ID: 500-212335-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.012	J	0.079	0.0072	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.023	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0075	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.019	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0061	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.016	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.014	J*3	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.58	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	19		0.57	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	66		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.86	J	1.1	0.26	mg/Kg	5	☼	6010B	Total/NA
Boron	12		2.8	0.26	mg/Kg	1	☼	6010B	Total/NA
Calcium	68000	B	57	9.6	mg/Kg	5	☼	6010B	Total/NA
Chromium	19	B	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	27		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	45000	B	57	29	mg/Kg	5	☼	6010B	Total/NA
Lead	20		1.4	0.65	mg/Kg	5	☼	6010B	Total/NA
Magnesium	27000		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	500	B	0.57	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	51		2.8	0.83	mg/Kg	5	☼	6010B	Total/NA
Potassium	3100		28	10	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.43	J	0.57	0.33	mg/Kg	1	☼	6010B	Total/NA
Silver	0.28		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Sodium	1700		57	8.4	mg/Kg	1	☼	6010B	Total/NA
Vanadium	32		1.4	0.33	mg/Kg	5	☼	6010B	Total/NA
Zinc	57		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Barium	0.60		0.50	0.050	mg/L	1		6010B	TCLP
Manganese	3.9		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.020	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	2.8		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.046		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B09 (0-3.4)

Lab Sample ID: 500-212335-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.0073	J	0.076	0.0069	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.022	J	0.037	0.0053	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.016	J	0.037	0.0075	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.013	J	0.037	0.010	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.012	J *3	0.037	0.012	mg/Kg	1	✳	8270D	Total/NA
Arsenic	6.0		0.56	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	45		0.56	0.063	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.64		0.22	0.052	mg/Kg	1	✳	6010B	Total/NA
Boron	13		2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.065	J	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	77000	B	56	9.4	mg/Kg	5	✳	6010B	Total/NA
Chromium	19	B	0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	11		0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Copper	21	B	0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	20000	B	11	5.8	mg/Kg	1	✳	6010B	Total/NA
Lead	12		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	27000		5.6	2.8	mg/Kg	1	✳	6010B	Total/NA
Manganese	370	B	0.56	0.081	mg/Kg	1	✳	6010B	Total/NA
Nickel	29		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	3000		28	9.8	mg/Kg	1	✳	6010B	Total/NA
Silver	0.26	J	0.28	0.072	mg/Kg	1	✳	6010B	Total/NA
Sodium	1200		56	8.2	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.44	J	0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Vanadium	22		0.28	0.066	mg/Kg	1	✳	6010B	Total/NA
Zinc	62		1.1	0.49	mg/Kg	1	✳	6010B	Total/NA
Barium	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.13	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0036	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.073		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	5.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.076		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.038	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.019	0.0062	mg/Kg	1	✳	7471B	Total/NA
pH	8.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 223V2-01-B05 (0-5.8)

Lab Sample ID: 500-212335-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.014	J	0.022	0.0097	mg/Kg	1	✳	8260B	Total/NA
Acenaphthene	0.0084	J	0.038	0.0069	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.0091	J	0.038	0.0054	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.13		0.038	0.0054	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.045		0.038	0.0065	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.27		0.038	0.0072	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.40		0.038	0.0077	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.12		0.038	0.0052	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.15		0.038	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.16	*3	0.038	0.0083	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.078	*3	0.038	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.12	*3	0.038	0.0075	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B05 (0-5.8) (Continued)

Lab Sample ID: 500-212335-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	0.036	J*3	0.038	0.010	mg/Kg	1	✳		8270D	Total/NA
Dibenz(a,h)anthracene	0.012	J*3	0.038	0.0075	mg/Kg	1	✳		8270D	Total/NA
Benzo[g,h,i]perylene	0.038	*3	0.038	0.012	mg/Kg	1	✳		8270D	Total/NA
Antimony	0.25	J	1.1	0.22	mg/Kg	1	✳		6010B	Total/NA
Arsenic	6.3		0.56	0.19	mg/Kg	1	✳		6010B	Total/NA
Barium	49		0.56	0.063	mg/Kg	1	✳		6010B	Total/NA
Beryllium	0.59		0.22	0.052	mg/Kg	1	✳		6010B	Total/NA
Boron	13		2.8	0.26	mg/Kg	1	✳		6010B	Total/NA
Cadmium	0.090	J	0.11	0.020	mg/Kg	1	✳		6010B	Total/NA
Calcium	91000	B	56	9.4	mg/Kg	5	✳		6010B	Total/NA
Chromium	16	B	0.56	0.28	mg/Kg	1	✳		6010B	Total/NA
Cobalt	10		0.28	0.073	mg/Kg	1	✳		6010B	Total/NA
Copper	20	B	0.56	0.16	mg/Kg	1	✳		6010B	Total/NA
Iron	18000	B	11	5.8	mg/Kg	1	✳		6010B	Total/NA
Lead	15		0.28	0.13	mg/Kg	1	✳		6010B	Total/NA
Magnesium	33000		5.6	2.8	mg/Kg	1	✳		6010B	Total/NA
Manganese	430	B	0.56	0.081	mg/Kg	1	✳		6010B	Total/NA
Nickel	24		0.56	0.16	mg/Kg	1	✳		6010B	Total/NA
Potassium	2700		28	9.9	mg/Kg	1	✳		6010B	Total/NA
Silver	0.23	J	0.28	0.072	mg/Kg	1	✳		6010B	Total/NA
Sodium	1300		56	8.2	mg/Kg	1	✳		6010B	Total/NA
Thallium	0.56		0.56	0.28	mg/Kg	1	✳		6010B	Total/NA
Vanadium	20		0.28	0.066	mg/Kg	1	✳		6010B	Total/NA
Zinc	57		1.1	0.49	mg/Kg	1	✳		6010B	Total/NA
Barium	0.32	J	0.50	0.050	mg/L	1			6010B	TCLP
Boron	0.057	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Cobalt	0.010	J	0.025	0.010	mg/L	1			6010B	TCLP
Iron	0.22	J	0.40	0.20	mg/L	1			6010B	TCLP
Manganese	3.4		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.013	J	0.025	0.010	mg/L	1			6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.022		0.018	0.0059	mg/Kg	1	✳		7471B	Total/NA
pH	8.6		0.2	0.2	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-212335-1	223V2-01-B08 (0-4)	Solid	02/14/22 14:15	02/15/22 12:36
500-212335-2	223V2-01-B07 (0-4)	Solid	02/14/22 14:34	02/15/22 12:36
500-212335-3	223V2-01-B07 (4-7.2)	Solid	02/14/22 14:40	02/15/22 12:36
500-212335-4	223V2-01-B06 (0-5.7)	Solid	02/14/22 15:00	02/15/22 12:36
500-212335-5	223V2-01-B09 (0-3.4)	Solid	02/14/22 15:18	02/15/22 12:36
500-212335-6	223V2-01-B05 (0-5.8)	Solid	02/14/22 15:40	02/15/22 12:36

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B08 (0-4)

Lab Sample ID: 500-212335-1

Date Collected: 02/14/22 14:15

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.038		0.018	0.0078	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
2-Butanone (MEK)	0.0079		0.0045	0.0020	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
1,2-Dichloropropene	<0.0018		0.0018	0.00046	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	02/15/22 17:35	02/24/22 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		75 - 131	02/15/22 17:35	02/24/22 14:52	1
Dibromofluoromethane	98		75 - 126	02/15/22 17:35	02/24/22 14:52	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	02/15/22 17:35	02/24/22 14:52	1
Toluene-d8 (Surr)	98		75 - 124	02/15/22 17:35	02/24/22 14:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	02/23/22 16:17	02/24/22 14:29	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/23/22 16:17	02/24/22 14:29	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/23/22 16:17	02/24/22 14:29	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	02/23/22 16:17	02/24/22 14:29	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B08 (0-4)

Lab Sample ID: 500-212335-1

Date Collected: 02/14/22 14:15

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
Hexachloroethane	<0.19	F1	0.19	0.059	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
Isophorone	<0.19		0.19	0.043	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
Naphthalene	0.0096	J	0.038	0.0060	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
2,4,6-Trichlorophenol	<0.38	F1	0.38	0.13	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
2,4,5-Trichlorophenol	<0.38	F1	0.38	0.088	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
Hexachlorocyclopentadiene	<0.78	F1	0.78	0.22	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
2-Methylnaphthalene	0.016	J	0.078	0.0071	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
2,4-Dinitrophenol	<0.78	F1	0.78	0.68	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
Acenaphthylene	0.0066	J	0.038	0.0051	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
Fluorene	0.010	J	0.038	0.0054	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
4,6-Dinitro-2-methylphenol	<0.78	F1	0.78	0.31	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
Phenanthrene	0.082		0.038	0.0054	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
Anthracene	0.026	J	0.038	0.0065	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
Carbazole	<0.19		0.19	0.097	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
Fluoranthene	0.076		0.038	0.0072	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
Pyrene	0.22		0.038	0.0077	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1
Benzo[a]anthracene	0.058		0.038	0.0052	mg/Kg	✱	02/23/22 16:17	02/24/22 14:29	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B08 (0-4)

Lab Sample ID: 500-212335-1

Date Collected: 02/14/22 14:15

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.14		0.038	0.011	mg/Kg	✳	02/23/22 16:17	02/24/22 14:29	1
3,3'-Dichlorobenzidine	<0.19	F2	0.19	0.054	mg/Kg	✳	02/23/22 16:17	02/24/22 14:29	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	✳	02/23/22 16:17	02/24/22 14:29	1
Di-n-octyl phthalate	<0.19	F1	0.19	0.063	mg/Kg	✳	02/23/22 16:17	02/24/22 14:29	1
Benzo[b]fluoranthene	0.21	*3	0.038	0.0084	mg/Kg	✳	02/23/22 16:17	02/24/22 14:29	1
Benzo[k]fluoranthene	<0.038	*3	0.038	0.011	mg/Kg	✳	02/23/22 16:17	02/24/22 14:29	1
Benzo[a]pyrene	0.34	*3	0.038	0.0075	mg/Kg	✳	02/23/22 16:17	02/24/22 14:29	1
Indeno[1,2,3-cd]pyrene	0.15	*3 F1	0.038	0.010	mg/Kg	✳	02/23/22 16:17	02/24/22 14:29	1
Dibenz(a,h)anthracene	0.098	*3 F1	0.038	0.0075	mg/Kg	✳	02/23/22 16:17	02/24/22 14:29	1
Benzo[g,h,i]perylene	0.56	*3 F1	0.038	0.012	mg/Kg	✳	02/23/22 16:17	02/24/22 14:29	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	✳	02/23/22 16:17	02/24/22 14:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	84		31 - 166				02/23/22 16:17	02/24/22 14:29	1
Phenol-d5	75		30 - 153				02/23/22 16:17	02/24/22 14:29	1
Nitrobenzene-d5 (Surr)	84		37 - 147				02/23/22 16:17	02/24/22 14:29	1
2-Fluorobiphenyl (Surr)	97		43 - 145				02/23/22 16:17	02/24/22 14:29	1
2,4,6-Tribromophenol	108		31 - 143				02/23/22 16:17	02/24/22 14:29	1
Terphenyl-d14 (Surr)	122		42 - 157				02/23/22 16:17	02/24/22 14:29	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.28	J F1	1.1	0.21	mg/Kg	✳	02/25/22 10:35	02/25/22 22:50	1
Arsenic	5.6	F2	0.54	0.19	mg/Kg	✳	02/25/22 10:35	02/25/22 22:50	1
Barium	41	F1	0.54	0.062	mg/Kg	✳	02/25/22 10:35	02/25/22 22:50	1
Beryllium	0.47		0.22	0.051	mg/Kg	✳	02/25/22 10:35	02/27/22 16:04	1
Boron	12		2.7	0.25	mg/Kg	✳	02/25/22 10:35	02/25/22 22:50	1
Cadmium	0.18		0.11	0.020	mg/Kg	✳	02/25/22 10:35	02/25/22 22:50	1
Calcium	92000	B F2	54	9.2	mg/Kg	✳	02/25/22 10:35	02/27/22 16:20	5
Chromium	11	B F1	0.54	0.27	mg/Kg	✳	02/25/22 10:35	02/25/22 22:50	1
Cobalt	6.9		0.27	0.071	mg/Kg	✳	02/25/22 10:35	02/25/22 22:50	1
Copper	14	B F1	0.54	0.15	mg/Kg	✳	02/25/22 10:35	02/25/22 22:50	1
Iron	16000	B F2	54	28	mg/Kg	✳	02/25/22 10:35	02/27/22 16:20	5
Lead	23	F2	0.27	0.13	mg/Kg	✳	02/25/22 10:35	02/25/22 22:50	1
Magnesium	53000	F2	27	13	mg/Kg	✳	02/25/22 10:35	02/27/22 16:20	5
Manganese	350	B	0.54	0.079	mg/Kg	✳	02/25/22 10:35	02/27/22 16:04	1
Nickel	16	F1	0.54	0.16	mg/Kg	✳	02/25/22 10:35	02/25/22 22:50	1
Potassium	2200	F1	27	9.6	mg/Kg	✳	02/25/22 10:35	02/25/22 22:50	1
Selenium	<0.54	F1	0.54	0.32	mg/Kg	✳	02/25/22 10:35	02/25/22 22:50	1
Silver	0.17	J	0.27	0.070	mg/Kg	✳	02/25/22 10:35	02/25/22 22:50	1
Sodium	1300	F1	54	8.1	mg/Kg	✳	02/25/22 10:35	02/25/22 22:50	1
Thallium	0.51	J F1	0.54	0.27	mg/Kg	✳	02/25/22 10:35	02/25/22 22:50	1
Vanadium	15	F1	0.27	0.064	mg/Kg	✳	02/25/22 10:35	02/25/22 22:50	1
Zinc	60	F1 F2	1.1	0.48	mg/Kg	✳	02/25/22 10:35	02/25/22 22:50	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.37	J	0.50	0.050	mg/L		02/24/22 08:20	02/24/22 22:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/24/22 08:20	02/24/22 22:18	1
Boron	0.077	J	0.50	0.050	mg/L		02/24/22 08:20	02/24/22 22:18	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B08 (0-4)

Lab Sample ID: 500-212335-1

Date Collected: 02/14/22 14:15

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/24/22 08:20	02/24/22 22:18	1
Chromium	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:18	1
Cobalt	0.017	J	0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:18	1
Iron	<0.40		0.40	0.20	mg/L		02/24/22 08:20	02/24/22 22:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/24/22 08:20	02/24/22 22:18	1
Manganese	3.9		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:18	1
Nickel	0.021	J	0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:18	1
Selenium	<0.050		0.050	0.020	mg/L		02/24/22 08:20	02/24/22 22:18	1
Silver	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:18	1
Zinc	0.18	J	0.50	0.020	mg/L		02/24/22 08:20	02/24/22 22:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.90		0.025	0.010	mg/L		02/24/22 08:23	02/28/22 13:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/24/22 08:20	02/24/22 18:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/24/22 08:20	02/24/22 18:23	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	^1+	0.00020	0.00020	mg/L		02/23/22 14:10	02/24/22 11:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060		0.018	0.0059	mg/Kg	☆	02/24/22 18:30	02/25/22 18:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.2	0.2	SU			02/18/22 19:30	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B07 (0-4)

Lab Sample ID: 500-212335-2

Date Collected: 02/14/22 14:34

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0075	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
1,2-Dichloroethane	<0.0043		0.0043	0.0014	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00061	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
2-Hexanone	<0.0043		0.0043	0.0014	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1
Xylenes, Total	<0.0035		0.0035	0.00055	mg/Kg	✳	02/15/22 17:35	02/24/22 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		75 - 131	02/15/22 17:35	02/24/22 15:18	1
Dibromofluoromethane	103		75 - 126	02/15/22 17:35	02/24/22 15:18	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	02/15/22 17:35	02/24/22 15:18	1
Toluene-d8 (Surr)	95		75 - 124	02/15/22 17:35	02/24/22 15:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	✳	02/23/22 16:17	02/24/22 15:35	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	✳	02/23/22 16:17	02/24/22 15:35	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	✳	02/23/22 16:17	02/24/22 15:35	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	✳	02/23/22 16:17	02/24/22 15:35	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B07 (0-4)

Lab Sample ID: 500-212335-2

Date Collected: 02/14/22 14:34

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
Isophorone	<0.20		0.20	0.045	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
Carbazole	<0.20		0.20	0.10	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
Pyrene	<0.040		0.040	0.0079	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	✱	02/23/22 16:17	02/24/22 15:35	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B07 (0-4)

Lab Sample ID: 500-212335-2

Date Collected: 02/14/22 14:34

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	✳	02/23/22 16:17	02/24/22 15:35	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	✳	02/23/22 16:17	02/24/22 15:35	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	✳	02/23/22 16:17	02/24/22 15:35	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	✳	02/23/22 16:17	02/24/22 15:35	1
Benzo[b]fluoranthene	<0.040	*3	0.040	0.0086	mg/Kg	✳	02/23/22 16:17	02/24/22 15:35	1
Benzo[k]fluoranthene	<0.040	*3	0.040	0.012	mg/Kg	✳	02/23/22 16:17	02/24/22 15:35	1
Benzo[a]pyrene	<0.040	*3	0.040	0.0077	mg/Kg	✳	02/23/22 16:17	02/24/22 15:35	1
Indeno[1,2,3-cd]pyrene	<0.040	*3	0.040	0.010	mg/Kg	✳	02/23/22 16:17	02/24/22 15:35	1
Dibenz(a,h)anthracene	<0.040	*3	0.040	0.0077	mg/Kg	✳	02/23/22 16:17	02/24/22 15:35	1
Benzo[g,h,i]perylene	<0.040	*3	0.040	0.013	mg/Kg	✳	02/23/22 16:17	02/24/22 15:35	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	✳	02/23/22 16:17	02/24/22 15:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	82		31 - 166				02/23/22 16:17	02/24/22 15:35	1
Phenol-d5	70		30 - 153				02/23/22 16:17	02/24/22 15:35	1
Nitrobenzene-d5 (Surr)	75		37 - 147				02/23/22 16:17	02/24/22 15:35	1
2-Fluorobiphenyl (Surr)	88		43 - 145				02/23/22 16:17	02/24/22 15:35	1
2,4,6-Tribromophenol	95		31 - 143				02/23/22 16:17	02/24/22 15:35	1
Terphenyl-d14 (Surr)	132		42 - 157				02/23/22 16:17	02/24/22 15:35	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	J	1.2	0.23	mg/Kg	✳	02/25/22 10:35	02/25/22 23:15	1
Arsenic	9.8		0.58	0.20	mg/Kg	✳	02/25/22 10:35	02/25/22 23:15	1
Barium	61		0.58	0.066	mg/Kg	✳	02/25/22 10:35	02/27/22 16:43	1
Beryllium	0.64		0.23	0.054	mg/Kg	✳	02/25/22 10:35	02/27/22 16:43	1
Boron	10		2.9	0.27	mg/Kg	✳	02/25/22 10:35	02/25/22 23:15	1
Cadmium	0.027	J	0.12	0.021	mg/Kg	✳	02/25/22 10:35	02/25/22 23:15	1
Calcium	31000	B	12	2.0	mg/Kg	✳	02/25/22 10:35	02/27/22 16:43	1
Chromium	18	B	0.58	0.29	mg/Kg	✳	02/25/22 10:35	02/25/22 23:15	1
Cobalt	11		0.29	0.076	mg/Kg	✳	02/25/22 10:35	02/25/22 23:15	1
Copper	22	B	0.58	0.16	mg/Kg	✳	02/25/22 10:35	02/25/22 23:15	1
Iron	23000	B	12	6.1	mg/Kg	✳	02/25/22 10:35	02/27/22 16:43	1
Lead	16		0.29	0.13	mg/Kg	✳	02/25/22 10:35	02/25/22 23:15	1
Magnesium	18000		5.8	2.9	mg/Kg	✳	02/25/22 10:35	02/27/22 16:43	1
Manganese	360	B	0.58	0.084	mg/Kg	✳	02/25/22 10:35	02/27/22 16:43	1
Nickel	30		0.58	0.17	mg/Kg	✳	02/25/22 10:35	02/25/22 23:15	1
Potassium	2300		29	10	mg/Kg	✳	02/25/22 10:35	02/27/22 16:43	1
Selenium	<0.58		0.58	0.34	mg/Kg	✳	02/25/22 10:35	02/25/22 23:15	1
Silver	0.33		0.29	0.075	mg/Kg	✳	02/25/22 10:35	02/25/22 23:15	1
Sodium	1200		58	8.6	mg/Kg	✳	02/25/22 10:35	02/27/22 16:43	1
Thallium	0.87		0.58	0.29	mg/Kg	✳	02/25/22 10:35	02/25/22 23:15	1
Vanadium	24		0.29	0.069	mg/Kg	✳	02/25/22 10:35	02/25/22 23:15	1
Zinc	70		1.2	0.51	mg/Kg	✳	02/25/22 10:35	02/25/22 23:15	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.42	J F1	0.50	0.050	mg/L		02/24/22 08:20	02/24/22 22:21	1
Beryllium	<0.0040	F1	0.0040	0.0040	mg/L		02/24/22 08:20	02/24/22 22:21	1
Boron	<0.50	F1	0.50	0.050	mg/L		02/24/22 08:20	02/24/22 22:21	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B07 (0-4)

Lab Sample ID: 500-212335-2

Date Collected: 02/14/22 14:34

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050	F1	0.0050	0.0020	mg/L		02/24/22 08:20	02/24/22 22:21	1
Chromium	<0.025	F1	0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:21	1
Cobalt	<0.025	F1	0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:21	1
Iron	<0.40	F1	0.40	0.20	mg/L		02/24/22 08:20	02/24/22 22:21	1
Lead	<0.0075	F1	0.0075	0.0075	mg/L		02/24/22 08:20	02/24/22 22:21	1
Manganese	0.11	F1	0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:21	1
Nickel	<0.025	F1	0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:21	1
Selenium	<0.050	F1	0.050	0.020	mg/L		02/24/22 08:20	02/24/22 22:21	1
Silver	<0.025	F1	0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:21	1
Zinc	<0.50	F1	0.50	0.020	mg/L		02/24/22 08:20	02/24/22 22:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	F1	0.0060	0.0060	mg/L		02/24/22 08:20	02/24/22 18:25	1
Thallium	<0.0020	F1	0.0020	0.0020	mg/L		02/24/22 08:20	02/24/22 18:25	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	^1+	0.00020	0.00020	mg/L		02/23/22 14:10	02/24/22 11:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.055		0.020	0.0066	mg/Kg	☼	02/24/22 18:30	02/25/22 18:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.5		0.2	0.2	SU			02/18/22 19:33	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B07 (4-7.2)

Lab Sample ID: 500-212335-3

Date Collected: 02/14/22 14:40

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.096		0.024	0.010	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
Benzene	<0.0024		0.0024	0.00061	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
Bromodichloromethane	<0.0024		0.0024	0.00049	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
Bromoform	<0.0024		0.0024	0.00070	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
Bromomethane	<0.0060		0.0060	0.0023	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
2-Butanone (MEK)	0.023		0.0060	0.0027	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
Carbon disulfide	<0.0060		0.0060	0.0013	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
Carbon tetrachloride	<0.0024		0.0024	0.00070	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
Chlorobenzene	<0.0024		0.0024	0.00089	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
Chloroethane	<0.0060		0.0060	0.0018	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
Chloroform	<0.0024		0.0024	0.00084	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
Chloromethane	<0.0060		0.0060	0.0024	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
cis-1,2-Dichloroethene	<0.0024		0.0024	0.00067	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
cis-1,3-Dichloropropene	<0.0024		0.0024	0.00073	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
Dibromochloromethane	<0.0024		0.0024	0.00079	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
1,1-Dichloroethane	<0.0024		0.0024	0.00083	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
1,2-Dichloroethane	<0.0060		0.0060	0.0019	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
1,1-Dichloroethene	<0.0024		0.0024	0.00083	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
1,2-Dichloropropene	<0.0024		0.0024	0.00062	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
1,3-Dichloropropene, Total	<0.0024		0.0024	0.00085	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
Ethylbenzene	<0.0024		0.0024	0.0012	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
2-Hexanone	<0.0060		0.0060	0.0019	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
Methylene Chloride	<0.0060		0.0060	0.0024	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
4-Methyl-2-pentanone (MIBK)	<0.0060		0.0060	0.0018	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
Methyl tert-butyl ether	<0.0024		0.0024	0.00071	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
Styrene	<0.0024		0.0024	0.00073	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
1,1,2,2-Tetrachloroethane	<0.0024		0.0024	0.00077	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
Tetrachloroethene	<0.0024		0.0024	0.00082	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
Toluene	<0.0024		0.0024	0.00061	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
trans-1,2-Dichloroethene	<0.0024		0.0024	0.0011	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
trans-1,3-Dichloropropene	<0.0024		0.0024	0.00085	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
1,1,1-Trichloroethane	<0.0024		0.0024	0.00081	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
1,1,2-Trichloroethane	<0.0024		0.0024	0.0010	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
Trichloroethene	<0.0024		0.0024	0.00081	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
Vinyl acetate	<0.0060		0.0060	0.0021	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
Vinyl chloride	<0.0024		0.0024	0.0011	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1
Xylenes, Total	<0.0048		0.0048	0.00077	mg/Kg	✱	02/15/22 17:35	02/24/22 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		75 - 131	02/15/22 17:35	02/24/22 15:44	1
Dibromofluoromethane	109		75 - 126	02/15/22 17:35	02/24/22 15:44	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	02/15/22 17:35	02/24/22 15:44	1
Toluene-d8 (Surr)	94		75 - 124	02/15/22 17:35	02/24/22 15:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B07 (4-7.2)

Lab Sample ID: 500-212335-3

Date Collected: 02/14/22 14:40

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Isophorone	<0.19		0.19	0.043	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Naphthalene	0.019	J	0.038	0.0059	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
2-Methylnaphthalene	0.045	J	0.077	0.0071	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
4-Nitrophenol	<0.77		0.77	0.37	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Phenanthrene	0.043		0.038	0.0054	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Carbazole	<0.19		0.19	0.096	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Pyrene	0.019	J	0.038	0.0076	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B07 (4-7.2)

Lab Sample ID: 500-212335-3

Date Collected: 02/14/22 14:40

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.013	J	0.038	0.010	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Benzo[b]fluoranthene	<0.038	*3	0.038	0.0083	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Benzo[k]fluoranthene	<0.038	*3	0.038	0.011	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Benzo[a]pyrene	<0.038	*3	0.038	0.0074	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Indeno[1,2,3-cd]pyrene	<0.038	*3	0.038	0.010	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Dibenz(a,h)anthracene	<0.038	*3	0.038	0.0074	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
Benzo[g,h,i]perylene	0.014	J *3	0.038	0.012	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	✱	02/23/22 16:17	02/24/22 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	81		31 - 166	02/23/22 16:17	02/24/22 15:56	1
Phenol-d5	73		30 - 153	02/23/22 16:17	02/24/22 15:56	1
Nitrobenzene-d5 (Surr)	73		37 - 147	02/23/22 16:17	02/24/22 15:56	1
2-Fluorobiphenyl (Surr)	85		43 - 145	02/23/22 16:17	02/24/22 15:56	1
2,4,6-Tribromophenol	90		31 - 143	02/23/22 16:17	02/24/22 15:56	1
Terphenyl-d14 (Surr)	120		42 - 157	02/23/22 16:17	02/24/22 15:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.25	J	1.1	0.21	mg/Kg	✱	02/25/22 10:35	02/25/22 23:18	1
Arsenic	6.1		0.53	0.18	mg/Kg	✱	02/25/22 10:35	02/25/22 23:18	1
Barium	37		0.53	0.060	mg/Kg	✱	02/25/22 10:35	02/27/22 16:46	1
Beryllium	0.67		0.21	0.049	mg/Kg	✱	02/25/22 10:35	02/27/22 16:46	1
Boron	14		2.6	0.25	mg/Kg	✱	02/25/22 10:35	02/25/22 23:18	1
Cadmium	<0.11		0.11	0.019	mg/Kg	✱	02/25/22 10:35	02/25/22 23:18	1
Calcium	79000	B	53	8.9	mg/Kg	✱	02/25/22 10:35	02/27/22 16:49	5
Chromium	18	B	0.53	0.26	mg/Kg	✱	02/25/22 10:35	02/25/22 23:18	1
Cobalt	12		0.26	0.069	mg/Kg	✱	02/25/22 10:35	02/25/22 23:18	1
Copper	22	B	0.53	0.15	mg/Kg	✱	02/25/22 10:35	02/25/22 23:18	1
Iron	20000	B	11	5.5	mg/Kg	✱	02/25/22 10:35	02/27/22 16:46	1
Lead	12		0.26	0.12	mg/Kg	✱	02/25/22 10:35	02/25/22 23:18	1
Magnesium	29000		5.3	2.6	mg/Kg	✱	02/25/22 10:35	02/27/22 16:46	1
Manganese	410	B	0.53	0.077	mg/Kg	✱	02/25/22 10:35	02/27/22 16:46	1
Nickel	30		0.53	0.15	mg/Kg	✱	02/25/22 10:35	02/25/22 23:18	1
Potassium	3300		26	9.3	mg/Kg	✱	02/25/22 10:35	02/27/22 16:46	1
Selenium	<0.53		0.53	0.31	mg/Kg	✱	02/25/22 10:35	02/25/22 23:18	1
Silver	0.24	J	0.26	0.068	mg/Kg	✱	02/25/22 10:35	02/25/22 23:18	1
Sodium	910		53	7.8	mg/Kg	✱	02/25/22 10:35	02/27/22 16:46	1
Thallium	0.71		0.53	0.26	mg/Kg	✱	02/25/22 10:35	02/25/22 23:18	1
Vanadium	22		0.26	0.062	mg/Kg	✱	02/25/22 10:35	02/25/22 23:18	1
Zinc	56		1.1	0.46	mg/Kg	✱	02/25/22 10:35	02/25/22 23:18	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.58		0.50	0.050	mg/L		02/24/22 08:20	02/24/22 22:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/24/22 08:20	02/24/22 22:42	1
Boron	<0.50		0.50	0.050	mg/L		02/24/22 08:20	02/24/22 22:42	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B07 (4-7.2)

Lab Sample ID: 500-212335-3

Date Collected: 02/14/22 14:40

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/24/22 08:20	02/24/22 22:42	1
Chromium	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:42	1
Cobalt	0.021	J	0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:42	1
Iron	<0.40		0.40	0.20	mg/L		02/24/22 08:20	02/24/22 22:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/24/22 08:20	02/24/22 22:42	1
Manganese	2.7		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:42	1
Nickel	0.041		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:42	1
Selenium	<0.050		0.050	0.020	mg/L		02/24/22 08:20	02/24/22 22:42	1
Silver	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:42	1
Zinc	0.021	J	0.50	0.020	mg/L		02/24/22 08:20	02/24/22 22:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.7		0.025	0.010	mg/L		02/24/22 08:23	02/28/22 13:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/24/22 08:20	02/24/22 18:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/24/22 08:20	02/24/22 18:39	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	^1+	0.00020	0.00020	mg/L		02/23/22 14:10	02/24/22 11:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.017	0.0056	mg/Kg	☆	02/24/22 18:30	02/25/22 18:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.3		0.2	0.2	SU			02/18/22 19:35	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B06 (0-5.7)

Lab Sample ID: 500-212335-4

Date Collected: 02/14/22 15:00

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0086	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
Carbon tetrachloride	<0.0020		0.0020	0.00057	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
Chlorobenzene	<0.0020		0.0020	0.00073	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
1,2-Dichloroethane	<0.0050		0.0050	0.0015	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
1,1-Dichloroethene	<0.0020		0.0020	0.00068	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
1,2-Dichloropropene	<0.0020		0.0020	0.00051	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
Ethylbenzene	<0.0020		0.0020	0.00095	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00063	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
Tetrachloroethene	<0.0020		0.0020	0.00067	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00088	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00066	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00085	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
Trichloroethene	<0.0020		0.0020	0.00067	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
Vinyl chloride	<0.0020		0.0020	0.00088	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1
Xylenes, Total	<0.0040		0.0040	0.00063	mg/Kg	✱	02/15/22 17:35	02/24/22 16:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		75 - 131	02/15/22 17:35	02/24/22 16:10	1
Dibromofluoromethane	102		75 - 126	02/15/22 17:35	02/24/22 16:10	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	02/15/22 17:35	02/24/22 16:10	1
Toluene-d8 (Surr)	100		75 - 124	02/15/22 17:35	02/24/22 16:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	✱	02/23/22 16:17	02/24/22 16:18	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	✱	02/23/22 16:17	02/24/22 16:18	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	✱	02/23/22 16:17	02/24/22 16:18	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	✱	02/23/22 16:17	02/24/22 16:18	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B06 (0-5.7)

Lab Sample ID: 500-212335-4

Date Collected: 02/14/22 15:00

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
2-Methylnaphthalene	0.012	J	0.079	0.0072	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
Phenanthrene	0.023	J	0.039	0.0055	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
Fluoranthene	0.0075	J	0.039	0.0073	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
Pyrene	0.019	J	0.039	0.0078	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1
Benzo[a]anthracene	0.0061	J	0.039	0.0053	mg/Kg	☼	02/23/22 16:17	02/24/22 16:18	1

Eurofins Chicago

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B06 (0-5.7)

Lab Sample ID: 500-212335-4

Date Collected: 02/14/22 15:00

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.016	J	0.039	0.011	mg/Kg	✳	02/23/22 16:17	02/24/22 16:18	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	✳	02/23/22 16:17	02/24/22 16:18	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	✳	02/23/22 16:17	02/24/22 16:18	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	✳	02/23/22 16:17	02/24/22 16:18	1
Benzo[b]fluoranthene	<0.039	*3	0.039	0.0085	mg/Kg	✳	02/23/22 16:17	02/24/22 16:18	1
Benzo[k]fluoranthene	<0.039	*3	0.039	0.012	mg/Kg	✳	02/23/22 16:17	02/24/22 16:18	1
Benzo[a]pyrene	<0.039	*3	0.039	0.0076	mg/Kg	✳	02/23/22 16:17	02/24/22 16:18	1
Indeno[1,2,3-cd]pyrene	<0.039	*3	0.039	0.010	mg/Kg	✳	02/23/22 16:17	02/24/22 16:18	1
Dibenz(a,h)anthracene	<0.039	*3	0.039	0.0076	mg/Kg	✳	02/23/22 16:17	02/24/22 16:18	1
Benzo[g,h,i]perylene	0.014	J *3	0.039	0.013	mg/Kg	✳	02/23/22 16:17	02/24/22 16:18	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	✳	02/23/22 16:17	02/24/22 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	82		31 - 166	02/23/22 16:17	02/24/22 16:18	1
Phenol-d5	76		30 - 153	02/23/22 16:17	02/24/22 16:18	1
Nitrobenzene-d5 (Surr)	72		37 - 147	02/23/22 16:17	02/24/22 16:18	1
2-Fluorobiphenyl (Surr)	92		43 - 145	02/23/22 16:17	02/24/22 16:18	1
2,4,6-Tribromophenol	106		31 - 143	02/23/22 16:17	02/24/22 16:18	1
Terphenyl-d14 (Surr)	139		42 - 157	02/23/22 16:17	02/24/22 16:18	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.58	J	1.1	0.22	mg/Kg	✳	02/25/22 10:35	02/25/22 23:21	1
Arsenic	19		0.57	0.19	mg/Kg	✳	02/25/22 10:35	02/27/22 16:52	1
Barium	66		0.57	0.065	mg/Kg	✳	02/25/22 10:35	02/27/22 16:52	1
Beryllium	0.86	J	1.1	0.26	mg/Kg	✳	02/25/22 10:35	02/27/22 16:56	5
Boron	12		2.8	0.26	mg/Kg	✳	02/25/22 10:35	02/25/22 23:21	1
Cadmium	<0.11		0.11	0.020	mg/Kg	✳	02/25/22 10:35	02/25/22 23:21	1
Calcium	68000	B	57	9.6	mg/Kg	✳	02/25/22 10:35	02/27/22 16:56	5
Chromium	19	B	0.57	0.28	mg/Kg	✳	02/25/22 10:35	02/25/22 23:21	1
Cobalt	15		0.28	0.074	mg/Kg	✳	02/25/22 10:35	02/25/22 23:21	1
Copper	27		0.57	0.16	mg/Kg	✳	02/25/22 10:35	02/27/22 16:52	1
Iron	45000	B	57	29	mg/Kg	✳	02/25/22 10:35	02/27/22 16:56	5
Lead	20		1.4	0.65	mg/Kg	✳	02/25/22 10:35	02/27/22 16:56	5
Magnesium	27000		5.7	2.8	mg/Kg	✳	02/25/22 10:35	02/27/22 16:52	1
Manganese	500	B	0.57	0.082	mg/Kg	✳	02/25/22 10:35	02/27/22 16:52	1
Nickel	51		2.8	0.83	mg/Kg	✳	02/25/22 10:35	02/27/22 16:56	5
Potassium	3100		28	10	mg/Kg	✳	02/25/22 10:35	02/27/22 16:52	1
Selenium	0.43	J	0.57	0.33	mg/Kg	✳	02/25/22 10:35	02/25/22 23:21	1
Silver	0.28		0.28	0.073	mg/Kg	✳	02/25/22 10:35	02/25/22 23:21	1
Sodium	1700		57	8.4	mg/Kg	✳	02/25/22 10:35	02/27/22 16:52	1
Thallium	<2.8		2.8	1.4	mg/Kg	✳	02/25/22 10:35	02/27/22 16:56	5
Vanadium	32		1.4	0.33	mg/Kg	✳	02/25/22 10:35	02/27/22 16:56	5
Zinc	57		1.1	0.50	mg/Kg	✳	02/25/22 10:35	02/25/22 23:21	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.60		0.50	0.050	mg/L		02/24/22 08:20	02/24/22 22:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/24/22 08:20	02/24/22 22:46	1
Boron	<0.50		0.50	0.050	mg/L		02/24/22 08:20	02/24/22 22:46	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B06 (0-5.7)

Lab Sample ID: 500-212335-4

Date Collected: 02/14/22 15:00

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/24/22 08:20	02/24/22 22:46	1
Chromium	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:46	1
Cobalt	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:46	1
Iron	<0.40		0.40	0.20	mg/L		02/24/22 08:20	02/24/22 22:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/24/22 08:20	02/24/22 22:46	1
Manganese	3.9		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:46	1
Nickel	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:46	1
Selenium	<0.050		0.050	0.020	mg/L		02/24/22 08:20	02/24/22 22:46	1
Silver	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:46	1
Zinc	0.020	J	0.50	0.020	mg/L		02/24/22 08:20	02/24/22 22:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.8		0.025	0.010	mg/L		02/24/22 08:23	02/28/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/24/22 08:20	02/24/22 18:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/24/22 08:20	02/24/22 18:41	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	^1+	0.00020	0.00020	mg/L		02/23/22 14:10	02/24/22 11:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046		0.019	0.0064	mg/Kg	☆	02/24/22 18:30	02/25/22 18:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.6		0.2	0.2	SU			02/18/22 19:38	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B09 (0-3.4)

Lab Sample ID: 500-212335-5

Date Collected: 02/14/22 15:18

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.024		0.024	0.010	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
Benzene	<0.0024		0.0024	0.00060	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
Bromodichloromethane	<0.0024		0.0024	0.00048	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
Bromoform	<0.0024		0.0024	0.00069	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
Bromomethane	<0.0059		0.0059	0.0022	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
2-Butanone (MEK)	<0.0059		0.0059	0.0026	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
Carbon disulfide	<0.0059		0.0059	0.0012	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
Carbon tetrachloride	<0.0024		0.0024	0.00069	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
Chlorobenzene	<0.0024		0.0024	0.00087	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
Chloroethane	<0.0059		0.0059	0.0017	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
Chloroform	<0.0024		0.0024	0.00082	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
Chloromethane	<0.0059		0.0059	0.0024	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
cis-1,2-Dichloroethene	<0.0024		0.0024	0.00066	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
cis-1,3-Dichloropropene	<0.0024		0.0024	0.00071	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
Dibromochloromethane	<0.0024		0.0024	0.00077	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
1,1-Dichloroethane	<0.0024		0.0024	0.00081	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
1,2-Dichloroethane	<0.0059		0.0059	0.0018	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
1,1-Dichloroethene	<0.0024		0.0024	0.00081	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
1,2-Dichloropropane	<0.0024		0.0024	0.00061	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
1,3-Dichloropropane, Total	<0.0024		0.0024	0.00083	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
Ethylbenzene	<0.0024		0.0024	0.0011	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
2-Hexanone	<0.0059		0.0059	0.0018	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
Methylene Chloride	<0.0059		0.0059	0.0023	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
4-Methyl-2-pentanone (MIBK)	<0.0059		0.0059	0.0017	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
Methyl tert-butyl ether	<0.0024		0.0024	0.00069	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
Styrene	<0.0024		0.0024	0.00071	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
1,1,2,2-Tetrachloroethane	<0.0024		0.0024	0.00076	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
Tetrachloroethene	<0.0024		0.0024	0.00081	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
Toluene	<0.0024		0.0024	0.00060	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
trans-1,2-Dichloroethene	<0.0024		0.0024	0.0010	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
trans-1,3-Dichloropropene	<0.0024		0.0024	0.00083	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
1,1,1-Trichloroethane	<0.0024		0.0024	0.00079	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
1,1,2-Trichloroethane	<0.0024		0.0024	0.0010	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
Trichloroethene	<0.0024		0.0024	0.00080	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
Vinyl acetate	<0.0059		0.0059	0.0021	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
Vinyl chloride	<0.0024		0.0024	0.0010	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1
Xylenes, Total	<0.0047		0.0047	0.00076	mg/Kg	✱	02/15/22 17:35	02/24/22 16:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		75 - 131	02/15/22 17:35	02/24/22 16:36	1
Dibromofluoromethane	107		75 - 126	02/15/22 17:35	02/24/22 16:36	1
1,2-Dichloroethane-d4 (Surr)	115		70 - 134	02/15/22 17:35	02/24/22 16:36	1
Toluene-d8 (Surr)	98		75 - 124	02/15/22 17:35	02/24/22 16:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B09 (0-3.4)

Lab Sample ID: 500-212335-5

Date Collected: 02/14/22 15:18

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
Isophorone	<0.19		0.19	0.042	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
2,4-Dichlorophenol	<0.37		0.37	0.090	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
2-Methylnaphthalene	0.0073	J	0.076	0.0069	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
Phenanthrene	0.022	J	0.037	0.0053	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
Carbazole	<0.19		0.19	0.094	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
Pyrene	0.016	J	0.037	0.0075	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	✱	02/23/22 16:17	02/24/22 16:40	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B09 (0-3.4)

Lab Sample ID: 500-212335-5

Date Collected: 02/14/22 15:18

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.013	J	0.037	0.010	mg/Kg	✳	02/23/22 16:17	02/24/22 16:40	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	✳	02/23/22 16:17	02/24/22 16:40	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	✳	02/23/22 16:17	02/24/22 16:40	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	✳	02/23/22 16:17	02/24/22 16:40	1
Benzo[b]fluoranthene	<0.037	*3	0.037	0.0081	mg/Kg	✳	02/23/22 16:17	02/24/22 16:40	1
Benzo[k]fluoranthene	<0.037	*3	0.037	0.011	mg/Kg	✳	02/23/22 16:17	02/24/22 16:40	1
Benzo[a]pyrene	<0.037	*3	0.037	0.0073	mg/Kg	✳	02/23/22 16:17	02/24/22 16:40	1
Indeno[1,2,3-cd]pyrene	<0.037	*3	0.037	0.0098	mg/Kg	✳	02/23/22 16:17	02/24/22 16:40	1
Dibenz(a,h)anthracene	<0.037	*3	0.037	0.0073	mg/Kg	✳	02/23/22 16:17	02/24/22 16:40	1
Benzo[g,h,i]perylene	0.012	J *3	0.037	0.012	mg/Kg	✳	02/23/22 16:17	02/24/22 16:40	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	✳	02/23/22 16:17	02/24/22 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	82		31 - 166	02/23/22 16:17	02/24/22 16:40	1
Phenol-d5	72		30 - 153	02/23/22 16:17	02/24/22 16:40	1
Nitrobenzene-d5 (Surr)	75		37 - 147	02/23/22 16:17	02/24/22 16:40	1
2-Fluorobiphenyl (Surr)	89		43 - 145	02/23/22 16:17	02/24/22 16:40	1
2,4,6-Tribromophenol	105		31 - 143	02/23/22 16:17	02/24/22 16:40	1
Terphenyl-d14 (Surr)	131		42 - 157	02/23/22 16:17	02/24/22 16:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	✳	02/25/22 10:35	02/25/22 23:25	1
Arsenic	6.0		0.56	0.19	mg/Kg	✳	02/25/22 10:35	02/25/22 23:25	1
Barium	45		0.56	0.063	mg/Kg	✳	02/25/22 10:35	02/27/22 16:59	1
Beryllium	0.64		0.22	0.052	mg/Kg	✳	02/25/22 10:35	02/27/22 16:59	1
Boron	13		2.8	0.26	mg/Kg	✳	02/25/22 10:35	02/25/22 23:25	1
Cadmium	0.065	J	0.11	0.020	mg/Kg	✳	02/25/22 10:35	02/25/22 23:25	1
Calcium	77000	B	56	9.4	mg/Kg	✳	02/25/22 10:35	02/27/22 17:09	5
Chromium	19	B	0.56	0.28	mg/Kg	✳	02/25/22 10:35	02/25/22 23:25	1
Cobalt	11		0.28	0.073	mg/Kg	✳	02/25/22 10:35	02/25/22 23:25	1
Copper	21	B	0.56	0.16	mg/Kg	✳	02/25/22 10:35	02/25/22 23:25	1
Iron	20000	B	11	5.8	mg/Kg	✳	02/25/22 10:35	02/27/22 16:59	1
Lead	12		0.28	0.13	mg/Kg	✳	02/25/22 10:35	02/25/22 23:25	1
Magnesium	27000		5.6	2.8	mg/Kg	✳	02/25/22 10:35	02/27/22 16:59	1
Manganese	370	B	0.56	0.081	mg/Kg	✳	02/25/22 10:35	02/27/22 16:59	1
Nickel	29		0.56	0.16	mg/Kg	✳	02/25/22 10:35	02/25/22 23:25	1
Potassium	3000		28	9.8	mg/Kg	✳	02/25/22 10:35	02/27/22 16:59	1
Selenium	<0.56		0.56	0.33	mg/Kg	✳	02/25/22 10:35	02/25/22 23:25	1
Silver	0.26	J	0.28	0.072	mg/Kg	✳	02/25/22 10:35	02/25/22 23:25	1
Sodium	1200		56	8.2	mg/Kg	✳	02/25/22 10:35	02/27/22 16:59	1
Thallium	0.44	J	0.56	0.28	mg/Kg	✳	02/25/22 10:35	02/25/22 23:25	1
Vanadium	22		0.28	0.066	mg/Kg	✳	02/25/22 10:35	02/25/22 23:25	1
Zinc	62		1.1	0.49	mg/Kg	✳	02/25/22 10:35	02/25/22 23:25	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.40	J	0.50	0.050	mg/L		02/24/22 08:20	02/24/22 23:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/24/22 08:20	02/24/22 23:48	1
Boron	0.13	J	0.50	0.050	mg/L		02/24/22 08:20	02/24/22 23:48	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B09 (0-3.4)

Lab Sample ID: 500-212335-5

Date Collected: 02/14/22 15:18

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0036	J	0.0050	0.0020	mg/L	-	02/24/22 08:20	02/24/22 23:48	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/24/22 08:20	02/24/22 23:48	1
Cobalt	0.073		0.025	0.010	mg/L	-	02/24/22 08:20	02/24/22 23:48	1
Iron	<0.40		0.40	0.20	mg/L	-	02/24/22 08:20	02/24/22 23:48	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/24/22 08:20	02/25/22 16:16	1
Manganese	5.8		0.025	0.010	mg/L	-	02/24/22 08:20	02/24/22 23:48	1
Nickel	0.076		0.025	0.010	mg/L	-	02/24/22 08:20	02/24/22 23:48	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/24/22 08:20	02/24/22 23:48	1
Silver	<0.025		0.025	0.010	mg/L	-	02/24/22 08:20	02/24/22 23:48	1
Zinc	0.038	J	0.50	0.020	mg/L	-	02/24/22 08:20	02/24/22 23:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.2		0.025	0.010	mg/L	-	02/24/22 08:23	02/28/22 13:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/24/22 08:20	02/24/22 19:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/24/22 08:20	02/24/22 19:18	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	^1+	0.00020	0.00020	mg/L	-	02/23/22 14:10	02/24/22 12:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.019	0.0062	mg/Kg	☆	02/24/22 18:30	02/25/22 18:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.7		0.2	0.2	SU	-		02/18/22 19:40	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B05 (0-5.8)

Lab Sample ID: 500-212335-6

Date Collected: 02/14/22 15:40

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.014	J	0.022	0.0097	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
Benzene	<0.0022		0.0022	0.00057	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
Bromodichloromethane	<0.0022		0.0022	0.00045	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
Bromoform	<0.0022		0.0022	0.00065	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
Bromomethane	<0.0056	*+	0.0056	0.0021	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
2-Butanone (MEK)	<0.0056		0.0056	0.0025	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
Carbon disulfide	<0.0056		0.0056	0.0012	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
Carbon tetrachloride	<0.0022		0.0022	0.00065	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
Chlorobenzene	<0.0022		0.0022	0.00082	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
Chloroethane	<0.0056		0.0056	0.0017	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
Chloroform	<0.0022		0.0022	0.00077	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
Chloromethane	<0.0056		0.0056	0.0022	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00062	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00067	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
Dibromochloromethane	<0.0022		0.0022	0.00073	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
1,1-Dichloroethane	<0.0022		0.0022	0.00076	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
1,2-Dichloroethane	<0.0056		0.0056	0.0017	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
1,1-Dichloroethene	<0.0022		0.0022	0.00077	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
1,2-Dichloropropene	<0.0022		0.0022	0.00058	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
1,3-Dichloropropene, Total	<0.0022		0.0022	0.00078	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
Ethylbenzene	<0.0022		0.0022	0.0011	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
2-Hexanone	<0.0056		0.0056	0.0017	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
Methylene Chloride	<0.0056		0.0056	0.0022	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
4-Methyl-2-pentanone (MIBK)	<0.0056		0.0056	0.0017	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00066	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
Styrene	<0.0022		0.0022	0.00067	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.00071	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
Tetrachloroethene	<0.0022		0.0022	0.00076	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
Toluene	<0.0022		0.0022	0.00056	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00099	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.00078	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
1,1,1-Trichloroethane	<0.0022		0.0022	0.00075	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00096	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
Trichloroethene	<0.0022		0.0022	0.00075	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
Vinyl acetate	<0.0056		0.0056	0.0019	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
Vinyl chloride	<0.0022		0.0022	0.00099	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1
Xylenes, Total	<0.0045		0.0045	0.00071	mg/Kg	✳	02/15/22 17:35	02/25/22 12:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		75 - 131	02/15/22 17:35	02/25/22 12:32	1
Dibromofluoromethane	116		75 - 126	02/15/22 17:35	02/25/22 12:32	1
1,2-Dichloroethane-d4 (Surr)	132		70 - 134	02/15/22 17:35	02/25/22 12:32	1
Toluene-d8 (Surr)	103		75 - 124	02/15/22 17:35	02/25/22 12:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	✳	02/23/22 16:17	02/25/22 15:29	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	✳	02/23/22 16:17	02/25/22 15:29	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	✳	02/23/22 16:17	02/25/22 15:29	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	✳	02/23/22 16:17	02/25/22 15:29	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B05 (0-5.8)

Lab Sample ID: 500-212335-6

Date Collected: 02/14/22 15:40

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
Isophorone	<0.19		0.19	0.043	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
Acenaphthene	0.0084	J	0.038	0.0069	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
Fluorene	0.0091	J	0.038	0.0054	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
Phenanthrene	0.13		0.038	0.0054	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
Anthracene	0.045		0.038	0.0065	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
Carbazole	<0.19		0.19	0.097	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
Fluoranthene	0.27		0.038	0.0072	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
Pyrene	0.40		0.038	0.0077	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1
Benzo[a]anthracene	0.12		0.038	0.0052	mg/Kg	✱	02/23/22 16:17	02/25/22 15:29	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B05 (0-5.8)

Lab Sample ID: 500-212335-6

Date Collected: 02/14/22 15:40

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.15		0.038	0.011	mg/Kg	✳	02/23/22 16:17	02/25/22 15:29	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	✳	02/23/22 16:17	02/25/22 15:29	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	✳	02/23/22 16:17	02/25/22 15:29	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	✳	02/23/22 16:17	02/25/22 15:29	1
Benzo[b]fluoranthene	0.16	*3	0.038	0.0083	mg/Kg	✳	02/23/22 16:17	02/25/22 15:29	1
Benzo[k]fluoranthene	0.078	*3	0.038	0.011	mg/Kg	✳	02/23/22 16:17	02/25/22 15:29	1
Benzo[a]pyrene	0.12	*3	0.038	0.0075	mg/Kg	✳	02/23/22 16:17	02/25/22 15:29	1
Indeno[1,2,3-cd]pyrene	0.036	J *3	0.038	0.010	mg/Kg	✳	02/23/22 16:17	02/25/22 15:29	1
Dibenz(a,h)anthracene	0.012	J *3	0.038	0.0075	mg/Kg	✳	02/23/22 16:17	02/25/22 15:29	1
Benzo[g,h,i]perylene	0.038	*3	0.038	0.012	mg/Kg	✳	02/23/22 16:17	02/25/22 15:29	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	✳	02/23/22 16:17	02/25/22 15:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	86		31 - 166	02/23/22 16:17	02/25/22 15:29	1
Phenol-d5	92		30 - 153	02/23/22 16:17	02/25/22 15:29	1
Nitrobenzene-d5 (Surr)	67		37 - 147	02/23/22 16:17	02/25/22 15:29	1
2-Fluorobiphenyl (Surr)	84		43 - 145	02/23/22 16:17	02/25/22 15:29	1
2,4,6-Tribromophenol	70		31 - 143	02/23/22 16:17	02/25/22 15:29	1
Terphenyl-d14 (Surr)	155		42 - 157	02/23/22 16:17	02/25/22 15:29	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.25	J	1.1	0.22	mg/Kg	✳	02/25/22 10:35	02/25/22 23:28	1
Arsenic	6.3		0.56	0.19	mg/Kg	✳	02/25/22 10:35	02/25/22 23:28	1
Barium	49		0.56	0.063	mg/Kg	✳	02/25/22 10:35	02/27/22 17:12	1
Beryllium	0.59		0.22	0.052	mg/Kg	✳	02/25/22 10:35	02/27/22 17:12	1
Boron	13		2.8	0.26	mg/Kg	✳	02/25/22 10:35	02/25/22 23:28	1
Cadmium	0.090	J	0.11	0.020	mg/Kg	✳	02/25/22 10:35	02/25/22 23:28	1
Calcium	91000	B	56	9.4	mg/Kg	✳	02/25/22 10:35	02/27/22 17:15	5
Chromium	16	B	0.56	0.28	mg/Kg	✳	02/25/22 10:35	02/25/22 23:28	1
Cobalt	10		0.28	0.073	mg/Kg	✳	02/25/22 10:35	02/25/22 23:28	1
Copper	20	B	0.56	0.16	mg/Kg	✳	02/25/22 10:35	02/25/22 23:28	1
Iron	18000	B	11	5.8	mg/Kg	✳	02/25/22 10:35	02/27/22 17:12	1
Lead	15		0.28	0.13	mg/Kg	✳	02/25/22 10:35	02/25/22 23:28	1
Magnesium	33000		5.6	2.8	mg/Kg	✳	02/25/22 10:35	02/27/22 17:12	1
Manganese	430	B	0.56	0.081	mg/Kg	✳	02/25/22 10:35	02/27/22 17:12	1
Nickel	24		0.56	0.16	mg/Kg	✳	02/25/22 10:35	02/25/22 23:28	1
Potassium	2700		28	9.9	mg/Kg	✳	02/25/22 10:35	02/27/22 17:12	1
Selenium	<0.56		0.56	0.33	mg/Kg	✳	02/25/22 10:35	02/25/22 23:28	1
Silver	0.23	J	0.28	0.072	mg/Kg	✳	02/25/22 10:35	02/25/22 23:28	1
Sodium	1300		56	8.2	mg/Kg	✳	02/25/22 10:35	02/27/22 17:12	1
Thallium	0.56		0.56	0.28	mg/Kg	✳	02/25/22 10:35	02/25/22 23:28	1
Vanadium	20		0.28	0.066	mg/Kg	✳	02/25/22 10:35	02/25/22 23:28	1
Zinc	57		1.1	0.49	mg/Kg	✳	02/25/22 10:35	02/25/22 23:28	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.32	J	0.50	0.050	mg/L		02/24/22 08:20	02/24/22 22:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/24/22 08:20	02/24/22 22:49	1
Boron	0.057	J	0.50	0.050	mg/L		02/24/22 08:20	02/24/22 22:49	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B05 (0-5.8)

Lab Sample ID: 500-212335-6

Date Collected: 02/14/22 15:40

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0021	J	0.0050	0.0020	mg/L	-	02/24/22 08:20	02/24/22 22:49	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/24/22 08:20	02/24/22 22:49	1
Cobalt	0.010	J	0.025	0.010	mg/L	-	02/24/22 08:20	02/24/22 22:49	1
Iron	0.22	J	0.40	0.20	mg/L	-	02/24/22 08:20	02/24/22 22:49	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/24/22 08:20	02/24/22 22:49	1
Manganese	3.4		0.025	0.010	mg/L	-	02/24/22 08:20	02/24/22 22:49	1
Nickel	0.013	J	0.025	0.010	mg/L	-	02/24/22 08:20	02/24/22 22:49	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/24/22 08:20	02/24/22 22:49	1
Silver	<0.025		0.025	0.010	mg/L	-	02/24/22 08:20	02/24/22 22:49	1
Zinc	<0.50		0.50	0.020	mg/L	-	02/24/22 08:20	02/24/22 22:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.7		0.025	0.010	mg/L	-	02/24/22 08:23	02/28/22 13:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/24/22 08:20	02/24/22 18:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/24/22 08:20	02/24/22 18:43	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	^1+	0.00020	0.00020	mg/L	-	02/23/22 14:10	02/24/22 11:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.0059	mg/Kg	☆	02/24/22 18:30	02/25/22 18:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.6		0.2	0.2	SU	-		02/18/22 19:43	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

GC/MS VOA

Prep Batch: 644158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212335-1	223V2-01-B08 (0-4)	Total/NA	Solid	5035	
500-212335-2	223V2-01-B07 (0-4)	Total/NA	Solid	5035	
500-212335-3	223V2-01-B07 (4-7.2)	Total/NA	Solid	5035	
500-212335-4	223V2-01-B06 (0-5.7)	Total/NA	Solid	5035	
500-212335-5	223V2-01-B09 (0-3.4)	Total/NA	Solid	5035	
500-212335-6	223V2-01-B05 (0-5.8)	Total/NA	Solid	5035	

Analysis Batch: 644252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212335-1	223V2-01-B08 (0-4)	Total/NA	Solid	8260B	644158
500-212335-2	223V2-01-B07 (0-4)	Total/NA	Solid	8260B	644158
500-212335-3	223V2-01-B07 (4-7.2)	Total/NA	Solid	8260B	644158
500-212335-4	223V2-01-B06 (0-5.7)	Total/NA	Solid	8260B	644158
500-212335-5	223V2-01-B09 (0-3.4)	Total/NA	Solid	8260B	644158
MB 500-644252/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-644252/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-644252/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 644471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212335-6	223V2-01-B05 (0-5.8)	Total/NA	Solid	8260B	644158
MB 500-644471/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-644471/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-644471/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 644133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212335-1	223V2-01-B08 (0-4)	Total/NA	Solid	3541	
500-212335-2	223V2-01-B07 (0-4)	Total/NA	Solid	3541	
500-212335-3	223V2-01-B07 (4-7.2)	Total/NA	Solid	3541	
500-212335-4	223V2-01-B06 (0-5.7)	Total/NA	Solid	3541	
500-212335-5	223V2-01-B09 (0-3.4)	Total/NA	Solid	3541	
500-212335-6	223V2-01-B05 (0-5.8)	Total/NA	Solid	3541	
MB 500-644133/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-644133/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-212335-1 MS	223V2-01-B08 (0-4)	Total/NA	Solid	3541	
500-212335-1 MSD	223V2-01-B08 (0-4)	Total/NA	Solid	3541	

Analysis Batch: 644209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-644133/1-A	Method Blank	Total/NA	Solid	8270D	644133
LCS 500-644133/2-A	Lab Control Sample	Total/NA	Solid	8270D	644133

Analysis Batch: 644215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212335-1	223V2-01-B08 (0-4)	Total/NA	Solid	8270D	644133
500-212335-2	223V2-01-B07 (0-4)	Total/NA	Solid	8270D	644133
500-212335-3	223V2-01-B07 (4-7.2)	Total/NA	Solid	8270D	644133
500-212335-4	223V2-01-B06 (0-5.7)	Total/NA	Solid	8270D	644133

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

GC/MS Semi VOA (Continued)

Analysis Batch: 644215 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212335-5	223V2-01-B09 (0-3.4)	Total/NA	Solid	8270D	644133
500-212335-1 MS	223V2-01-B08 (0-4)	Total/NA	Solid	8270D	644133
500-212335-1 MSD	223V2-01-B08 (0-4)	Total/NA	Solid	8270D	644133

Analysis Batch: 644447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212335-6	223V2-01-B05 (0-5.8)	Total/NA	Solid	8270D	644133

Metals

Leach Batch: 643913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212335-1	223V2-01-B08 (0-4)	TCLP	Solid	1311	
500-212335-2	223V2-01-B07 (0-4)	TCLP	Solid	1311	
500-212335-3	223V2-01-B07 (4-7.2)	TCLP	Solid	1311	
500-212335-4	223V2-01-B06 (0-5.7)	TCLP	Solid	1311	
500-212335-6	223V2-01-B05 (0-5.8)	TCLP	Solid	1311	
LB 500-643913/2-B	Method Blank	TCLP	Solid	1311	
LB 500-643913/2-C	Method Blank	TCLP	Solid	1311	
500-212335-2 MS	223V2-01-B07 (0-4)	TCLP	Solid	1311	
500-212335-2 DU	223V2-01-B07 (0-4)	TCLP	Solid	1311	

Leach Batch: 643914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212335-5	223V2-01-B09 (0-3.4)	TCLP	Solid	1311	
LB2 500-643914/2-B	Method Blank	TCLP	Solid	1311	
LB2 500-643914/2-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 643921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212335-1	223V2-01-B08 (0-4)	SPLP East	Solid	1312	
500-212335-3	223V2-01-B07 (4-7.2)	SPLP East	Solid	1312	
500-212335-4	223V2-01-B06 (0-5.7)	SPLP East	Solid	1312	
500-212335-5	223V2-01-B09 (0-3.4)	SPLP East	Solid	1312	
500-212335-6	223V2-01-B05 (0-5.8)	SPLP East	Solid	1312	
LB 500-643921/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 644075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212335-1	223V2-01-B08 (0-4)	TCLP	Solid	7470A	643913
500-212335-2	223V2-01-B07 (0-4)	TCLP	Solid	7470A	643913
500-212335-3	223V2-01-B07 (4-7.2)	TCLP	Solid	7470A	643913
500-212335-4	223V2-01-B06 (0-5.7)	TCLP	Solid	7470A	643913
500-212335-5	223V2-01-B09 (0-3.4)	TCLP	Solid	7470A	643914
500-212335-6	223V2-01-B05 (0-5.8)	TCLP	Solid	7470A	643913
LB 500-643913/2-B	Method Blank	TCLP	Solid	7470A	643913
LB2 500-643914/2-B	Method Blank	TCLP	Solid	7470A	643914
MB 500-644075/13-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-644075/14-A	Lab Control Sample	Total/NA	Solid	7470A	
LCS 500-644075/35-A	Lab Control Sample	Total/NA	Solid	7470A	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Metals

Prep Batch: 644281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212335-1	223V2-01-B08 (0-4)	TCLP	Solid	3010A	643913
500-212335-2	223V2-01-B07 (0-4)	TCLP	Solid	3010A	643913
500-212335-3	223V2-01-B07 (4-7.2)	TCLP	Solid	3010A	643913
500-212335-4	223V2-01-B06 (0-5.7)	TCLP	Solid	3010A	643913
500-212335-5	223V2-01-B09 (0-3.4)	TCLP	Solid	3010A	643914
500-212335-6	223V2-01-B05 (0-5.8)	TCLP	Solid	3010A	643913
LB 500-643913/2-C	Method Blank	TCLP	Solid	3010A	643913
LB2 500-643914/2-C	Method Blank	TCLP	Solid	3010A	643914
LCS 500-644281/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-212335-2 MS	223V2-01-B07 (0-4)	TCLP	Solid	3010A	643913
500-212335-2 DU	223V2-01-B07 (0-4)	TCLP	Solid	3010A	643913

Prep Batch: 644290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212335-1	223V2-01-B08 (0-4)	SPLP East	Solid	3010A	643921
500-212335-3	223V2-01-B07 (4-7.2)	SPLP East	Solid	3010A	643921
500-212335-4	223V2-01-B06 (0-5.7)	SPLP East	Solid	3010A	643921
500-212335-5	223V2-01-B09 (0-3.4)	SPLP East	Solid	3010A	643921
500-212335-6	223V2-01-B05 (0-5.8)	SPLP East	Solid	3010A	643921
LB 500-643921/1-B	Method Blank	SPLP East	Solid	3010A	643921
LCS 500-644290/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 644323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212335-1	223V2-01-B08 (0-4)	Total/NA	Solid	3050B	
500-212335-2	223V2-01-B07 (0-4)	Total/NA	Solid	3050B	
500-212335-3	223V2-01-B07 (4-7.2)	Total/NA	Solid	3050B	
500-212335-4	223V2-01-B06 (0-5.7)	Total/NA	Solid	3050B	
500-212335-5	223V2-01-B09 (0-3.4)	Total/NA	Solid	3050B	
500-212335-6	223V2-01-B05 (0-5.8)	Total/NA	Solid	3050B	
MB 500-644323/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-644323/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-212335-1 MS	223V2-01-B08 (0-4)	Total/NA	Solid	3050B	
500-212335-1 MSD	223V2-01-B08 (0-4)	Total/NA	Solid	3050B	
500-212335-1 DU	223V2-01-B08 (0-4)	Total/NA	Solid	3050B	

Prep Batch: 644343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212335-1	223V2-01-B08 (0-4)	Total/NA	Solid	7471B	
500-212335-2	223V2-01-B07 (0-4)	Total/NA	Solid	7471B	
500-212335-3	223V2-01-B07 (4-7.2)	Total/NA	Solid	7471B	
500-212335-4	223V2-01-B06 (0-5.7)	Total/NA	Solid	7471B	
500-212335-5	223V2-01-B09 (0-3.4)	Total/NA	Solid	7471B	
500-212335-6	223V2-01-B05 (0-5.8)	Total/NA	Solid	7471B	
MB 500-644343/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-644343/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 644370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212335-1	223V2-01-B08 (0-4)	TCLP	Solid	7470A	644075
500-212335-2	223V2-01-B07 (0-4)	TCLP	Solid	7470A	644075

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Metals (Continued)

Analysis Batch: 644370 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212335-3	223V2-01-B07 (4-7.2)	TCLP	Solid	7470A	644075
500-212335-4	223V2-01-B06 (0-5.7)	TCLP	Solid	7470A	644075
500-212335-5	223V2-01-B09 (0-3.4)	TCLP	Solid	7470A	644075
500-212335-6	223V2-01-B05 (0-5.8)	TCLP	Solid	7470A	644075
LB 500-643913/2-B	Method Blank	TCLP	Solid	7470A	644075
LB2 500-643914/2-B	Method Blank	TCLP	Solid	7470A	644075
MB 500-644075/13-A	Method Blank	Total/NA	Solid	7470A	644075
LCS 500-644075/14-A	Lab Control Sample	Total/NA	Solid	7470A	644075
LCS 500-644075/35-A	Lab Control Sample	Total/NA	Solid	7470A	644075

Analysis Batch: 644485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212335-1	223V2-01-B08 (0-4)	TCLP	Solid	6020A	644281
500-212335-2	223V2-01-B07 (0-4)	TCLP	Solid	6020A	644281
500-212335-3	223V2-01-B07 (4-7.2)	TCLP	Solid	6020A	644281
500-212335-4	223V2-01-B06 (0-5.7)	TCLP	Solid	6020A	644281
500-212335-5	223V2-01-B09 (0-3.4)	TCLP	Solid	6020A	644281
500-212335-6	223V2-01-B05 (0-5.8)	TCLP	Solid	6020A	644281
LB 500-643913/2-C	Method Blank	TCLP	Solid	6020A	644281
LB2 500-643914/2-C	Method Blank	TCLP	Solid	6020A	644281
500-212335-2 DU	223V2-01-B07 (0-4)	TCLP	Solid	6020A	644281

Analysis Batch: 644517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212335-1	223V2-01-B08 (0-4)	TCLP	Solid	6010B	644281
500-212335-2	223V2-01-B07 (0-4)	TCLP	Solid	6010B	644281
500-212335-3	223V2-01-B07 (4-7.2)	TCLP	Solid	6010B	644281
500-212335-4	223V2-01-B06 (0-5.7)	TCLP	Solid	6010B	644281
500-212335-5	223V2-01-B09 (0-3.4)	TCLP	Solid	6010B	644281
500-212335-6	223V2-01-B05 (0-5.8)	TCLP	Solid	6010B	644281
LB 500-643913/2-C	Method Blank	TCLP	Solid	6010B	644281
LB2 500-643914/2-C	Method Blank	TCLP	Solid	6010B	644281
MRL 500-644517/16	Lab Control Sample	Total/NA	Solid	6010B	644281
500-212335-2 MS	223V2-01-B07 (0-4)	TCLP	Solid	6010B	644281
500-212335-2 DU	223V2-01-B07 (0-4)	TCLP	Solid	6010B	644281

Analysis Batch: 644561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-644281/2-A	Lab Control Sample	Total/NA	Solid	6020A	644281

Analysis Batch: 644565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-644281/2-A	Lab Control Sample	Total/NA	Solid	6010B	644281

Analysis Batch: 644606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212335-1	223V2-01-B08 (0-4)	Total/NA	Solid	7471B	644343
500-212335-2	223V2-01-B07 (0-4)	Total/NA	Solid	7471B	644343
500-212335-3	223V2-01-B07 (4-7.2)	Total/NA	Solid	7471B	644343
500-212335-4	223V2-01-B06 (0-5.7)	Total/NA	Solid	7471B	644343
500-212335-5	223V2-01-B09 (0-3.4)	Total/NA	Solid	7471B	644343

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Metals (Continued)

Analysis Batch: 644606 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212335-6	223V2-01-B05 (0-5.8)	Total/NA	Solid	7471B	644343
MB 500-644343/12-A	Method Blank	Total/NA	Solid	7471B	644343
LCS 500-644343/13-A	Lab Control Sample	Total/NA	Solid	7471B	644343

Analysis Batch: 644657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212335-5	223V2-01-B09 (0-3.4)	TCLP	Solid	6010B	644281

Analysis Batch: 644662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212335-1	223V2-01-B08 (0-4)	Total/NA	Solid	6010B	644323
500-212335-2	223V2-01-B07 (0-4)	Total/NA	Solid	6010B	644323
500-212335-3	223V2-01-B07 (4-7.2)	Total/NA	Solid	6010B	644323
500-212335-4	223V2-01-B06 (0-5.7)	Total/NA	Solid	6010B	644323
500-212335-5	223V2-01-B09 (0-3.4)	Total/NA	Solid	6010B	644323
500-212335-6	223V2-01-B05 (0-5.8)	Total/NA	Solid	6010B	644323
MB 500-644323/1-A	Method Blank	Total/NA	Solid	6010B	644323
LCS 500-644323/2-A	Lab Control Sample	Total/NA	Solid	6010B	644323
500-212335-1 MS	223V2-01-B08 (0-4)	Total/NA	Solid	6010B	644323
500-212335-1 MSD	223V2-01-B08 (0-4)	Total/NA	Solid	6010B	644323
500-212335-1 DU	223V2-01-B08 (0-4)	Total/NA	Solid	6010B	644323

Analysis Batch: 644768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212335-1	223V2-01-B08 (0-4)	Total/NA	Solid	6010B	644323
500-212335-1	223V2-01-B08 (0-4)	Total/NA	Solid	6010B	644323
500-212335-2	223V2-01-B07 (0-4)	Total/NA	Solid	6010B	644323
500-212335-3	223V2-01-B07 (4-7.2)	Total/NA	Solid	6010B	644323
500-212335-3	223V2-01-B07 (4-7.2)	Total/NA	Solid	6010B	644323
500-212335-4	223V2-01-B06 (0-5.7)	Total/NA	Solid	6010B	644323
500-212335-4	223V2-01-B06 (0-5.7)	Total/NA	Solid	6010B	644323
500-212335-5	223V2-01-B09 (0-3.4)	Total/NA	Solid	6010B	644323
500-212335-5	223V2-01-B09 (0-3.4)	Total/NA	Solid	6010B	644323
500-212335-6	223V2-01-B05 (0-5.8)	Total/NA	Solid	6010B	644323
500-212335-6	223V2-01-B05 (0-5.8)	Total/NA	Solid	6010B	644323
MB 500-644323/1-A	Method Blank	Total/NA	Solid	6010B	644323
LCS 500-644323/2-A	Lab Control Sample	Total/NA	Solid	6010B	644323
500-212335-1 MS	223V2-01-B08 (0-4)	Total/NA	Solid	6010B	644323
500-212335-1 MS	223V2-01-B08 (0-4)	Total/NA	Solid	6010B	644323
500-212335-1 MSD	223V2-01-B08 (0-4)	Total/NA	Solid	6010B	644323
500-212335-1 MSD	223V2-01-B08 (0-4)	Total/NA	Solid	6010B	644323
500-212335-1 DU	223V2-01-B08 (0-4)	Total/NA	Solid	6010B	644323
500-212335-1 DU	223V2-01-B08 (0-4)	Total/NA	Solid	6010B	644323

Analysis Batch: 644873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212335-1	223V2-01-B08 (0-4)	SPLP East	Solid	6010B	644290
500-212335-3	223V2-01-B07 (4-7.2)	SPLP East	Solid	6010B	644290
500-212335-4	223V2-01-B06 (0-5.7)	SPLP East	Solid	6010B	644290
500-212335-5	223V2-01-B09 (0-3.4)	SPLP East	Solid	6010B	644290
500-212335-6	223V2-01-B05 (0-5.8)	SPLP East	Solid	6010B	644290

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Metals (Continued)

Analysis Batch: 644873 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-643921/1-B	Method Blank	SPLP East	Solid	6010B	644290
LCS 500-644290/2-A	Lab Control Sample	Total/NA	Solid	6010B	644290

General Chemistry

Analysis Batch: 643097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212335-1	223V2-01-B08 (0-4)	Total/NA	Solid	Moisture	
500-212335-2	223V2-01-B07 (0-4)	Total/NA	Solid	Moisture	
500-212335-3	223V2-01-B07 (4-7.2)	Total/NA	Solid	Moisture	
500-212335-4	223V2-01-B06 (0-5.7)	Total/NA	Solid	Moisture	

Analysis Batch: 643153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212335-5	223V2-01-B09 (0-3.4)	Total/NA	Solid	Moisture	
500-212335-6	223V2-01-B05 (0-5.8)	Total/NA	Solid	Moisture	

Analysis Batch: 643430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212335-1	223V2-01-B08 (0-4)	Total/NA	Solid	9045D	
500-212335-2	223V2-01-B07 (0-4)	Total/NA	Solid	9045D	
500-212335-3	223V2-01-B07 (4-7.2)	Total/NA	Solid	9045D	
500-212335-4	223V2-01-B06 (0-5.7)	Total/NA	Solid	9045D	
500-212335-5	223V2-01-B09 (0-3.4)	Total/NA	Solid	9045D	
500-212335-6	223V2-01-B05 (0-5.8)	Total/NA	Solid	9045D	
LCS 500-643430/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-643430/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Surrogate Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(75-131)	(75-126)	(70-134)	(75-124)
500-212335-1	223V2-01-B08 (0-4)	115	98	100	98
500-212335-2	223V2-01-B07 (0-4)	112	103	101	95
500-212335-3	223V2-01-B07 (4-7.2)	111	109	110	94
500-212335-4	223V2-01-B06 (0-5.7)	120	102	108	100
500-212335-5	223V2-01-B09 (0-3.4)	125	107	115	98
500-212335-6	223V2-01-B05 (0-5.8)	106	116	132	103
LCS 500-644252/4	Lab Control Sample	106	98	97	98
LCS 500-644471/3	Lab Control Sample	89	112	116	104
LCSD 500-644252/5	Lab Control Sample Dup	104	100	96	94
LCSD 500-644471/4	Lab Control Sample Dup	90	111	116	103
MB 500-644252/7	Method Blank	111	97	94	101
MB 500-644471/6	Method Blank	99	109	104	103

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP	PHL	NBZ	FBP	TBP	TPHL
		(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-212335-1	223V2-01-B08 (0-4)	84	75	84	97	108	122
500-212335-1 MS	223V2-01-B08 (0-4)	81	81	79	92	108	128
500-212335-1 MSD	223V2-01-B08 (0-4)	90	89	90	103	115	138
500-212335-2	223V2-01-B07 (0-4)	82	70	75	88	95	132
500-212335-3	223V2-01-B07 (4-7.2)	81	73	73	85	90	120
500-212335-4	223V2-01-B06 (0-5.7)	82	76	72	92	106	139
500-212335-5	223V2-01-B09 (0-3.4)	82	72	75	89	105	131
500-212335-6	223V2-01-B05 (0-5.8)	86	92	67	84	70	155
LCS 500-644133/2-A	Lab Control Sample	95	103	81	101	77	97
MB 500-644133/1-A	Method Blank	100	93	77	91	58	108

Surrogate Legend

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

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

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

Lab Sample ID: MB 500-644252/7
Matrix: Solid
Analysis Batch: 644252

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			02/24/22 11:00	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			02/24/22 11:00	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			02/24/22 11:00	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			02/24/22 11:00	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			02/24/22 11:00	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			02/24/22 11:00	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			02/24/22 11:00	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			02/24/22 11:00	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			02/24/22 11:00	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			02/24/22 11:00	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			02/24/22 11:00	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			02/24/22 11:00	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			02/24/22 11:00	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			02/24/22 11:00	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			02/24/22 11:00	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			02/24/22 11:00	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			02/24/22 11:00	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			02/24/22 11:00	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			02/24/22 11:00	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			02/24/22 11:00	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			02/24/22 11:00	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/24/22 11:00	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			02/24/22 11:00	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			02/24/22 11:00	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			02/24/22 11:00	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			02/24/22 11:00	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			02/24/22 11:00	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/24/22 11:00	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			02/24/22 11:00	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			02/24/22 11:00	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			02/24/22 11:00	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			02/24/22 11:00	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			02/24/22 11:00	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/24/22 11:00	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			02/24/22 11:00	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			02/24/22 11:00	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			02/24/22 11:00	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	111		75 - 131		02/24/22 11:00	1
Dibromofluoromethane	97		75 - 126		02/24/22 11:00	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134		02/24/22 11:00	1
Toluene-d8 (Surr)	101		75 - 124		02/24/22 11:00	1

QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

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

Lab Sample ID: LCS 500-644252/4
Matrix: Solid
Analysis Batch: 644252

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0467		mg/Kg		93	40 - 150
Benzene	0.0500	0.0452		mg/Kg		90	70 - 125
Bromodichloromethane	0.0500	0.0488		mg/Kg		98	67 - 129
Bromoform	0.0500	0.0479		mg/Kg		96	68 - 136
Bromomethane	0.0500	0.0379		mg/Kg		76	70 - 130
2-Butanone (MEK)	0.0500	0.0493		mg/Kg		99	47 - 138
Carbon disulfide	0.0500	0.0423		mg/Kg		85	70 - 129
Carbon tetrachloride	0.0500	0.0479		mg/Kg		96	75 - 125
Chlorobenzene	0.0500	0.0485		mg/Kg		97	50 - 150
Chloroethane	0.0500	0.0414		mg/Kg		83	75 - 125
Chloroform	0.0500	0.0481		mg/Kg		96	57 - 135
Chloromethane	0.0500	0.0365		mg/Kg		73	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0455		mg/Kg		91	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0434		mg/Kg		87	70 - 125
Dibromochloromethane	0.0500	0.0464		mg/Kg		93	69 - 125
1,1-Dichloroethane	0.0500	0.0453		mg/Kg		91	70 - 125
1,2-Dichloroethane	0.0500	0.0492		mg/Kg		98	70 - 130
1,1-Dichloroethene	0.0500	0.0458		mg/Kg		92	70 - 120
1,2-Dichloropropane	0.0500	0.0457		mg/Kg		91	70 - 125
Ethylbenzene	0.0500	0.0482		mg/Kg		96	61 - 136
2-Hexanone	0.0500	0.0416		mg/Kg		83	48 - 146
Methylene Chloride	0.0500	0.0464		mg/Kg		93	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0401		mg/Kg		80	50 - 148
Methyl tert-butyl ether	0.0500	0.0445		mg/Kg		89	50 - 140
Styrene	0.0500	0.0466		mg/Kg		93	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0498		mg/Kg		100	70 - 122
Tetrachloroethene	0.0500	0.0521		mg/Kg		104	70 - 124
Toluene	0.0500	0.0462		mg/Kg		92	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0461		mg/Kg		92	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0442		mg/Kg		88	70 - 125
1,1,1-Trichloroethane	0.0500	0.0484		mg/Kg		97	70 - 128
1,1,2-Trichloroethane	0.0500	0.0474		mg/Kg		95	70 - 125
Trichloroethene	0.0500	0.0489		mg/Kg		98	70 - 125
Vinyl acetate	0.0500	0.0370		mg/Kg		74	40 - 153
Vinyl chloride	0.0500	0.0409		mg/Kg		82	70 - 125
Xylenes, Total	0.100	0.0941		mg/Kg		94	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	106		75 - 131
Dibromofluoromethane	98		75 - 126
1,2-Dichloroethane-d4 (Surr)	97		70 - 134
Toluene-d8 (Surr)	98		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

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

Lab Sample ID: LCSD 500-644252/5
Matrix: Solid
Analysis Batch: 644252

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0498		mg/Kg		100	40 - 150	6	30
Benzene	0.0500	0.0532		mg/Kg		106	70 - 125	16	30
Bromodichloromethane	0.0500	0.0556		mg/Kg		111	67 - 129	13	30
Bromoform	0.0500	0.0541		mg/Kg		108	68 - 136	12	30
Bromomethane	0.0500	0.0444		mg/Kg		89	70 - 130	16	30
2-Butanone (MEK)	0.0500	0.0495		mg/Kg		99	47 - 138	0	30
Carbon disulfide	0.0500	0.0517		mg/Kg		103	70 - 129	20	30
Carbon tetrachloride	0.0500	0.0597		mg/Kg		119	75 - 125	22	30
Chlorobenzene	0.0500	0.0556		mg/Kg		111	50 - 150	14	30
Chloroethane	0.0500	0.0474		mg/Kg		95	75 - 125	13	30
Chloroform	0.0500	0.0586		mg/Kg		117	57 - 135	20	30
Chloromethane	0.0500	0.0404		mg/Kg		81	70 - 125	10	30
cis-1,2-Dichloroethene	0.0500	0.0569		mg/Kg		114	70 - 125	22	30
cis-1,3-Dichloropropene	0.0500	0.0490		mg/Kg		98	70 - 125	12	30
Dibromochloromethane	0.0500	0.0523		mg/Kg		105	69 - 125	12	30
1,1-Dichloroethane	0.0500	0.0574		mg/Kg		115	70 - 125	23	30
1,2-Dichloroethane	0.0500	0.0577		mg/Kg		115	70 - 130	16	30
1,1-Dichloroethene	0.0500	0.0555		mg/Kg		111	70 - 120	19	30
1,2-Dichloropropane	0.0500	0.0518		mg/Kg		104	70 - 125	13	30
Ethylbenzene	0.0500	0.0551		mg/Kg		110	61 - 136	13	30
2-Hexanone	0.0500	0.0416		mg/Kg		83	48 - 146	0	30
Methylene Chloride	0.0500	0.0567		mg/Kg		113	70 - 126	20	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0410		mg/Kg		82	50 - 148	2	30
Methyl tert-butyl ether	0.0500	0.0522		mg/Kg		104	50 - 140	16	30
Styrene	0.0500	0.0538		mg/Kg		108	70 - 125	14	30
1,1,2,2-Tetrachloroethane	0.0500	0.0545		mg/Kg		109	70 - 122	9	30
Tetrachloroethene	0.0500	0.0585		mg/Kg		117	70 - 124	12	30
Toluene	0.0500	0.0517		mg/Kg		103	70 - 125	11	30
trans-1,2-Dichloroethene	0.0500	0.0574		mg/Kg		115	70 - 125	22	30
trans-1,3-Dichloropropene	0.0500	0.0499		mg/Kg		100	70 - 125	12	30
1,1,1-Trichloroethane	0.0500	0.0602		mg/Kg		120	70 - 128	22	30
1,1,2-Trichloroethane	0.0500	0.0510		mg/Kg		102	70 - 125	7	30
Trichloroethene	0.0500	0.0569		mg/Kg		114	70 - 125	15	30
Vinyl acetate	0.0500	0.0386		mg/Kg		77	40 - 153	4	30
Vinyl chloride	0.0500	0.0466		mg/Kg		93	70 - 125	13	30
Xylenes, Total	0.100	0.109		mg/Kg		109	53 - 147	14	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	104		75 - 131
Dibromofluoromethane	100		75 - 126
1,2-Dichloroethane-d4 (Surr)	96		70 - 134
Toluene-d8 (Surr)	94		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

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

Lab Sample ID: MB 500-644471/6
Matrix: Solid
Analysis Batch: 644471

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			02/25/22 12:06	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			02/25/22 12:06	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			02/25/22 12:06	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			02/25/22 12:06	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			02/25/22 12:06	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			02/25/22 12:06	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			02/25/22 12:06	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			02/25/22 12:06	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			02/25/22 12:06	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			02/25/22 12:06	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			02/25/22 12:06	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			02/25/22 12:06	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			02/25/22 12:06	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			02/25/22 12:06	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			02/25/22 12:06	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			02/25/22 12:06	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			02/25/22 12:06	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			02/25/22 12:06	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			02/25/22 12:06	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			02/25/22 12:06	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			02/25/22 12:06	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/25/22 12:06	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			02/25/22 12:06	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			02/25/22 12:06	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			02/25/22 12:06	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			02/25/22 12:06	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			02/25/22 12:06	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/25/22 12:06	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			02/25/22 12:06	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			02/25/22 12:06	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			02/25/22 12:06	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			02/25/22 12:06	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			02/25/22 12:06	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/25/22 12:06	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			02/25/22 12:06	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			02/25/22 12:06	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			02/25/22 12:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		75 - 131		02/25/22 12:06	1
Dibromofluoromethane	109		75 - 126		02/25/22 12:06	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134		02/25/22 12:06	1
Toluene-d8 (Surr)	103		75 - 124		02/25/22 12:06	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

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

Lab Sample ID: LCS 500-644471/3

Matrix: Solid

Analysis Batch: 644471

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0540		mg/Kg		108	40 - 150
Benzene	0.0500	0.0430		mg/Kg		86	70 - 125
Bromodichloromethane	0.0500	0.0472		mg/Kg		94	67 - 129
Bromoform	0.0500	0.0524		mg/Kg		105	68 - 136
Bromomethane	0.0500	0.0680	*+	mg/Kg		136	70 - 130
2-Butanone (MEK)	0.0500	0.0443		mg/Kg		89	47 - 138
Carbon disulfide	0.0500	0.0428		mg/Kg		86	70 - 129
Carbon tetrachloride	0.0500	0.0508		mg/Kg		102	75 - 125
Chlorobenzene	0.0500	0.0426		mg/Kg		85	50 - 150
Chloroethane	0.0500	0.0502		mg/Kg		100	75 - 125
Chloroform	0.0500	0.0466		mg/Kg		93	57 - 135
Chloromethane	0.0500	0.0436		mg/Kg		87	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0455		mg/Kg		91	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0414		mg/Kg		83	70 - 125
Dibromochloromethane	0.0500	0.0492		mg/Kg		98	69 - 125
1,1-Dichloroethane	0.0500	0.0419		mg/Kg		84	70 - 125
1,2-Dichloroethane	0.0500	0.0516		mg/Kg		103	70 - 130
1,1-Dichloroethene	0.0500	0.0456		mg/Kg		91	70 - 120
1,2-Dichloropropane	0.0500	0.0428		mg/Kg		86	70 - 125
Ethylbenzene	0.0500	0.0430		mg/Kg		86	61 - 136
2-Hexanone	0.0500	0.0393		mg/Kg		79	48 - 146
Methylene Chloride	0.0500	0.0441		mg/Kg		88	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0407		mg/Kg		81	50 - 148
Methyl tert-butyl ether	0.0500	0.0457		mg/Kg		91	50 - 140
Styrene	0.0500	0.0446		mg/Kg		89	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0427		mg/Kg		85	70 - 122
Tetrachloroethene	0.0500	0.0480		mg/Kg		96	70 - 124
Toluene	0.0500	0.0429		mg/Kg		86	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0459		mg/Kg		92	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0432		mg/Kg		86	70 - 125
1,1,1-Trichloroethane	0.0500	0.0501		mg/Kg		100	70 - 128
1,1,2-Trichloroethane	0.0500	0.0476		mg/Kg		95	70 - 125
Trichloroethene	0.0500	0.0469		mg/Kg		94	70 - 125
Vinyl acetate	0.0500	0.0440		mg/Kg		88	40 - 153
Vinyl chloride	0.0500	0.0538		mg/Kg		108	70 - 125
Xylenes, Total	0.100	0.0879		mg/Kg		88	53 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		75 - 131
Dibromofluoromethane	112		75 - 126
1,2-Dichloroethane-d4 (Surr)	116		70 - 134
Toluene-d8 (Surr)	104		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

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

Lab Sample ID: LCSD 500-644471/4
Matrix: Solid
Analysis Batch: 644471

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0568		mg/Kg		114	40 - 150	5	30
Benzene	0.0500	0.0481		mg/Kg		96	70 - 125	11	30
Bromodichloromethane	0.0500	0.0538		mg/Kg		108	67 - 129	13	30
Bromoform	0.0500	0.0589		mg/Kg		118	68 - 136	12	30
Bromomethane	0.0500	0.0621		mg/Kg		124	70 - 130	9	30
2-Butanone (MEK)	0.0500	0.0469		mg/Kg		94	47 - 138	6	30
Carbon disulfide	0.0500	0.0466		mg/Kg		93	70 - 129	9	30
Carbon tetrachloride	0.0500	0.0570		mg/Kg		114	75 - 125	11	30
Chlorobenzene	0.0500	0.0487		mg/Kg		97	50 - 150	13	30
Chloroethane	0.0500	0.0491		mg/Kg		98	75 - 125	2	30
Chloroform	0.0500	0.0520		mg/Kg		104	57 - 135	11	30
Chloromethane	0.0500	0.0432		mg/Kg		86	70 - 125	1	30
cis-1,2-Dichloroethene	0.0500	0.0490		mg/Kg		98	70 - 125	7	30
cis-1,3-Dichloropropene	0.0500	0.0464		mg/Kg		93	70 - 125	11	30
Dibromochloromethane	0.0500	0.0558		mg/Kg		112	69 - 125	13	30
1,1-Dichloroethane	0.0500	0.0471		mg/Kg		94	70 - 125	12	30
1,2-Dichloroethane	0.0500	0.0579		mg/Kg		116	70 - 130	12	30
1,1-Dichloroethene	0.0500	0.0507		mg/Kg		101	70 - 120	11	30
1,2-Dichloropropane	0.0500	0.0462		mg/Kg		92	70 - 125	8	30
Ethylbenzene	0.0500	0.0498		mg/Kg		100	61 - 136	15	30
2-Hexanone	0.0500	0.0411		mg/Kg		82	48 - 146	4	30
Methylene Chloride	0.0500	0.0467		mg/Kg		93	70 - 126	6	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0409		mg/Kg		82	50 - 148	1	30
Methyl tert-butyl ether	0.0500	0.0494		mg/Kg		99	50 - 140	8	30
Styrene	0.0500	0.0510		mg/Kg		102	70 - 125	14	30
1,1,2,2-Tetrachloroethane	0.0500	0.0474		mg/Kg		95	70 - 122	10	30
Tetrachloroethene	0.0500	0.0547		mg/Kg		109	70 - 124	13	30
Toluene	0.0500	0.0487		mg/Kg		97	70 - 125	13	30
trans-1,2-Dichloroethene	0.0500	0.0513		mg/Kg		103	70 - 125	11	30
trans-1,3-Dichloropropene	0.0500	0.0508		mg/Kg		102	70 - 125	16	30
1,1,1-Trichloroethane	0.0500	0.0564		mg/Kg		113	70 - 128	12	30
1,1,2-Trichloroethane	0.0500	0.0538		mg/Kg		108	70 - 125	12	30
Trichloroethene	0.0500	0.0534		mg/Kg		107	70 - 125	13	30
Vinyl acetate	0.0500	0.0450		mg/Kg		90	40 - 153	2	30
Vinyl chloride	0.0500	0.0526		mg/Kg		105	70 - 125	2	30
Xylenes, Total	0.100	0.101		mg/Kg		101	53 - 147	14	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	90		75 - 131
Dibromofluoromethane	111		75 - 126
1,2-Dichloroethane-d4 (Surr)	116		70 - 134
Toluene-d8 (Surr)	103		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

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

Lab Sample ID: MB 500-644133/1-A
Matrix: Solid
Analysis Batch: 644209

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644133

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/23/22 16:17	02/24/22 11:21	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

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

Lab Sample ID: MB 500-644133/1-A
Matrix: Solid
Analysis Batch: 644209

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644133

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/23/22 16:17	02/24/22 11:21	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/23/22 16:17	02/24/22 11:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	100		31 - 166	02/23/22 16:17	02/24/22 11:21	1
Phenol-d5	93		30 - 153	02/23/22 16:17	02/24/22 11:21	1
Nitrobenzene-d5 (Surr)	77		37 - 147	02/23/22 16:17	02/24/22 11:21	1
2-Fluorobiphenyl (Surr)	91		43 - 145	02/23/22 16:17	02/24/22 11:21	1
2,4,6-Tribromophenol	58		31 - 143	02/23/22 16:17	02/24/22 11:21	1
Terphenyl-d14 (Surr)	108		42 - 157	02/23/22 16:17	02/24/22 11:21	1

Lab Sample ID: LCS 500-644133/2-A
Matrix: Solid
Analysis Batch: 644209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644133

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.26		mg/Kg		95	56 - 122
Bis(2-chloroethyl)ether	1.33	1.32		mg/Kg		99	55 - 111
1,3-Dichlorobenzene	1.33	1.09		mg/Kg		81	65 - 124
1,4-Dichlorobenzene	1.33	1.12		mg/Kg		84	61 - 110
1,2-Dichlorobenzene	1.33	1.13		mg/Kg		85	62 - 110
2-Methylphenol	1.33	1.22		mg/Kg		91	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.13		mg/Kg		85	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.11		mg/Kg		84	56 - 118
Hexachloroethane	1.33	1.11		mg/Kg		83	60 - 114
2-Chlorophenol	1.33	1.29		mg/Kg		96	64 - 110
Nitrobenzene	1.33	1.14		mg/Kg		86	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.14		mg/Kg		85	60 - 112
1,2,4-Trichlorobenzene	1.33	1.15		mg/Kg		86	66 - 117
Isophorone	1.33	1.12		mg/Kg		84	55 - 110
2,4-Dimethylphenol	1.33	1.11		mg/Kg		83	60 - 110
Hexachlorobutadiene	1.33	1.18		mg/Kg		88	56 - 120
Naphthalene	1.33	1.16		mg/Kg		87	63 - 110
2,4-Dichlorophenol	1.33	1.19		mg/Kg		89	58 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

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

Lab Sample ID: LCS 500-644133/2-A
Matrix: Solid
Analysis Batch: 644209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644133

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	1.09		mg/Kg		82	30 - 150
2,4,6-Trichlorophenol	1.33	1.06		mg/Kg		79	57 - 120
2,4,5-Trichlorophenol	1.33	1.16		mg/Kg		87	50 - 120
Hexachlorocyclopentadiene	1.33	0.284	J	mg/Kg		21	10 - 133
2-Methylnaphthalene	1.33	1.25		mg/Kg		94	69 - 112
2-Nitroaniline	1.33	1.23		mg/Kg		92	57 - 124
2-Chloronaphthalene	1.33	1.20		mg/Kg		90	69 - 114
4-Chloro-3-methylphenol	1.33	1.20		mg/Kg		90	65 - 122
2,6-Dinitrotoluene	1.33	1.23		mg/Kg		92	70 - 123
2-Nitrophenol	1.33	1.22		mg/Kg		92	60 - 120
3-Nitroaniline	1.33	1.02		mg/Kg		77	40 - 122
Dimethyl phthalate	1.33	1.18		mg/Kg		89	69 - 116
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		13	10 - 100
Acenaphthylene	1.33	1.28		mg/Kg		96	68 - 120
2,4-Dinitrotoluene	1.33	1.22		mg/Kg		92	69 - 124
Acenaphthene	1.33	1.18		mg/Kg		89	65 - 124
Dibenzofuran	1.33	1.24		mg/Kg		93	66 - 115
4-Nitrophenol	2.67	2.09		mg/Kg		78	30 - 122
Fluorene	1.33	1.27		mg/Kg		95	62 - 120
4-Nitroaniline	1.33	1.27		mg/Kg		95	60 - 160
4-Bromophenyl phenyl ether	1.33	1.18		mg/Kg		88	68 - 118
Hexachlorobenzene	1.33	1.22		mg/Kg		91	63 - 124
Diethyl phthalate	1.33	1.21		mg/Kg		91	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.26		mg/Kg		95	62 - 119
Pentachlorophenol	2.67	0.685		mg/Kg		26	13 - 112
N-Nitrosodiphenylamine	1.33	1.22		mg/Kg		92	65 - 112
4,6-Dinitro-2-methylphenol	2.67	0.732		mg/Kg		27	10 - 110
Phenanthrene	1.33	1.21		mg/Kg		90	62 - 120
Anthracene	1.33	1.25		mg/Kg		94	70 - 114
Carbazole	1.33	1.55		mg/Kg		116	65 - 142
Di-n-butyl phthalate	1.33	1.28		mg/Kg		96	65 - 120
Fluoranthene	1.33	1.31		mg/Kg		98	62 - 120
Pyrene	1.33	1.22		mg/Kg		91	61 - 128
Butyl benzyl phthalate	1.33	1.22		mg/Kg		92	71 - 129
Benzo[a]anthracene	1.33	1.17		mg/Kg		88	67 - 122
Chrysene	1.33	1.20		mg/Kg		90	63 - 120
3,3'-Dichlorobenzidine	1.33	1.02		mg/Kg		76	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.33		mg/Kg		99	72 - 131
Di-n-octyl phthalate	1.33	1.28		mg/Kg		96	68 - 134
Benzo[b]fluoranthene	1.33	1.27		mg/Kg		95	69 - 129
Benzo[k]fluoranthene	1.33	1.35		mg/Kg		102	68 - 127
Benzo[a]pyrene	1.33	1.36		mg/Kg		102	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.45		mg/Kg		108	68 - 130
Dibenz(a,h)anthracene	1.33	1.29		mg/Kg		97	64 - 131
Benzo[g,h,i]perylene	1.33	1.37		mg/Kg		103	72 - 131
3 & 4 Methylphenol	1.33	1.19		mg/Kg		89	57 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

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

Lab Sample ID: LCS 500-644133/2-A
Matrix: Solid
Analysis Batch: 644209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644133

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	95		31 - 166
Phenol-d5	103		30 - 153
Nitrobenzene-d5 (Surr)	81		37 - 147
2-Fluorobiphenyl (Surr)	101		43 - 145
2,4,6-Tribromophenol	77		31 - 143
Terphenyl-d14 (Surr)	97		42 - 157

Lab Sample ID: 500-212335-1 MS
Matrix: Solid
Analysis Batch: 644215

Client Sample ID: 223V2-01-B08 (0-4)
Prep Type: Total/NA
Prep Batch: 644133

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Phenol	<0.19		1.53	1.25		mg/Kg	⊛	82	56 - 122
Bis(2-chloroethyl)ether	<0.19		1.53	1.11		mg/Kg	⊛	72	55 - 111
1,3-Dichlorobenzene	<0.19		1.53	1.11		mg/Kg	⊛	72	60 - 110
1,4-Dichlorobenzene	<0.19		1.53	1.10		mg/Kg	⊛	72	61 - 110
1,2-Dichlorobenzene	<0.19		1.53	1.13		mg/Kg	⊛	74	62 - 110
2-Methylphenol	<0.19		1.53	1.76		mg/Kg	⊛	115	60 - 120
2,2'-oxybis[1-chloropropane]	<0.19		1.53	0.929		mg/Kg	⊛	61	40 - 124
N-Nitrosodi-n-propylamine	<0.078		1.53	1.03		mg/Kg	⊛	67	56 - 118
Hexachloroethane	<0.19	F1	1.53	0.715	F1	mg/Kg	⊛	47	60 - 114
2-Chlorophenol	<0.19		1.53	1.16		mg/Kg	⊛	75	64 - 110
Nitrobenzene	<0.038		1.53	1.15		mg/Kg	⊛	75	60 - 116
Bis(2-chloroethoxy)methane	<0.19		1.53	1.13		mg/Kg	⊛	74	60 - 112
1,2,4-Trichlorobenzene	<0.19		1.53	1.31		mg/Kg	⊛	85	66 - 117
Isophorone	<0.19		1.53	1.17		mg/Kg	⊛	76	55 - 110
2,4-Dimethylphenol	<0.38		1.53	1.27		mg/Kg	⊛	83	60 - 110
Hexachlorobutadiene	<0.19		1.53	1.58		mg/Kg	⊛	103	56 - 120
Naphthalene	0.0096	J	1.53	1.23		mg/Kg	⊛	79	63 - 110
2,4-Dichlorophenol	<0.38		1.53	1.33		mg/Kg	⊛	87	58 - 120
4-Chloroaniline	<0.78		1.53	0.700	J	mg/Kg	⊛	46	30 - 150
2,4,6-Trichlorophenol	<0.38	F1	1.53	1.74		mg/Kg	⊛	114	57 - 120
2,4,5-Trichlorophenol	<0.38	F1	1.53	1.81		mg/Kg	⊛	118	50 - 120
Hexachlorocyclopentadiene	<0.78	F1	1.53	<0.77	F1	mg/Kg	⊛	0	10 - 133
2-Methylnaphthalene	0.016	J	1.53	1.31		mg/Kg	⊛	85	69 - 112
2-Nitroaniline	<0.19		1.53	1.12		mg/Kg	⊛	73	57 - 124
2-Chloronaphthalene	<0.19		1.53	1.25		mg/Kg	⊛	82	69 - 114
4-Chloro-3-methylphenol	<0.38		1.53	1.27		mg/Kg	⊛	83	65 - 122
2,6-Dinitrotoluene	<0.19		1.53	1.19		mg/Kg	⊛	78	70 - 123
2-Nitrophenol	<0.38		1.53	1.15		mg/Kg	⊛	75	60 - 120
3-Nitroaniline	<0.38		1.53	1.12		mg/Kg	⊛	73	40 - 122
Dimethyl phthalate	<0.19		1.53	1.34		mg/Kg	⊛	88	69 - 116
2,4-Dinitrophenol	<0.78	F1	3.06	<0.77	F1	mg/Kg	⊛	0	10 - 100
Acenaphthylene	0.0066	J	1.53	1.23		mg/Kg	⊛	80	68 - 120
2,4-Dinitrotoluene	<0.19		1.53	1.15		mg/Kg	⊛	75	69 - 124
Acenaphthene	<0.038		1.53	1.25		mg/Kg	⊛	81	65 - 124
Dibenzofuran	<0.19		1.53	1.38		mg/Kg	⊛	90	66 - 115
4-Nitrophenol	<0.78		3.06	2.86		mg/Kg	⊛	93	30 - 122

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

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

Lab Sample ID: 500-212335-1 MS

Matrix: Solid

Analysis Batch: 644215

Client Sample ID: 223V2-01-B08 (0-4)

Prep Type: Total/NA

Prep Batch: 644133

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluorene	0.010	J	1.53	1.27		mg/Kg	☼	82	62 - 120
4-Nitroaniline	<0.38		1.53	1.07		mg/Kg	☼	70	60 - 160
4-Bromophenyl phenyl ether	<0.19		1.53	1.56		mg/Kg	☼	102	68 - 118
Hexachlorobenzene	<0.078		1.53	1.55		mg/Kg	☼	102	63 - 124
Diethyl phthalate	<0.19		1.53	1.31		mg/Kg	☼	86	58 - 120
4-Chlorophenyl phenyl ether	<0.19		1.53	1.60		mg/Kg	☼	105	62 - 119
Pentachlorophenol	<0.78		3.06	3.26		mg/Kg	☼	106	13 - 112
N-Nitrosodiphenylamine	<0.19		1.53	1.24		mg/Kg	☼	81	65 - 112
4,6-Dinitro-2-methylphenol	<0.78	F1	3.06	<0.77	F1	mg/Kg	☼	0	10 - 110
Phenanthrene	0.082		1.53	1.29		mg/Kg	☼	79	62 - 120
Anthracene	0.026	J	1.53	1.27		mg/Kg	☼	81	70 - 114
Carbazole	<0.19		1.53	1.33		mg/Kg	☼	87	65 - 142
Di-n-butyl phthalate	<0.19		1.53	1.15		mg/Kg	☼	75	65 - 120
Fluoranthene	0.076		1.53	1.28		mg/Kg	☼	79	62 - 120
Pyrene	0.22		1.53	1.87		mg/Kg	☼	108	61 - 128
Butyl benzyl phthalate	<0.19		1.53	1.29		mg/Kg	☼	84	71 - 129
Benzo[a]anthracene	0.058		1.53	1.30		mg/Kg	☼	81	67 - 122
Chrysene	0.14		1.53	1.32		mg/Kg	☼	77	63 - 120
3,3'-Dichlorobenzidine	<0.19	F2	1.53	0.693		mg/Kg	☼	45	35 - 128
Bis(2-ethylhexyl) phthalate	<0.19		1.53	1.20		mg/Kg	☼	79	72 - 131
Di-n-octyl phthalate	<0.19	F1	1.53	0.694	F1	mg/Kg	☼	45	68 - 134
Benzo[b]fluoranthene	0.21	*3	1.53	1.57	*3	mg/Kg	☼	89	69 - 129
Benzo[k]fluoranthene	<0.038	*3	1.53	1.72	*3	mg/Kg	☼	112	68 - 127
Benzo[a]pyrene	0.34	*3	1.53	1.60	*3	mg/Kg	☼	82	65 - 133
Indeno[1,2,3-cd]pyrene	0.15	*3 F1	1.53	0.856	F1 *3	mg/Kg	☼	46	68 - 130
Dibenz(a,h)anthracene	0.098	*3 F1	1.53	0.860	F1 *3	mg/Kg	☼	50	64 - 131
Benzo[g,h,i]perylene	0.56	*3 F1	1.53	0.794	F1 *3	mg/Kg	☼	15	72 - 131
3 & 4 Methylphenol	<0.19		1.53	1.21		mg/Kg	☼	79	57 - 120

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2-Fluorophenol	81		31 - 166
Phenol-d5	81		30 - 153
Nitrobenzene-d5 (Surr)	79		37 - 147
2-Fluorobiphenyl (Surr)	92		43 - 145
2,4,6-Tribromophenol	108		31 - 143
Terphenyl-d14 (Surr)	128		42 - 157

Lab Sample ID: 500-212335-1 MSD

Matrix: Solid

Analysis Batch: 644215

Client Sample ID: 223V2-01-B08 (0-4)

Prep Type: Total/NA

Prep Batch: 644133

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol	<0.19		1.56	1.39		mg/Kg	☼	89	56 - 122	10	30
Bis(2-chloroethyl)ether	<0.19		1.56	1.32		mg/Kg	☼	85	55 - 111	17	30
1,3-Dichlorobenzene	<0.19		1.56	1.29		mg/Kg	☼	83	60 - 110	15	30
1,4-Dichlorobenzene	<0.19		1.56	1.28		mg/Kg	☼	82	61 - 110	15	30
1,2-Dichlorobenzene	<0.19		1.56	1.29		mg/Kg	☼	83	62 - 110	14	30
2-Methylphenol	<0.19		1.56	1.69		mg/Kg	☼	108	60 - 120	4	30

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

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

Lab Sample ID: 500-212335-1 MSD

Matrix: Solid

Analysis Batch: 644215

Client Sample ID: 223V2-01-B08 (0-4)

Prep Type: Total/NA

Prep Batch: 644133

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD		
2,2'-oxybis[1-chloropropane]	<0.19		1.56	1.04		mg/Kg	☼	67	40 - 124	11	30	
N-Nitrosodi-n-propylamine	<0.078		1.56	1.19		mg/Kg	☼	76	56 - 118	14	30	
Hexachloroethane	<0.19	F1	1.56	0.759	F1	mg/Kg	☼	49	60 - 114	6	30	
2-Chlorophenol	<0.19		1.56	1.32		mg/Kg	☼	85	64 - 110	14	30	
Nitrobenzene	<0.038		1.56	1.30		mg/Kg	☼	84	60 - 116	12	30	
Bis(2-chloroethoxy)methane	<0.19		1.56	1.30		mg/Kg	☼	83	60 - 112	14	30	
1,2,4-Trichlorobenzene	<0.19		1.56	1.50		mg/Kg	☼	97	66 - 117	14	30	
Isophorone	<0.19		1.56	1.34		mg/Kg	☼	86	55 - 110	14	30	
2,4-Dimethylphenol	<0.38		1.56	1.42		mg/Kg	☼	92	60 - 110	12	30	
Hexachlorobutadiene	<0.19		1.56	1.79		mg/Kg	☼	115	56 - 120	12	30	
Naphthalene	0.0096	J	1.56	1.39		mg/Kg	☼	89	63 - 110	13	30	
2,4-Dichlorophenol	<0.38		1.56	1.50		mg/Kg	☼	96	58 - 120	12	30	
4-Chloroaniline	<0.78		1.56	0.865		mg/Kg	☼	56	30 - 150	21	30	
2,4,6-Trichlorophenol	<0.38	F1	1.56	1.89	F1	mg/Kg	☼	122	57 - 120	8	30	
2,4,5-Trichlorophenol	<0.38	F1	1.56	2.00	F1	mg/Kg	☼	129	50 - 120	10	30	
Hexachlorocyclopentadiene	<0.78	F1	1.56	<0.78	F1	mg/Kg	☼	0	10 - 133	NC	30	
2-Methylnaphthalene	0.016	J	1.56	1.49		mg/Kg	☼	95	69 - 112	12	30	
2-Nitroaniline	<0.19		1.56	1.26		mg/Kg	☼	81	57 - 124	12	30	
2-Chloronaphthalene	<0.19		1.56	1.41		mg/Kg	☼	91	69 - 114	12	30	
4-Chloro-3-methylphenol	<0.38		1.56	1.41		mg/Kg	☼	91	65 - 122	11	30	
2,6-Dinitrotoluene	<0.19		1.56	1.33		mg/Kg	☼	85	70 - 123	11	30	
2-Nitrophenol	<0.38		1.56	1.31		mg/Kg	☼	84	60 - 120	13	30	
3-Nitroaniline	<0.38		1.56	1.24		mg/Kg	☼	80	40 - 122	10	30	
Dimethyl phthalate	<0.19		1.56	1.47		mg/Kg	☼	94	69 - 116	9	30	
2,4-Dinitrophenol	<0.78	F1	3.11	<0.78	F1	mg/Kg	☼	0	10 - 100	NC	30	
Acenaphthylene	0.0066	J	1.56	1.39		mg/Kg	☼	89	68 - 120	12	30	
2,4-Dinitrotoluene	<0.19		1.56	1.30		mg/Kg	☼	84	69 - 124	12	30	
Acenaphthene	<0.038		1.56	1.37		mg/Kg	☼	88	65 - 124	9	30	
Dibenzofuran	<0.19		1.56	1.54		mg/Kg	☼	99	66 - 115	11	30	
4-Nitrophenol	<0.78		3.11	3.01		mg/Kg	☼	97	30 - 122	5	30	
Fluorene	0.010	J	1.56	1.42		mg/Kg	☼	91	62 - 120	11	30	
4-Nitroaniline	<0.38		1.56	1.23		mg/Kg	☼	79	60 - 160	14	30	
4-Bromophenyl phenyl ether	<0.19		1.56	1.70		mg/Kg	☼	109	68 - 118	9	30	
Hexachlorobenzene	<0.078		1.56	1.71		mg/Kg	☼	110	63 - 124	10	30	
Diethyl phthalate	<0.19		1.56	1.46		mg/Kg	☼	94	58 - 120	10	30	
4-Chlorophenyl phenyl ether	<0.19		1.56	1.76		mg/Kg	☼	113	62 - 119	9	30	
Pentachlorophenol	<0.78		3.11	3.12		mg/Kg	☼	100	13 - 112	4	30	
N-Nitrosodiphenylamine	<0.19		1.56	1.35		mg/Kg	☼	87	65 - 112	8	30	
4,6-Dinitro-2-methylphenol	<0.78	F1	3.11	<0.78	F1	mg/Kg	☼	0	10 - 110	NC	30	
Phenanthrene	0.082		1.56	1.41		mg/Kg	☼	86	62 - 120	9	30	
Anthracene	0.026	J	1.56	1.38		mg/Kg	☼	87	70 - 114	8	30	
Carbazole	<0.19		1.56	1.49		mg/Kg	☼	96	65 - 142	11	30	
Di-n-butyl phthalate	<0.19		1.56	1.26		mg/Kg	☼	81	65 - 120	9	30	
Fluoranthene	0.076		1.56	1.37		mg/Kg	☼	83	62 - 120	7	30	
Pyrene	0.22		1.56	1.98		mg/Kg	☼	113	61 - 128	6	30	
Butyl benzyl phthalate	<0.19		1.56	1.47		mg/Kg	☼	94	71 - 129	13	30	
Benzo[a]anthracene	0.058		1.56	1.40		mg/Kg	☼	86	67 - 122	8	30	
Chrysene	0.14		1.56	1.42		mg/Kg	☼	83	63 - 120	8	30	
3,3'-Dichlorobenzidine	<0.19	F2	1.56	0.947	F2	mg/Kg	☼	61	35 - 128	31	30	

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

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

Lab Sample ID: 500-212335-1 MSD

Matrix: Solid

Analysis Batch: 644215

Client Sample ID: 223V2-01-B08 (0-4)

Prep Type: Total/NA

Prep Batch: 644133

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Bis(2-ethylhexyl) phthalate	<0.19		1.56	1.38		mg/Kg	☼	88	72 - 131	13	30
Di-n-octyl phthalate	<0.19	F1	1.56	0.785	F1	mg/Kg	☼	50	68 - 134	12	30
Benzo[b]fluoranthene	0.21	*3	1.56	1.70	*3	mg/Kg	☼	96	69 - 129	8	30
Benzo[k]fluoranthene	<0.038	*3	1.56	1.78	*3	mg/Kg	☼	115	68 - 127	4	30
Benzo[a]pyrene	0.34	*3	1.56	1.71	*3	mg/Kg	☼	88	65 - 133	7	30
Indeno[1,2,3-cd]pyrene	0.15	*3 F1	1.56	0.927	F1 *3	mg/Kg	☼	50	68 - 130	8	30
Dibenz(a,h)anthracene	0.098	*3 F1	1.56	0.958	F1 *3	mg/Kg	☼	55	64 - 131	11	30
Benzo[g,h,i]perylene	0.56	*3 F1	1.56	0.818	F1 *3	mg/Kg	☼	17	72 - 131	3	30
3 & 4 Methylphenol	<0.19		1.56	1.41		mg/Kg	☼	91	57 - 120	15	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorophenol	90		31 - 166
Phenol-d5	89		30 - 153
Nitrobenzene-d5 (Surr)	90		37 - 147
2-Fluorobiphenyl (Surr)	103		43 - 145
2,4,6-Tribromophenol	115		31 - 143
Terphenyl-d14 (Surr)	138		42 - 157

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-644281/2-A

Matrix: Solid

Analysis Batch: 644565

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 644281

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Barium	0.500	0.514		mg/L		103		80 - 120
Beryllium	0.0500	0.0475		mg/L		95		80 - 120
Boron	1.00	0.892		mg/L		89		80 - 120
Cadmium	0.0500	0.0503		mg/L		101		80 - 120
Chromium	0.200	0.196		mg/L		98		80 - 120
Cobalt	0.500	0.515		mg/L		103		80 - 120
Iron	1.00	0.926		mg/L		93		80 - 120
Lead	0.100	0.0948		mg/L		95		80 - 120
Manganese	0.500	0.479		mg/L		96		80 - 120
Nickel	0.500	0.493		mg/L		99		80 - 120
Selenium	0.100	0.102		mg/L		102		80 - 120
Silver	0.0500	0.0527		mg/L		105		80 - 120
Zinc	0.500	0.541		mg/L		108		80 - 120

Lab Sample ID: LCS 500-644290/2-A

Matrix: Solid

Analysis Batch: 644873

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 644290

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Manganese	0.500	0.478		mg/L		96		80 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

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

Lab Sample ID: MB 500-644323/1-A
Matrix: Solid
Analysis Batch: 644662

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644323

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		02/25/22 10:35	02/25/22 22:43	1
Arsenic	<1.0		1.0	0.34	mg/Kg		02/25/22 10:35	02/25/22 22:43	1
Barium	<1.0		1.0	0.11	mg/Kg		02/25/22 10:35	02/25/22 22:43	1
Boron	<5.0		5.0	0.47	mg/Kg		02/25/22 10:35	02/25/22 22:43	1
Cadmium	<0.20		0.20	0.036	mg/Kg		02/25/22 10:35	02/25/22 22:43	1
Chromium	1.23		1.0	0.50	mg/Kg		02/25/22 10:35	02/25/22 22:43	1
Cobalt	<0.50		0.50	0.13	mg/Kg		02/25/22 10:35	02/25/22 22:43	1
Copper	0.280	J	1.0	0.28	mg/Kg		02/25/22 10:35	02/25/22 22:43	1
Lead	<0.50		0.50	0.23	mg/Kg		02/25/22 10:35	02/25/22 22:43	1
Nickel	<1.0		1.0	0.29	mg/Kg		02/25/22 10:35	02/25/22 22:43	1
Potassium	<50		50	18	mg/Kg		02/25/22 10:35	02/25/22 22:43	1
Selenium	<1.0		1.0	0.59	mg/Kg		02/25/22 10:35	02/25/22 22:43	1
Silver	<0.50		0.50	0.13	mg/Kg		02/25/22 10:35	02/25/22 22:43	1
Sodium	<100		100	15	mg/Kg		02/25/22 10:35	02/25/22 22:43	1
Thallium	<1.0		1.0	0.50	mg/Kg		02/25/22 10:35	02/25/22 22:43	1
Vanadium	<0.50		0.50	0.12	mg/Kg		02/25/22 10:35	02/25/22 22:43	1
Zinc	<2.0		2.0	0.88	mg/Kg		02/25/22 10:35	02/25/22 22:43	1

Lab Sample ID: MB 500-644323/1-A
Matrix: Solid
Analysis Batch: 644768

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644323

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	<0.40		0.40	0.093	mg/Kg		02/25/22 10:35	02/27/22 15:58	1
Calcium	4.69	J	20	3.4	mg/Kg		02/25/22 10:35	02/27/22 15:58	1
Iron	24.1		20	10	mg/Kg		02/25/22 10:35	02/27/22 15:58	1
Magnesium	<10		10	5.0	mg/Kg		02/25/22 10:35	02/27/22 15:58	1
Manganese	0.177	J	1.0	0.15	mg/Kg		02/25/22 10:35	02/27/22 15:58	1

Lab Sample ID: LCS 500-644323/2-A
Matrix: Solid
Analysis Batch: 644662

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Antimony	50.0	47.8		mg/Kg		96	80 - 120	
Arsenic	10.0	8.57		mg/Kg		86	80 - 120	
Barium	200	205		mg/Kg		103	80 - 120	
Boron	100	85.6		mg/Kg		86	80 - 120	
Cadmium	5.00	4.59		mg/Kg		92	80 - 120	
Chromium	20.0	20.1		mg/Kg		100	80 - 120	
Cobalt	50.0	46.4		mg/Kg		93	80 - 120	
Copper	25.0	24.9		mg/Kg		100	80 - 120	
Lead	10.0	8.95		mg/Kg		90	80 - 120	
Nickel	50.0	46.9		mg/Kg		94	80 - 120	
Potassium	1000	925		mg/Kg		92	80 - 120	
Selenium	10.0	8.07		mg/Kg		81	80 - 120	
Silver	5.00	4.51		mg/Kg		90	80 - 120	
Sodium	1000	949		mg/Kg		95	80 - 120	
Thallium	10.0	8.71		mg/Kg		87	80 - 120	

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

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

Lab Sample ID: LCS 500-644323/2-A
Matrix: Solid
Analysis Batch: 644662

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	50.0	45.8		mg/Kg		92	80 - 120
Zinc	50.0	45.5		mg/Kg		91	80 - 120

Lab Sample ID: LCS 500-644323/2-A
Matrix: Solid
Analysis Batch: 644768

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	5.00	4.51		mg/Kg		90	80 - 120
Calcium	1000	890		mg/Kg		89	80 - 120
Iron	100	102		mg/Kg		102	80 - 120
Magnesium	1000	866		mg/Kg		87	80 - 120
Manganese	50.0	44.2		mg/Kg		88	80 - 120

Lab Sample ID: 500-212335-1 MS
Matrix: Solid
Analysis Batch: 644662

Client Sample ID: 223V2-01-B08 (0-4)
Prep Type: Total/NA
Prep Batch: 644323

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.28	J F1	26.7	6.00	F1	mg/Kg	⊛	21	75 - 125
Arsenic	5.6	F2	5.33	9.75		mg/Kg	⊛	77	75 - 125
Barium	41	F1	107	120	F1 ^+	mg/Kg	⊛	74	75 - 125
Boron	12		53.3	54.6		mg/Kg	⊛	80	75 - 125
Cadmium	0.18		2.67	2.87		mg/Kg	⊛	101	75 - 125
Chromium	11	B F1	10.7	17.6	F1	mg/Kg	⊛	62	75 - 125
Cobalt	6.9		26.7	29.8		mg/Kg	⊛	86	75 - 125
Copper	14	B F1	13.3	22.6	F1	mg/Kg	⊛	63	75 - 125
Lead	23	F2	5.33	18.6	4	mg/Kg	⊛	-84	75 - 125
Nickel	16	F1	26.7	34.4	F1	mg/Kg	⊛	68	75 - 125
Potassium	2200	F1	533	3250	4 ^+	mg/Kg	⊛	202	75 - 125
Selenium	<0.54	F1	5.33	4.01		mg/Kg	⊛	75	75 - 125
Silver	0.17	J	2.67	3.05		mg/Kg	⊛	108	75 - 125
Sodium	1300	F1	533	1440	F1 ^+	mg/Kg	⊛	35	75 - 125
Thallium	0.51	J F1	5.33	4.40	F1	mg/Kg	⊛	73	75 - 125
Vanadium	15	F1	26.7	33.4	F1	mg/Kg	⊛	68	75 - 125
Zinc	60	F1 F2	26.7	57.9	F1	mg/Kg	⊛	-8	75 - 125

Lab Sample ID: 500-212335-1 MS
Matrix: Solid
Analysis Batch: 644768

Client Sample ID: 223V2-01-B08 (0-4)
Prep Type: Total/NA
Prep Batch: 644323

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.47		2.67	2.63		mg/Kg	⊛	81	75 - 125
Manganese	350	B	26.7	376	4	mg/Kg	⊛	88	75 - 125

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

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

Lab Sample ID: 500-212335-1 MS
Matrix: Solid
Analysis Batch: 644768

Client Sample ID: 223V2-01-B08 (0-4)
Prep Type: Total/NA
Prep Batch: 644323
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Calcium	92000	B F2	533	194000	E 4	mg/Kg	☼	18975	75 - 125
Iron	16000	B F2	53.3	13500	4	mg/Kg	☼	-4796	75 - 125
Magnesium	53000	F2	533	118000	4	mg/Kg	☼	12194	75 - 125

Lab Sample ID: 500-212335-1 MSD
Matrix: Solid
Analysis Batch: 644662

Client Sample ID: 223V2-01-B08 (0-4)
Prep Type: Total/NA
Prep Batch: 644323
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	0.28	J F1	27.4	5.82	F1	mg/Kg	☼	20	75 - 125	3	20
Arsenic	5.6	F2	5.47	12.4	F2	mg/Kg	☼	123	75 - 125	24	20
Barium	41	F1	109	140	^+	mg/Kg	☼	91	75 - 125	16	20
Boron	12		54.7	56.5		mg/Kg	☼	82	75 - 125	3	20
Cadmium	0.18		2.74	2.68		mg/Kg	☼	91	75 - 125	7	20
Chromium	11	B F1	10.9	19.6		mg/Kg	☼	79	75 - 125	11	20
Cobalt	6.9		27.4	32.4		mg/Kg	☼	93	75 - 125	9	20
Copper	14	B F1	13.7	25.9		mg/Kg	☼	86	75 - 125	14	20
Lead	23	F2	5.47	27.6	4 F2	mg/Kg	☼	82	75 - 125	39	20
Nickel	16	F1	27.4	39.6		mg/Kg	☼	85	75 - 125	14	20
Potassium	2200	F1	547	3680	F1 ^+	mg/Kg	☼	275	75 - 125	12	20
Selenium	<0.54	F1	5.47	3.86	F1	mg/Kg	☼	71	75 - 125	4	20
Silver	0.17	J	2.74	2.78		mg/Kg	☼	95	75 - 125	9	20
Sodium	1300	F1	547	1730	^+	mg/Kg	☼	88	75 - 125	19	20
Thallium	0.51	J F1	5.47	4.58	F1	mg/Kg	☼	74	75 - 125	4	20
Vanadium	15	F1	27.4	39.0		mg/Kg	☼	86	75 - 125	15	20
Zinc	60	F1 F2	27.4	78.5	F1 F2	mg/Kg	☼	67	75 - 125	30	20

Lab Sample ID: 500-212335-1 MSD
Matrix: Solid
Analysis Batch: 644768

Client Sample ID: 223V2-01-B08 (0-4)
Prep Type: Total/NA
Prep Batch: 644323
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Beryllium	0.47		2.74	2.82		mg/Kg	☼	86	75 - 125	7	20
Manganese	350	B	27.4	365	4	mg/Kg	☼	43	75 - 125	3	20

Lab Sample ID: 500-212335-1 MSD
Matrix: Solid
Analysis Batch: 644768

Client Sample ID: 223V2-01-B08 (0-4)
Prep Type: Total/NA
Prep Batch: 644323
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Calcium	92000	B F2	547	107000	4 F2	mg/Kg	☼	2691	75 - 125	58	20
Iron	16000	B F2	54.7	17300	4 F2	mg/Kg	☼	2351	75 - 125	25	20
Magnesium	53000	F2	547	62800	4 F2	mg/Kg	☼	1775	75 - 125	61	20

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

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

Lab Sample ID: 500-212335-1 DU
Matrix: Solid
Analysis Batch: 644662

Client Sample ID: 223V2-01-B08 (0-4)
Prep Type: Total/NA
Prep Batch: 644323

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	0.28	J F1	<1.1		mg/Kg	⊛	NC	20
Arsenic	5.6	F2	5.30		mg/Kg	⊛	6	20
Barium	41	F1	55.8	F3 ^+	mg/Kg	⊛	31	20
Boron	12		6.73	F3	mg/Kg	⊛	54	20
Cadmium	0.18		0.114	F5	mg/Kg	⊛	43	20
Chromium	11	B F1	12.5		mg/Kg	⊛	13	20
Cobalt	6.9		7.43		mg/Kg	⊛	7	20
Copper	14	B F1	8.61	F3	mg/Kg	⊛	49	20
Lead	23	F2	15.1	F3	mg/Kg	⊛	42	20
Nickel	16	F1	15.9		mg/Kg	⊛	2	20
Potassium	2200	F1	1670	F3 ^+	mg/Kg	⊛	26	20
Selenium	<0.54	F1	<0.54		mg/Kg	⊛	NC	20
Silver	0.17	J	0.273	F5	mg/Kg	⊛	44	20
Sodium	1300	F1	1370	^+	mg/Kg	⊛	9	20
Thallium	0.51	J F1	0.555		mg/Kg	⊛	9	20
Vanadium	15	F1	17.4		mg/Kg	⊛	13	20
Zinc	60	F1 F2	47.6	F3	mg/Kg	⊛	23	20

Lab Sample ID: 500-212335-1 DU
Matrix: Solid
Analysis Batch: 644768

Client Sample ID: 223V2-01-B08 (0-4)
Prep Type: Total/NA
Prep Batch: 644323

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Beryllium	0.47		0.589	F5	mg/Kg	⊛	21	20
Manganese	350	B	199	F3	mg/Kg	⊛	56	20

Lab Sample ID: 500-212335-1 DU
Matrix: Solid
Analysis Batch: 644768

Client Sample ID: 223V2-01-B08 (0-4)
Prep Type: Total/NA
Prep Batch: 644323

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Calcium	92000	B F2	43100	F3	mg/Kg	⊛	73	20
Iron	16000	B F2	20000	F3	mg/Kg	⊛	22	20
Magnesium	53000	F2	26700	F3	mg/Kg	⊛	66	20

Lab Sample ID: MRL 500-644517/16
Matrix: Solid
Analysis Batch: 644517

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.00400	<0.0040		mg/L		96	70 - 130
Boron	0.0500	0.0529		mg/L		106	70 - 130
Cadmium	0.00200	0.00217		mg/L		108	70 - 130
Chromium	0.0100	<0.010		mg/L		98	70 - 130
Cobalt	0.00500	<0.010		mg/L		98	70 - 130
Iron	0.200	0.217		mg/L		109	70 - 130
Lead	0.00500	0.00509		mg/L		102	70 - 130
Manganese	0.0100	0.0112		mg/L		112	70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

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

Lab Sample ID: MRL 500-644517/16
Matrix: Solid
Analysis Batch: 644517

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.00500	<0.010		mg/L		95	70 - 130

Lab Sample ID: LB 500-643913/2-C
Matrix: Solid
Analysis Batch: 644517

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644281

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		02/24/22 08:20	02/24/22 22:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/24/22 08:20	02/24/22 22:11	1
Boron	<0.50		0.50	0.050	mg/L		02/24/22 08:20	02/24/22 22:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/24/22 08:20	02/24/22 22:11	1
Chromium	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:11	1
Cobalt	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:11	1
Iron	<0.40		0.40	0.20	mg/L		02/24/22 08:20	02/24/22 22:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/24/22 08:20	02/24/22 22:11	1
Manganese	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:11	1
Nickel	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:11	1
Selenium	<0.050		0.050	0.020	mg/L		02/24/22 08:20	02/24/22 22:11	1
Silver	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 22:11	1
Zinc	<0.50		0.50	0.020	mg/L		02/24/22 08:20	02/24/22 22:11	1

Lab Sample ID: LB2 500-643914/2-C
Matrix: Solid
Analysis Batch: 644517

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644281

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		02/24/22 08:20	02/24/22 23:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/24/22 08:20	02/24/22 23:42	1
Boron	<0.50		0.50	0.050	mg/L		02/24/22 08:20	02/24/22 23:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/24/22 08:20	02/24/22 23:42	1
Chromium	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 23:42	1
Cobalt	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 23:42	1
Iron	<0.40		0.40	0.20	mg/L		02/24/22 08:20	02/24/22 23:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/24/22 08:20	02/24/22 23:42	1
Manganese	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 23:42	1
Nickel	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 23:42	1
Selenium	<0.050		0.050	0.020	mg/L		02/24/22 08:20	02/24/22 23:42	1
Silver	<0.025		0.025	0.010	mg/L		02/24/22 08:20	02/24/22 23:42	1
Zinc	<0.50		0.50	0.020	mg/L		02/24/22 08:20	02/24/22 23:42	1

Lab Sample ID: 500-212335-2 MS
Matrix: Solid
Analysis Batch: 644517

Client Sample ID: 223V2-01-B07 (0-4)
Prep Type: TCLP
Prep Batch: 644281

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.42	J F1	0.500	0.415	J F1	mg/L		-0.01	75 - 125
Beryllium	<0.0040	F1	0.0500	<0.0040	F1	mg/L		0	75 - 125
Boron	<0.50	F1	1.00	<0.50	F1	mg/L		0	75 - 125
Cadmium	<0.0050	F1	0.0500	<0.0050	F1	mg/L		0	75 - 125

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

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

Lab Sample ID: 500-212335-2 MS
Matrix: Solid
Analysis Batch: 644517

Client Sample ID: 223V2-01-B07 (0-4)
Prep Type: TCLP
Prep Batch: 644281

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				
Chromium	<0.025	F1	0.200	<0.025	F1	mg/L		0	75 - 125
Cobalt	<0.025	F1	0.500	<0.025	F1	mg/L		0	75 - 125
Iron	<0.40	F1	1.00	<0.40	F1	mg/L		0	75 - 125
Lead	<0.0075	F1	0.100	<0.0075	F1	mg/L		0	75 - 125
Manganese	0.11	F1	0.500	0.114	F1	mg/L		-0.2	75 - 125
Nickel	<0.025	F1	0.500	<0.025	F1	mg/L		0	75 - 125
Selenium	<0.050	F1	0.100	<0.050	F1	mg/L		0	75 - 125
Silver	<0.025	F1	0.0500	<0.025	F1	mg/L		0	75 - 125
Zinc	<0.50	F1	0.500	<0.50	F1	mg/L		0	75 - 125

Lab Sample ID: 500-212335-2 DU
Matrix: Solid
Analysis Batch: 644517

Client Sample ID: 223V2-01-B07 (0-4)
Prep Type: TCLP
Prep Batch: 644281

Analyte	Sample	Sample	DU		Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Barium	0.42	J F1	0.412	J	mg/L		0.8	20	
Beryllium	<0.0040	F1	<0.0040		mg/L		NC	20	
Boron	<0.50	F1	<0.50		mg/L		NC	20	
Cadmium	<0.0050	F1	<0.0050		mg/L		NC	20	
Chromium	<0.025	F1	<0.025		mg/L		NC	20	
Cobalt	<0.025	F1	<0.025		mg/L		NC	20	
Iron	<0.40	F1	<0.40		mg/L		NC	20	
Lead	<0.0075	F1	<0.0075		mg/L		NC	20	
Manganese	0.11	F1	0.114		mg/L		0.8	20	
Nickel	<0.025	F1	<0.025		mg/L		NC	20	
Selenium	<0.050	F1	<0.050		mg/L		NC	20	
Silver	<0.025	F1	<0.025		mg/L		NC	20	
Zinc	<0.50	F1	<0.50		mg/L		NC	20	

Lab Sample ID: LB 500-643921/1-B
Matrix: Solid
Analysis Batch: 644873

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 644290

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Manganese	<0.025		0.025	0.010	mg/L		02/24/22 08:23	02/28/22 13:02	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-644281/2-A
Matrix: Solid
Analysis Batch: 644561

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644281

Analyte	Spike	LCS		Unit	D	%Rec	%Rec.
		Added	Result				
Antimony	0.500	0.516		mg/L		103	80 - 120
Thallium	0.100	0.105		mg/L		105	80 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

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

Lab Sample ID: LB 500-643913/2-C
Matrix: Solid
Analysis Batch: 644485

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644281

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		02/24/22 08:20	02/24/22 18:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/24/22 08:20	02/24/22 18:19	1

Lab Sample ID: LB2 500-643914/2-C
Matrix: Solid
Analysis Batch: 644485

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644281

Analyte	LB2 LB2		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		02/24/22 08:20	02/24/22 19:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/24/22 08:20	02/24/22 19:14	1

Lab Sample ID: 500-212335-2 DU
Matrix: Solid
Analysis Batch: 644485

Client Sample ID: 223V2-01-B07 (0-4)
Prep Type: TCLP
Prep Batch: 644281

Analyte	Sample Sample		DU DU		Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Antimony	<0.0060	F1	<0.0060		mg/L			NC	20
Thallium	<0.0020	F1	<0.0020		mg/L			NC	20

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-644075/13-A
Matrix: Solid
Analysis Batch: 644370

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644075

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020	^1+	0.00020	0.00020	mg/L		02/23/22 14:10	02/24/22 11:35	1

Lab Sample ID: LCS 500-644075/14-A
Matrix: Solid
Analysis Batch: 644370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644075

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: LCS 500-644075/35-A
Matrix: Solid
Analysis Batch: 644370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644075

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: LB 500-643913/2-B
Matrix: Solid
Analysis Batch: 644370

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644075

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020	^1+	0.00020	0.00020	mg/L		02/23/22 14:10	02/24/22 11:32	1

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LB2 500-643914/2-B
Matrix: Solid
Analysis Batch: 644370

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644075

Analyte	LB2	LB2	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020	^1+	0.00020	0.00020	mg/L		02/23/22 14:10	02/24/22 12:38	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-644343/12-A
Matrix: Solid
Analysis Batch: 644606

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644343

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.017		0.017	0.0056	mg/Kg		02/24/22 18:30	02/25/22 17:40	1

Lab Sample ID: LCS 500-644343/13-A
Matrix: Solid
Analysis Batch: 644606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644343

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Mercury	0.167	0.165		mg/Kg		99	80 - 120

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B08 (0-4)

Lab Sample ID: 500-212335-1

Date Collected: 02/14/22 14:15

Matrix: Solid

Date Received: 02/15/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643921	02/22/22 15:04	EA	TAL CHI
SPLP East	Prep	3010A			644290	02/24/22 08:23	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644873	02/28/22 13:16	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6010B		1	644517	02/24/22 22:18	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6020A		1	644485	02/24/22 18:23	FXG	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	7470A			644075	02/23/22 14:10		TAL CHI
TCLP	Analysis	7470A		1	644370	02/24/22 11:40	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643430	02/18/22 19:30	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643097	02/18/22 08:14	LWN	TAL CHI

Client Sample ID: 223V2-01-B08 (0-4)

Lab Sample ID: 500-212335-1

Date Collected: 02/14/22 14:15

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644158	02/15/22 17:35	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644252	02/24/22 14:52	JDD	TAL CHI
Total/NA	Prep	3541			644133	02/23/22 16:17	JMP	TAL CHI
Total/NA	Analysis	8270D		1	644215	02/24/22 14:29	SS	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644662	02/25/22 22:50	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644768	02/27/22 16:04	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		5	644768	02/27/22 16:20	JJB	TAL CHI
Total/NA	Prep	7471B			644343	02/24/22 18:30		TAL CHI
Total/NA	Analysis	7471B		1	644606	02/25/22 18:11	MJG	TAL CHI

Client Sample ID: 223V2-01-B07 (0-4)

Lab Sample ID: 500-212335-2

Date Collected: 02/14/22 14:34

Matrix: Solid

Date Received: 02/15/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6010B		1	644517	02/24/22 22:21	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6020A		1	644485	02/24/22 18:25	FXG	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B07 (0-4)

Lab Sample ID: 500-212335-2

Date Collected: 02/14/22 14:34

Matrix: Solid

Date Received: 02/15/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	7470A			644075	02/23/22 14:10		TAL CHI
TCLP	Analysis	7470A		1	644370	02/24/22 11:42	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643430	02/18/22 19:33	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643097	02/18/22 08:14	LWN	TAL CHI

Client Sample ID: 223V2-01-B07 (0-4)

Lab Sample ID: 500-212335-2

Date Collected: 02/14/22 14:34

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644158	02/15/22 17:35	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644252	02/24/22 15:18	JDD	TAL CHI
Total/NA	Prep	3541			644133	02/23/22 16:17	JMP	TAL CHI
Total/NA	Analysis	8270D		1	644215	02/24/22 15:35	SS	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644662	02/25/22 23:15	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644768	02/27/22 16:43	JJB	TAL CHI
Total/NA	Prep	7471B			644343	02/24/22 18:30		TAL CHI
Total/NA	Analysis	7471B		1	644606	02/25/22 18:13	MJG	TAL CHI

Client Sample ID: 223V2-01-B07 (4-7.2)

Lab Sample ID: 500-212335-3

Date Collected: 02/14/22 14:40

Matrix: Solid

Date Received: 02/15/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643921	02/22/22 15:04	EA	TAL CHI
SPLP East	Prep	3010A			644290	02/24/22 08:23	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644873	02/28/22 13:19	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6010B		1	644517	02/24/22 22:42	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6020A		1	644485	02/24/22 18:39	FXG	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	7470A			644075	02/23/22 14:10		TAL CHI
TCLP	Analysis	7470A		1	644370	02/24/22 11:45	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643430	02/18/22 19:35	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643097	02/18/22 08:14	LWN	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B07 (4-7.2)

Lab Sample ID: 500-212335-3

Date Collected: 02/14/22 14:40

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644158	02/15/22 17:35	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644252	02/24/22 15:44	JDD	TAL CHI
Total/NA	Prep	3541			644133	02/23/22 16:17	JMP	TAL CHI
Total/NA	Analysis	8270D		1	644215	02/24/22 15:56	SS	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644662	02/25/22 23:18	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644768	02/27/22 16:46	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		5	644768	02/27/22 16:49	JJB	TAL CHI
Total/NA	Prep	7471B			644343	02/24/22 18:30		TAL CHI
Total/NA	Analysis	7471B		1	644606	02/25/22 18:19	MJG	TAL CHI

Client Sample ID: 223V2-01-B06 (0-5.7)

Lab Sample ID: 500-212335-4

Date Collected: 02/14/22 15:00

Matrix: Solid

Date Received: 02/15/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643921	02/22/22 15:04	EA	TAL CHI
SPLP East	Prep	3010A			644290	02/24/22 08:23	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644873	02/28/22 13:22	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6010B		1	644517	02/24/22 22:46	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6020A		1	644485	02/24/22 18:41	FXG	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	7470A			644075	02/23/22 14:10		TAL CHI
TCLP	Analysis	7470A		1	644370	02/24/22 11:47	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643430	02/18/22 19:38	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643097	02/18/22 08:14	LWN	TAL CHI

Client Sample ID: 223V2-01-B06 (0-5.7)

Lab Sample ID: 500-212335-4

Date Collected: 02/14/22 15:00

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644158	02/15/22 17:35	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644252	02/24/22 16:10	JDD	TAL CHI
Total/NA	Prep	3541			644133	02/23/22 16:17	JMP	TAL CHI
Total/NA	Analysis	8270D		1	644215	02/24/22 16:18	SS	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644662	02/25/22 23:21	JJB	TAL CHI

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B06 (0-5.7)

Lab Sample ID: 500-212335-4

Date Collected: 02/14/22 15:00

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644768	02/27/22 16:52	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		5	644768	02/27/22 16:56	JJB	TAL CHI
Total/NA	Prep	7471B			644343	02/24/22 18:30		TAL CHI
Total/NA	Analysis	7471B		1	644606	02/25/22 18:21	MJG	TAL CHI

Client Sample ID: 223V2-01-B09 (0-3.4)

Lab Sample ID: 500-212335-5

Date Collected: 02/14/22 15:18

Matrix: Solid

Date Received: 02/15/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643921	02/22/22 15:04	EA	TAL CHI
SPLP East	Prep	3010A			644290	02/24/22 08:23	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644873	02/28/22 13:25	JJB	TAL CHI
TCLP	Leach	1311			643914	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6010B		1	644657	02/25/22 16:16	JJB	TAL CHI
TCLP	Leach	1311			643914	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6010B		1	644517	02/24/22 23:48	JJB	TAL CHI
TCLP	Leach	1311			643914	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6020A		1	644485	02/24/22 19:18	FXG	TAL CHI
TCLP	Leach	1311			643914	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	7470A			644075	02/23/22 14:10		TAL CHI
TCLP	Analysis	7470A		1	644370	02/24/22 12:45	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643430	02/18/22 19:40	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643153	02/18/22 09:16	LWN	TAL CHI

Client Sample ID: 223V2-01-B09 (0-3.4)

Lab Sample ID: 500-212335-5

Date Collected: 02/14/22 15:18

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644158	02/15/22 17:35	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644252	02/24/22 16:36	JDD	TAL CHI
Total/NA	Prep	3541			644133	02/23/22 16:17	JMP	TAL CHI
Total/NA	Analysis	8270D		1	644215	02/24/22 16:40	SS	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644662	02/25/22 23:25	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644768	02/27/22 16:59	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		5	644768	02/27/22 17:09	JJB	TAL CHI

Eurolins Chicago

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Client Sample ID: 223V2-01-B09 (0-3.4)

Lab Sample ID: 500-212335-5

Date Collected: 02/14/22 15:18

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			644343	02/24/22 18:30		TAL CHI
Total/NA	Analysis	7471B		1	644606	02/25/22 18:23	MJG	TAL CHI

Client Sample ID: 223V2-01-B05 (0-5.8)

Lab Sample ID: 500-212335-6

Date Collected: 02/14/22 15:40

Matrix: Solid

Date Received: 02/15/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			643921	02/22/22 15:04	EA	TAL CHI
SPLP East	Prep	3010A			644290	02/24/22 08:23	BDE	TAL CHI
SPLP East	Analysis	6010B		1	644873	02/28/22 13:28	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6010B		1	644517	02/24/22 22:49	JJB	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	3010A			644281	02/24/22 08:20	BDE	TAL CHI
TCLP	Analysis	6020A		1	644485	02/24/22 18:43	FXG	TAL CHI
TCLP	Leach	1311			643913	02/22/22 16:45	EA	TAL CHI
TCLP	Prep	7470A			644075	02/23/22 14:10		TAL CHI
TCLP	Analysis	7470A		1	644370	02/24/22 11:55	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643430	02/18/22 19:43	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643153	02/18/22 09:16	LWN	TAL CHI

Client Sample ID: 223V2-01-B05 (0-5.8)

Lab Sample ID: 500-212335-6

Date Collected: 02/14/22 15:40

Matrix: Solid

Date Received: 02/15/22 12:36

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644158	02/15/22 17:35	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644471	02/25/22 12:32	PMF	TAL CHI
Total/NA	Prep	3541			644133	02/23/22 16:17	JMP	TAL CHI
Total/NA	Analysis	8270D		1	644447	02/25/22 15:29	JSB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644662	02/25/22 23:28	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		1	644768	02/27/22 17:12	JJB	TAL CHI
Total/NA	Prep	3050B			644323	02/25/22 10:35		TAL CHI
Total/NA	Analysis	6010B		5	644768	02/27/22 17:15	JJB	TAL CHI
Total/NA	Prep	7471B			644343	02/24/22 18:30		TAL CHI
Total/NA	Analysis	7471B		1	644606	02/25/22 18:24	MJG	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212335-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

1

2

3

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11

12

13

14

15

Chain of Custody Record

542794




Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact		Project Manager <i>D Tiebout</i>		Site Contact <i>A Hoppel</i>		Date <i>2/14/2022</i>		COC No <i>3</i>		
Company Name <i>WSP</i>		Tel/Email:		Lab Contact <i>R Wright</i>		Carrier		3 of 3 COCs		
Address <i>30 W LaSalle</i>		Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day								
City/State/Zip <i>Chicago IL</i>										
Phone				Filtered Sample (Y/N) Perform MS / MSD (Y/N) <i>pH</i> <i>1 solids</i> <i>VOCs</i> <i>SVOCs</i> <i>Total metals</i> <i>TCLP metals*</i>		Sampler:				
Fax						For Lab Use Only				
Project Name <i>Hot Wd 003</i>						Walk-in Client <input type="checkbox"/>				
Site <i>Jolie*</i>						Lab Sampling <input type="checkbox"/>				
P O #		500-212335 COC		Job / SDG No		<i>500-212335</i>				
Sample Identification:		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes			
<i>1 2233V2-01-B08 (0-4)</i>		<i>2/14/22</i>	<i>1415</i>	<i>C</i>	<i>S</i>	<i>2</i>				
<i>2 2233V2-01-B07 (0-4)</i>		<i>2/14/22</i>	<i>1434</i>	<i>C</i>	<i>S</i>	<i>2</i>				
<i>3 2233V2-01-B07 (4-7.2)</i>		<i>2/14/22</i>	<i>1440</i>	<i>C</i>	<i>S</i>	<i>2</i>				
<i>4 2233V2-01-B06 (0-5.7)</i>		<i>2/14/22</i>	<i>1500</i>	<i>C</i>	<i>S</i>	<i>2</i>				
<i>5 2233V2-01-B09 (0-3.4)</i>		<i>2/14/22</i>	<i>1518</i>	<i>C</i>	<i>S</i>	<i>2</i>				
<i>6 2233V2-01-B05 (0-5.8)</i>		<i>2/14/22</i>	<i>1540</i>	<i>C</i>	<i>S</i>	<i>2</i>				
<i>BM</i>										
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other										
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months					
Special Instructions/QC Requirements & Comments: <i>* SLP analysis based on TCLP results</i>										
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <i>4.2</i> Corr'd		Therm ID No				
Relinquished by <i>Bryan McHenry</i>		Company <i>WSP</i>		Date/Time <i>1615 2/14/22</i>		Received by <i>P. Neal</i>		Company <i>eurofins</i>		
Relinquished by <i>P. Neal</i>		Company <i>eurofins</i>		Date/Time <i>2/15/22 1236</i>		Received by		Company		
Relinquished by		Company		Date/Time		Received in Laboratory by <i>Mike Scott</i>		Company <i>EPDA</i>		
						Date/Time <i>2/15/22 1236</i>				

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-212335-1

Login Number: 212335

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

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

Laboratory Job ID: 500-212441-1
Client Project/Site: IDOT - 196-002-WO003 Joliet

For:
WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602

Attn: Dean Tiebot



Authorized for release by:
3/3/2022 1:58:47 PM

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

LINKS

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

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

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



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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Job ID: 500-212441-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-212441-1

Receipt

The samples were received on 2/16/2022 12:20 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.4° C and 4.5° C.

GC/MS VOA

Method 8260B: Surrogate recovery for the following samples were outside the upper control limit: 2233V2-01-B26 (0-4) (500-212441-1), 2233V2-01-B24 (0-4) (500-212441-3), 2233V2-01-B24 (0-4)D (500-212441-4), 2233V2-01-B23 (0-4) (500-212441-5), 2233V2-01-B10 (0-3) (500-212441-16), 2233V2-01-B04 (0-4) (500-212441-18) and 2233V2-01-B04 (4-7.8) (500-212441-20). This sample did not contain any target analytes above the reporting limit; therefore, re-extraction and/or re-analysis was not performed.

Method 8260B: Internal standard (1,4-Dichlorobenzene-d4) response was outside of acceptance limits for the following sample: 2233V2-01-B26 (0-4) (500-212441-1), 2233V2-01-B24 (0-4) (500-212441-3), 2233V2-01-B24 (0-4)D (500-212441-4), 2233V2-01-B04 (0-4) (500-212441-18) and 2233V2-01-B04 (4-7.8) (500-212441-20). The sample did not have detects of requested analytes using this internal standard. Surrogate 4-Bromofluorobenzene is also being quantitated with this internal standard.

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 644620 recovered outside control limits for Chloromethane. This analyte was biased low in the LCS/LCSD and was not detected in the associated samples. The data have been reported. 2233V2-01-B04 (0-4) (500-212441-18), 2233V2-01-B04 (0-4)D (500-212441-19) and 2233V2-01-B04 (4-7.8) (500-212441-20)

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 644745 recovered outside control limits for Bromomethane. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported. 2233V2-01-B24 (0-4)D (500-212441-4)

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

GC/MS Semi VOA

Method 8270D: The laboratory control sample (LCS) for preparation batch 500-644398 and analytical batch 500-644453 recovered outside control limits for the following analytes: 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 4-Bromophenyl phenyl ether, 4-Chlorophenyl phenyl ether and Hexachlorobutadiene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270D: Perylene-d12 Internal standard (ISTD) response for the following samples was outside of acceptance limits: 2233V2-01-B10 (0-3) (500-212441-16), 2233V2-01-B04 (0-4) (500-212441-18), 2233V2-01-B04 (0-4)D (500-212441-19) and 2233V2-01-B04 (4-7.8) (500-212441-20). Analytes associated to this internal standard were non-detect and/or below the reporting limit; therefore, re-analysis was not performed.

Method 8270D: Perylene-d12 Internal standard (ISTD) response for the following sample and associated MS/MSD was outside of acceptance limits. No further corrective action was required as the matrix effect was confirmed on the parent sample from the subsequent MS/MSD analysis. 2233V2-01-B16 (0-1) (500-212441-12), (500-212441-D-12-D MS) and (500-212441-D-12-E MSD).

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-644772 was outside the method criteria for the following analyte(s): 2,4-Dinitrophenol, 4-Nitrophenol, Hexachlorocyclopentadiene and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Internal standard responses for Perylene-d12 was outside of acceptance limits for the following samples: 2233V2-01-B11 (0-3) (500-212441-14) and 2233V2-01-B11 (3-6.3) (500-212441-15). The samples were run a second time with concurring results. Results with the highest ISTD recovery have been reported.

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

Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Job ID: 500-212441-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

Metals

Method 6010B: The laboratory control sample (LCS) for preparation batch 500-644383 and 500-644582 and analytical batch 500-644769 recovered outside control limits for the following analytes: Selenium. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 6010B: The method blank for preparation batch 500-644386 and 500-644588 and analytical batch 500-645022 contained Manganese above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 6010B: The method blank for preparation batch 500-644572 and analytical batch 500-645023 contained Chromium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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

General Chemistry

Method 9045D: Soil pH holding time is immediate. The laboratory has established an in lab holding time of 7 days for soils. The following samples were analyzed outside the laboratory holding time due to an equipment malfunction and have been flagged accordingly. 2233V2-01-B26 (0-4) (500-212441-1), 2233V2-01-B25 (0-4) (500-212441-2), 2233V2-01-B24 (0-4) (500-212441-3), 2233V2-01-B24 (0-4)D (500-212441-4), 2233V2-01-B23 (0-4) (500-212441-5), 2233V2-01-B22 (0-2.6) (500-212441-6) and 2233V2-01-B21 (0-2.9) (500-212441-7).

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

Organic Prep

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



Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B26 (0-4)

Lab Sample ID: 500-212441-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.011	J	0.016	0.0069	mg/Kg	1	✳	8260B	Total/NA
2-Methylnaphthalene	0.0074	J	0.075	0.0068	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.022	J	0.037	0.0051	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.011	J	0.037	0.0073	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.014	J	0.037	0.010	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.018	J	0.037	0.012	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.31	J	1.1	0.21	mg/Kg	1	✳	6010B	Total/NA
Arsenic	7.8		0.54	0.18	mg/Kg	1	✳	6010B	Total/NA
Barium	28	F1	0.54	0.061	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.49		0.21	0.050	mg/Kg	1	✳	6010B	Total/NA
Boron	8.8		2.7	0.25	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.039	J B	0.11	0.019	mg/Kg	1	✳	6010B	Total/NA
Calcium	76000	B	54	9.1	mg/Kg	5	✳	6010B	Total/NA
Chromium	10	B	0.54	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	9.0		0.27	0.070	mg/Kg	1	✳	6010B	Total/NA
Copper	19		0.54	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	16000	B	11	5.6	mg/Kg	1	✳	6010B	Total/NA
Lead	11		0.27	0.12	mg/Kg	1	✳	6010B	Total/NA
Magnesium	27000		5.4	2.7	mg/Kg	1	✳	6010B	Total/NA
Manganese	370	B	0.54	0.078	mg/Kg	1	✳	6010B	Total/NA
Nickel	23	B	0.54	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	1100	F1	27	9.5	mg/Kg	1	✳	6010B	Total/NA
Silver	0.13	J	0.27	0.069	mg/Kg	1	✳	6010B	Total/NA
Sodium	690		54	8.0	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.78		0.54	0.27	mg/Kg	1	✳	6010B	Total/NA
Vanadium	12		0.27	0.063	mg/Kg	1	✳	6010B	Total/NA
Zinc	57		1.1	0.47	mg/Kg	1	✳	6010B	Total/NA
Barium	0.62		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.19	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	6.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.3	B	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.023		0.017	0.0058	mg/Kg	1	✳	7471B	Total/NA
pH	7.9	HF	0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2233V2-01-B25 (0-4)

Lab Sample ID: 500-212441-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0074	J	0.017	0.0074	mg/Kg	1	✳	8260B	Total/NA
2-Methylnaphthalene	0.0080	J	0.073	0.0067	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.038		0.036	0.0050	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.0068	J	0.036	0.0067	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.013	J	0.036	0.0072	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.020	J	0.036	0.0099	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.0094	J	0.036	0.0078	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.021	J	0.036	0.012	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.38	J	1.1	0.21	mg/Kg	1	✳	6010B	Total/NA
Arsenic	7.5		0.55	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	43		0.55	0.063	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B25 (0-4) (Continued)

Lab Sample ID: 500-212441-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.57		0.22	0.051	mg/Kg	1	✳	6010B	Total/NA
Boron	6.1		2.7	0.26	mg/Kg	1	✳	6010B	Total/NA
Calcium	65000	B	55	9.3	mg/Kg	5	✳	6010B	Total/NA
Chromium	12	B	0.55	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	10		0.27	0.072	mg/Kg	1	✳	6010B	Total/NA
Copper	21		0.55	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	17000	B	11	5.7	mg/Kg	1	✳	6010B	Total/NA
Lead	13		0.27	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	21000		5.5	2.7	mg/Kg	1	✳	6010B	Total/NA
Manganese	390	B	0.55	0.080	mg/Kg	1	✳	6010B	Total/NA
Nickel	27	B	0.55	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	1400		27	9.7	mg/Kg	1	✳	6010B	Total/NA
Silver	0.099	J	0.27	0.071	mg/Kg	1	✳	6010B	Total/NA
Sodium	580		55	8.1	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.71		0.55	0.27	mg/Kg	1	✳	6010B	Total/NA
Vanadium	15		0.27	0.065	mg/Kg	1	✳	6010B	Total/NA
Zinc	55		1.1	0.48	mg/Kg	1	✳	6010B	Total/NA
Barium	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	3.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.038		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.033	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.6	B	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.024		0.016	0.0054	mg/Kg	1	✳	7471B	Total/NA
pH	7.8	HF	0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2233V2-01-B24 (0-4)

Lab Sample ID: 500-212441-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.015	J	0.017	0.0073	mg/Kg	1	✳	8260B	Total/NA
Naphthalene	0.0065	J	0.037	0.0058	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.012	J	0.076	0.0069	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.0055	J	0.037	0.0053	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.043		0.037	0.0052	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.0081	J	0.037	0.0070	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.017	J	0.037	0.0075	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.0060	J	0.037	0.0051	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.022	J	0.037	0.010	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.010	J	0.037	0.0081	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.023	J	0.037	0.012	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.33	J	1.0	0.20	mg/Kg	1	✳	6010B	Total/NA
Arsenic	9.5		0.52	0.18	mg/Kg	1	✳	6010B	Total/NA
Barium	34		0.52	0.060	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.56		0.21	0.049	mg/Kg	1	✳	6010B	Total/NA
Boron	6.1		2.6	0.24	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.033	J B	0.10	0.019	mg/Kg	1	✳	6010B	Total/NA
Calcium	73000	B	52	8.9	mg/Kg	5	✳	6010B	Total/NA
Chromium	11	B	0.52	0.26	mg/Kg	1	✳	6010B	Total/NA
Cobalt	9.9		0.26	0.069	mg/Kg	1	✳	6010B	Total/NA
Copper	21		0.52	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	19000	B	10	5.5	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B24 (0-4) (Continued)

Lab Sample ID: 500-212441-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	13		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	28000		5.2	2.6	mg/Kg	1	☼	6010B	Total/NA
Manganese	400	B	0.52	0.076	mg/Kg	1	☼	6010B	Total/NA
Nickel	26	B	0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		26	9.3	mg/Kg	1	☼	6010B	Total/NA
Silver	0.13	J	0.26	0.068	mg/Kg	1	☼	6010B	Total/NA
Sodium	850		52	7.8	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.82		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	13		0.26	0.062	mg/Kg	1	☼	6010B	Total/NA
Zinc	63		1.0	0.46	mg/Kg	1	☼	6010B	Total/NA
Barium	0.55		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	4.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.4	B	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.025		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.3	HF	0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2233V2-01-B24 (0-4)D

Lab Sample ID: 500-212441-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0085	J	0.015	0.0067	mg/Kg	1	☼	8260B	Total/NA
2-Methylnaphthalene	0.0091	J	0.075	0.0068	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.031	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.012	J	0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.016	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.0082	J	0.037	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.016	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.44	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.7		0.54	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	28		0.54	0.061	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.49		0.21	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	5.4		2.7	0.25	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.060	J B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Calcium	77000	B	54	9.1	mg/Kg	5	☼	6010B	Total/NA
Chromium	8.5	B	0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.3		0.27	0.070	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	11	5.6	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.27	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	32000		5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	370	B	0.54	0.078	mg/Kg	1	☼	6010B	Total/NA
Nickel	21	B	0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	970		27	9.5	mg/Kg	1	☼	6010B	Total/NA
Silver	0.096	J	0.27	0.069	mg/Kg	1	☼	6010B	Total/NA
Sodium	780		54	7.9	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.51	J	0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	12		0.27	0.063	mg/Kg	1	☼	6010B	Total/NA
Zinc	68		1.1	0.47	mg/Kg	1	☼	6010B	Total/NA
Barium	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.052	J	0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B24 (0-4)D (Continued)

Lab Sample ID: 500-212441-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	6.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.5	B	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026		0.018	0.0059	mg/Kg	1	✳	7471B	Total/NA
pH	8.5	HF	0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2233V2-01-B22 (0-2.6)

Lab Sample ID: 500-212441-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0087	J	0.038	0.0060	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.0078	J	0.078	0.0071	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.0075	J	0.038	0.0051	mg/Kg	1	✳	8270D	Total/NA
Acenaphthene	0.0080	J	0.038	0.0070	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.0075	J	0.038	0.0054	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.16		0.038	0.0054	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.028	J	0.038	0.0065	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.41		0.038	0.0072	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.31		0.038	0.0077	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.15		0.038	0.0052	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B22 (0-2.6) (Continued)

Lab Sample ID: 500-212441-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.21		0.038	0.011	mg/Kg	1	✳	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.096	J	0.19	0.071	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.33		0.038	0.0084	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.12		0.038	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.21		0.038	0.0075	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.11		0.038	0.010	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.034	J	0.038	0.0075	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.12		0.038	0.012	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.66	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	8.3		0.57	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	80		0.57	0.065	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.60		0.23	0.054	mg/Kg	1	✳	6010B	Total/NA
Boron	3.6		2.9	0.27	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.24	B	0.11	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	28000	B	11	1.9	mg/Kg	1	✳	6010B	Total/NA
Chromium	16	B	0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	7.3		0.29	0.075	mg/Kg	1	✳	6010B	Total/NA
Copper	29		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	18000	B	11	6.0	mg/Kg	1	✳	6010B	Total/NA
Lead	100		0.29	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	16000		5.7	2.8	mg/Kg	1	✳	6010B	Total/NA
Manganese	480	B	0.57	0.083	mg/Kg	1	✳	6010B	Total/NA
Nickel	17	B	0.57	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	760		29	10	mg/Kg	1	✳	6010B	Total/NA
Silver	0.096	J	0.29	0.074	mg/Kg	1	✳	6010B	Total/NA
Sodium	1400		57	8.5	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.32	J	0.57	0.29	mg/Kg	1	✳	6010B	Total/NA
Vanadium	18		0.29	0.068	mg/Kg	1	✳	6010B	Total/NA
Zinc	130		1.1	0.50	mg/Kg	1	✳	6010B	Total/NA
Barium	0.51		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.088	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.23	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.2	B	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.034		0.018	0.0059	mg/Kg	1	✳	7471B	Total/NA
pH	8.0	HF	0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2233V2-01-B21 (0-2.9)

Lab Sample ID: 500-212441-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.012	J	0.038	0.0059	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.026	J	0.077	0.0070	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.0089	J	0.038	0.0050	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.12		0.038	0.0053	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.017	J	0.038	0.0064	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.16		0.038	0.0071	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.15		0.038	0.0076	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.090		0.038	0.0051	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.11		0.038	0.010	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.17		0.038	0.0082	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B21 (0-2.9) (Continued)

Lab Sample ID: 500-212441-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[k]fluoranthene	0.058		0.038	0.011	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.14		0.038	0.0074	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.069		0.038	0.0099	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.021	J	0.038	0.0074	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.071		0.038	0.012	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.44	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	12		0.56	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	57		0.56	0.064	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.82		0.23	0.053	mg/Kg	1	✳	6010B	Total/NA
Boron	11		2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.39	B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	73000	B	56	9.6	mg/Kg	5	✳	6010B	Total/NA
Chromium	10	B	0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	6.6		0.28	0.074	mg/Kg	1	✳	6010B	Total/NA
Copper	25		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	15000	B	11	5.9	mg/Kg	1	✳	6010B	Total/NA
Lead	130		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	26000		5.6	2.8	mg/Kg	1	✳	6010B	Total/NA
Manganese	410	B	0.56	0.082	mg/Kg	1	✳	6010B	Total/NA
Nickel	16	B	0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	900		28	10	mg/Kg	1	✳	6010B	Total/NA
Silver	0.091	J	0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Sodium	1600		56	8.4	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.28	J	0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Vanadium	16		0.28	0.067	mg/Kg	1	✳	6010B	Total/NA
Zinc	120		1.1	0.50	mg/Kg	1	✳	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.097	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0028	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	0.88		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.074	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.7	B	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.088		0.017	0.0057	mg/Kg	1	✳	7471B	Total/NA
pH	8.2	HF	0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

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Client Sample ID: 2233V2-01-B11 (0-3)

Lab Sample ID: 500-212441-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Naphthalene	0.0077	J	0.039	0.0060	mg/Kg	1	✳		8270D	Total/NA
2-Methylnaphthalene	0.0097	J	0.078	0.0071	mg/Kg	1	✳		8270D	Total/NA
Acenaphthylene	0.0086	J	0.039	0.0051	mg/Kg	1	✳		8270D	Total/NA
Acenaphthene	0.014	J	0.039	0.0070	mg/Kg	1	✳		8270D	Total/NA
Fluorene	0.010	J	0.039	0.0055	mg/Kg	1	✳		8270D	Total/NA
Phenanthrene	0.089		0.039	0.0054	mg/Kg	1	✳		8270D	Total/NA
Anthracene	0.025	J	0.039	0.0065	mg/Kg	1	✳		8270D	Total/NA
Fluoranthene	0.18		0.039	0.0072	mg/Kg	1	✳		8270D	Total/NA
Pyrene	0.21		0.039	0.0077	mg/Kg	1	✳		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B11 (0-3) (Continued)

Lab Sample ID: 500-212441-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.099		0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.12		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.095	J	0.20	0.071	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.21	*3	0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.085	*3	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.13	*3	0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.059	*3	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.062	*3	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.38	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.2		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	48		0.55	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	3.7		2.7	0.25	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.086	J B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Calcium	50000	B	55	9.3	mg/Kg	5	☼	6010B	Total/NA
Chromium	9.6	B	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.6		0.27	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	32		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	19000		5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	480	B	0.55	0.079	mg/Kg	1	☼	6010B	Total/NA
Nickel	20	B	0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	800		27	9.7	mg/Kg	1	☼	6010B	Total/NA
Silver	0.10	J	0.27	0.070	mg/Kg	1	☼	6010B	Total/NA
Sodium	1900		55	8.1	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.27	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	74		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Barium	0.31	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.061	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.47		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.11	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.0	B	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.036		0.018	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2233V2-01-B11 (3-6.3)

Lab Sample ID: 500-212441-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.14		0.023	0.010	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.024		0.0057	0.0025	mg/Kg	1	☼	8260B	Total/NA
Phenanthrene	0.017	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.035	J	0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.042		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.018	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.028	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.040	*3	0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.018	J *3	0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.025	J *3	0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.016	J *3	0.040	0.010	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B11 (3-6.3) (Continued)

Lab Sample ID: 500-212441-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	0.017	J*3	0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.27	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.8		0.60	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	37		0.60	0.069	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.58		0.24	0.056	mg/Kg	1	☼	6010B	Total/NA
Boron	4.1		3.0	0.28	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Calcium	70000	B	60	10	mg/Kg	5	☼	6010B	Total/NA
Chromium	12	B	0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.2		0.30	0.079	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	12000	B	12	6.3	mg/Kg	1	☼	6010B	Total/NA
Lead	41		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000		6.0	3.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	370	B	0.60	0.087	mg/Kg	1	☼	6010B	Total/NA
Nickel	20	B	0.60	0.18	mg/Kg	1	☼	6010B	Total/NA
Potassium	760		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200		60	8.9	mg/Kg	1	☼	6010B	Total/NA
Vanadium	13		0.30	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	72		1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.097	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.021	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.027		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	7.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Selenium	0.021	J*+	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.15	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.57		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	1.3	B	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.093		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2233V2-01-B10 (0-3)

Lab Sample ID: 500-212441-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0092	J	0.017	0.0075	mg/Kg	1	☼	8260B	Total/NA
Phenanthrene	0.026	J	0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0071	J	0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.013	J	0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.021	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.014	J*3	0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.37	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	12		0.54	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	32		0.54	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.47		0.22	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	5.1		2.7	0.25	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.066	J B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Calcium	62000	B	54	9.2	mg/Kg	5	☼	6010B	Total/NA
Chromium	9.9	B	0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.27	0.071	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B10 (0-3) (Continued)

Lab Sample ID: 500-212441-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	18		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	14000	B	11	5.6	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.27	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000		5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	310	B	0.54	0.078	mg/Kg	1	☼	6010B	Total/NA
Nickel	23	B	0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		27	9.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	2200		54	8.0	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.34	J	0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	12		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	48		1.1	0.47	mg/Kg	1	☼	6010B	Total/NA
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.3	B	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.020		0.017	0.0056	mg/Kg	1	☼	7471B	Total/NA
pH	8.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2233V2-01-B10 (3-6.7)

Lab Sample ID: 500-212441-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.026	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.048		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.060		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.028	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.035	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.051		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.029	J	0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.016	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.27	J	1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.6		0.52	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	27		0.52	0.060	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.43		0.21	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	6.5		2.6	0.24	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.25	B	0.10	0.019	mg/Kg	1	☼	6010B	Total/NA
Calcium	110000	B	52	8.9	mg/Kg	5	☼	6010B	Total/NA
Chromium	7.0	B	0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.0		0.26	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	14		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	52	27	mg/Kg	5	☼	6010B	Total/NA
Lead	46		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	62000		26	13	mg/Kg	5	☼	6010B	Total/NA
Manganese	330	B	0.52	0.076	mg/Kg	1	☼	6010B	Total/NA
Nickel	14	B	0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	700		26	9.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	1700		52	7.8	mg/Kg	1	☼	6010B	Total/NA
Vanadium	11		0.26	0.062	mg/Kg	1	☼	6010B	Total/NA
Zinc	45		1.0	0.46	mg/Kg	1	☼	6010B	Total/NA
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.062	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	3.3		0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B10 (3-6.7) (Continued)

Lab Sample ID: 500-212441-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.037	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.86	B	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.041		0.018	0.0061	mg/Kg	1	✳	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2233V2-01-B04 (0-4)

Lab Sample ID: 500-212441-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.011	J	0.018	0.0078	mg/Kg	1	✳	8260B	Total/NA
Phenanthrene	0.020	J	0.037	0.0052	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.0086	J	0.037	0.0075	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.014	J	0.037	0.010	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.0090	J *3	0.037	0.0081	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.33	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	9.0		0.55	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	35		0.55	0.063	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.54		0.22	0.052	mg/Kg	1	✳	6010B	Total/NA
Boron	4.7		2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Calcium	66000	B	55	9.4	mg/Kg	5	✳	6010B	Total/NA
Chromium	11	B	0.55	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	9.9		0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Copper	21		0.55	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	18000	B	11	5.8	mg/Kg	1	✳	6010B	Total/NA
Lead	11		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	26000		5.5	2.8	mg/Kg	1	✳	6010B	Total/NA
Manganese	350	B	0.55	0.080	mg/Kg	1	✳	6010B	Total/NA
Nickel	24	B	0.55	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	1000		28	9.8	mg/Kg	1	✳	6010B	Total/NA
Sodium	1800		55	8.2	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.72		0.55	0.28	mg/Kg	1	✳	6010B	Total/NA
Vanadium	13		0.28	0.065	mg/Kg	1	✳	6010B	Total/NA
Zinc	57		1.1	0.49	mg/Kg	1	✳	6010B	Total/NA
Barium	0.58		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	4.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.3	B	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.028	B	0.018	0.0059	mg/Kg	1	✳	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2233V2-01-B04 (0-4)D

Lab Sample ID: 500-212441-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.026		0.017	0.0076	mg/Kg	1	✳	8260B	Total/NA
Acenaphthene	0.0072	J	0.037	0.0067	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.039		0.037	0.0052	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.017	J	0.037	0.0074	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.020	J	0.037	0.010	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.015	J *3	0.037	0.012	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.48	J	1.1	0.21	mg/Kg	1	✳	6010B	Total/NA
Arsenic	13		0.55	0.19	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B04 (0-4)D (Continued)

Lab Sample ID: 500-212441-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	26		0.55	0.062	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.49		0.22	0.051	mg/Kg	1	✳	6010B	Total/NA
Boron	5.6		2.7	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.21	B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	58000	B	55	9.3	mg/Kg	5	✳	6010B	Total/NA
Chromium	10	B	0.55	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	15		0.27	0.072	mg/Kg	1	✳	6010B	Total/NA
Copper	28		0.55	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	17000	B	11	5.7	mg/Kg	1	✳	6010B	Total/NA
Lead	90		0.27	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	26000		5.5	2.7	mg/Kg	1	✳	6010B	Total/NA
Manganese	320	B	0.55	0.079	mg/Kg	1	✳	6010B	Total/NA
Nickel	31	B	0.55	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	1200		27	9.7	mg/Kg	1	✳	6010B	Total/NA
Sodium	1400		55	8.1	mg/Kg	1	✳	6010B	Total/NA
Thallium	1.1		0.55	0.27	mg/Kg	1	✳	6010B	Total/NA
Vanadium	12		0.27	0.065	mg/Kg	1	✳	6010B	Total/NA
Zinc	100		1.1	0.48	mg/Kg	1	✳	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.029		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	4.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.038		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.039	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.4	B	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.023	B	0.017	0.0057	mg/Kg	1	✳	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2233V2-01-B04 (4-7.8)

Lab Sample ID: 500-212441-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.016	J	0.038	0.0053	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.013	J	0.038	0.0076	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.017	J	0.038	0.010	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.32	J	1.1	0.21	mg/Kg	1	✳	6010B	Total/NA
Arsenic	10		0.53	0.18	mg/Kg	1	✳	6010B	Total/NA
Barium	29		0.53	0.061	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.53		0.21	0.050	mg/Kg	1	✳	6010B	Total/NA
Boron	5.1		2.7	0.25	mg/Kg	1	✳	6010B	Total/NA
Calcium	72000	B	53	9.0	mg/Kg	5	✳	6010B	Total/NA
Chromium	16	B	0.53	0.26	mg/Kg	1	✳	6010B	Total/NA
Cobalt	11		0.27	0.070	mg/Kg	1	✳	6010B	Total/NA
Copper	19		0.53	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	17000	B	11	5.5	mg/Kg	1	✳	6010B	Total/NA
Lead	11		0.27	0.12	mg/Kg	1	✳	6010B	Total/NA
Magnesium	26000		5.3	2.6	mg/Kg	1	✳	6010B	Total/NA
Manganese	350	B	0.53	0.077	mg/Kg	1	✳	6010B	Total/NA
Nickel	26	B	0.53	0.15	mg/Kg	1	✳	6010B	Total/NA
Potassium	1100		27	9.4	mg/Kg	1	✳	6010B	Total/NA
Sodium	1500		53	7.9	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.67		0.53	0.27	mg/Kg	1	✳	6010B	Total/NA
Vanadium	16		0.27	0.063	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B04 (4-7.8) (Continued)

Lab Sample ID: 500-212441-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	51		1.1	0.47	mg/Kg	1	☼	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	3.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.024	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.1	B	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.028	B	0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	7.5		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago



Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-212441-1	2233V2-01-B26 (0-4)	Solid	02/15/22 21:30	02/16/22 12:20
500-212441-2	2233V2-01-B25 (0-4)	Solid	02/15/22 21:45	02/16/22 12:20
500-212441-3	2233V2-01-B24 (0-4)	Solid	02/15/22 21:53	02/16/22 12:20
500-212441-4	2233V2-01-B24 (0-4)D	Solid	02/15/22 21:55	02/16/22 12:20
500-212441-6	2233V2-01-B22 (0-2.6)	Solid	02/15/22 22:12	02/16/22 12:20
500-212441-7	2233V2-01-B21 (0-2.9)	Solid	02/15/22 22:20	02/16/22 12:20
500-212441-14	2233V2-01-B11 (0-3)	Solid	02/16/22 00:00	02/16/22 12:20
500-212441-15	2233V2-01-B11 (3-6.3)	Solid	02/16/22 00:03	02/16/22 12:20
500-212441-16	2233V2-01-B10 (0-3)	Solid	02/16/22 00:15	02/16/22 12:20
500-212441-17	2233V2-01-B10 (3-6.7)	Solid	02/16/22 00:22	02/16/22 12:20
500-212441-18	2233V2-01-B04 (0-4)	Solid	02/16/22 00:53	02/16/22 12:20
500-212441-19	2233V2-01-B04 (0-4)D	Solid	02/16/22 00:55	02/16/22 12:20
500-212441-20	2233V2-01-B04 (4-7.8)	Solid	02/16/22 01:00	02/16/22 12:20



Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B26 (0-4)

Lab Sample ID: 500-212441-1

Date Collected: 02/15/22 21:30

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.011	J	0.016	0.0069	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
Carbon disulfide	<0.0040		0.0040	0.00083	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
1,2-Dichloropropene	<0.0016		0.0016	0.00041	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00056	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
Ethylbenzene	<0.0016		0.0016	0.00076	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
1,1,2,2-Tetrachloroethane	<0.0016	*3	0.0016	0.00051	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00071	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00054	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
Vinyl acetate	<0.0040		0.0040	0.0014	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
Vinyl chloride	<0.0016		0.0016	0.00071	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	✳	02/16/22 17:25	02/25/22 12:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	161	*3 S1+	75 - 131	02/16/22 17:25	02/25/22 12:36	1
Dibromofluoromethane	124		75 - 126	02/16/22 17:25	02/25/22 12:36	1
1,2-Dichloroethane-d4 (Surr)	127		70 - 134	02/16/22 17:25	02/25/22 12:36	1
Toluene-d8 (Surr)	129	S1+	75 - 124	02/16/22 17:25	02/25/22 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.082	mg/Kg	✳	02/24/22 19:39	02/25/22 12:37	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	✳	02/24/22 19:39	02/25/22 12:37	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	✳	02/24/22 19:39	02/25/22 12:37	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	✳	02/24/22 19:39	02/25/22 12:37	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B26 (0-4)

Lab Sample ID: 500-212441-1

Date Collected: 02/15/22 21:30

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
Isophorone	<0.19		0.19	0.041	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
Hexachlorobutadiene	<0.19	+	0.19	0.058	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
2,4,6-Trichlorophenol	<0.37	+	0.37	0.13	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
2,4,5-Trichlorophenol	<0.37	+	0.37	0.084	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
2-Methylnaphthalene	0.0074	J	0.075	0.0068	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
Acenaphthene	<0.037		0.037	0.0066	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
4-Bromophenyl phenyl ether	<0.19	+	0.19	0.049	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
4-Chlorophenyl phenyl ether	<0.19	+	0.19	0.043	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
Phenanthrene	0.022	J	0.037	0.0051	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
Carbazole	<0.19		0.19	0.092	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
Pyrene	0.011	J	0.037	0.0073	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	✱	02/24/22 19:39	02/25/22 12:37	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B26 (0-4)

Lab Sample ID: 500-212441-1

Date Collected: 02/15/22 21:30

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.014	J	0.037	0.010	mg/Kg	✳	02/24/22 19:39	02/25/22 12:37	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	✳	02/24/22 19:39	02/25/22 12:37	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	✳	02/24/22 19:39	02/25/22 12:37	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	✳	02/24/22 19:39	02/25/22 12:37	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	✳	02/24/22 19:39	02/25/22 12:37	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	✳	02/24/22 19:39	02/25/22 12:37	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	✳	02/24/22 19:39	02/25/22 12:37	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	✳	02/24/22 19:39	02/25/22 12:37	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0071	mg/Kg	✳	02/24/22 19:39	02/25/22 12:37	1
Benzo[g,h,i]perylene	0.018	J	0.037	0.012	mg/Kg	✳	02/24/22 19:39	02/25/22 12:37	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	✳	02/24/22 19:39	02/25/22 12:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	84		31 - 166	02/24/22 19:39	02/25/22 12:37	1
Phenol-d5	83		30 - 153	02/24/22 19:39	02/25/22 12:37	1
Nitrobenzene-d5 (Surr)	84		37 - 147	02/24/22 19:39	02/25/22 12:37	1
2-Fluorobiphenyl (Surr)	96		43 - 145	02/24/22 19:39	02/25/22 12:37	1
2,4,6-Tribromophenol	96		31 - 143	02/24/22 19:39	02/25/22 12:37	1
Terphenyl-d14 (Surr)	90		42 - 157	02/24/22 19:39	02/25/22 12:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.31	J	1.1	0.21	mg/Kg	✳	02/26/22 05:00	02/27/22 15:33	1
Arsenic	7.8		0.54	0.18	mg/Kg	✳	02/26/22 05:00	02/27/22 15:33	1
Barium	28	F1	0.54	0.061	mg/Kg	✳	02/26/22 05:00	02/28/22 21:05	1
Beryllium	0.49		0.21	0.050	mg/Kg	✳	02/26/22 05:00	02/28/22 21:05	1
Boron	8.8		2.7	0.25	mg/Kg	✳	02/26/22 05:00	02/27/22 15:33	1
Cadmium	0.039	J B	0.11	0.019	mg/Kg	✳	02/26/22 05:00	02/27/22 15:33	1
Calcium	76000	B	54	9.1	mg/Kg	✳	02/26/22 05:00	02/28/22 21:22	5
Chromium	10	B	0.54	0.27	mg/Kg	✳	02/26/22 05:00	02/28/22 21:05	1
Cobalt	9.0		0.27	0.070	mg/Kg	✳	02/26/22 05:00	02/27/22 15:33	1
Copper	19		0.54	0.15	mg/Kg	✳	02/26/22 05:00	02/27/22 15:33	1
Iron	16000	B	11	5.6	mg/Kg	✳	02/26/22 05:00	02/28/22 21:05	1
Lead	11		0.27	0.12	mg/Kg	✳	02/26/22 05:00	02/27/22 15:33	1
Magnesium	27000		5.4	2.7	mg/Kg	✳	02/26/22 05:00	02/28/22 21:05	1
Manganese	370	B	0.54	0.078	mg/Kg	✳	02/26/22 05:00	02/28/22 21:05	1
Nickel	23	B	0.54	0.16	mg/Kg	✳	02/26/22 05:00	02/27/22 15:33	1
Potassium	1100	F1	27	9.5	mg/Kg	✳	02/26/22 05:00	02/28/22 21:05	1
Selenium	<0.54		0.54	0.32	mg/Kg	✳	02/26/22 05:00	02/27/22 15:33	1
Silver	0.13	J	0.27	0.069	mg/Kg	✳	02/26/22 05:00	02/27/22 15:33	1
Sodium	690		54	8.0	mg/Kg	✳	02/26/22 05:00	02/28/22 21:05	1
Thallium	0.78		0.54	0.27	mg/Kg	✳	02/26/22 05:00	02/27/22 15:33	1
Vanadium	12		0.27	0.063	mg/Kg	✳	02/26/22 05:00	02/27/22 15:33	1
Zinc	57		1.1	0.47	mg/Kg	✳	02/26/22 05:00	02/27/22 15:33	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.62		0.50	0.050	mg/L		02/26/22 04:30	02/27/22 19:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/26/22 04:30	02/27/22 19:50	1
Boron	0.19	J	0.50	0.050	mg/L		02/26/22 04:30	02/27/22 19:50	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B26 (0-4)

Lab Sample ID: 500-212441-1

Date Collected: 02/15/22 21:30

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0020	J	0.0050	0.0020	mg/L	-	02/26/22 04:30	02/27/22 19:50	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/26/22 04:30	02/27/22 19:50	1
Cobalt	0.011	J	0.025	0.010	mg/L	-	02/26/22 04:30	02/27/22 19:50	1
Iron	<0.40		0.40	0.20	mg/L	-	02/26/22 04:30	02/27/22 19:50	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/26/22 04:30	02/27/22 19:50	1
Manganese	6.1		0.025	0.010	mg/L	-	02/26/22 04:30	02/27/22 19:50	1
Nickel	0.012	J	0.025	0.010	mg/L	-	02/26/22 04:30	02/27/22 19:50	1
Selenium	<0.050	*+	0.050	0.020	mg/L	-	02/26/22 04:30	02/27/22 19:50	1
Silver	<0.025		0.025	0.010	mg/L	-	02/26/22 04:30	02/27/22 19:50	1
Zinc	<0.50		0.50	0.020	mg/L	-	02/26/22 04:30	02/27/22 19:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.3	B	0.025	0.010	mg/L	-	02/27/22 08:00	02/28/22 16:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/26/22 04:30	02/28/22 12:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/26/22 04:30	02/28/22 12:21	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/28/22 14:20	03/01/22 15:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.017	0.0058	mg/Kg	☆	03/01/22 14:00	03/02/22 09:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9	HF	0.2	0.2	SU	-		02/24/22 05:34	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B25 (0-4)

Lab Sample ID: 500-212441-2

Date Collected: 02/15/22 21:45

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 89.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0074	J	0.017	0.0074	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
Carbon disulfide	<0.0042		0.0042	0.00088	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
Chloroethane	<0.0042		0.0042	0.0013	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
1,2-Dichloropropene	<0.0017		0.0017	0.00044	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0013	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
Vinyl acetate	<0.0042		0.0042	0.0015	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	✳	02/16/22 17:25	02/25/22 13:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131		75 - 131	02/16/22 17:25	02/25/22 13:03	1
Dibromofluoromethane	120		75 - 126	02/16/22 17:25	02/25/22 13:03	1
1,2-Dichloroethane-d4 (Surr)	119		70 - 134	02/16/22 17:25	02/25/22 13:03	1
Toluene-d8 (Surr)	118		75 - 124	02/16/22 17:25	02/25/22 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.080	mg/Kg	✳	02/24/22 19:39	02/25/22 12:58	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	✳	02/24/22 19:39	02/25/22 12:58	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	✳	02/24/22 19:39	02/25/22 12:58	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	✳	02/24/22 19:39	02/25/22 12:58	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B25 (0-4)

Lab Sample ID: 500-212441-2

Date Collected: 02/15/22 21:45

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 89.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
Hexachlorobutadiene	<0.18	+	0.18	0.057	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
2,4,6-Trichlorophenol	<0.36	+	0.36	0.12	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
2,4,5-Trichlorophenol	<0.36	+	0.36	0.083	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
2-Methylnaphthalene	0.0080	J	0.073	0.0067	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
4-Bromophenyl phenyl ether	<0.18	+	0.18	0.048	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
4-Chlorophenyl phenyl ether	<0.18	+	0.18	0.042	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
Phenanthrene	0.038		0.036	0.0050	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
Fluoranthene	0.0068	J	0.036	0.0067	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
Pyrene	0.013	J	0.036	0.0072	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	02/24/22 19:39	02/25/22 12:58	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B25 (0-4)

Lab Sample ID: 500-212441-2

Date Collected: 02/15/22 21:45

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 89.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.020	J	0.036	0.0099	mg/Kg	✱	02/24/22 19:39	02/25/22 12:58	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	✱	02/24/22 19:39	02/25/22 12:58	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	✱	02/24/22 19:39	02/25/22 12:58	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	✱	02/24/22 19:39	02/25/22 12:58	1
Benzo[b]fluoranthene	0.0094	J	0.036	0.0078	mg/Kg	✱	02/24/22 19:39	02/25/22 12:58	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	✱	02/24/22 19:39	02/25/22 12:58	1
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	✱	02/24/22 19:39	02/25/22 12:58	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	✱	02/24/22 19:39	02/25/22 12:58	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	✱	02/24/22 19:39	02/25/22 12:58	1
Benzo[g,h,i]perylene	0.021	J	0.036	0.012	mg/Kg	✱	02/24/22 19:39	02/25/22 12:58	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	✱	02/24/22 19:39	02/25/22 12:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	88		31 - 166				02/24/22 19:39	02/25/22 12:58	1
Phenol-d5	82		30 - 153				02/24/22 19:39	02/25/22 12:58	1
Nitrobenzene-d5 (Surr)	87		37 - 147				02/24/22 19:39	02/25/22 12:58	1
2-Fluorobiphenyl (Surr)	99		43 - 145				02/24/22 19:39	02/25/22 12:58	1
2,4,6-Tribromophenol	110		31 - 143				02/24/22 19:39	02/25/22 12:58	1
Terphenyl-d14 (Surr)	90		42 - 157				02/24/22 19:39	02/25/22 12:58	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.38	J	1.1	0.21	mg/Kg	✱	02/26/22 05:00	02/27/22 15:49	1
Arsenic	7.5		0.55	0.19	mg/Kg	✱	02/26/22 05:00	02/27/22 15:49	1
Barium	43		0.55	0.063	mg/Kg	✱	02/26/22 05:00	02/28/22 21:45	1
Beryllium	0.57		0.22	0.051	mg/Kg	✱	02/26/22 05:00	02/28/22 21:45	1
Boron	6.1		2.7	0.26	mg/Kg	✱	02/26/22 05:00	02/27/22 15:49	1
Cadmium	<0.11		0.11	0.020	mg/Kg	✱	02/26/22 05:00	02/27/22 15:49	1
Calcium	65000	B	55	9.3	mg/Kg	✱	02/26/22 05:00	02/28/22 21:48	5
Chromium	12	B	0.55	0.27	mg/Kg	✱	02/26/22 05:00	02/28/22 21:45	1
Cobalt	10		0.27	0.072	mg/Kg	✱	02/26/22 05:00	02/27/22 15:49	1
Copper	21		0.55	0.15	mg/Kg	✱	02/26/22 05:00	02/27/22 15:49	1
Iron	17000	B	11	5.7	mg/Kg	✱	02/26/22 05:00	02/28/22 21:45	1
Lead	13		0.27	0.13	mg/Kg	✱	02/26/22 05:00	02/27/22 15:49	1
Magnesium	21000		5.5	2.7	mg/Kg	✱	02/26/22 05:00	02/28/22 21:45	1
Manganese	390	B	0.55	0.080	mg/Kg	✱	02/26/22 05:00	02/28/22 21:45	1
Nickel	27	B	0.55	0.16	mg/Kg	✱	02/26/22 05:00	02/27/22 15:49	1
Potassium	1400		27	9.7	mg/Kg	✱	02/26/22 05:00	02/28/22 21:45	1
Selenium	<0.55		0.55	0.32	mg/Kg	✱	02/26/22 05:00	02/27/22 15:49	1
Silver	0.099	J	0.27	0.071	mg/Kg	✱	02/26/22 05:00	02/27/22 15:49	1
Sodium	580		55	8.1	mg/Kg	✱	02/26/22 05:00	02/28/22 21:45	1
Thallium	0.71		0.55	0.27	mg/Kg	✱	02/26/22 05:00	02/27/22 15:49	1
Vanadium	15		0.27	0.065	mg/Kg	✱	02/26/22 05:00	02/27/22 15:49	1
Zinc	55		1.1	0.48	mg/Kg	✱	02/26/22 05:00	02/27/22 15:49	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.52		0.50	0.050	mg/L		02/26/22 04:30	02/27/22 19:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/26/22 04:30	02/27/22 19:53	1
Boron	<0.50		0.50	0.050	mg/L		02/26/22 04:30	02/27/22 19:53	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B25 (0-4)

Lab Sample ID: 500-212441-2

Date Collected: 02/15/22 21:45

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 89.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/26/22 04:30	02/27/22 19:53	1
Chromium	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 19:53	1
Cobalt	0.016	J	0.025	0.010	mg/L		02/26/22 04:30	02/27/22 19:53	1
Iron	<0.40		0.40	0.20	mg/L		02/26/22 04:30	02/27/22 19:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/26/22 04:30	02/28/22 11:02	1
Manganese	3.6		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 19:53	1
Nickel	0.038		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 19:53	1
Selenium	<0.050	*+	0.050	0.020	mg/L		02/26/22 04:30	02/27/22 19:53	1
Silver	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 19:53	1
Zinc	0.033	J	0.50	0.020	mg/L		02/26/22 04:30	02/27/22 19:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.6	B	0.025	0.010	mg/L		02/27/22 08:00	02/28/22 16:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/26/22 04:30	02/28/22 12:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/26/22 04:30	02/28/22 12:23	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 15:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.016	0.0054	mg/Kg	☆	03/01/22 14:00	03/02/22 09:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.8	HF	0.2	0.2	SU			02/24/22 05:37	1

Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B24 (0-4)

Lab Sample ID: 500-212441-3

Date Collected: 02/15/22 21:53

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.015	J	0.017	0.0073	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
Methylene Chloride	<0.0042		0.0042	0.0016	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
1,1,2,2-Tetrachloroethane	<0.0017	*3	0.0017	0.00053	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
Vinyl acetate	<0.0042		0.0042	0.0015	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1
Xylenes, Total	<0.0033		0.0033	0.00054	mg/Kg	☼	02/16/22 17:25	02/25/22 13:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	184	*3 S1+	75 - 131	02/16/22 17:25	02/25/22 13:29	1
Dibromofluoromethane	124		75 - 126	02/16/22 17:25	02/25/22 13:29	1
1,2-Dichloroethane-d4 (Surr)	124		70 - 134	02/16/22 17:25	02/25/22 13:29	1
Toluene-d8 (Surr)	139	S1+	75 - 124	02/16/22 17:25	02/25/22 13:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B24 (0-4)

Lab Sample ID: 500-212441-3

Date Collected: 02/15/22 21:53

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
Hexachlorobutadiene	<0.19	+	0.19	0.059	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
Naphthalene	0.0065	J	0.037	0.0058	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
2,4,6-Trichlorophenol	<0.37	+	0.37	0.13	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
2,4,5-Trichlorophenol	<0.37	+	0.37	0.086	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
2-Methylnaphthalene	0.012	J	0.076	0.0069	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
Fluorene	0.0055	J	0.037	0.0053	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
4-Bromophenyl phenyl ether	<0.19	+	0.19	0.050	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
4-Chlorophenyl phenyl ether	<0.19	+	0.19	0.044	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
Phenanthrene	0.043		0.037	0.0052	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
Fluoranthene	0.0081	J	0.037	0.0070	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
Pyrene	0.017	J	0.037	0.0075	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1
Benzo[a]anthracene	0.0060	J	0.037	0.0051	mg/Kg	☼	02/24/22 19:39	02/25/22 13:20	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B24 (0-4)

Lab Sample ID: 500-212441-3

Date Collected: 02/15/22 21:53

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.022	J	0.037	0.010	mg/Kg	✱	02/24/22 19:39	02/25/22 13:20	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	✱	02/24/22 19:39	02/25/22 13:20	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	✱	02/24/22 19:39	02/25/22 13:20	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	✱	02/24/22 19:39	02/25/22 13:20	1
Benzo[b]fluoranthene	0.010	J	0.037	0.0081	mg/Kg	✱	02/24/22 19:39	02/25/22 13:20	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	✱	02/24/22 19:39	02/25/22 13:20	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	✱	02/24/22 19:39	02/25/22 13:20	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	✱	02/24/22 19:39	02/25/22 13:20	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	✱	02/24/22 19:39	02/25/22 13:20	1
Benzo[g,h,i]perylene	0.023	J	0.037	0.012	mg/Kg	✱	02/24/22 19:39	02/25/22 13:20	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	✱	02/24/22 19:39	02/25/22 13:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	84		31 - 166				02/24/22 19:39	02/25/22 13:20	1
Phenol-d5	78		30 - 153				02/24/22 19:39	02/25/22 13:20	1
Nitrobenzene-d5 (Surr)	83		37 - 147				02/24/22 19:39	02/25/22 13:20	1
2-Fluorobiphenyl (Surr)	98		43 - 145				02/24/22 19:39	02/25/22 13:20	1
2,4,6-Tribromophenol	106		31 - 143				02/24/22 19:39	02/25/22 13:20	1
Terphenyl-d14 (Surr)	87		42 - 157				02/24/22 19:39	02/25/22 13:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.0	0.20	mg/Kg	✱	02/26/22 05:00	02/27/22 15:52	1
Arsenic	9.5		0.52	0.18	mg/Kg	✱	02/26/22 05:00	02/27/22 15:52	1
Barium	34		0.52	0.060	mg/Kg	✱	02/26/22 05:00	02/28/22 21:51	1
Beryllium	0.56		0.21	0.049	mg/Kg	✱	02/26/22 05:00	02/28/22 21:51	1
Boron	6.1		2.6	0.24	mg/Kg	✱	02/26/22 05:00	02/27/22 15:52	1
Cadmium	0.033	J B	0.10	0.019	mg/Kg	✱	02/26/22 05:00	02/27/22 15:52	1
Calcium	73000	B	52	8.9	mg/Kg	✱	02/26/22 05:00	02/28/22 21:55	5
Chromium	11	B	0.52	0.26	mg/Kg	✱	02/26/22 05:00	02/28/22 21:51	1
Cobalt	9.9		0.26	0.069	mg/Kg	✱	02/26/22 05:00	02/27/22 15:52	1
Copper	21		0.52	0.15	mg/Kg	✱	02/26/22 05:00	02/27/22 15:52	1
Iron	19000	B	10	5.5	mg/Kg	✱	02/26/22 05:00	02/28/22 21:51	1
Lead	13		0.26	0.12	mg/Kg	✱	02/26/22 05:00	02/27/22 15:52	1
Magnesium	28000		5.2	2.6	mg/Kg	✱	02/26/22 05:00	02/28/22 21:51	1
Manganese	400	B	0.52	0.076	mg/Kg	✱	02/26/22 05:00	02/28/22 21:51	1
Nickel	26	B	0.52	0.15	mg/Kg	✱	02/26/22 05:00	02/27/22 15:52	1
Potassium	1200		26	9.3	mg/Kg	✱	02/26/22 05:00	02/28/22 21:51	1
Selenium	<0.52		0.52	0.31	mg/Kg	✱	02/26/22 05:00	02/27/22 15:52	1
Silver	0.13	J	0.26	0.068	mg/Kg	✱	02/26/22 05:00	02/27/22 15:52	1
Sodium	850		52	7.8	mg/Kg	✱	02/26/22 05:00	02/28/22 21:51	1
Thallium	0.82		0.52	0.26	mg/Kg	✱	02/26/22 05:00	02/27/22 15:52	1
Vanadium	13		0.26	0.062	mg/Kg	✱	02/26/22 05:00	02/27/22 15:52	1
Zinc	63		1.0	0.46	mg/Kg	✱	02/26/22 05:00	02/27/22 15:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.55		0.50	0.050	mg/L		02/26/22 04:30	02/27/22 19:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/26/22 04:30	02/27/22 19:57	1
Boron	<0.50		0.50	0.050	mg/L		02/26/22 04:30	02/27/22 19:57	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B24 (0-4)

Lab Sample ID: 500-212441-3

Date Collected: 02/15/22 21:53

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/26/22 04:30	02/27/22 19:57	1
Chromium	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 19:57	1
Cobalt	0.011	J	0.025	0.010	mg/L		02/26/22 04:30	02/27/22 19:57	1
Iron	<0.40		0.40	0.20	mg/L		02/26/22 04:30	02/27/22 19:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/26/22 04:30	02/27/22 19:57	1
Manganese	4.6		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 19:57	1
Nickel	0.018	J	0.025	0.010	mg/L		02/26/22 04:30	02/27/22 19:57	1
Selenium	<0.050	*+	0.050	0.020	mg/L		02/26/22 04:30	02/27/22 19:57	1
Silver	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 19:57	1
Zinc	<0.50		0.50	0.020	mg/L		02/26/22 04:30	02/27/22 19:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.4	B	0.025	0.010	mg/L		02/27/22 08:00	02/28/22 16:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/26/22 04:30	02/28/22 12:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/26/22 04:30	02/28/22 12:25	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 15:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0060	mg/Kg	☆	03/01/22 14:00	03/02/22 09:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.3	HF	0.2	0.2	SU			02/24/22 05:39	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B24 (0-4)D

Lab Sample ID: 500-212441-4

Date Collected: 02/15/22 21:55

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0085	J	0.015	0.0067	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
Benzene	<0.0015		0.0015	0.00039	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
Bromodichloromethane	<0.0015		0.0015	0.00031	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
Bromoform	<0.0015		0.0015	0.00045	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
Bromomethane	<0.0038	*+	0.0038	0.0015	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
2-Butanone (MEK)	<0.0038		0.0038	0.0017	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
Carbon disulfide	<0.0038		0.0038	0.00080	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
Carbon tetrachloride	<0.0015		0.0015	0.00045	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
Chlorobenzene	<0.0015		0.0015	0.00057	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
Chloroethane	<0.0038		0.0038	0.0011	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
Chloroform	<0.0015		0.0015	0.00053	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
Chloromethane	<0.0038		0.0038	0.0015	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00043	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00046	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
Dibromochloromethane	<0.0015		0.0015	0.00050	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
1,1-Dichloroethane	<0.0015		0.0015	0.00053	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
1,2-Dichloroethane	<0.0038		0.0038	0.0012	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
1,1-Dichloroethene	<0.0015		0.0015	0.00053	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
1,2-Dichloropropane	<0.0015		0.0015	0.00040	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
1,3-Dichloropropane, Total	<0.0015		0.0015	0.00054	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
Ethylbenzene	<0.0015		0.0015	0.00074	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
Methylene Chloride	<0.0038		0.0038	0.0015	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.0011	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00045	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
Styrene	<0.0015		0.0015	0.00046	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
1,1,2,2-Tetrachloroethane	<0.0015	*3	0.0015	0.00049	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
Tetrachloroethene	<0.0015		0.0015	0.00052	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
Toluene	<0.0015		0.0015	0.00039	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00068	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00054	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
1,1,1-Trichloroethane	<0.0015		0.0015	0.00052	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00066	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
Trichloroethene	<0.0015		0.0015	0.00052	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
Vinyl acetate	<0.0038		0.0038	0.0013	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
Vinyl chloride	<0.0015		0.0015	0.00068	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1
Xylenes, Total	<0.0031		0.0031	0.00049	mg/Kg	✳	02/16/22 17:25	02/28/22 12:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	*3 S1+	75 - 131	02/16/22 17:25	02/28/22 12:54	1
Dibromofluoromethane	115		75 - 126	02/16/22 17:25	02/28/22 12:54	1
1,2-Dichloroethane-d4 (Surr)	126		70 - 134	02/16/22 17:25	02/28/22 12:54	1
Toluene-d8 (Surr)	115		75 - 124	02/16/22 17:25	02/28/22 12:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	✳	02/24/22 19:39	02/25/22 13:42	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	✳	02/24/22 19:39	02/25/22 13:42	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	✳	02/24/22 19:39	02/25/22 13:42	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	✳	02/24/22 19:39	02/25/22 13:42	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B24 (0-4)D

Lab Sample ID: 500-212441-4

Date Collected: 02/15/22 21:55

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
Hexachlorobutadiene	<0.19	+	0.19	0.058	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
2,4,6-Trichlorophenol	<0.37	+	0.37	0.13	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
2,4,5-Trichlorophenol	<0.37	+	0.37	0.085	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
2-Methylnaphthalene	0.0091	J	0.075	0.0068	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
4-Bromophenyl phenyl ether	<0.19	+	0.19	0.049	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
4-Chlorophenyl phenyl ether	<0.19	+	0.19	0.043	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
Phenanthrene	0.031	J	0.037	0.0052	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
Pyrene	0.012	J	0.037	0.0074	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	02/24/22 19:39	02/25/22 13:42	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B24 (0-4)D

Lab Sample ID: 500-212441-4

Date Collected: 02/15/22 21:55

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.016	J	0.037	0.010	mg/Kg	✱	02/24/22 19:39	02/25/22 13:42	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	✱	02/24/22 19:39	02/25/22 13:42	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	✱	02/24/22 19:39	02/25/22 13:42	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	✱	02/24/22 19:39	02/25/22 13:42	1
Benzo[b]fluoranthene	0.0082	J	0.037	0.0080	mg/Kg	✱	02/24/22 19:39	02/25/22 13:42	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	✱	02/24/22 19:39	02/25/22 13:42	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	✱	02/24/22 19:39	02/25/22 13:42	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	✱	02/24/22 19:39	02/25/22 13:42	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	✱	02/24/22 19:39	02/25/22 13:42	1
Benzo[g,h,i]perylene	0.016	J	0.037	0.012	mg/Kg	✱	02/24/22 19:39	02/25/22 13:42	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	✱	02/24/22 19:39	02/25/22 13:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	88		31 - 166	02/24/22 19:39	02/25/22 13:42	1
Phenol-d5	82		30 - 153	02/24/22 19:39	02/25/22 13:42	1
Nitrobenzene-d5 (Surr)	89		37 - 147	02/24/22 19:39	02/25/22 13:42	1
2-Fluorobiphenyl (Surr)	102		43 - 145	02/24/22 19:39	02/25/22 13:42	1
2,4,6-Tribromophenol	116		31 - 143	02/24/22 19:39	02/25/22 13:42	1
Terphenyl-d14 (Surr)	89		42 - 157	02/24/22 19:39	02/25/22 13:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J	1.1	0.21	mg/Kg	✱	02/26/22 05:00	02/27/22 15:56	1
Arsenic	9.7		0.54	0.18	mg/Kg	✱	02/26/22 05:00	02/27/22 15:56	1
Barium	28		0.54	0.061	mg/Kg	✱	02/26/22 05:00	02/28/22 21:58	1
Beryllium	0.49		0.21	0.050	mg/Kg	✱	02/26/22 05:00	02/28/22 21:58	1
Boron	5.4		2.7	0.25	mg/Kg	✱	02/26/22 05:00	02/27/22 15:56	1
Cadmium	0.060	J B	0.11	0.019	mg/Kg	✱	02/26/22 05:00	02/27/22 15:56	1
Calcium	77000	B	54	9.1	mg/Kg	✱	02/26/22 05:00	02/28/22 22:02	5
Chromium	8.5	B	0.54	0.27	mg/Kg	✱	02/26/22 05:00	02/28/22 21:58	1
Cobalt	8.3		0.27	0.070	mg/Kg	✱	02/26/22 05:00	02/27/22 15:56	1
Copper	19		0.54	0.15	mg/Kg	✱	02/26/22 05:00	02/27/22 15:56	1
Iron	17000	B	11	5.6	mg/Kg	✱	02/26/22 05:00	02/28/22 21:58	1
Lead	13		0.27	0.12	mg/Kg	✱	02/26/22 05:00	02/27/22 15:56	1
Magnesium	32000		5.4	2.7	mg/Kg	✱	02/26/22 05:00	02/28/22 21:58	1
Manganese	370	B	0.54	0.078	mg/Kg	✱	02/26/22 05:00	02/28/22 21:58	1
Nickel	21	B	0.54	0.16	mg/Kg	✱	02/26/22 05:00	02/27/22 15:56	1
Potassium	970		27	9.5	mg/Kg	✱	02/26/22 05:00	02/28/22 21:58	1
Selenium	<0.54		0.54	0.32	mg/Kg	✱	02/26/22 05:00	02/27/22 15:56	1
Silver	0.096	J	0.27	0.069	mg/Kg	✱	02/26/22 05:00	02/27/22 15:56	1
Sodium	780		54	7.9	mg/Kg	✱	02/26/22 05:00	02/28/22 21:58	1
Thallium	0.51	J	0.54	0.27	mg/Kg	✱	02/26/22 05:00	02/27/22 15:56	1
Vanadium	12		0.27	0.063	mg/Kg	✱	02/26/22 05:00	02/27/22 15:56	1
Zinc	68		1.1	0.47	mg/Kg	✱	02/26/22 05:00	02/27/22 15:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.52		0.50	0.050	mg/L		02/26/22 04:30	02/27/22 20:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/26/22 04:30	02/27/22 20:00	1
Boron	0.052	J	0.50	0.050	mg/L		02/26/22 04:30	02/27/22 20:00	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B24 (0-4)D

Lab Sample ID: 500-212441-4

Date Collected: 02/15/22 21:55

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0020	J	0.0050	0.0020	mg/L	-	02/26/22 04:30	02/27/22 20:00	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/26/22 04:30	02/27/22 20:00	1
Cobalt	0.014	J	0.025	0.010	mg/L	-	02/26/22 04:30	02/27/22 20:00	1
Iron	<0.40		0.40	0.20	mg/L	-	02/26/22 04:30	02/27/22 20:00	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/26/22 04:30	02/27/22 20:00	1
Manganese	6.1		0.025	0.010	mg/L	-	02/26/22 04:30	02/27/22 20:00	1
Nickel	0.017	J	0.025	0.010	mg/L	-	02/26/22 04:30	02/27/22 20:00	1
Selenium	<0.050	*+	0.050	0.020	mg/L	-	02/26/22 04:30	02/27/22 20:00	1
Silver	<0.025		0.025	0.010	mg/L	-	02/26/22 04:30	02/27/22 20:00	1
Zinc	<0.50		0.50	0.020	mg/L	-	02/26/22 04:30	02/27/22 20:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.5	B	0.025	0.010	mg/L	-	02/27/22 08:00	02/28/22 16:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/26/22 04:30	02/28/22 12:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/26/22 04:30	02/28/22 12:27	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/28/22 14:20	03/01/22 15:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.018	0.0059	mg/Kg	☆	03/01/22 14:00	03/02/22 09:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.5	HF	0.2	0.2	SU	-		02/24/22 05:41	1

Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B22 (0-2.6)

Lab Sample ID: 500-212441-6

Date Collected: 02/15/22 22:12

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0083	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
Carbon disulfide	<0.0047		0.0047	0.00099	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
1,2-Dichloropropene	<0.0019		0.0019	0.00049	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
Vinyl acetate	<0.0047		0.0047	0.0016	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	✱	02/16/22 17:25	02/25/22 14:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		75 - 131	02/16/22 17:25	02/25/22 14:50	1
Dibromofluoromethane	120		75 - 126	02/16/22 17:25	02/25/22 14:50	1
1,2-Dichloroethane-d4 (Surr)	118		70 - 134	02/16/22 17:25	02/25/22 14:50	1
Toluene-d8 (Surr)	112		75 - 124	02/16/22 17:25	02/25/22 14:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	✱	02/24/22 19:39	02/25/22 14:25	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	✱	02/24/22 19:39	02/25/22 14:25	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	✱	02/24/22 19:39	02/25/22 14:25	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	✱	02/24/22 19:39	02/25/22 14:25	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B22 (0-2.6)

Lab Sample ID: 500-212441-6

Date Collected: 02/15/22 22:12

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
Hexachlorobutadiene	<0.19	*+	0.19	0.061	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
Naphthalene	0.0087	J	0.038	0.0060	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
2,4,6-Trichlorophenol	<0.38	*+	0.38	0.13	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
2,4,5-Trichlorophenol	<0.38	*+	0.38	0.088	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
2-Methylnaphthalene	0.0078	J	0.078	0.0071	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
Acenaphthylene	0.0075	J	0.038	0.0051	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
Acenaphthene	0.0080	J	0.038	0.0070	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
Fluorene	0.0075	J	0.038	0.0054	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
4-Bromophenyl phenyl ether	<0.19	*+	0.19	0.051	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
4-Chlorophenyl phenyl ether	<0.19	*+	0.19	0.045	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
Phenanthrene	0.16		0.038	0.0054	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
Anthracene	0.028	J	0.038	0.0065	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
Fluoranthene	0.41		0.038	0.0072	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
Pyrene	0.31		0.038	0.0077	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1
Benzo[a]anthracene	0.15		0.038	0.0052	mg/Kg	☼	02/24/22 19:39	02/25/22 14:25	1

Eurofins Chicago

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B22 (0-2.6)

Lab Sample ID: 500-212441-6

Date Collected: 02/15/22 22:12

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.21		0.038	0.011	mg/Kg	✳	02/24/22 19:39	02/25/22 14:25	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	✳	02/24/22 19:39	02/25/22 14:25	1
Bis(2-ethylhexyl) phthalate	0.096	J	0.19	0.071	mg/Kg	✳	02/24/22 19:39	02/25/22 14:25	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	✳	02/24/22 19:39	02/25/22 14:25	1
Benzo[b]fluoranthene	0.33		0.038	0.0084	mg/Kg	✳	02/24/22 19:39	02/25/22 14:25	1
Benzo[k]fluoranthene	0.12		0.038	0.011	mg/Kg	✳	02/24/22 19:39	02/25/22 14:25	1
Benzo[a]pyrene	0.21		0.038	0.0075	mg/Kg	✳	02/24/22 19:39	02/25/22 14:25	1
Indeno[1,2,3-cd]pyrene	0.11		0.038	0.010	mg/Kg	✳	02/24/22 19:39	02/25/22 14:25	1
Dibenz(a,h)anthracene	0.034	J	0.038	0.0075	mg/Kg	✳	02/24/22 19:39	02/25/22 14:25	1
Benzo[g,h,i]perylene	0.12		0.038	0.012	mg/Kg	✳	02/24/22 19:39	02/25/22 14:25	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	✳	02/24/22 19:39	02/25/22 14:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	81		31 - 166				02/24/22 19:39	02/25/22 14:25	1
Phenol-d5	75		30 - 153				02/24/22 19:39	02/25/22 14:25	1
Nitrobenzene-d5 (Surr)	79		37 - 147				02/24/22 19:39	02/25/22 14:25	1
2-Fluorobiphenyl (Surr)	89		43 - 145				02/24/22 19:39	02/25/22 14:25	1
2,4,6-Tribromophenol	109		31 - 143				02/24/22 19:39	02/25/22 14:25	1
Terphenyl-d14 (Surr)	89		42 - 157				02/24/22 19:39	02/25/22 14:25	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.66	J	1.1	0.22	mg/Kg	✳	02/26/22 05:00	02/27/22 16:09	1
Arsenic	8.3		0.57	0.20	mg/Kg	✳	02/26/22 05:00	02/27/22 16:09	1
Barium	80		0.57	0.065	mg/Kg	✳	02/26/22 05:00	02/28/22 22:18	1
Beryllium	0.60		0.23	0.054	mg/Kg	✳	02/26/22 05:00	02/28/22 22:18	1
Boron	3.6		2.9	0.27	mg/Kg	✳	02/26/22 05:00	02/27/22 16:09	1
Cadmium	0.24	B	0.11	0.021	mg/Kg	✳	02/26/22 05:00	02/27/22 16:09	1
Calcium	28000	B	11	1.9	mg/Kg	✳	02/26/22 05:00	02/28/22 22:18	1
Chromium	16	B	0.57	0.28	mg/Kg	✳	02/26/22 05:00	02/28/22 22:18	1
Cobalt	7.3		0.29	0.075	mg/Kg	✳	02/26/22 05:00	02/27/22 16:09	1
Copper	29		0.57	0.16	mg/Kg	✳	02/26/22 05:00	02/27/22 16:09	1
Iron	18000	B	11	6.0	mg/Kg	✳	02/26/22 05:00	02/28/22 22:18	1
Lead	100		0.29	0.13	mg/Kg	✳	02/26/22 05:00	02/27/22 16:09	1
Magnesium	16000		5.7	2.8	mg/Kg	✳	02/26/22 05:00	02/28/22 22:18	1
Manganese	480	B	0.57	0.083	mg/Kg	✳	02/26/22 05:00	02/28/22 22:18	1
Nickel	17	B	0.57	0.17	mg/Kg	✳	02/26/22 05:00	02/27/22 16:09	1
Potassium	760		29	10	mg/Kg	✳	02/26/22 05:00	02/28/22 22:18	1
Selenium	<0.57		0.57	0.34	mg/Kg	✳	02/26/22 05:00	02/27/22 16:09	1
Silver	0.096	J	0.29	0.074	mg/Kg	✳	02/26/22 05:00	02/27/22 16:09	1
Sodium	1400		57	8.5	mg/Kg	✳	02/26/22 05:00	02/28/22 22:18	1
Thallium	0.32	J	0.57	0.29	mg/Kg	✳	02/26/22 05:00	02/27/22 16:09	1
Vanadium	18		0.29	0.068	mg/Kg	✳	02/26/22 05:00	02/27/22 16:09	1
Zinc	130		1.1	0.50	mg/Kg	✳	02/26/22 05:00	02/27/22 16:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.51		0.50	0.050	mg/L		02/26/22 04:30	02/27/22 20:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/26/22 04:30	02/27/22 20:24	1
Boron	0.088	J	0.50	0.050	mg/L		02/26/22 04:30	02/27/22 20:24	1

Eurofins Chicago

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B22 (0-2.6)

Lab Sample ID: 500-212441-6

Date Collected: 02/15/22 22:12

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0027	J	0.0050	0.0020	mg/L	-	02/26/22 04:30	02/27/22 20:24	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/26/22 04:30	02/27/22 20:24	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/26/22 04:30	02/27/22 20:24	1
Iron	<0.40		0.40	0.20	mg/L	-	02/26/22 04:30	02/27/22 20:24	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/26/22 04:30	02/27/22 20:24	1
Manganese	1.2		0.025	0.010	mg/L	-	02/26/22 04:30	02/27/22 20:24	1
Nickel	<0.025		0.025	0.010	mg/L	-	02/26/22 04:30	02/27/22 20:24	1
Selenium	<0.050	*+	0.050	0.020	mg/L	-	02/26/22 04:30	02/27/22 20:24	1
Silver	<0.025		0.025	0.010	mg/L	-	02/26/22 04:30	02/27/22 20:24	1
Zinc	0.23	J	0.50	0.020	mg/L	-	02/26/22 04:30	02/27/22 20:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.2	B	0.025	0.010	mg/L	-	02/27/22 08:00	02/28/22 17:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/26/22 04:30	02/28/22 12:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/26/22 04:30	02/28/22 12:42	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/28/22 14:20	03/01/22 16:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.018	0.0059	mg/Kg	☆	03/01/22 14:00	03/02/22 09:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0	HF	0.2	0.2	SU	-		02/24/22 05:46	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B21 (0-2.9)

Lab Sample ID: 500-212441-7

Date Collected: 02/15/22 22:20

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0090	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
Benzene	<0.0021		0.0021	0.00053	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
Bromodichloromethane	<0.0021		0.0021	0.00042	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
Bromoform	<0.0021		0.0021	0.00060	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
Bromomethane	<0.0052		0.0052	0.0019	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
2-Butanone (MEK)	<0.0052		0.0052	0.0023	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
Carbon disulfide	<0.0052		0.0052	0.0011	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
Carbon tetrachloride	<0.0021		0.0021	0.00060	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
Chlorobenzene	<0.0021		0.0021	0.00076	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
Chloroethane	<0.0052		0.0052	0.0015	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
Chloroform	<0.0021		0.0021	0.00072	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
Chloromethane	<0.0052		0.0052	0.0021	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00058	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00062	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
Dibromochloromethane	<0.0021		0.0021	0.00067	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
1,1-Dichloroethane	<0.0021		0.0021	0.00071	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
1,2-Dichloroethane	<0.0052		0.0052	0.0016	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
1,1-Dichloroethene	<0.0021		0.0021	0.00071	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
1,2-Dichloropropene	<0.0021		0.0021	0.00053	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00072	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
Ethylbenzene	<0.0021		0.0021	0.00099	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
Methylene Chloride	<0.0052		0.0052	0.0020	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0015	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00061	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
Styrene	<0.0021		0.0021	0.00062	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00066	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
Tetrachloroethene	<0.0021		0.0021	0.00070	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
Toluene	<0.0021		0.0021	0.00052	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00091	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00072	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00069	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00088	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
Trichloroethene	<0.0021		0.0021	0.00070	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
Vinyl acetate	<0.0052		0.0052	0.0018	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
Vinyl chloride	<0.0021		0.0021	0.00091	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1
Xylenes, Total	<0.0041		0.0041	0.00066	mg/Kg	✳	02/16/22 17:25	02/25/22 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		75 - 131	02/16/22 17:25	02/25/22 15:16	1
Dibromofluoromethane	119		75 - 126	02/16/22 17:25	02/25/22 15:16	1
1,2-Dichloroethane-d4 (Surr)	119		70 - 134	02/16/22 17:25	02/25/22 15:16	1
Toluene-d8 (Surr)	113		75 - 124	02/16/22 17:25	02/25/22 15:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	✳	02/24/22 19:39	02/25/22 14:47	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	✳	02/24/22 19:39	02/25/22 14:47	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	✳	02/24/22 19:39	02/25/22 14:47	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	✳	02/24/22 19:39	02/25/22 14:47	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B21 (0-2.9)

Lab Sample ID: 500-212441-7

Date Collected: 02/15/22 22:20

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
Hexachlorobutadiene	<0.19	*+	0.19	0.060	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
Naphthalene	0.012	J	0.038	0.0059	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
2,4,6-Trichlorophenol	<0.38	*+	0.38	0.13	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
2,4,5-Trichlorophenol	<0.38	*+	0.38	0.087	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
2-Methylnaphthalene	0.026	J	0.077	0.0070	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
Acenaphthylene	0.0089	J	0.038	0.0050	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
4-Bromophenyl phenyl ether	<0.19	*+	0.19	0.050	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
4-Chlorophenyl phenyl ether	<0.19	*+	0.19	0.045	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
Phenanthrene	0.12		0.038	0.0053	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
Anthracene	0.017	J	0.038	0.0064	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
Fluoranthene	0.16		0.038	0.0071	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
Pyrene	0.15		0.038	0.0076	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
Benzo[a]anthracene	0.090		0.038	0.0051	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B21 (0-2.9)

Lab Sample ID: 500-212441-7

Date Collected: 02/15/22 22:20

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.11		0.038	0.010	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
Benzo[b]fluoranthene	0.17		0.038	0.0082	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
Benzo[k]fluoranthene	0.058		0.038	0.011	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
Benzo[a]pyrene	0.14		0.038	0.0074	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
Indeno[1,2,3-cd]pyrene	0.069		0.038	0.0099	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
Dibenz(a,h)anthracene	0.021 J		0.038	0.0074	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
Benzo[g,h,i]perylene	0.071		0.038	0.012	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/24/22 19:39	02/25/22 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	73		31 - 166	02/24/22 19:39	02/25/22 14:47	1
Phenol-d5	68		30 - 153	02/24/22 19:39	02/25/22 14:47	1
Nitrobenzene-d5 (Surr)	66		37 - 147	02/24/22 19:39	02/25/22 14:47	1
2-Fluorobiphenyl (Surr)	78		43 - 145	02/24/22 19:39	02/25/22 14:47	1
2,4,6-Tribromophenol	96		31 - 143	02/24/22 19:39	02/25/22 14:47	1
Terphenyl-d14 (Surr)	84		42 - 157	02/24/22 19:39	02/25/22 14:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44 J		1.1	0.22	mg/Kg	☼	02/26/22 05:00	02/27/22 16:12	1
Arsenic	12		0.56	0.19	mg/Kg	☼	02/26/22 05:00	02/27/22 16:12	1
Barium	57		0.56	0.064	mg/Kg	☼	02/26/22 05:00	02/28/22 22:25	1
Beryllium	0.82		0.23	0.053	mg/Kg	☼	02/26/22 05:00	02/28/22 22:25	1
Boron	11		2.8	0.26	mg/Kg	☼	02/26/22 05:00	02/27/22 16:12	1
Cadmium	0.39 B		0.11	0.020	mg/Kg	☼	02/26/22 05:00	02/27/22 16:12	1
Calcium	73000 B		56	9.6	mg/Kg	☼	02/26/22 05:00	02/28/22 22:28	5
Chromium	10 B		0.56	0.28	mg/Kg	☼	02/26/22 05:00	02/28/22 22:25	1
Cobalt	6.6		0.28	0.074	mg/Kg	☼	02/26/22 05:00	02/27/22 16:12	1
Copper	25		0.56	0.16	mg/Kg	☼	02/26/22 05:00	02/27/22 16:12	1
Iron	15000 B		11	5.9	mg/Kg	☼	02/26/22 05:00	02/28/22 22:25	1
Lead	130		0.28	0.13	mg/Kg	☼	02/26/22 05:00	02/27/22 16:12	1
Magnesium	26000		5.6	2.8	mg/Kg	☼	02/26/22 05:00	02/28/22 22:25	1
Manganese	410 B		0.56	0.082	mg/Kg	☼	02/26/22 05:00	02/28/22 22:25	1
Nickel	16 B		0.56	0.16	mg/Kg	☼	02/26/22 05:00	02/27/22 16:12	1
Potassium	900		28	10	mg/Kg	☼	02/26/22 05:00	02/28/22 22:25	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	02/26/22 05:00	02/27/22 16:12	1
Silver	0.091 J		0.28	0.073	mg/Kg	☼	02/26/22 05:00	02/27/22 16:12	1
Sodium	1600		56	8.4	mg/Kg	☼	02/26/22 05:00	02/28/22 22:25	1
Thallium	0.28 J		0.56	0.28	mg/Kg	☼	02/26/22 05:00	02/27/22 16:12	1
Vanadium	16		0.28	0.067	mg/Kg	☼	02/26/22 05:00	02/27/22 16:12	1
Zinc	120		1.1	0.50	mg/Kg	☼	02/26/22 05:00	02/27/22 16:12	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.37 J		0.50	0.050	mg/L		02/26/22 04:30	02/27/22 20:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/26/22 04:30	02/27/22 20:27	1
Boron	0.097 J		0.50	0.050	mg/L		02/26/22 04:30	02/27/22 20:27	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B21 (0-2.9)

Lab Sample ID: 500-212441-7

Date Collected: 02/15/22 22:20

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0028	J	0.0050	0.0020	mg/L		02/26/22 04:30	02/27/22 20:27	1
Chromium	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 20:27	1
Cobalt	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 20:27	1
Iron	<0.40		0.40	0.20	mg/L		02/26/22 04:30	02/27/22 20:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/26/22 04:30	02/27/22 20:27	1
Manganese	0.88		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 20:27	1
Nickel	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 20:27	1
Selenium	<0.050	*+	0.050	0.020	mg/L		02/26/22 04:30	02/27/22 20:27	1
Silver	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 20:27	1
Zinc	0.074	J	0.50	0.020	mg/L		02/26/22 04:30	02/27/22 20:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.7	B	0.025	0.010	mg/L		02/27/22 08:00	02/28/22 17:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/26/22 04:30	02/28/22 12:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/26/22 04:30	02/28/22 12:44	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 16:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.088		0.017	0.0057	mg/Kg	☆	03/01/22 14:00	03/02/22 09:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2	HF	0.2	0.2	SU			02/24/22 05:49	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B11 (0-3)

Lab Sample ID: 500-212441-14

Date Collected: 02/16/22 00:00

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0072	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
Benzene	<0.0017		0.0017	0.00042	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
2-Butanone (MEK)	<0.0042		0.0042	0.0018	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
Carbon disulfide	<0.0042		0.0042	0.00086	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
Chlorobenzene	<0.0017		0.0017	0.00061	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00046	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00058	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
Ethylbenzene	<0.0017		0.0017	0.00079	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
Methylene Chloride	<0.0042		0.0042	0.0016	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00058	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00071	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
Vinyl acetate	<0.0042		0.0042	0.0014	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	✱	02/16/22 17:25	02/25/22 18:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		75 - 131	02/16/22 17:25	02/25/22 18:23	1
Dibromofluoromethane	122		75 - 126	02/16/22 17:25	02/25/22 18:23	1
1,2-Dichloroethane-d4 (Surr)	125		70 - 134	02/16/22 17:25	02/25/22 18:23	1
Toluene-d8 (Surr)	111		75 - 124	02/16/22 17:25	02/25/22 18:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	✱	02/24/22 19:39	02/28/22 14:54	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	✱	02/24/22 19:39	02/28/22 14:54	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	✱	02/24/22 19:39	02/28/22 14:54	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	✱	02/24/22 19:39	02/28/22 14:54	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B11 (0-3)

Lab Sample ID: 500-212441-14

Date Collected: 02/16/22 00:00

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.048	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
Hexachlorobutadiene	<0.20	*+	0.20	0.061	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
Naphthalene	0.0077	J	0.039	0.0060	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
2,4,6-Trichlorophenol	<0.39	*+	0.39	0.13	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
2,4,5-Trichlorophenol	<0.39	*+	0.39	0.089	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
2-Methylnaphthalene	0.0097	J	0.078	0.0071	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
Acenaphthylene	0.0086	J	0.039	0.0051	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
Acenaphthene	0.014	J	0.039	0.0070	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
Fluorene	0.010	J	0.039	0.0055	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
4-Bromophenyl phenyl ether	<0.20	*+	0.20	0.051	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
4-Chlorophenyl phenyl ether	<0.20	*+	0.20	0.045	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
Phenanthrene	0.089		0.039	0.0054	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
Anthracene	0.025	J	0.039	0.0065	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
Fluoranthene	0.18		0.039	0.0072	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
Pyrene	0.21		0.039	0.0077	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1
Benzo[a]anthracene	0.099		0.039	0.0052	mg/Kg	☼	02/24/22 19:39	02/28/22 14:54	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B11 (0-3)

Lab Sample ID: 500-212441-14

Date Collected: 02/16/22 00:00

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.12		0.039	0.011	mg/Kg	✳	02/24/22 19:39	02/28/22 14:54	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	✳	02/24/22 19:39	02/28/22 14:54	1
Bis(2-ethylhexyl) phthalate	0.095	J	0.20	0.071	mg/Kg	✳	02/24/22 19:39	02/28/22 14:54	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	✳	02/24/22 19:39	02/28/22 14:54	1
Benzo[b]fluoranthene	0.21	*3	0.039	0.0084	mg/Kg	✳	02/24/22 19:39	02/28/22 14:54	1
Benzo[k]fluoranthene	0.085	*3	0.039	0.011	mg/Kg	✳	02/24/22 19:39	02/28/22 14:54	1
Benzo[a]pyrene	0.13	*3	0.039	0.0075	mg/Kg	✳	02/24/22 19:39	02/28/22 14:54	1
Indeno[1,2,3-cd]pyrene	0.059	*3	0.039	0.010	mg/Kg	✳	02/24/22 19:39	02/28/22 14:54	1
Dibenz(a,h)anthracene	<0.039	*3	0.039	0.0075	mg/Kg	✳	02/24/22 19:39	02/28/22 14:54	1
Benzo[g,h,i]perylene	0.062	*3	0.039	0.013	mg/Kg	✳	02/24/22 19:39	02/28/22 14:54	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	✳	02/24/22 19:39	02/28/22 14:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	103		31 - 166				02/24/22 19:39	02/28/22 14:54	1
Phenol-d5	110		30 - 153				02/24/22 19:39	02/28/22 14:54	1
Nitrobenzene-d5 (Surr)	67		37 - 147				02/24/22 19:39	02/28/22 14:54	1
2-Fluorobiphenyl (Surr)	77		43 - 145				02/24/22 19:39	02/28/22 14:54	1
2,4,6-Tribromophenol	73		31 - 143				02/24/22 19:39	02/28/22 14:54	1
Terphenyl-d14 (Surr)	106		42 - 157				02/24/22 19:39	02/28/22 14:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.38	J	1.1	0.21	mg/Kg	✳	02/26/22 05:00	02/27/22 16:34	1
Arsenic	9.2		0.55	0.19	mg/Kg	✳	02/26/22 05:00	02/27/22 16:34	1
Barium	48		0.55	0.062	mg/Kg	✳	02/26/22 05:00	02/28/22 23:22	1
Beryllium	0.62		0.22	0.051	mg/Kg	✳	02/26/22 05:00	02/28/22 23:22	1
Boron	3.7		2.7	0.25	mg/Kg	✳	02/26/22 05:00	02/27/22 16:34	1
Cadmium	0.086	J B	0.11	0.020	mg/Kg	✳	02/26/22 05:00	02/27/22 16:34	1
Calcium	50000	B	55	9.3	mg/Kg	✳	02/26/22 05:00	02/28/22 23:25	5
Chromium	9.6	B	0.55	0.27	mg/Kg	✳	02/26/22 05:00	02/28/22 23:22	1
Cobalt	9.6		0.27	0.072	mg/Kg	✳	02/26/22 05:00	02/27/22 16:34	1
Copper	15		0.55	0.15	mg/Kg	✳	02/26/22 05:00	02/27/22 16:34	1
Iron	17000	B	11	5.7	mg/Kg	✳	02/26/22 05:00	02/28/22 23:22	1
Lead	32		0.27	0.13	mg/Kg	✳	02/26/22 05:00	02/27/22 16:34	1
Magnesium	19000		5.5	2.7	mg/Kg	✳	02/26/22 05:00	02/28/22 23:22	1
Manganese	480	B	0.55	0.079	mg/Kg	✳	02/26/22 05:00	02/28/22 23:22	1
Nickel	20	B	0.55	0.16	mg/Kg	✳	02/26/22 05:00	02/27/22 16:34	1
Potassium	800		27	9.7	mg/Kg	✳	02/26/22 05:00	02/28/22 23:22	1
Selenium	<0.55		0.55	0.32	mg/Kg	✳	02/26/22 05:00	02/27/22 16:34	1
Silver	0.10	J	0.27	0.070	mg/Kg	✳	02/26/22 05:00	02/27/22 16:34	1
Sodium	1900		55	8.1	mg/Kg	✳	02/26/22 05:00	02/28/22 23:22	1
Thallium	0.27	J	0.55	0.27	mg/Kg	✳	02/26/22 05:00	02/27/22 16:34	1
Vanadium	16		0.27	0.064	mg/Kg	✳	02/26/22 05:00	02/27/22 16:34	1
Zinc	74		1.1	0.48	mg/Kg	✳	02/26/22 05:00	02/27/22 16:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.31	J	0.50	0.050	mg/L		02/26/22 04:30	02/27/22 20:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/26/22 04:30	02/27/22 20:51	1
Boron	0.061	J	0.50	0.050	mg/L		02/26/22 04:30	02/27/22 20:51	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B11 (0-3)

Lab Sample ID: 500-212441-14

Date Collected: 02/16/22 00:00

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/26/22 04:30	02/27/22 20:51	1
Chromium	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 20:51	1
Cobalt	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 20:51	1
Iron	<0.40		0.40	0.20	mg/L		02/26/22 04:30	02/27/22 20:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/26/22 04:30	02/27/22 20:51	1
Manganese	0.47		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 20:51	1
Nickel	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 20:51	1
Selenium	<0.050	*+	0.050	0.020	mg/L		02/26/22 04:30	02/27/22 20:51	1
Silver	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 20:51	1
Zinc	0.11	J	0.50	0.020	mg/L		02/26/22 04:30	02/27/22 20:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.0	B	0.025	0.010	mg/L		02/27/22 08:00	02/28/22 17:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/26/22 04:30	02/28/22 12:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/26/22 04:30	02/28/22 12:58	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 16:29	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.018	0.0059	mg/Kg	☆	03/01/22 14:00	03/02/22 10:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9		0.2	0.2	SU			02/22/22 20:35	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B11 (3-6.3)

Lab Sample ID: 500-212441-15

Date Collected: 02/16/22 00:03

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.14		0.023	0.010	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
Benzene	<0.0023		0.0023	0.00059	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
Bromodichloromethane	<0.0023		0.0023	0.00047	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
Bromoform	<0.0023		0.0023	0.00067	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
Bromomethane	<0.0057		0.0057	0.0022	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
2-Butanone (MEK)	0.024		0.0057	0.0025	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
Carbon disulfide	<0.0057		0.0057	0.0012	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
Carbon tetrachloride	<0.0023		0.0023	0.00067	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
Chlorobenzene	<0.0023		0.0023	0.00085	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
Chloroethane	<0.0057		0.0057	0.0017	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
Chloroform	<0.0023		0.0023	0.00080	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
Chloromethane	<0.0057		0.0057	0.0023	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
cis-1,2-Dichloroethene	<0.0023		0.0023	0.00064	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
cis-1,3-Dichloropropene	<0.0023		0.0023	0.00069	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
Dibromochloromethane	<0.0023		0.0023	0.00075	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
1,1-Dichloroethane	<0.0023		0.0023	0.00079	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
1,2-Dichloroethane	<0.0057		0.0057	0.0018	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
1,1-Dichloroethene	<0.0023		0.0023	0.00079	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
1,2-Dichloropropene	<0.0023		0.0023	0.00059	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
1,3-Dichloropropene, Total	<0.0023		0.0023	0.00081	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
Ethylbenzene	<0.0023		0.0023	0.0011	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
2-Hexanone	<0.0057		0.0057	0.0018	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
Methylene Chloride	<0.0057		0.0057	0.0023	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
4-Methyl-2-pentanone (MIBK)	<0.0057		0.0057	0.0017	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
Methyl tert-butyl ether	<0.0023		0.0023	0.00067	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
Styrene	<0.0023		0.0023	0.00069	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
1,1,2,2-Tetrachloroethane	<0.0023		0.0023	0.00073	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
Tetrachloroethene	<0.0023		0.0023	0.00078	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
Toluene	<0.0023		0.0023	0.00058	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
trans-1,2-Dichloroethene	<0.0023		0.0023	0.0010	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
trans-1,3-Dichloropropene	<0.0023		0.0023	0.00081	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
1,1,1-Trichloroethane	<0.0023		0.0023	0.00077	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
1,1,2-Trichloroethane	<0.0023		0.0023	0.00098	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
Trichloroethene	<0.0023		0.0023	0.00078	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
Vinyl acetate	<0.0057		0.0057	0.0020	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
Vinyl chloride	<0.0023		0.0023	0.0010	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1
Xylenes, Total	<0.0046		0.0046	0.00073	mg/Kg	☼	02/16/22 17:25	02/25/22 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		75 - 131	02/16/22 17:25	02/25/22 18:50	1
Dibromofluoromethane	118		75 - 126	02/16/22 17:25	02/25/22 18:50	1
1,2-Dichloroethane-d4 (Surr)	121		70 - 134	02/16/22 17:25	02/25/22 18:50	1
Toluene-d8 (Surr)	114		75 - 124	02/16/22 17:25	02/25/22 18:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	02/24/22 19:39	02/28/22 15:18	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/24/22 19:39	02/28/22 15:18	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/24/22 19:39	02/28/22 15:18	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	02/24/22 19:39	02/28/22 15:18	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B11 (3-6.3)

Lab Sample ID: 500-212441-15

Date Collected: 02/16/22 00:03

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
Hexachlorobutadiene	<0.20	*+	0.20	0.063	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
2,4,6-Trichlorophenol	<0.40	*+	0.40	0.14	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
2,4,5-Trichlorophenol	<0.40	*+	0.40	0.092	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
4-Bromophenyl phenyl ether	<0.20	*+	0.20	0.053	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
4-Chlorophenyl phenyl ether	<0.20	*+	0.20	0.047	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
Phenanthrene	0.017	J	0.040	0.0056	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
Fluoranthene	0.035	J	0.040	0.0075	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
Pyrene	0.042		0.040	0.0080	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1
Benzo[a]anthracene	0.018	J	0.040	0.0054	mg/Kg	☆	02/24/22 19:39	02/28/22 15:18	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B11 (3-6.3)

Lab Sample ID: 500-212441-15

Date Collected: 02/16/22 00:03

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.028	J	0.040	0.011	mg/Kg	☼	02/24/22 19:39	02/28/22 15:18	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/24/22 19:39	02/28/22 15:18	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/24/22 19:39	02/28/22 15:18	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/24/22 19:39	02/28/22 15:18	1
Benzo[b]fluoranthene	0.040	*3	0.040	0.0087	mg/Kg	☼	02/24/22 19:39	02/28/22 15:18	1
Benzo[k]fluoranthene	0.018	J *3	0.040	0.012	mg/Kg	☼	02/24/22 19:39	02/28/22 15:18	1
Benzo[a]pyrene	0.025	J *3	0.040	0.0078	mg/Kg	☼	02/24/22 19:39	02/28/22 15:18	1
Indeno[1,2,3-cd]pyrene	0.016	J *3	0.040	0.010	mg/Kg	☼	02/24/22 19:39	02/28/22 15:18	1
Dibenz(a,h)anthracene	<0.040	*3	0.040	0.0078	mg/Kg	☼	02/24/22 19:39	02/28/22 15:18	1
Benzo[g,h,i]perylene	0.017	J *3	0.040	0.013	mg/Kg	☼	02/24/22 19:39	02/28/22 15:18	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/24/22 19:39	02/28/22 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	100		31 - 166	02/24/22 19:39	02/28/22 15:18	1
Phenol-d5	101		30 - 153	02/24/22 19:39	02/28/22 15:18	1
Nitrobenzene-d5 (Surr)	66		37 - 147	02/24/22 19:39	02/28/22 15:18	1
2-Fluorobiphenyl (Surr)	73		43 - 145	02/24/22 19:39	02/28/22 15:18	1
2,4,6-Tribromophenol	72		31 - 143	02/24/22 19:39	02/28/22 15:18	1
Terphenyl-d14 (Surr)	111		42 - 157	02/24/22 19:39	02/28/22 15:18	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.27	J	1.2	0.23	mg/Kg	☼	02/26/22 05:00	02/27/22 16:37	1
Arsenic	5.8		0.60	0.21	mg/Kg	☼	02/26/22 05:00	02/27/22 16:37	1
Barium	37		0.60	0.069	mg/Kg	☼	02/26/22 05:00	02/28/22 23:28	1
Beryllium	0.58		0.24	0.056	mg/Kg	☼	02/26/22 05:00	02/28/22 23:28	1
Boron	4.1		3.0	0.28	mg/Kg	☼	02/26/22 05:00	02/27/22 16:37	1
Cadmium	0.16	B	0.12	0.022	mg/Kg	☼	02/26/22 05:00	02/27/22 16:37	1
Calcium	70000	B	60	10	mg/Kg	☼	02/26/22 05:00	02/28/22 23:32	5
Chromium	12	B	0.60	0.30	mg/Kg	☼	02/26/22 05:00	02/28/22 23:28	1
Cobalt	6.2		0.30	0.079	mg/Kg	☼	02/26/22 05:00	02/27/22 16:37	1
Copper	11		0.60	0.17	mg/Kg	☼	02/26/22 05:00	02/27/22 16:37	1
Iron	12000	B	12	6.3	mg/Kg	☼	02/26/22 05:00	02/28/22 23:28	1
Lead	41		0.30	0.14	mg/Kg	☼	02/26/22 05:00	02/27/22 16:37	1
Magnesium	31000		6.0	3.0	mg/Kg	☼	02/26/22 05:00	02/28/22 23:28	1
Manganese	370	B	0.60	0.087	mg/Kg	☼	02/26/22 05:00	02/28/22 23:28	1
Nickel	20	B	0.60	0.18	mg/Kg	☼	02/26/22 05:00	02/27/22 16:37	1
Potassium	760		30	11	mg/Kg	☼	02/26/22 05:00	02/28/22 23:28	1
Selenium	<0.60		0.60	0.35	mg/Kg	☼	02/26/22 05:00	02/27/22 16:37	1
Silver	<0.30		0.30	0.078	mg/Kg	☼	02/26/22 05:00	02/27/22 16:37	1
Sodium	1200		60	8.9	mg/Kg	☼	02/26/22 05:00	02/28/22 23:28	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	02/26/22 05:00	02/27/22 16:37	1
Vanadium	13		0.30	0.071	mg/Kg	☼	02/26/22 05:00	02/27/22 16:37	1
Zinc	72		1.2	0.53	mg/Kg	☼	02/26/22 05:00	02/27/22 16:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.42	J	0.50	0.050	mg/L		02/26/22 04:30	02/27/22 20:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/26/22 04:30	02/27/22 20:54	1
Boron	0.097	J	0.50	0.050	mg/L		02/26/22 04:30	02/27/22 20:54	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B11 (3-6.3)

Lab Sample ID: 500-212441-15

Date Collected: 02/16/22 00:03

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/26/22 04:30	02/27/22 20:54	1
Chromium	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 20:54	1
Cobalt	0.021	J	0.025	0.010	mg/L		02/26/22 04:30	02/27/22 20:54	1
Iron	<0.40		0.40	0.20	mg/L		02/26/22 04:30	02/27/22 20:54	1
Lead	0.027		0.0075	0.0075	mg/L		02/26/22 04:30	02/27/22 20:54	1
Manganese	7.9		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 20:54	1
Nickel	0.013	J	0.025	0.010	mg/L		02/26/22 04:30	02/27/22 20:54	1
Selenium	0.021	J**	0.050	0.020	mg/L		02/26/22 04:30	02/27/22 20:54	1
Silver	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 20:54	1
Zinc	0.15	J	0.50	0.020	mg/L		02/26/22 04:30	02/27/22 20:54	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.57		0.0075	0.0075	mg/L		02/27/22 08:00	03/01/22 11:50	1
Manganese	1.3	B	0.025	0.010	mg/L		02/27/22 08:00	03/01/22 11:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/26/22 04:30	02/28/22 13:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/26/22 04:30	02/28/22 13:00	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 16:31	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.093		0.018	0.0061	mg/Kg	☼	03/01/22 14:00	03/02/22 10:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.8		0.2	0.2	SU			02/22/22 20:37	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B10 (0-3)

Lab Sample ID: 500-212441-16

Date Collected: 02/16/22 00:15

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0092	J	0.017	0.0075	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
1,2-Dichloropropene	<0.0017		0.0017	0.00045	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1
Xylenes, Total	<0.0035		0.0035	0.00055	mg/Kg	✳	02/16/22 17:25	02/25/22 19:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	75 - 131	02/16/22 17:25	02/25/22 19:17	1
Dibromofluoromethane	122		75 - 126	02/16/22 17:25	02/25/22 19:17	1
1,2-Dichloroethane-d4 (Surr)	128		70 - 134	02/16/22 17:25	02/25/22 19:17	1
Toluene-d8 (Surr)	120		75 - 124	02/16/22 17:25	02/25/22 19:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	✳	02/24/22 19:39	02/25/22 18:45	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	✳	02/24/22 19:39	02/25/22 18:45	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	✳	02/24/22 19:39	02/25/22 18:45	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	✳	02/24/22 19:39	02/25/22 18:45	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B10 (0-3)

Lab Sample ID: 500-212441-16

Date Collected: 02/16/22 00:15

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
Isophorone	<0.19		0.19	0.042	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
Hexachlorobutadiene	<0.19	+	0.19	0.059	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
2,4-Dichlorophenol	<0.37		0.37	0.090	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
2,4,6-Trichlorophenol	<0.37	+	0.37	0.13	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
2,4,5-Trichlorophenol	<0.37	+	0.37	0.086	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
4-Bromophenyl phenyl ether	<0.19	+	0.19	0.050	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
4-Chlorophenyl phenyl ether	<0.19	+	0.19	0.044	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
Phenanthrene	0.026	J	0.037	0.0053	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
Carbazole	<0.19		0.19	0.094	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
Fluoranthene	0.0071	J	0.037	0.0070	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
Pyrene	0.013	J	0.037	0.0075	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	✱	02/24/22 19:39	02/25/22 18:45	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B10 (0-3)

Lab Sample ID: 500-212441-16

Date Collected: 02/16/22 00:15

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.021	J	0.037	0.010	mg/Kg	☼	02/24/22 19:39	02/25/22 18:45	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/24/22 19:39	02/25/22 18:45	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/24/22 19:39	02/25/22 18:45	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/24/22 19:39	02/25/22 18:45	1
Benzo[b]fluoranthene	<0.037	*3	0.037	0.0081	mg/Kg	☼	02/24/22 19:39	02/25/22 18:45	1
Benzo[k]fluoranthene	0.014	J *3	0.037	0.011	mg/Kg	☼	02/24/22 19:39	02/25/22 18:45	1
Benzo[a]pyrene	<0.037	*3	0.037	0.0073	mg/Kg	☼	02/24/22 19:39	02/25/22 18:45	1
Indeno[1,2,3-cd]pyrene	<0.037	*3	0.037	0.0098	mg/Kg	☼	02/24/22 19:39	02/25/22 18:45	1
Dibenz(a,h)anthracene	<0.037	*3	0.037	0.0073	mg/Kg	☼	02/24/22 19:39	02/25/22 18:45	1
Benzo[g,h,i]perylene	<0.037	*3	0.037	0.012	mg/Kg	☼	02/24/22 19:39	02/25/22 18:45	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/24/22 19:39	02/25/22 18:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	83		31 - 166				02/24/22 19:39	02/25/22 18:45	1
Phenol-d5	79		30 - 153				02/24/22 19:39	02/25/22 18:45	1
Nitrobenzene-d5 (Surr)	76		37 - 147				02/24/22 19:39	02/25/22 18:45	1
2-Fluorobiphenyl (Surr)	93		43 - 145				02/24/22 19:39	02/25/22 18:45	1
2,4,6-Tribromophenol	121		31 - 143				02/24/22 19:39	02/25/22 18:45	1
Terphenyl-d14 (Surr)	130		42 - 157				02/24/22 19:39	02/25/22 18:45	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J	1.1	0.21	mg/Kg	☼	02/26/22 05:00	02/27/22 16:47	1
Arsenic	12		0.54	0.18	mg/Kg	☼	02/26/22 05:00	02/27/22 16:47	1
Barium	32		0.54	0.062	mg/Kg	☼	02/26/22 05:00	02/28/22 23:45	1
Beryllium	0.47		0.22	0.050	mg/Kg	☼	02/26/22 05:00	02/28/22 23:45	1
Boron	5.1		2.7	0.25	mg/Kg	☼	02/26/22 05:00	02/27/22 16:47	1
Cadmium	0.066	J B	0.11	0.019	mg/Kg	☼	02/26/22 05:00	02/27/22 16:47	1
Calcium	62000	B	54	9.2	mg/Kg	☼	02/26/22 05:00	02/28/22 23:49	5
Chromium	9.9	B	0.54	0.27	mg/Kg	☼	02/26/22 05:00	02/28/22 23:45	1
Cobalt	10		0.27	0.071	mg/Kg	☼	02/26/22 05:00	02/27/22 16:47	1
Copper	18		0.54	0.15	mg/Kg	☼	02/26/22 05:00	02/27/22 16:47	1
Iron	14000	B	11	5.6	mg/Kg	☼	02/26/22 05:00	02/28/22 23:45	1
Lead	12		0.27	0.12	mg/Kg	☼	02/26/22 05:00	02/27/22 16:47	1
Magnesium	21000		5.4	2.7	mg/Kg	☼	02/26/22 05:00	02/28/22 23:45	1
Manganese	310	B	0.54	0.078	mg/Kg	☼	02/26/22 05:00	02/28/22 23:45	1
Nickel	23	B	0.54	0.16	mg/Kg	☼	02/26/22 05:00	02/27/22 16:47	1
Potassium	1100		27	9.6	mg/Kg	☼	02/26/22 05:00	02/28/22 23:45	1
Selenium	<0.54		0.54	0.32	mg/Kg	☼	02/26/22 05:00	02/27/22 16:47	1
Silver	<0.27		0.27	0.070	mg/Kg	☼	02/26/22 05:00	02/27/22 16:47	1
Sodium	2200		54	8.0	mg/Kg	☼	02/26/22 05:00	02/28/22 23:45	1
Thallium	0.34	J	0.54	0.27	mg/Kg	☼	02/26/22 05:00	02/27/22 16:47	1
Vanadium	12		0.27	0.064	mg/Kg	☼	02/26/22 05:00	02/27/22 16:47	1
Zinc	48		1.1	0.47	mg/Kg	☼	02/26/22 05:00	02/27/22 16:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.43	J	0.50	0.050	mg/L		02/26/22 04:30	02/27/22 21:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/26/22 04:30	02/27/22 21:04	1
Boron	<0.50		0.50	0.050	mg/L		02/26/22 04:30	02/27/22 21:04	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B10 (0-3)

Lab Sample ID: 500-212441-16

Date Collected: 02/16/22 00:15

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/26/22 04:30	02/27/22 21:04	1
Chromium	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 21:04	1
Cobalt	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 21:04	1
Iron	<0.40		0.40	0.20	mg/L		02/26/22 04:30	02/27/22 21:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/26/22 04:30	02/27/22 21:04	1
Manganese	1.4		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 21:04	1
Nickel	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 21:04	1
Selenium	<0.050	*+	0.050	0.020	mg/L		02/26/22 04:30	02/27/22 21:04	1
Silver	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 21:04	1
Zinc	<0.50		0.50	0.020	mg/L		02/26/22 04:30	02/27/22 21:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.3	B	0.025	0.010	mg/L		02/27/22 08:00	02/28/22 17:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/26/22 04:30	02/28/22 13:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/26/22 04:30	02/28/22 13:06	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 16:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.017	0.0056	mg/Kg	☆	03/01/22 14:00	03/02/22 10:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.8		0.2	0.2	SU			02/22/22 20:40	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B10 (3-6.7)

Lab Sample ID: 500-212441-17

Date Collected: 02/16/22 00:22

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0080	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
1,2-Dichloropropene	<0.0018		0.0018	0.00047	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1
Xylenes, Total	<0.0037		0.0037	0.00058	mg/Kg	✱	02/16/22 17:25	02/25/22 19:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		75 - 131	02/16/22 17:25	02/25/22 19:44	1
Dibromofluoromethane	116		75 - 126	02/16/22 17:25	02/25/22 19:44	1
1,2-Dichloroethane-d4 (Surr)	125		70 - 134	02/16/22 17:25	02/25/22 19:44	1
Toluene-d8 (Surr)	115		75 - 124	02/16/22 17:25	02/25/22 19:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B10 (3-6.7)

Lab Sample ID: 500-212441-17

Date Collected: 02/16/22 00:22

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Isophorone	<0.19		0.19	0.042	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Hexachlorobutadiene	<0.19	*+	0.19	0.059	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
2,4,6-Trichlorophenol	<0.38	*+	0.38	0.13	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
2,4,5-Trichlorophenol	<0.38	*+	0.38	0.086	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
2-Methylnaphthalene	<0.076		0.076	0.0070	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
4-Bromophenyl phenyl ether	<0.19	*+	0.19	0.050	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
4-Chlorophenyl phenyl ether	<0.19	*+	0.19	0.044	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Phenanthrene	0.026	J	0.038	0.0053	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Carbazole	<0.19		0.19	0.094	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Fluoranthene	0.048		0.038	0.0070	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Pyrene	0.060		0.038	0.0075	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Benzo[a]anthracene	0.028	J	0.038	0.0051	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B10 (3-6.7)

Lab Sample ID: 500-212441-17

Date Collected: 02/16/22 00:22

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.035	J	0.038	0.010	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Benzo[b]fluoranthene	0.051		0.038	0.0082	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Benzo[a]pyrene	0.029	J	0.038	0.0073	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Benzo[g,h,i]perylene	0.016	J	0.038	0.012	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	✱	02/24/22 19:39	02/28/22 15:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	137		31 - 166				02/24/22 19:39	02/28/22 15:42	1
Phenol-d5	134		30 - 153				02/24/22 19:39	02/28/22 15:42	1
Nitrobenzene-d5 (Surr)	81		37 - 147				02/24/22 19:39	02/28/22 15:42	1
2-Fluorobiphenyl (Surr)	88		43 - 145				02/24/22 19:39	02/28/22 15:42	1
2,4,6-Tribromophenol	81		31 - 143				02/24/22 19:39	02/28/22 15:42	1
Terphenyl-d14 (Surr)	123		42 - 157				02/24/22 19:39	02/28/22 15:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.27	J	1.0	0.20	mg/Kg	✱	02/26/22 05:00	02/27/22 16:50	1
Arsenic	7.6		0.52	0.18	mg/Kg	✱	02/26/22 05:00	02/27/22 16:50	1
Barium	27		0.52	0.060	mg/Kg	✱	02/26/22 05:00	02/28/22 23:52	1
Beryllium	0.43		0.21	0.049	mg/Kg	✱	02/26/22 05:00	02/28/22 23:52	1
Boron	6.5		2.6	0.24	mg/Kg	✱	02/26/22 05:00	02/27/22 16:50	1
Cadmium	0.25	B	0.10	0.019	mg/Kg	✱	02/26/22 05:00	02/27/22 16:50	1
Calcium	110000	B	52	8.9	mg/Kg	✱	02/26/22 05:00	02/28/22 23:56	5
Chromium	7.0	B	0.52	0.26	mg/Kg	✱	02/26/22 05:00	02/28/22 23:52	1
Cobalt	6.0		0.26	0.069	mg/Kg	✱	02/26/22 05:00	02/27/22 16:50	1
Copper	14		0.52	0.15	mg/Kg	✱	02/26/22 05:00	02/27/22 16:50	1
Iron	17000	B	52	27	mg/Kg	✱	02/26/22 05:00	02/28/22 23:56	5
Lead	46		0.26	0.12	mg/Kg	✱	02/26/22 05:00	02/27/22 16:50	1
Magnesium	62000		26	13	mg/Kg	✱	02/26/22 05:00	02/28/22 23:56	5
Manganese	330	B	0.52	0.076	mg/Kg	✱	02/26/22 05:00	02/28/22 23:52	1
Nickel	14	B	0.52	0.15	mg/Kg	✱	02/26/22 05:00	02/27/22 16:50	1
Potassium	700		26	9.3	mg/Kg	✱	02/26/22 05:00	02/28/22 23:52	1
Selenium	<0.52		0.52	0.31	mg/Kg	✱	02/26/22 05:00	02/27/22 16:50	1
Silver	<0.26		0.26	0.068	mg/Kg	✱	02/26/22 05:00	02/27/22 16:50	1
Sodium	1700		52	7.8	mg/Kg	✱	02/26/22 05:00	02/28/22 23:52	1
Thallium	<0.52		0.52	0.26	mg/Kg	✱	02/26/22 05:00	02/27/22 16:50	1
Vanadium	11		0.26	0.062	mg/Kg	✱	02/26/22 05:00	02/27/22 16:50	1
Zinc	45		1.0	0.46	mg/Kg	✱	02/26/22 05:00	02/27/22 16:50	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.36	J	0.50	0.050	mg/L		02/26/22 04:30	02/27/22 21:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/26/22 04:30	02/27/22 21:07	1
Boron	0.062	J	0.50	0.050	mg/L		02/26/22 04:30	02/27/22 21:07	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B10 (3-6.7)

Lab Sample ID: 500-212441-17

Date Collected: 02/16/22 00:22

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/26/22 04:30	02/27/22 21:07	1
Chromium	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 21:07	1
Cobalt	0.013	J	0.025	0.010	mg/L		02/26/22 04:30	02/27/22 21:07	1
Iron	<0.40		0.40	0.20	mg/L		02/26/22 04:30	02/27/22 21:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/26/22 04:30	02/27/22 21:07	1
Manganese	3.3		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 21:07	1
Nickel	0.023	J	0.025	0.010	mg/L		02/26/22 04:30	02/27/22 21:07	1
Selenium	<0.050	*+	0.050	0.020	mg/L		02/26/22 04:30	02/27/22 21:07	1
Silver	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 21:07	1
Zinc	0.037	J	0.50	0.020	mg/L		02/26/22 04:30	02/27/22 21:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.86	B	0.025	0.010	mg/L		02/27/22 08:00	02/28/22 17:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/26/22 04:30	02/28/22 13:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/26/22 04:30	02/28/22 13:08	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 16:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.018	0.0061	mg/Kg	☆	03/01/22 14:00	03/02/22 10:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.4		0.2	0.2	SU			02/22/22 20:42	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B04 (0-4)

Lab Sample ID: 500-212441-18

Date Collected: 02/16/22 00:53

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.011	J	0.018	0.0078	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
Chloromethane	<0.0045	*-	0.0045	0.0018	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
1,2-Dichloropropene	<0.0018		0.0018	0.00046	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
1,1,2,2-Tetrachloroethane	<0.0018	*3	0.0018	0.00057	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	02/16/22 17:25	02/26/22 10:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	158	*3 S1+	75 - 131	02/16/22 17:25	02/26/22 10:31	1
Dibromofluoromethane	104		75 - 126	02/16/22 17:25	02/26/22 10:31	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	02/16/22 17:25	02/26/22 10:31	1
Toluene-d8 (Surr)	116		75 - 124	02/16/22 17:25	02/26/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	02/24/22 19:39	02/25/22 19:29	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/24/22 19:39	02/25/22 19:29	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/24/22 19:39	02/25/22 19:29	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/24/22 19:39	02/25/22 19:29	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B04 (0-4)

Lab Sample ID: 500-212441-18

Date Collected: 02/16/22 00:53

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
Isophorone	<0.19		0.19	0.042	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
Hexachlorobutadiene	<0.19	+	0.19	0.059	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
2,4,6-Trichlorophenol	<0.37	+	0.37	0.13	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
2,4,5-Trichlorophenol	<0.37	+	0.37	0.086	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
4-Bromophenyl phenyl ether	<0.19	+	0.19	0.050	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
4-Chlorophenyl phenyl ether	<0.19	+	0.19	0.044	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
Phenanthrene	0.020	J	0.037	0.0052	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
Carbazole	<0.19		0.19	0.094	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
Pyrene	0.0086	J	0.037	0.0075	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	✳	02/24/22 19:39	02/25/22 19:29	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B04 (0-4)

Lab Sample ID: 500-212441-18

Date Collected: 02/16/22 00:53

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.014	J	0.037	0.010	mg/Kg	☼	02/24/22 19:39	02/25/22 19:29	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/24/22 19:39	02/25/22 19:29	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/24/22 19:39	02/25/22 19:29	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/24/22 19:39	02/25/22 19:29	1
Benzo[b]fluoranthene	0.0090	J *3	0.037	0.0081	mg/Kg	☼	02/24/22 19:39	02/25/22 19:29	1
Benzo[k]fluoranthene	<0.037	*3	0.037	0.011	mg/Kg	☼	02/24/22 19:39	02/25/22 19:29	1
Benzo[a]pyrene	<0.037	*3	0.037	0.0073	mg/Kg	☼	02/24/22 19:39	02/25/22 19:29	1
Indeno[1,2,3-cd]pyrene	<0.037	*3	0.037	0.0098	mg/Kg	☼	02/24/22 19:39	02/25/22 19:29	1
Dibenz(a,h)anthracene	<0.037	*3	0.037	0.0073	mg/Kg	☼	02/24/22 19:39	02/25/22 19:29	1
Benzo[g,h,i]perylene	<0.037	*3	0.037	0.012	mg/Kg	☼	02/24/22 19:39	02/25/22 19:29	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/24/22 19:39	02/25/22 19:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	82		31 - 166				02/24/22 19:39	02/25/22 19:29	1
Phenol-d5	75		30 - 153				02/24/22 19:39	02/25/22 19:29	1
Nitrobenzene-d5 (Surr)	80		37 - 147				02/24/22 19:39	02/25/22 19:29	1
2-Fluorobiphenyl (Surr)	97		43 - 145				02/24/22 19:39	02/25/22 19:29	1
2,4,6-Tribromophenol	119		31 - 143				02/24/22 19:39	02/25/22 19:29	1
Terphenyl-d14 (Surr)	129		42 - 157				02/24/22 19:39	02/25/22 19:29	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.1	0.22	mg/Kg	☼	02/26/22 05:00	02/27/22 16:54	1
Arsenic	9.0		0.55	0.19	mg/Kg	☼	02/26/22 05:00	02/27/22 16:54	1
Barium	35		0.55	0.063	mg/Kg	☼	02/26/22 05:00	02/28/22 23:59	1
Beryllium	0.54		0.22	0.052	mg/Kg	☼	02/26/22 05:00	02/28/22 23:59	1
Boron	4.7		2.8	0.26	mg/Kg	☼	02/26/22 05:00	02/27/22 16:54	1
Cadmium	<0.11		0.11	0.020	mg/Kg	☼	02/26/22 05:00	02/27/22 16:54	1
Calcium	66000	B	55	9.4	mg/Kg	☼	02/26/22 05:00	03/01/22 00:02	5
Chromium	11	B	0.55	0.27	mg/Kg	☼	02/26/22 05:00	02/28/22 23:59	1
Cobalt	9.9		0.28	0.073	mg/Kg	☼	02/26/22 05:00	02/27/22 16:54	1
Copper	21		0.55	0.16	mg/Kg	☼	02/26/22 05:00	02/27/22 16:54	1
Iron	18000	B	11	5.8	mg/Kg	☼	02/26/22 05:00	02/28/22 23:59	1
Lead	11		0.28	0.13	mg/Kg	☼	02/26/22 05:00	02/27/22 16:54	1
Magnesium	26000		5.5	2.8	mg/Kg	☼	02/26/22 05:00	02/28/22 23:59	1
Manganese	350	B	0.55	0.080	mg/Kg	☼	02/26/22 05:00	02/28/22 23:59	1
Nickel	24	B	0.55	0.16	mg/Kg	☼	02/26/22 05:00	02/27/22 16:54	1
Potassium	1000		28	9.8	mg/Kg	☼	02/26/22 05:00	02/28/22 23:59	1
Selenium	<0.55		0.55	0.33	mg/Kg	☼	02/26/22 05:00	02/27/22 16:54	1
Silver	<0.28		0.28	0.072	mg/Kg	☼	02/26/22 05:00	02/27/22 16:54	1
Sodium	1800		55	8.2	mg/Kg	☼	02/26/22 05:00	02/28/22 23:59	1
Thallium	0.72		0.55	0.28	mg/Kg	☼	02/26/22 05:00	02/27/22 16:54	1
Vanadium	13		0.28	0.065	mg/Kg	☼	02/26/22 05:00	02/27/22 16:54	1
Zinc	57		1.1	0.49	mg/Kg	☼	02/26/22 05:00	02/27/22 16:54	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.58		0.50	0.050	mg/L		02/26/22 04:30	02/27/22 21:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/26/22 04:30	02/27/22 21:11	1
Boron	<0.50		0.50	0.050	mg/L		02/26/22 04:30	02/27/22 21:11	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B04 (0-4)

Lab Sample ID: 500-212441-18

Date Collected: 02/16/22 00:53

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/26/22 04:30	02/27/22 21:11	1
Chromium	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 21:11	1
Cobalt	0.011	J	0.025	0.010	mg/L		02/26/22 04:30	02/27/22 21:11	1
Iron	<0.40		0.40	0.20	mg/L		02/26/22 04:30	02/27/22 21:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/26/22 04:30	02/28/22 11:06	1
Manganese	4.2		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 21:11	1
Nickel	0.010	J	0.025	0.010	mg/L		02/26/22 04:30	02/27/22 21:11	1
Selenium	<0.050	*+	0.050	0.020	mg/L		02/26/22 04:30	02/27/22 21:11	1
Silver	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 21:11	1
Zinc	<0.50		0.50	0.020	mg/L		02/26/22 04:30	02/27/22 21:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.3	B	0.025	0.010	mg/L		02/27/22 08:00	02/28/22 17:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/26/22 04:30	02/28/22 13:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/26/22 04:30	02/28/22 13:10	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 16:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028	B	0.018	0.0059	mg/Kg	☆	02/24/22 18:30	02/25/22 20:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.4		0.2	0.2	SU			02/22/22 20:47	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B04 (0-4)D

Lab Sample ID: 500-212441-19

Date Collected: 02/16/22 00:55

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.026		0.017	0.0076	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
Benzene	<0.0017		0.0017	0.00045	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
Bromodichloromethane	<0.0017		0.0017	0.00036	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
Carbon tetrachloride	<0.0017		0.0017	0.00051	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
Chloroform	<0.0017		0.0017	0.00061	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
Chloromethane	<0.0044	*	0.0044	0.0018	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00053	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
1,2-Dichloropropene	<0.0017		0.0017	0.00045	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
Ethylbenzene	<0.0017		0.0017	0.00084	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
Tetrachloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	02/16/22 17:25	02/26/22 10:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		75 - 131	02/16/22 17:25	02/26/22 10:56	1
Dibromofluoromethane	112		75 - 126	02/16/22 17:25	02/26/22 10:56	1
1,2-Dichloroethane-d4 (Surr)	118		70 - 134	02/16/22 17:25	02/26/22 10:56	1
Toluene-d8 (Surr)	93		75 - 124	02/16/22 17:25	02/26/22 10:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	02/24/22 19:39	02/25/22 19:51	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/24/22 19:39	02/25/22 19:51	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/24/22 19:39	02/25/22 19:51	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/24/22 19:39	02/25/22 19:51	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B04 (0-4)D

Lab Sample ID: 500-212441-19

Date Collected: 02/16/22 00:55

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
Isophorone	<0.19		0.19	0.042	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
Hexachlorobutadiene	<0.19	*+	0.19	0.059	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
2,4,6-Trichlorophenol	<0.37	*+	0.37	0.13	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
2,4,5-Trichlorophenol	<0.37	*+	0.37	0.085	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
2-Methylnaphthalene	<0.075		0.075	0.0069	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
Acenaphthene	0.0072	J	0.037	0.0067	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
4-Bromophenyl phenyl ether	<0.19	*+	0.19	0.049	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
4-Chlorophenyl phenyl ether	<0.19	*+	0.19	0.044	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
Phenanthrene	0.039		0.037	0.0052	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
Carbazole	<0.19		0.19	0.093	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
Pyrene	0.017	J	0.037	0.0074	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	✳	02/24/22 19:39	02/25/22 19:51	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B04 (0-4)D

Lab Sample ID: 500-212441-19

Date Collected: 02/16/22 00:55

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.020	J	0.037	0.010	mg/Kg	✱	02/24/22 19:39	02/25/22 19:51	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	✱	02/24/22 19:39	02/25/22 19:51	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	✱	02/24/22 19:39	02/25/22 19:51	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	✱	02/24/22 19:39	02/25/22 19:51	1
Benzo[b]fluoranthene	<0.037	*3	0.037	0.0081	mg/Kg	✱	02/24/22 19:39	02/25/22 19:51	1
Benzo[k]fluoranthene	<0.037	*3	0.037	0.011	mg/Kg	✱	02/24/22 19:39	02/25/22 19:51	1
Benzo[a]pyrene	<0.037	*3	0.037	0.0072	mg/Kg	✱	02/24/22 19:39	02/25/22 19:51	1
Indeno[1,2,3-cd]pyrene	<0.037	*3	0.037	0.0097	mg/Kg	✱	02/24/22 19:39	02/25/22 19:51	1
Dibenz(a,h)anthracene	<0.037	*3	0.037	0.0072	mg/Kg	✱	02/24/22 19:39	02/25/22 19:51	1
Benzo[g,h,i]perylene	0.015	J *3	0.037	0.012	mg/Kg	✱	02/24/22 19:39	02/25/22 19:51	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	✱	02/24/22 19:39	02/25/22 19:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	84		31 - 166				02/24/22 19:39	02/25/22 19:51	1
Phenol-d5	79		30 - 153				02/24/22 19:39	02/25/22 19:51	1
Nitrobenzene-d5 (Surr)	77		37 - 147				02/24/22 19:39	02/25/22 19:51	1
2-Fluorobiphenyl (Surr)	103		43 - 145				02/24/22 19:39	02/25/22 19:51	1
2,4,6-Tribromophenol	110		31 - 143				02/24/22 19:39	02/25/22 19:51	1
Terphenyl-d14 (Surr)	129		42 - 157				02/24/22 19:39	02/25/22 19:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J	1.1	0.21	mg/Kg	✱	02/26/22 05:00	02/27/22 16:57	1
Arsenic	13		0.55	0.19	mg/Kg	✱	02/26/22 05:00	02/27/22 16:57	1
Barium	26		0.55	0.062	mg/Kg	✱	02/26/22 05:00	03/01/22 00:05	1
Beryllium	0.49		0.22	0.051	mg/Kg	✱	02/26/22 05:00	03/01/22 00:05	1
Boron	5.6		2.7	0.26	mg/Kg	✱	02/26/22 05:00	02/27/22 16:57	1
Cadmium	0.21	B	0.11	0.020	mg/Kg	✱	02/26/22 05:00	02/27/22 16:57	1
Calcium	58000	B	55	9.3	mg/Kg	✱	02/26/22 05:00	03/01/22 00:09	5
Chromium	10	B	0.55	0.27	mg/Kg	✱	02/26/22 05:00	03/01/22 00:05	1
Cobalt	15		0.27	0.072	mg/Kg	✱	02/26/22 05:00	02/27/22 16:57	1
Copper	28		0.55	0.15	mg/Kg	✱	02/26/22 05:00	02/27/22 16:57	1
Iron	17000	B	11	5.7	mg/Kg	✱	02/26/22 05:00	03/01/22 00:05	1
Lead	90		0.27	0.13	mg/Kg	✱	02/26/22 05:00	02/27/22 16:57	1
Magnesium	26000		5.5	2.7	mg/Kg	✱	02/26/22 05:00	03/01/22 00:05	1
Manganese	320	B	0.55	0.079	mg/Kg	✱	02/26/22 05:00	03/01/22 00:05	1
Nickel	31	B	0.55	0.16	mg/Kg	✱	02/26/22 05:00	02/27/22 16:57	1
Potassium	1200		27	9.7	mg/Kg	✱	02/26/22 05:00	03/01/22 00:05	1
Selenium	<0.55		0.55	0.32	mg/Kg	✱	02/26/22 05:00	02/27/22 16:57	1
Silver	<0.27		0.27	0.071	mg/Kg	✱	02/26/22 05:00	02/27/22 16:57	1
Sodium	1400		55	8.1	mg/Kg	✱	02/26/22 05:00	03/01/22 00:05	1
Thallium	1.1		0.55	0.27	mg/Kg	✱	02/26/22 05:00	02/27/22 16:57	1
Vanadium	12		0.27	0.065	mg/Kg	✱	02/26/22 05:00	02/27/22 16:57	1
Zinc	100		1.1	0.48	mg/Kg	✱	02/26/22 05:00	02/27/22 16:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.49	J	0.50	0.050	mg/L		02/26/22 04:30	02/27/22 21:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/26/22 04:30	02/27/22 21:14	1
Boron	<0.50		0.50	0.050	mg/L		02/26/22 04:30	02/27/22 21:14	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B04 (0-4)D

Lab Sample ID: 500-212441-19

Date Collected: 02/16/22 00:55

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/26/22 04:30	02/27/22 21:14	1
Chromium	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 21:14	1
Cobalt	0.029		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 21:14	1
Iron	<0.40		0.40	0.20	mg/L		02/26/22 04:30	02/27/22 21:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/26/22 04:30	02/27/22 21:14	1
Manganese	4.4		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 21:14	1
Nickel	0.038		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 21:14	1
Selenium	<0.050	*+	0.050	0.020	mg/L		02/26/22 04:30	02/27/22 21:14	1
Silver	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 21:14	1
Zinc	0.039	J	0.50	0.020	mg/L		02/26/22 04:30	02/27/22 21:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.4	B	0.025	0.010	mg/L		02/27/22 08:00	02/28/22 17:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/26/22 04:30	02/28/22 13:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/26/22 04:30	02/28/22 13:12	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 16:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023	B	0.017	0.0057	mg/Kg	☆	02/24/22 18:30	02/25/22 20:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.2	0.2	SU			02/22/22 20:50	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B04 (4-7.8)

Lab Sample ID: 500-212441-20

Date Collected: 02/16/22 01:00

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0084	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
Carbon disulfide	<0.0048		0.0048	0.0010	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
Chloromethane	<0.0048	*	0.0048	0.0019	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
1,2-Dichloropropene	<0.0019		0.0019	0.00050	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00068	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
Ethylbenzene	<0.0019		0.0019	0.00092	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00057	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
1,1,2,2-Tetrachloroethane	<0.0019	*3	0.0019	0.00062	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
Tetrachloroethene	<0.0019		0.0019	0.00066	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
Toluene	<0.0019		0.0019	0.00049	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00085	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00068	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00065	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00083	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
Vinyl acetate	<0.0048		0.0048	0.0017	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
Vinyl chloride	<0.0019		0.0019	0.00085	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1
Xylenes, Total	<0.0039		0.0039	0.00062	mg/Kg	✳	02/16/22 17:25	02/26/22 11:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	*3 S1+	75 - 131	02/16/22 17:25	02/26/22 11:22	1
Dibromofluoromethane	111		75 - 126	02/16/22 17:25	02/26/22 11:22	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	02/16/22 17:25	02/26/22 11:22	1
Toluene-d8 (Surr)	102		75 - 124	02/16/22 17:25	02/26/22 11:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	✳	02/24/22 19:39	02/25/22 20:12	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	✳	02/24/22 19:39	02/25/22 20:12	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	✳	02/24/22 19:39	02/25/22 20:12	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	✳	02/24/22 19:39	02/25/22 20:12	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B04 (4-7.8)

Lab Sample ID: 500-212441-20

Date Collected: 02/16/22 01:00

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Hexachlorobutadiene	<0.19	*+	0.19	0.060	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
2,4,6-Trichlorophenol	<0.38	*+	0.38	0.13	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
2,4,5-Trichlorophenol	<0.38	*+	0.38	0.087	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
2-Methylnaphthalene	<0.077		0.077	0.0071	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
4-Bromophenyl phenyl ether	<0.19	*+	0.19	0.051	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
4-Chlorophenyl phenyl ether	<0.19	*+	0.19	0.045	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Phenanthrene	0.016	J	0.038	0.0053	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Pyrene	0.013	J	0.038	0.0076	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B04 (4-7.8)

Lab Sample ID: 500-212441-20

Date Collected: 02/16/22 01:00

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.017	J	0.038	0.010	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Benzo[b]fluoranthene	<0.038	*3	0.038	0.0083	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Benzo[k]fluoranthene	<0.038	*3	0.038	0.011	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Benzo[a]pyrene	<0.038	*3	0.038	0.0074	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Indeno[1,2,3-cd]pyrene	<0.038	*3	0.038	0.0099	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Dibenz(a,h)anthracene	<0.038	*3	0.038	0.0074	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Benzo[g,h,i]perylene	<0.038	*3	0.038	0.012	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/24/22 19:39	02/25/22 20:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	79		31 - 166				02/24/22 19:39	02/25/22 20:12	1
Phenol-d5	75		30 - 153				02/24/22 19:39	02/25/22 20:12	1
Nitrobenzene-d5 (Surr)	74		37 - 147				02/24/22 19:39	02/25/22 20:12	1
2-Fluorobiphenyl (Surr)	94		43 - 145				02/24/22 19:39	02/25/22 20:12	1
2,4,6-Tribromophenol	111		31 - 143				02/24/22 19:39	02/25/22 20:12	1
Terphenyl-d14 (Surr)	127		42 - 157				02/24/22 19:39	02/25/22 20:12	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.32	J	1.1	0.21	mg/Kg	☼	02/26/22 05:00	02/27/22 17:00	1
Arsenic	10		0.53	0.18	mg/Kg	☼	02/26/22 05:00	02/27/22 17:00	1
Barium	29		0.53	0.061	mg/Kg	☼	02/26/22 05:00	03/01/22 00:12	1
Beryllium	0.53		0.21	0.050	mg/Kg	☼	02/26/22 05:00	03/01/22 00:12	1
Boron	5.1		2.7	0.25	mg/Kg	☼	02/26/22 05:00	02/27/22 17:00	1
Cadmium	<0.11		0.11	0.019	mg/Kg	☼	02/26/22 05:00	02/27/22 17:00	1
Calcium	72000	B	53	9.0	mg/Kg	☼	02/26/22 05:00	03/01/22 00:16	5
Chromium	16	B	0.53	0.26	mg/Kg	☼	02/26/22 05:00	03/01/22 00:12	1
Cobalt	11		0.27	0.070	mg/Kg	☼	02/26/22 05:00	02/27/22 17:00	1
Copper	19		0.53	0.15	mg/Kg	☼	02/26/22 05:00	02/27/22 17:00	1
Iron	17000	B	11	5.5	mg/Kg	☼	02/26/22 05:00	03/01/22 00:12	1
Lead	11		0.27	0.12	mg/Kg	☼	02/26/22 05:00	02/27/22 17:00	1
Magnesium	26000		5.3	2.6	mg/Kg	☼	02/26/22 05:00	03/01/22 00:12	1
Manganese	350	B	0.53	0.077	mg/Kg	☼	02/26/22 05:00	03/01/22 00:12	1
Nickel	26	B	0.53	0.15	mg/Kg	☼	02/26/22 05:00	02/27/22 17:00	1
Potassium	1100		27	9.4	mg/Kg	☼	02/26/22 05:00	03/01/22 00:12	1
Selenium	<0.53		0.53	0.31	mg/Kg	☼	02/26/22 05:00	02/27/22 17:00	1
Silver	<0.27		0.27	0.069	mg/Kg	☼	02/26/22 05:00	02/27/22 17:00	1
Sodium	1500		53	7.9	mg/Kg	☼	02/26/22 05:00	03/01/22 00:12	1
Thallium	0.67		0.53	0.27	mg/Kg	☼	02/26/22 05:00	02/27/22 17:00	1
Vanadium	16		0.27	0.063	mg/Kg	☼	02/26/22 05:00	02/27/22 17:00	1
Zinc	51		1.1	0.47	mg/Kg	☼	02/26/22 05:00	02/27/22 17:00	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.44	J	0.50	0.050	mg/L		02/26/22 04:30	02/27/22 21:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/26/22 04:30	02/27/22 21:18	1
Boron	<0.50		0.50	0.050	mg/L		02/26/22 04:30	02/27/22 21:18	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B04 (4-7.8)

Lab Sample ID: 500-212441-20

Date Collected: 02/16/22 01:00

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/26/22 04:30	02/27/22 21:18	1
Chromium	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 21:18	1
Cobalt	0.016	J	0.025	0.010	mg/L		02/26/22 04:30	02/27/22 21:18	1
Iron	<0.40		0.40	0.20	mg/L		02/26/22 04:30	02/27/22 21:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/26/22 04:30	02/28/22 11:23	1
Manganese	3.8		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 21:18	1
Nickel	0.024	J	0.025	0.010	mg/L		02/26/22 04:30	02/27/22 21:18	1
Selenium	<0.050	*+	0.050	0.020	mg/L		02/26/22 04:30	02/27/22 21:18	1
Silver	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 21:18	1
Zinc	<0.50		0.50	0.020	mg/L		02/26/22 04:30	02/27/22 21:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.1	B	0.025	0.010	mg/L		02/27/22 08:00	02/28/22 17:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/26/22 04:30	02/28/22 13:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/26/22 04:30	02/28/22 13:14	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 16:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028	B	0.018	0.0061	mg/Kg	☆	02/24/22 18:30	02/25/22 20:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.5		0.2	0.2	SU			02/22/22 20:55	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*3	ISTD response or retention time outside acceptable limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

GC/MS VOA

Prep Batch: 644405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-1	2233V2-01-B26 (0-4)	Total/NA	Solid	5035	
500-212441-2	2233V2-01-B25 (0-4)	Total/NA	Solid	5035	
500-212441-3	2233V2-01-B24 (0-4)	Total/NA	Solid	5035	
500-212441-4	2233V2-01-B24 (0-4)D	Total/NA	Solid	5035	
500-212441-5	2233V2-01-B23 (0-4)	Total/NA	Solid	5035	
500-212441-6	2233V2-01-B22 (0-2.6)	Total/NA	Solid	5035	
500-212441-7	2233V2-01-B21 (0-2.9)	Total/NA	Solid	5035	
500-212441-8	2233V2-01-B20 (0-3)	Total/NA	Solid	5035	
500-212441-9	2233V2-01-B19 (0-1.7)	Total/NA	Solid	5035	
500-212441-10	2233V2-01-B18 (0-2)	Total/NA	Solid	5035	
500-212441-11	2233V2-01-B17 (0-1.5)	Total/NA	Solid	5035	
500-212441-12	2233V2-01-B16 (0-1)	Total/NA	Solid	5035	
500-212441-13	2233V2-01-B14 (0-5)	Total/NA	Solid	5035	
500-212441-14	2233V2-01-B11 (0-3)	Total/NA	Solid	5035	
500-212441-15	2233V2-01-B11 (3-6.3)	Total/NA	Solid	5035	
500-212441-16	2233V2-01-B10 (0-3)	Total/NA	Solid	5035	
500-212441-17	2233V2-01-B10 (3-6.7)	Total/NA	Solid	5035	
500-212441-18	2233V2-01-B04 (0-4)	Total/NA	Solid	5035	
500-212441-19	2233V2-01-B04 (0-4)D	Total/NA	Solid	5035	
500-212441-20	2233V2-01-B04 (4-7.8)	Total/NA	Solid	5035	

Analysis Batch: 644469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-1	2233V2-01-B26 (0-4)	Total/NA	Solid	8260B	644405
500-212441-2	2233V2-01-B25 (0-4)	Total/NA	Solid	8260B	644405
500-212441-3	2233V2-01-B24 (0-4)	Total/NA	Solid	8260B	644405
500-212441-5	2233V2-01-B23 (0-4)	Total/NA	Solid	8260B	644405
500-212441-6	2233V2-01-B22 (0-2.6)	Total/NA	Solid	8260B	644405
500-212441-7	2233V2-01-B21 (0-2.9)	Total/NA	Solid	8260B	644405
500-212441-8	2233V2-01-B20 (0-3)	Total/NA	Solid	8260B	644405
500-212441-9	2233V2-01-B19 (0-1.7)	Total/NA	Solid	8260B	644405
500-212441-10	2233V2-01-B18 (0-2)	Total/NA	Solid	8260B	644405
500-212441-11	2233V2-01-B17 (0-1.5)	Total/NA	Solid	8260B	644405
500-212441-12	2233V2-01-B16 (0-1)	Total/NA	Solid	8260B	644405
500-212441-13	2233V2-01-B14 (0-5)	Total/NA	Solid	8260B	644405
500-212441-14	2233V2-01-B11 (0-3)	Total/NA	Solid	8260B	644405
500-212441-15	2233V2-01-B11 (3-6.3)	Total/NA	Solid	8260B	644405
500-212441-16	2233V2-01-B10 (0-3)	Total/NA	Solid	8260B	644405
500-212441-17	2233V2-01-B10 (3-6.7)	Total/NA	Solid	8260B	644405
MB 500-644469/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-644469/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-644469/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 644620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-18	2233V2-01-B04 (0-4)	Total/NA	Solid	8260B	644405
500-212441-19	2233V2-01-B04 (0-4)D	Total/NA	Solid	8260B	644405
500-212441-20	2233V2-01-B04 (4-7.8)	Total/NA	Solid	8260B	644405
MB 500-644620/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-644620/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-644620/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

GC/MS VOA

Analysis Batch: 644745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-4	2233V2-01-B24 (0-4)D	Total/NA	Solid	8260B	644405
MB 500-644745/9	Method Blank	Total/NA	Solid	8260B	
LCS 500-644745/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-644745/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 644398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-1	2233V2-01-B26 (0-4)	Total/NA	Solid	3541	
500-212441-2	2233V2-01-B25 (0-4)	Total/NA	Solid	3541	
500-212441-3	2233V2-01-B24 (0-4)	Total/NA	Solid	3541	
500-212441-4	2233V2-01-B24 (0-4)D	Total/NA	Solid	3541	
500-212441-5	2233V2-01-B23 (0-4)	Total/NA	Solid	3541	
500-212441-6	2233V2-01-B22 (0-2.6)	Total/NA	Solid	3541	
500-212441-7	2233V2-01-B21 (0-2.9)	Total/NA	Solid	3541	
500-212441-8	2233V2-01-B20 (0-3)	Total/NA	Solid	3541	
500-212441-9	2233V2-01-B19 (0-1.7)	Total/NA	Solid	3541	
500-212441-10	2233V2-01-B18 (0-2)	Total/NA	Solid	3541	
500-212441-11	2233V2-01-B17 (0-1.5)	Total/NA	Solid	3541	
500-212441-12	2233V2-01-B16 (0-1)	Total/NA	Solid	3541	
500-212441-13	2233V2-01-B14 (0-5)	Total/NA	Solid	3541	
500-212441-14	2233V2-01-B11 (0-3)	Total/NA	Solid	3541	
500-212441-15	2233V2-01-B11 (3-6.3)	Total/NA	Solid	3541	
500-212441-16	2233V2-01-B10 (0-3)	Total/NA	Solid	3541	
500-212441-17	2233V2-01-B10 (3-6.7)	Total/NA	Solid	3541	
500-212441-18	2233V2-01-B04 (0-4)	Total/NA	Solid	3541	
500-212441-19	2233V2-01-B04 (0-4)D	Total/NA	Solid	3541	
500-212441-20	2233V2-01-B04 (4-7.8)	Total/NA	Solid	3541	
MB 500-644398/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-644398/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-212441-12 MS	2233V2-01-B16 (0-1)	Total/NA	Solid	3541	
500-212441-12 MSD	2233V2-01-B16 (0-1)	Total/NA	Solid	3541	

Analysis Batch: 644453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-1	2233V2-01-B26 (0-4)	Total/NA	Solid	8270D	644398
500-212441-2	2233V2-01-B25 (0-4)	Total/NA	Solid	8270D	644398
500-212441-3	2233V2-01-B24 (0-4)	Total/NA	Solid	8270D	644398
500-212441-4	2233V2-01-B24 (0-4)D	Total/NA	Solid	8270D	644398
500-212441-5	2233V2-01-B23 (0-4)	Total/NA	Solid	8270D	644398
500-212441-6	2233V2-01-B22 (0-2.6)	Total/NA	Solid	8270D	644398
500-212441-7	2233V2-01-B21 (0-2.9)	Total/NA	Solid	8270D	644398
500-212441-8	2233V2-01-B20 (0-3)	Total/NA	Solid	8270D	644398
500-212441-9	2233V2-01-B19 (0-1.7)	Total/NA	Solid	8270D	644398
500-212441-11	2233V2-01-B17 (0-1.5)	Total/NA	Solid	8270D	644398
500-212441-12	2233V2-01-B16 (0-1)	Total/NA	Solid	8270D	644398
500-212441-16	2233V2-01-B10 (0-3)	Total/NA	Solid	8270D	644398
500-212441-18	2233V2-01-B04 (0-4)	Total/NA	Solid	8270D	644398
500-212441-19	2233V2-01-B04 (0-4)D	Total/NA	Solid	8270D	644398
500-212441-20	2233V2-01-B04 (4-7.8)	Total/NA	Solid	8270D	644398

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

GC/MS Semi VOA (Continued)

Analysis Batch: 644453 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-644398/1-A	Method Blank	Total/NA	Solid	8270D	644398
LCS 500-644398/2-A	Lab Control Sample	Total/NA	Solid	8270D	644398
500-212441-12 MS	2233V2-01-B16 (0-1)	Total/NA	Solid	8270D	644398
500-212441-12 MSD	2233V2-01-B16 (0-1)	Total/NA	Solid	8270D	644398

Analysis Batch: 644772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-10	2233V2-01-B18 (0-2)	Total/NA	Solid	8270D	644398
500-212441-13	2233V2-01-B14 (0-5)	Total/NA	Solid	8270D	644398
500-212441-14	2233V2-01-B11 (0-3)	Total/NA	Solid	8270D	644398
500-212441-15	2233V2-01-B11 (3-6.3)	Total/NA	Solid	8270D	644398
500-212441-17	2233V2-01-B10 (3-6.7)	Total/NA	Solid	8270D	644398

Metals

Leach Batch: 644383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-1	2233V2-01-B26 (0-4)	TCLP	Solid	1311	
500-212441-2	2233V2-01-B25 (0-4)	TCLP	Solid	1311	
500-212441-3	2233V2-01-B24 (0-4)	TCLP	Solid	1311	
500-212441-4	2233V2-01-B24 (0-4)D	TCLP	Solid	1311	
500-212441-5	2233V2-01-B23 (0-4)	TCLP	Solid	1311	
500-212441-6	2233V2-01-B22 (0-2.6)	TCLP	Solid	1311	
500-212441-7	2233V2-01-B21 (0-2.9)	TCLP	Solid	1311	
500-212441-8	2233V2-01-B20 (0-3)	TCLP	Solid	1311	
500-212441-9	2233V2-01-B19 (0-1.7)	TCLP	Solid	1311	
500-212441-10	2233V2-01-B18 (0-2)	TCLP	Solid	1311	
500-212441-11	2233V2-01-B17 (0-1.5)	TCLP	Solid	1311	
500-212441-12	2233V2-01-B16 (0-1)	TCLP	Solid	1311	
500-212441-13	2233V2-01-B14 (0-5)	TCLP	Solid	1311	
500-212441-14	2233V2-01-B11 (0-3)	TCLP	Solid	1311	
500-212441-15	2233V2-01-B11 (3-6.3)	TCLP	Solid	1311	
500-212441-16	2233V2-01-B10 (0-3)	TCLP	Solid	1311	
500-212441-17	2233V2-01-B10 (3-6.7)	TCLP	Solid	1311	
500-212441-18	2233V2-01-B04 (0-4)	TCLP	Solid	1311	
500-212441-19	2233V2-01-B04 (0-4)D	TCLP	Solid	1311	
500-212441-20	2233V2-01-B04 (4-7.8)	TCLP	Solid	1311	
LB 500-644383/1-B	Method Blank	TCLP	Solid	1311	
LB 500-644383/1-C	Method Blank	TCLP	Solid	1311	
500-212441-4 MS	2233V2-01-B24 (0-4)D	TCLP	Solid	1311	
500-212441-13 MS	2233V2-01-B14 (0-5)	TCLP	Solid	1311	
500-212441-4 DU	2233V2-01-B24 (0-4)D	TCLP	Solid	1311	
500-212441-13 DU	2233V2-01-B14 (0-5)	TCLP	Solid	1311	

Leach Batch: 644386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-1	2233V2-01-B26 (0-4)	SPLP East	Solid	1312	
500-212441-2	2233V2-01-B25 (0-4)	SPLP East	Solid	1312	
500-212441-3	2233V2-01-B24 (0-4)	SPLP East	Solid	1312	
500-212441-4	2233V2-01-B24 (0-4)D	SPLP East	Solid	1312	
500-212441-5	2233V2-01-B23 (0-4)	SPLP East	Solid	1312	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Metals (Continued)

Leach Batch: 644386 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-6	2233V2-01-B22 (0-2.6)	SPLP East	Solid	1312	
500-212441-7	2233V2-01-B21 (0-2.9)	SPLP East	Solid	1312	
500-212441-8	2233V2-01-B20 (0-3)	SPLP East	Solid	1312	
500-212441-9	2233V2-01-B19 (0-1.7)	SPLP East	Solid	1312	
500-212441-10	2233V2-01-B18 (0-2)	SPLP East	Solid	1312	
500-212441-11	2233V2-01-B17 (0-1.5)	SPLP East	Solid	1312	
500-212441-12	2233V2-01-B16 (0-1)	SPLP East	Solid	1312	
500-212441-13	2233V2-01-B14 (0-5)	SPLP East	Solid	1312	
500-212441-14	2233V2-01-B11 (0-3)	SPLP East	Solid	1312	
500-212441-15	2233V2-01-B11 (3-6.3)	SPLP East	Solid	1312	
500-212441-16	2233V2-01-B10 (0-3)	SPLP East	Solid	1312	
500-212441-17	2233V2-01-B10 (3-6.7)	SPLP East	Solid	1312	
500-212441-18	2233V2-01-B04 (0-4)	SPLP East	Solid	1312	
500-212441-19	2233V2-01-B04 (0-4)D	SPLP East	Solid	1312	
500-212441-20	2233V2-01-B04 (4-7.8)	SPLP East	Solid	1312	
LB 500-644386/1-B	Method Blank	SPLP East	Solid	1312	
500-212441-20 MS	2233V2-01-B04 (4-7.8)	SPLP East	Solid	1312	
500-212441-20 DU	2233V2-01-B04 (4-7.8)	SPLP East	Solid	1312	

Prep Batch: 644391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-18	2233V2-01-B04 (0-4)	Total/NA	Solid	7471B	
500-212441-19	2233V2-01-B04 (0-4)D	Total/NA	Solid	7471B	
500-212441-20	2233V2-01-B04 (4-7.8)	Total/NA	Solid	7471B	
MB 500-644391/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-644391/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 644572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-1	2233V2-01-B26 (0-4)	Total/NA	Solid	3050B	
500-212441-2	2233V2-01-B25 (0-4)	Total/NA	Solid	3050B	
500-212441-3	2233V2-01-B24 (0-4)	Total/NA	Solid	3050B	
500-212441-4	2233V2-01-B24 (0-4)D	Total/NA	Solid	3050B	
500-212441-5	2233V2-01-B23 (0-4)	Total/NA	Solid	3050B	
500-212441-6	2233V2-01-B22 (0-2.6)	Total/NA	Solid	3050B	
500-212441-7	2233V2-01-B21 (0-2.9)	Total/NA	Solid	3050B	
500-212441-8	2233V2-01-B20 (0-3)	Total/NA	Solid	3050B	
500-212441-9	2233V2-01-B19 (0-1.7)	Total/NA	Solid	3050B	
500-212441-10	2233V2-01-B18 (0-2)	Total/NA	Solid	3050B	
500-212441-11	2233V2-01-B17 (0-1.5)	Total/NA	Solid	3050B	
500-212441-12	2233V2-01-B16 (0-1)	Total/NA	Solid	3050B	
500-212441-13	2233V2-01-B14 (0-5)	Total/NA	Solid	3050B	
500-212441-14	2233V2-01-B11 (0-3)	Total/NA	Solid	3050B	
500-212441-15	2233V2-01-B11 (3-6.3)	Total/NA	Solid	3050B	
500-212441-16	2233V2-01-B10 (0-3)	Total/NA	Solid	3050B	
500-212441-17	2233V2-01-B10 (3-6.7)	Total/NA	Solid	3050B	
500-212441-18	2233V2-01-B04 (0-4)	Total/NA	Solid	3050B	
500-212441-19	2233V2-01-B04 (0-4)D	Total/NA	Solid	3050B	
500-212441-20	2233V2-01-B04 (4-7.8)	Total/NA	Solid	3050B	
MB 500-644572/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-644572/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Metals (Continued)

Prep Batch: 644572 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-1 MS	2233V2-01-B26 (0-4)	Total/NA	Solid	3050B	
500-212441-1 MSD	2233V2-01-B26 (0-4)	Total/NA	Solid	3050B	
500-212441-1 DU	2233V2-01-B26 (0-4)	Total/NA	Solid	3050B	

Prep Batch: 644582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-1	2233V2-01-B26 (0-4)	TCLP	Solid	3010A	644383
500-212441-2	2233V2-01-B25 (0-4)	TCLP	Solid	3010A	644383
500-212441-3	2233V2-01-B24 (0-4)	TCLP	Solid	3010A	644383
500-212441-4	2233V2-01-B24 (0-4)D	TCLP	Solid	3010A	644383
500-212441-5	2233V2-01-B23 (0-4)	TCLP	Solid	3010A	644383
500-212441-6	2233V2-01-B22 (0-2.6)	TCLP	Solid	3010A	644383
500-212441-7	2233V2-01-B21 (0-2.9)	TCLP	Solid	3010A	644383
500-212441-8	2233V2-01-B20 (0-3)	TCLP	Solid	3010A	644383
500-212441-9	2233V2-01-B19 (0-1.7)	TCLP	Solid	3010A	644383
500-212441-10	2233V2-01-B18 (0-2)	TCLP	Solid	3010A	644383
500-212441-11	2233V2-01-B17 (0-1.5)	TCLP	Solid	3010A	644383
500-212441-12	2233V2-01-B16 (0-1)	TCLP	Solid	3010A	644383
500-212441-13	2233V2-01-B14 (0-5)	TCLP	Solid	3010A	644383
500-212441-14	2233V2-01-B11 (0-3)	TCLP	Solid	3010A	644383
500-212441-15	2233V2-01-B11 (3-6.3)	TCLP	Solid	3010A	644383
500-212441-16	2233V2-01-B10 (0-3)	TCLP	Solid	3010A	644383
500-212441-17	2233V2-01-B10 (3-6.7)	TCLP	Solid	3010A	644383
500-212441-18	2233V2-01-B04 (0-4)	TCLP	Solid	3010A	644383
500-212441-19	2233V2-01-B04 (0-4)D	TCLP	Solid	3010A	644383
500-212441-20	2233V2-01-B04 (4-7.8)	TCLP	Solid	3010A	644383
LB 500-644383/1-B	Method Blank	TCLP	Solid	3010A	644383
LCS 500-644582/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-212441-4 MS	2233V2-01-B24 (0-4)D	TCLP	Solid	3010A	644383
500-212441-4 DU	2233V2-01-B24 (0-4)D	TCLP	Solid	3010A	644383

Prep Batch: 644588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-1	2233V2-01-B26 (0-4)	SPLP East	Solid	3010A	644386
500-212441-2	2233V2-01-B25 (0-4)	SPLP East	Solid	3010A	644386
500-212441-3	2233V2-01-B24 (0-4)	SPLP East	Solid	3010A	644386
500-212441-4	2233V2-01-B24 (0-4)D	SPLP East	Solid	3010A	644386
500-212441-5	2233V2-01-B23 (0-4)	SPLP East	Solid	3010A	644386
500-212441-6	2233V2-01-B22 (0-2.6)	SPLP East	Solid	3010A	644386
500-212441-7	2233V2-01-B21 (0-2.9)	SPLP East	Solid	3010A	644386
500-212441-8	2233V2-01-B20 (0-3)	SPLP East	Solid	3010A	644386
500-212441-9	2233V2-01-B19 (0-1.7)	SPLP East	Solid	3010A	644386
500-212441-10	2233V2-01-B18 (0-2)	SPLP East	Solid	3010A	644386
500-212441-11	2233V2-01-B17 (0-1.5)	SPLP East	Solid	3010A	644386
500-212441-12	2233V2-01-B16 (0-1)	SPLP East	Solid	3010A	644386
500-212441-13	2233V2-01-B14 (0-5)	SPLP East	Solid	3010A	644386
500-212441-14	2233V2-01-B11 (0-3)	SPLP East	Solid	3010A	644386
500-212441-15	2233V2-01-B11 (3-6.3)	SPLP East	Solid	3010A	644386
500-212441-16	2233V2-01-B10 (0-3)	SPLP East	Solid	3010A	644386
500-212441-17	2233V2-01-B10 (3-6.7)	SPLP East	Solid	3010A	644386
500-212441-18	2233V2-01-B04 (0-4)	SPLP East	Solid	3010A	644386

Eurofins Chicago

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Metals (Continued)

Prep Batch: 644588 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-19	2233V2-01-B04 (0-4)D	SPLP East	Solid	3010A	644386
500-212441-20	2233V2-01-B04 (4-7.8)	SPLP East	Solid	3010A	644386
LB 500-644386/1-B	Method Blank	SPLP East	Solid	3010A	644386
LCS 500-644588/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-212441-20 MS	2233V2-01-B04 (4-7.8)	SPLP East	Solid	3010A	644386
500-212441-20 DU	2233V2-01-B04 (4-7.8)	SPLP East	Solid	3010A	644386

Analysis Batch: 644606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-18	2233V2-01-B04 (0-4)	Total/NA	Solid	7471B	644391
500-212441-19	2233V2-01-B04 (0-4)D	Total/NA	Solid	7471B	644391
500-212441-20	2233V2-01-B04 (4-7.8)	Total/NA	Solid	7471B	644391
MB 500-644391/12-A	Method Blank	Total/NA	Solid	7471B	644391
LCS 500-644391/13-A	Lab Control Sample	Total/NA	Solid	7471B	644391

Analysis Batch: 644767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-1	2233V2-01-B26 (0-4)	Total/NA	Solid	6010B	644572
500-212441-2	2233V2-01-B25 (0-4)	Total/NA	Solid	6010B	644572
500-212441-3	2233V2-01-B24 (0-4)	Total/NA	Solid	6010B	644572
500-212441-4	2233V2-01-B24 (0-4)D	Total/NA	Solid	6010B	644572
500-212441-5	2233V2-01-B23 (0-4)	Total/NA	Solid	6010B	644572
500-212441-6	2233V2-01-B22 (0-2.6)	Total/NA	Solid	6010B	644572
500-212441-7	2233V2-01-B21 (0-2.9)	Total/NA	Solid	6010B	644572
500-212441-8	2233V2-01-B20 (0-3)	Total/NA	Solid	6010B	644572
500-212441-9	2233V2-01-B19 (0-1.7)	Total/NA	Solid	6010B	644572
500-212441-10	2233V2-01-B18 (0-2)	Total/NA	Solid	6010B	644572
500-212441-11	2233V2-01-B17 (0-1.5)	Total/NA	Solid	6010B	644572
500-212441-12	2233V2-01-B16 (0-1)	Total/NA	Solid	6010B	644572
500-212441-13	2233V2-01-B14 (0-5)	Total/NA	Solid	6010B	644572
500-212441-14	2233V2-01-B11 (0-3)	Total/NA	Solid	6010B	644572
500-212441-15	2233V2-01-B11 (3-6.3)	Total/NA	Solid	6010B	644572
500-212441-16	2233V2-01-B10 (0-3)	Total/NA	Solid	6010B	644572
500-212441-17	2233V2-01-B10 (3-6.7)	Total/NA	Solid	6010B	644572
500-212441-18	2233V2-01-B04 (0-4)	Total/NA	Solid	6010B	644572
500-212441-19	2233V2-01-B04 (0-4)D	Total/NA	Solid	6010B	644572
500-212441-20	2233V2-01-B04 (4-7.8)	Total/NA	Solid	6010B	644572
MB 500-644572/1-A	Method Blank	Total/NA	Solid	6010B	644572
LCS 500-644572/2-A	Lab Control Sample	Total/NA	Solid	6010B	644572
500-212441-1 MS	2233V2-01-B26 (0-4)	Total/NA	Solid	6010B	644572
500-212441-1 MSD	2233V2-01-B26 (0-4)	Total/NA	Solid	6010B	644572
500-212441-1 DU	2233V2-01-B26 (0-4)	Total/NA	Solid	6010B	644572

Analysis Batch: 644769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-1	2233V2-01-B26 (0-4)	TCLP	Solid	6010B	644582
500-212441-2	2233V2-01-B25 (0-4)	TCLP	Solid	6010B	644582
500-212441-3	2233V2-01-B24 (0-4)	TCLP	Solid	6010B	644582
500-212441-4	2233V2-01-B24 (0-4)D	TCLP	Solid	6010B	644582
500-212441-5	2233V2-01-B23 (0-4)	TCLP	Solid	6010B	644582
500-212441-6	2233V2-01-B22 (0-2.6)	TCLP	Solid	6010B	644582

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Metals (Continued)

Analysis Batch: 644769 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-7	2233V2-01-B21 (0-2.9)	TCLP	Solid	6010B	644582
500-212441-8	2233V2-01-B20 (0-3)	TCLP	Solid	6010B	644582
500-212441-9	2233V2-01-B19 (0-1.7)	TCLP	Solid	6010B	644582
500-212441-10	2233V2-01-B18 (0-2)	TCLP	Solid	6010B	644582
500-212441-11	2233V2-01-B17 (0-1.5)	TCLP	Solid	6010B	644582
500-212441-12	2233V2-01-B16 (0-1)	TCLP	Solid	6010B	644582
500-212441-13	2233V2-01-B14 (0-5)	TCLP	Solid	6010B	644582
500-212441-14	2233V2-01-B11 (0-3)	TCLP	Solid	6010B	644582
500-212441-15	2233V2-01-B11 (3-6.3)	TCLP	Solid	6010B	644582
500-212441-16	2233V2-01-B10 (0-3)	TCLP	Solid	6010B	644582
500-212441-17	2233V2-01-B10 (3-6.7)	TCLP	Solid	6010B	644582
500-212441-18	2233V2-01-B04 (0-4)	TCLP	Solid	6010B	644582
500-212441-19	2233V2-01-B04 (0-4)D	TCLP	Solid	6010B	644582
500-212441-20	2233V2-01-B04 (4-7.8)	TCLP	Solid	6010B	644582
LB 500-644383/1-B	Method Blank	TCLP	Solid	6010B	644582
LCS 500-644582/2-A	Lab Control Sample	Total/NA	Solid	6010B	644582
500-212441-4 MS	2233V2-01-B24 (0-4)D	TCLP	Solid	6010B	644582
500-212441-4 DU	2233V2-01-B24 (0-4)D	TCLP	Solid	6010B	644582

Prep Batch: 644827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-1	2233V2-01-B26 (0-4)	TCLP	Solid	7470A	644383
500-212441-2	2233V2-01-B25 (0-4)	TCLP	Solid	7470A	644383
500-212441-3	2233V2-01-B24 (0-4)	TCLP	Solid	7470A	644383
500-212441-4	2233V2-01-B24 (0-4)D	TCLP	Solid	7470A	644383
500-212441-5	2233V2-01-B23 (0-4)	TCLP	Solid	7470A	644383
500-212441-6	2233V2-01-B22 (0-2.6)	TCLP	Solid	7470A	644383
500-212441-7	2233V2-01-B21 (0-2.9)	TCLP	Solid	7470A	644383
500-212441-8	2233V2-01-B20 (0-3)	TCLP	Solid	7470A	644383
500-212441-9	2233V2-01-B19 (0-1.7)	TCLP	Solid	7470A	644383
500-212441-10	2233V2-01-B18 (0-2)	TCLP	Solid	7470A	644383
500-212441-11	2233V2-01-B17 (0-1.5)	TCLP	Solid	7470A	644383
500-212441-12	2233V2-01-B16 (0-1)	TCLP	Solid	7470A	644383
500-212441-13	2233V2-01-B14 (0-5)	TCLP	Solid	7470A	644383
500-212441-14	2233V2-01-B11 (0-3)	TCLP	Solid	7470A	644383
500-212441-15	2233V2-01-B11 (3-6.3)	TCLP	Solid	7470A	644383
500-212441-16	2233V2-01-B10 (0-3)	TCLP	Solid	7470A	644383
500-212441-17	2233V2-01-B10 (3-6.7)	TCLP	Solid	7470A	644383
500-212441-18	2233V2-01-B04 (0-4)	TCLP	Solid	7470A	644383
500-212441-19	2233V2-01-B04 (0-4)D	TCLP	Solid	7470A	644383
500-212441-20	2233V2-01-B04 (4-7.8)	TCLP	Solid	7470A	644383
LB 500-644383/1-C	Method Blank	TCLP	Solid	7470A	644383
MB 500-644827/13-A	Method Blank	Total/NA	Solid	7470A	644383
LCS 500-644827/14-A	Lab Control Sample	Total/NA	Solid	7470A	644383
500-212441-13 MS	2233V2-01-B14 (0-5)	TCLP	Solid	7470A	644383
500-212441-13 DU	2233V2-01-B14 (0-5)	TCLP	Solid	7470A	644383

Analysis Batch: 644873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-2	2233V2-01-B25 (0-4)	TCLP	Solid	6010B	644582
500-212441-18	2233V2-01-B04 (0-4)	TCLP	Solid	6010B	644582

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Metals (Continued)

Analysis Batch: 644873 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-20	2233V2-01-B04 (4-7.8)	TCLP	Solid	6010B	644582

Analysis Batch: 644874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-1	2233V2-01-B26 (0-4)	TCLP	Solid	6020A	644582
500-212441-2	2233V2-01-B25 (0-4)	TCLP	Solid	6020A	644582
500-212441-3	2233V2-01-B24 (0-4)	TCLP	Solid	6020A	644582
500-212441-4	2233V2-01-B24 (0-4)D	TCLP	Solid	6020A	644582
500-212441-5	2233V2-01-B23 (0-4)	TCLP	Solid	6020A	644582
500-212441-6	2233V2-01-B22 (0-2.6)	TCLP	Solid	6020A	644582
500-212441-7	2233V2-01-B21 (0-2.9)	TCLP	Solid	6020A	644582
500-212441-8	2233V2-01-B20 (0-3)	TCLP	Solid	6020A	644582
500-212441-9	2233V2-01-B19 (0-1.7)	TCLP	Solid	6020A	644582
500-212441-10	2233V2-01-B18 (0-2)	TCLP	Solid	6020A	644582
500-212441-11	2233V2-01-B17 (0-1.5)	TCLP	Solid	6020A	644582
500-212441-12	2233V2-01-B16 (0-1)	TCLP	Solid	6020A	644582
500-212441-13	2233V2-01-B14 (0-5)	TCLP	Solid	6020A	644582
500-212441-14	2233V2-01-B11 (0-3)	TCLP	Solid	6020A	644582
500-212441-15	2233V2-01-B11 (3-6.3)	TCLP	Solid	6020A	644582
500-212441-16	2233V2-01-B10 (0-3)	TCLP	Solid	6020A	644582
500-212441-17	2233V2-01-B10 (3-6.7)	TCLP	Solid	6020A	644582
500-212441-18	2233V2-01-B04 (0-4)	TCLP	Solid	6020A	644582
500-212441-19	2233V2-01-B04 (0-4)D	TCLP	Solid	6020A	644582
500-212441-20	2233V2-01-B04 (4-7.8)	TCLP	Solid	6020A	644582
LB 500-644383/1-B	Method Blank	TCLP	Solid	6020A	644582
LCS 500-644582/2-A	Lab Control Sample	Total/NA	Solid	6020A	644582
500-212441-4 MS	2233V2-01-B24 (0-4)D	TCLP	Solid	6020A	644582
500-212441-4 DU	2233V2-01-B24 (0-4)D	TCLP	Solid	6020A	644582

Analysis Batch: 645022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-1	2233V2-01-B26 (0-4)	SPLP East	Solid	6010B	644588
500-212441-2	2233V2-01-B25 (0-4)	SPLP East	Solid	6010B	644588
500-212441-3	2233V2-01-B24 (0-4)	SPLP East	Solid	6010B	644588
500-212441-4	2233V2-01-B24 (0-4)D	SPLP East	Solid	6010B	644588
500-212441-5	2233V2-01-B23 (0-4)	SPLP East	Solid	6010B	644588
500-212441-6	2233V2-01-B22 (0-2.6)	SPLP East	Solid	6010B	644588
500-212441-7	2233V2-01-B21 (0-2.9)	SPLP East	Solid	6010B	644588
500-212441-8	2233V2-01-B20 (0-3)	SPLP East	Solid	6010B	644588
500-212441-9	2233V2-01-B19 (0-1.7)	SPLP East	Solid	6010B	644588
500-212441-10	2233V2-01-B18 (0-2)	SPLP East	Solid	6010B	644588
500-212441-11	2233V2-01-B17 (0-1.5)	SPLP East	Solid	6010B	644588
500-212441-12	2233V2-01-B16 (0-1)	SPLP East	Solid	6010B	644588
500-212441-13	2233V2-01-B14 (0-5)	SPLP East	Solid	6010B	644588
500-212441-14	2233V2-01-B11 (0-3)	SPLP East	Solid	6010B	644588
500-212441-16	2233V2-01-B10 (0-3)	SPLP East	Solid	6010B	644588
500-212441-17	2233V2-01-B10 (3-6.7)	SPLP East	Solid	6010B	644588
500-212441-18	2233V2-01-B04 (0-4)	SPLP East	Solid	6010B	644588
500-212441-19	2233V2-01-B04 (0-4)D	SPLP East	Solid	6010B	644588
500-212441-20	2233V2-01-B04 (4-7.8)	SPLP East	Solid	6010B	644588
LB 500-644386/1-B	Method Blank	SPLP East	Solid	6010B	644588

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Metals (Continued)

Analysis Batch: 645022 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-644588/2-A	Lab Control Sample	Total/NA	Solid	6010B	644588
500-212441-20 MS	2233V2-01-B04 (4-7.8)	SPLP East	Solid	6010B	644588
500-212441-20 DU	2233V2-01-B04 (4-7.8)	SPLP East	Solid	6010B	644588

Analysis Batch: 645023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-1	2233V2-01-B26 (0-4)	Total/NA	Solid	6010B	644572
500-212441-1	2233V2-01-B26 (0-4)	Total/NA	Solid	6010B	644572
500-212441-2	2233V2-01-B25 (0-4)	Total/NA	Solid	6010B	644572
500-212441-2	2233V2-01-B25 (0-4)	Total/NA	Solid	6010B	644572
500-212441-3	2233V2-01-B24 (0-4)	Total/NA	Solid	6010B	644572
500-212441-3	2233V2-01-B24 (0-4)	Total/NA	Solid	6010B	644572
500-212441-4	2233V2-01-B24 (0-4)D	Total/NA	Solid	6010B	644572
500-212441-4	2233V2-01-B24 (0-4)D	Total/NA	Solid	6010B	644572
500-212441-5	2233V2-01-B23 (0-4)	Total/NA	Solid	6010B	644572
500-212441-5	2233V2-01-B23 (0-4)	Total/NA	Solid	6010B	644572
500-212441-6	2233V2-01-B22 (0-2.6)	Total/NA	Solid	6010B	644572
500-212441-7	2233V2-01-B21 (0-2.9)	Total/NA	Solid	6010B	644572
500-212441-7	2233V2-01-B21 (0-2.9)	Total/NA	Solid	6010B	644572
500-212441-8	2233V2-01-B20 (0-3)	Total/NA	Solid	6010B	644572
500-212441-8	2233V2-01-B20 (0-3)	Total/NA	Solid	6010B	644572
500-212441-9	2233V2-01-B19 (0-1.7)	Total/NA	Solid	6010B	644572
500-212441-10	2233V2-01-B18 (0-2)	Total/NA	Solid	6010B	644572
500-212441-11	2233V2-01-B17 (0-1.5)	Total/NA	Solid	6010B	644572
500-212441-11	2233V2-01-B17 (0-1.5)	Total/NA	Solid	6010B	644572
500-212441-12	2233V2-01-B16 (0-1)	Total/NA	Solid	6010B	644572
500-212441-13	2233V2-01-B14 (0-5)	Total/NA	Solid	6010B	644572
500-212441-13	2233V2-01-B14 (0-5)	Total/NA	Solid	6010B	644572
500-212441-14	2233V2-01-B11 (0-3)	Total/NA	Solid	6010B	644572
500-212441-14	2233V2-01-B11 (0-3)	Total/NA	Solid	6010B	644572
500-212441-15	2233V2-01-B11 (3-6.3)	Total/NA	Solid	6010B	644572
500-212441-15	2233V2-01-B11 (3-6.3)	Total/NA	Solid	6010B	644572
500-212441-16	2233V2-01-B10 (0-3)	Total/NA	Solid	6010B	644572
500-212441-16	2233V2-01-B10 (0-3)	Total/NA	Solid	6010B	644572
500-212441-17	2233V2-01-B10 (3-6.7)	Total/NA	Solid	6010B	644572
500-212441-17	2233V2-01-B10 (3-6.7)	Total/NA	Solid	6010B	644572
500-212441-18	2233V2-01-B04 (0-4)	Total/NA	Solid	6010B	644572
500-212441-18	2233V2-01-B04 (0-4)	Total/NA	Solid	6010B	644572
500-212441-19	2233V2-01-B04 (0-4)D	Total/NA	Solid	6010B	644572
500-212441-19	2233V2-01-B04 (0-4)D	Total/NA	Solid	6010B	644572
500-212441-20	2233V2-01-B04 (4-7.8)	Total/NA	Solid	6010B	644572
500-212441-20	2233V2-01-B04 (4-7.8)	Total/NA	Solid	6010B	644572
MB 500-644572/1-A	Method Blank	Total/NA	Solid	6010B	644572
LCS 500-644572/2-A	Lab Control Sample	Total/NA	Solid	6010B	644572
500-212441-1 MS	2233V2-01-B26 (0-4)	Total/NA	Solid	6010B	644572
500-212441-1 MS	2233V2-01-B26 (0-4)	Total/NA	Solid	6010B	644572
500-212441-1 MSD	2233V2-01-B26 (0-4)	Total/NA	Solid	6010B	644572
500-212441-1 MSD	2233V2-01-B26 (0-4)	Total/NA	Solid	6010B	644572
500-212441-1 DU	2233V2-01-B26 (0-4)	Total/NA	Solid	6010B	644572
500-212441-1 DU	2233V2-01-B26 (0-4)	Total/NA	Solid	6010B	644572

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Metals

Prep Batch: 645065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-1	2233V2-01-B26 (0-4)	Total/NA	Solid	7471B	
500-212441-2	2233V2-01-B25 (0-4)	Total/NA	Solid	7471B	
500-212441-3	2233V2-01-B24 (0-4)	Total/NA	Solid	7471B	
500-212441-4	2233V2-01-B24 (0-4)D	Total/NA	Solid	7471B	
500-212441-5	2233V2-01-B23 (0-4)	Total/NA	Solid	7471B	
500-212441-6	2233V2-01-B22 (0-2.6)	Total/NA	Solid	7471B	
500-212441-7	2233V2-01-B21 (0-2.9)	Total/NA	Solid	7471B	
500-212441-8	2233V2-01-B20 (0-3)	Total/NA	Solid	7471B	
500-212441-9	2233V2-01-B19 (0-1.7)	Total/NA	Solid	7471B	
500-212441-10	2233V2-01-B18 (0-2)	Total/NA	Solid	7471B	
500-212441-11	2233V2-01-B17 (0-1.5)	Total/NA	Solid	7471B	
500-212441-12	2233V2-01-B16 (0-1)	Total/NA	Solid	7471B	
500-212441-13	2233V2-01-B14 (0-5)	Total/NA	Solid	7471B	
500-212441-14	2233V2-01-B11 (0-3)	Total/NA	Solid	7471B	
500-212441-15	2233V2-01-B11 (3-6.3)	Total/NA	Solid	7471B	
500-212441-16	2233V2-01-B10 (0-3)	Total/NA	Solid	7471B	
500-212441-17	2233V2-01-B10 (3-6.7)	Total/NA	Solid	7471B	
MB 500-645065/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-645065/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-212441-8 MS	2233V2-01-B20 (0-3)	Total/NA	Solid	7471B	
500-212441-8 MSD	2233V2-01-B20 (0-3)	Total/NA	Solid	7471B	
500-212441-8 DU	2233V2-01-B20 (0-3)	Total/NA	Solid	7471B	

Analysis Batch: 645104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-15	2233V2-01-B11 (3-6.3)	SPLP East	Solid	6010B	644588

Analysis Batch: 645126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-1	2233V2-01-B26 (0-4)	TCLP	Solid	7470A	644827
500-212441-2	2233V2-01-B25 (0-4)	TCLP	Solid	7470A	644827
500-212441-3	2233V2-01-B24 (0-4)	TCLP	Solid	7470A	644827
500-212441-4	2233V2-01-B24 (0-4)D	TCLP	Solid	7470A	644827
500-212441-5	2233V2-01-B23 (0-4)	TCLP	Solid	7470A	644827
500-212441-6	2233V2-01-B22 (0-2.6)	TCLP	Solid	7470A	644827
500-212441-7	2233V2-01-B21 (0-2.9)	TCLP	Solid	7470A	644827
500-212441-8	2233V2-01-B20 (0-3)	TCLP	Solid	7470A	644827
500-212441-9	2233V2-01-B19 (0-1.7)	TCLP	Solid	7470A	644827
500-212441-10	2233V2-01-B18 (0-2)	TCLP	Solid	7470A	644827
500-212441-11	2233V2-01-B17 (0-1.5)	TCLP	Solid	7470A	644827
500-212441-12	2233V2-01-B16 (0-1)	TCLP	Solid	7470A	644827
500-212441-13	2233V2-01-B14 (0-5)	TCLP	Solid	7470A	644827
500-212441-14	2233V2-01-B11 (0-3)	TCLP	Solid	7470A	644827
500-212441-15	2233V2-01-B11 (3-6.3)	TCLP	Solid	7470A	644827
500-212441-16	2233V2-01-B10 (0-3)	TCLP	Solid	7470A	644827
500-212441-17	2233V2-01-B10 (3-6.7)	TCLP	Solid	7470A	644827
500-212441-18	2233V2-01-B04 (0-4)	TCLP	Solid	7470A	644827
500-212441-19	2233V2-01-B04 (0-4)D	TCLP	Solid	7470A	644827
500-212441-20	2233V2-01-B04 (4-7.8)	TCLP	Solid	7470A	644827
LB 500-644383/1-C	Method Blank	TCLP	Solid	7470A	644827
MB 500-644827/13-A	Method Blank	Total/NA	Solid	7470A	644827

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Metals (Continued)

Analysis Batch: 645126 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-644827/14-A	Lab Control Sample	Total/NA	Solid	7470A	644827
500-212441-13 MS	2233V2-01-B14 (0-5)	TCLP	Solid	7470A	644827
500-212441-13 DU	2233V2-01-B14 (0-5)	TCLP	Solid	7470A	644827

Analysis Batch: 645272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-1	2233V2-01-B26 (0-4)	Total/NA	Solid	7471B	645065
500-212441-2	2233V2-01-B25 (0-4)	Total/NA	Solid	7471B	645065
500-212441-3	2233V2-01-B24 (0-4)	Total/NA	Solid	7471B	645065
500-212441-4	2233V2-01-B24 (0-4)D	Total/NA	Solid	7471B	645065
500-212441-5	2233V2-01-B23 (0-4)	Total/NA	Solid	7471B	645065
500-212441-6	2233V2-01-B22 (0-2.6)	Total/NA	Solid	7471B	645065
500-212441-7	2233V2-01-B21 (0-2.9)	Total/NA	Solid	7471B	645065
500-212441-8	2233V2-01-B20 (0-3)	Total/NA	Solid	7471B	645065
500-212441-9	2233V2-01-B19 (0-1.7)	Total/NA	Solid	7471B	645065
500-212441-10	2233V2-01-B18 (0-2)	Total/NA	Solid	7471B	645065
500-212441-11	2233V2-01-B17 (0-1.5)	Total/NA	Solid	7471B	645065
500-212441-12	2233V2-01-B16 (0-1)	Total/NA	Solid	7471B	645065
500-212441-13	2233V2-01-B14 (0-5)	Total/NA	Solid	7471B	645065
500-212441-14	2233V2-01-B11 (0-3)	Total/NA	Solid	7471B	645065
500-212441-15	2233V2-01-B11 (3-6.3)	Total/NA	Solid	7471B	645065
500-212441-16	2233V2-01-B10 (0-3)	Total/NA	Solid	7471B	645065
500-212441-17	2233V2-01-B10 (3-6.7)	Total/NA	Solid	7471B	645065
MB 500-645065/12-A	Method Blank	Total/NA	Solid	7471B	645065
LCS 500-645065/13-A	Lab Control Sample	Total/NA	Solid	7471B	645065
500-212441-8 MS	2233V2-01-B20 (0-3)	Total/NA	Solid	7471B	645065
500-212441-8 MSD	2233V2-01-B20 (0-3)	Total/NA	Solid	7471B	645065
500-212441-8 DU	2233V2-01-B20 (0-3)	Total/NA	Solid	7471B	645065

General Chemistry

Analysis Batch: 643794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-1	2233V2-01-B26 (0-4)	Total/NA	Solid	Moisture	
500-212441-2	2233V2-01-B25 (0-4)	Total/NA	Solid	Moisture	
500-212441-3	2233V2-01-B24 (0-4)	Total/NA	Solid	Moisture	
500-212441-4	2233V2-01-B24 (0-4)D	Total/NA	Solid	Moisture	
500-212441-5	2233V2-01-B23 (0-4)	Total/NA	Solid	Moisture	
500-212441-6	2233V2-01-B22 (0-2.6)	Total/NA	Solid	Moisture	
500-212441-7	2233V2-01-B21 (0-2.9)	Total/NA	Solid	Moisture	
500-212441-8	2233V2-01-B20 (0-3)	Total/NA	Solid	Moisture	
500-212441-9	2233V2-01-B19 (0-1.7)	Total/NA	Solid	Moisture	
500-212441-10	2233V2-01-B18 (0-2)	Total/NA	Solid	Moisture	
500-212441-11	2233V2-01-B17 (0-1.5)	Total/NA	Solid	Moisture	
500-212441-12	2233V2-01-B16 (0-1)	Total/NA	Solid	Moisture	
500-212441-13	2233V2-01-B14 (0-5)	Total/NA	Solid	Moisture	
500-212441-14	2233V2-01-B11 (0-3)	Total/NA	Solid	Moisture	
500-212441-15	2233V2-01-B11 (3-6.3)	Total/NA	Solid	Moisture	
500-212441-16	2233V2-01-B10 (0-3)	Total/NA	Solid	Moisture	
500-212441-17	2233V2-01-B10 (3-6.7)	Total/NA	Solid	Moisture	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

General Chemistry

Analysis Batch: 643818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-18	2233V2-01-B04 (0-4)	Total/NA	Solid	Moisture	
500-212441-19	2233V2-01-B04 (0-4)D	Total/NA	Solid	Moisture	
500-212441-20	2233V2-01-B04 (4-7.8)	Total/NA	Solid	Moisture	
500-212441-18 DU	2233V2-01-B04 (0-4)	Total/NA	Solid	Moisture	

Analysis Batch: 643892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-8	2233V2-01-B20 (0-3)	Total/NA	Solid	9045D	
500-212441-9	2233V2-01-B19 (0-1.7)	Total/NA	Solid	9045D	
500-212441-10	2233V2-01-B18 (0-2)	Total/NA	Solid	9045D	
500-212441-11	2233V2-01-B17 (0-1.5)	Total/NA	Solid	9045D	
500-212441-12	2233V2-01-B16 (0-1)	Total/NA	Solid	9045D	
500-212441-13	2233V2-01-B14 (0-5)	Total/NA	Solid	9045D	
500-212441-14	2233V2-01-B11 (0-3)	Total/NA	Solid	9045D	
500-212441-15	2233V2-01-B11 (3-6.3)	Total/NA	Solid	9045D	
500-212441-16	2233V2-01-B10 (0-3)	Total/NA	Solid	9045D	
500-212441-17	2233V2-01-B10 (3-6.7)	Total/NA	Solid	9045D	
500-212441-18	2233V2-01-B04 (0-4)	Total/NA	Solid	9045D	
500-212441-19	2233V2-01-B04 (0-4)D	Total/NA	Solid	9045D	
500-212441-20	2233V2-01-B04 (4-7.8)	Total/NA	Solid	9045D	
LCS 500-643892/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-643892/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-212441-19 DU	2233V2-01-B04 (0-4)D	Total/NA	Solid	9045D	

Analysis Batch: 644304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212441-1	2233V2-01-B26 (0-4)	Total/NA	Solid	9045D	
500-212441-2	2233V2-01-B25 (0-4)	Total/NA	Solid	9045D	
500-212441-3	2233V2-01-B24 (0-4)	Total/NA	Solid	9045D	
500-212441-4	2233V2-01-B24 (0-4)D	Total/NA	Solid	9045D	
500-212441-5	2233V2-01-B23 (0-4)	Total/NA	Solid	9045D	
500-212441-6	2233V2-01-B22 (0-2.6)	Total/NA	Solid	9045D	
500-212441-7	2233V2-01-B21 (0-2.9)	Total/NA	Solid	9045D	
LCS 500-644304/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-644304/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Surrogate Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-212441-1	2233V2-01-B26 (0-4)	161 *3 S1+	124	127	129 S1+
500-212441-2	2233V2-01-B25 (0-4)	131	120	119	118
500-212441-3	2233V2-01-B24 (0-4)	184 *3 S1+	124	124	139 S1+
500-212441-4	2233V2-01-B24 (0-4)D	144 *3 S1+	115	126	115
500-212441-5	2233V2-01-B23 (0-4)	136 S1+	122	119	118
500-212441-6	2233V2-01-B22 (0-2.6)	118	120	118	112
500-212441-7	2233V2-01-B21 (0-2.9)	119	119	119	113
500-212441-8	2233V2-01-B20 (0-3)	126	119	117	115
500-212441-9	2233V2-01-B19 (0-1.7)	117	119	120	110
500-212441-10	2233V2-01-B18 (0-2)	117	120	120	112
500-212441-11	2233V2-01-B17 (0-1.5)	119	121	118	111
500-212441-12	2233V2-01-B16 (0-1)	123	121	117	116
500-212441-13	2233V2-01-B14 (0-5)	119	122	127	111
500-212441-14	2233V2-01-B11 (0-3)	117	122	125	111
500-212441-15	2233V2-01-B11 (3-6.3)	121	118	121	114
500-212441-16	2233V2-01-B10 (0-3)	137 S1+	122	128	120
500-212441-17	2233V2-01-B10 (3-6.7)	130	116	125	115
500-212441-18	2233V2-01-B04 (0-4)	158 *3 S1+	104	101	116
500-212441-19	2233V2-01-B04 (0-4)D	122	112	118	93
500-212441-20	2233V2-01-B04 (4-7.8)	135 *3 S1+	111	110	102
LCS 500-644469/3	Lab Control Sample	109	119	103	116
LCS 500-644620/3	Lab Control Sample	107	100	93	96
LCS 500-644745/5	Lab Control Sample	102	107	107	105
LCSD 500-644469/4	Lab Control Sample Dup	110	122	108	115
LCSD 500-644620/4	Lab Control Sample Dup	108	99	95	95
LCSD 500-644745/6	Lab Control Sample Dup	99	110	112	105
MB 500-644469/6	Method Blank	113	117	101	113
MB 500-644620/6	Method Blank	112	109	103	97
MB 500-644745/9	Method Blank	107	111	115	104

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (31-166)	PHL (30-153)	NBZ (37-147)	FBP (43-145)	TBP (31-143)	TPHL (42-157)
500-212441-1	2233V2-01-B26 (0-4)	84	83	84	96	96	90
500-212441-2	2233V2-01-B25 (0-4)	88	82	87	99	110	90
500-212441-3	2233V2-01-B24 (0-4)	84	78	83	98	106	87
500-212441-4	2233V2-01-B24 (0-4)D	88	82	89	102	116	89
500-212441-5	2233V2-01-B23 (0-4)	89	82	77	90	115	93

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Surrogate Summary

Client: WSP USA Inc.

Job ID: 500-212441-1

Project/Site: IDOT - 196-002-WO003 Joliet

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (31-166)	PHL (30-153)	NBZ (37-147)	FBP (43-145)	TBP (31-143)	TPHL (42-157)
500-212441-6	2233V2-01-B22 (0-2.6)	81	75	79	89	109	89
500-212441-7	2233V2-01-B21 (0-2.9)	73	68	66	78	96	84
500-212441-8	2233V2-01-B20 (0-3)	69	68	60	75	103	85
500-212441-9	2233V2-01-B19 (0-1.7)	72	72	65	80	113	89
500-212441-10	2233V2-01-B18 (0-2)	98	97	65	74	71	98
500-212441-11	2233V2-01-B17 (0-1.5)	76	74	62	81	106	97
500-212441-12	2233V2-01-B16 (0-1)	72	71	62	78	105	104
500-212441-12 MS	2233V2-01-B16 (0-1)	68	69	58	74	103	98
500-212441-12 MSD	2233V2-01-B16 (0-1)	79	78	68	85	116	118
500-212441-13	2233V2-01-B14 (0-5)	112	111	63	73	67	94
500-212441-14	2233V2-01-B11 (0-3)	103	110	67	77	73	106
500-212441-15	2233V2-01-B11 (3-6.3)	100	101	66	73	72	111
500-212441-16	2233V2-01-B10 (0-3)	83	79	76	93	121	130
500-212441-17	2233V2-01-B10 (3-6.7)	137	134	81	88	81	123
500-212441-18	2233V2-01-B04 (0-4)	82	75	80	97	119	129
500-212441-19	2233V2-01-B04 (0-4)D	84	79	77	103	110	129
500-212441-20	2233V2-01-B04 (4-7.8)	79	75	74	94	111	127
LCS 500-644398/2-A	Lab Control Sample	97	93	96	115	131	103
MB 500-644398/1-A	Method Blank	94	84	81	96	96	98

Surrogate Legend

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

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

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

Lab Sample ID: MB 500-644469/6
Matrix: Solid
Analysis Batch: 644469

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			02/25/22 12:09	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			02/25/22 12:09	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			02/25/22 12:09	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			02/25/22 12:09	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			02/25/22 12:09	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			02/25/22 12:09	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			02/25/22 12:09	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			02/25/22 12:09	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			02/25/22 12:09	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			02/25/22 12:09	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			02/25/22 12:09	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			02/25/22 12:09	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			02/25/22 12:09	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			02/25/22 12:09	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			02/25/22 12:09	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			02/25/22 12:09	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			02/25/22 12:09	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			02/25/22 12:09	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			02/25/22 12:09	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			02/25/22 12:09	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			02/25/22 12:09	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/25/22 12:09	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			02/25/22 12:09	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			02/25/22 12:09	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			02/25/22 12:09	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			02/25/22 12:09	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			02/25/22 12:09	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/25/22 12:09	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			02/25/22 12:09	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			02/25/22 12:09	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			02/25/22 12:09	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			02/25/22 12:09	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			02/25/22 12:09	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/25/22 12:09	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			02/25/22 12:09	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			02/25/22 12:09	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			02/25/22 12:09	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	113		75 - 131		02/25/22 12:09	1
Dibromofluoromethane	117		75 - 126		02/25/22 12:09	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		02/25/22 12:09	1
Toluene-d8 (Surr)	113		75 - 124		02/25/22 12:09	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

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

Lab Sample ID: LCS 500-644469/3
Matrix: Solid
Analysis Batch: 644469

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0491		mg/Kg		98	40 - 150
Benzene	0.0500	0.0493		mg/Kg		99	70 - 125
Bromodichloromethane	0.0500	0.0489		mg/Kg		98	67 - 129
Bromoform	0.0500	0.0464		mg/Kg		93	68 - 136
Bromomethane	0.0500	0.0551		mg/Kg		110	70 - 130
2-Butanone (MEK)	0.0500	0.0387		mg/Kg		77	47 - 138
Carbon disulfide	0.0500	0.0485		mg/Kg		97	70 - 129
Carbon tetrachloride	0.0500	0.0545		mg/Kg		109	75 - 125
Chlorobenzene	0.0500	0.0479		mg/Kg		96	50 - 150
Chloroethane	0.0500	0.0505		mg/Kg		101	75 - 125
Chloroform	0.0500	0.0498		mg/Kg		100	57 - 135
Chloromethane	0.0500	0.0467		mg/Kg		93	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0518		mg/Kg		104	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0455		mg/Kg		91	70 - 125
Dibromochloromethane	0.0500	0.0488		mg/Kg		98	69 - 125
1,1-Dichloroethane	0.0500	0.0503		mg/Kg		101	70 - 125
1,2-Dichloroethane	0.0500	0.0465		mg/Kg		93	70 - 130
1,1-Dichloroethene	0.0500	0.0482		mg/Kg		96	70 - 120
1,2-Dichloropropane	0.0500	0.0464		mg/Kg		93	70 - 125
Ethylbenzene	0.0500	0.0489		mg/Kg		98	61 - 136
2-Hexanone	0.0500	0.0368		mg/Kg		74	48 - 146
Methylene Chloride	0.0500	0.0521		mg/Kg		104	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0378		mg/Kg		76	50 - 148
Methyl tert-butyl ether	0.0500	0.0477		mg/Kg		95	50 - 140
Styrene	0.0500	0.0478		mg/Kg		96	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0425		mg/Kg		85	70 - 122
Tetrachloroethene	0.0500	0.0502		mg/Kg		100	70 - 124
Toluene	0.0500	0.0474		mg/Kg		95	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0517		mg/Kg		103	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0438		mg/Kg		88	70 - 125
1,1,1-Trichloroethane	0.0500	0.0548		mg/Kg		110	70 - 128
1,1,2-Trichloroethane	0.0500	0.0447		mg/Kg		89	70 - 125
Trichloroethene	0.0500	0.0509		mg/Kg		102	70 - 125
Vinyl acetate	0.0500	0.0393		mg/Kg		79	40 - 153
Vinyl chloride	0.0500	0.0514		mg/Kg		103	70 - 125
Xylenes, Total	0.100	0.0941		mg/Kg		94	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	109		75 - 131
Dibromofluoromethane	119		75 - 126
1,2-Dichloroethane-d4 (Surr)	103		70 - 134
Toluene-d8 (Surr)	116		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

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

Lab Sample ID: LCSD 500-644469/4
Matrix: Solid
Analysis Batch: 644469

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0539		mg/Kg		108	40 - 150	9	30
Benzene	0.0500	0.0480		mg/Kg		96	70 - 125	3	30
Bromodichloromethane	0.0500	0.0485		mg/Kg		97	67 - 129	1	30
Bromoform	0.0500	0.0492		mg/Kg		98	68 - 136	6	30
Bromomethane	0.0500	0.0543		mg/Kg		109	70 - 130	1	30
2-Butanone (MEK)	0.0500	0.0423		mg/Kg		85	47 - 138	9	30
Carbon disulfide	0.0500	0.0458		mg/Kg		92	70 - 129	6	30
Carbon tetrachloride	0.0500	0.0517		mg/Kg		103	75 - 125	5	30
Chlorobenzene	0.0500	0.0468		mg/Kg		94	50 - 150	2	30
Chloroethane	0.0500	0.0499		mg/Kg		100	75 - 125	1	30
Chloroform	0.0500	0.0485		mg/Kg		97	57 - 135	3	30
Chloromethane	0.0500	0.0452		mg/Kg		90	70 - 125	3	30
cis-1,2-Dichloroethene	0.0500	0.0508		mg/Kg		102	70 - 125	2	30
cis-1,3-Dichloropropene	0.0500	0.0452		mg/Kg		90	70 - 125	1	30
Dibromochloromethane	0.0500	0.0500		mg/Kg		100	69 - 125	2	30
1,1-Dichloroethane	0.0500	0.0487		mg/Kg		97	70 - 125	3	30
1,2-Dichloroethane	0.0500	0.0465		mg/Kg		93	70 - 130	0	30
1,1-Dichloroethene	0.0500	0.0465		mg/Kg		93	70 - 120	4	30
1,2-Dichloropropane	0.0500	0.0454		mg/Kg		91	70 - 125	2	30
Ethylbenzene	0.0500	0.0468		mg/Kg		94	61 - 136	4	30
2-Hexanone	0.0500	0.0402		mg/Kg		80	48 - 146	9	30
Methylene Chloride	0.0500	0.0509		mg/Kg		102	70 - 126	2	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0422		mg/Kg		84	50 - 148	11	30
Methyl tert-butyl ether	0.0500	0.0479		mg/Kg		96	50 - 140	0	30
Styrene	0.0500	0.0464		mg/Kg		93	70 - 125	3	30
1,1,2,2-Tetrachloroethane	0.0500	0.0439		mg/Kg		88	70 - 122	3	30
Tetrachloroethene	0.0500	0.0491		mg/Kg		98	70 - 124	2	30
Toluene	0.0500	0.0467		mg/Kg		93	70 - 125	1	30
trans-1,2-Dichloroethene	0.0500	0.0498		mg/Kg		100	70 - 125	4	30
trans-1,3-Dichloropropene	0.0500	0.0443		mg/Kg		89	70 - 125	1	30
1,1,1-Trichloroethane	0.0500	0.0509		mg/Kg		102	70 - 128	7	30
1,1,2-Trichloroethane	0.0500	0.0453		mg/Kg		91	70 - 125	1	30
Trichloroethene	0.0500	0.0500		mg/Kg		100	70 - 125	2	30
Vinyl acetate	0.0500	0.0410		mg/Kg		82	40 - 153	4	30
Vinyl chloride	0.0500	0.0503		mg/Kg		101	70 - 125	2	30
Xylenes, Total	0.100	0.0918		mg/Kg		92	53 - 147	3	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	110		75 - 131
Dibromofluoromethane	122		75 - 126
1,2-Dichloroethane-d4 (Surr)	108		70 - 134
Toluene-d8 (Surr)	115		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

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

Lab Sample ID: MB 500-644620/6
Matrix: Solid
Analysis Batch: 644620

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			02/26/22 10:05	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			02/26/22 10:05	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			02/26/22 10:05	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			02/26/22 10:05	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			02/26/22 10:05	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			02/26/22 10:05	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			02/26/22 10:05	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			02/26/22 10:05	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			02/26/22 10:05	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			02/26/22 10:05	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			02/26/22 10:05	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			02/26/22 10:05	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			02/26/22 10:05	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			02/26/22 10:05	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			02/26/22 10:05	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			02/26/22 10:05	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			02/26/22 10:05	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			02/26/22 10:05	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			02/26/22 10:05	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			02/26/22 10:05	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			02/26/22 10:05	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/26/22 10:05	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			02/26/22 10:05	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			02/26/22 10:05	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			02/26/22 10:05	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			02/26/22 10:05	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			02/26/22 10:05	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/26/22 10:05	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			02/26/22 10:05	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			02/26/22 10:05	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			02/26/22 10:05	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			02/26/22 10:05	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			02/26/22 10:05	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/26/22 10:05	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			02/26/22 10:05	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			02/26/22 10:05	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			02/26/22 10:05	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	112		75 - 131		02/26/22 10:05	1
Dibromofluoromethane	109		75 - 126		02/26/22 10:05	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134		02/26/22 10:05	1
Toluene-d8 (Surr)	97		75 - 124		02/26/22 10:05	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

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

Lab Sample ID: LCS 500-644620/3
Matrix: Solid
Analysis Batch: 644620

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0507		mg/Kg		101	40 - 150
Benzene	0.0500	0.0550		mg/Kg		110	70 - 125
Bromodichloromethane	0.0500	0.0603		mg/Kg		121	67 - 129
Bromoform	0.0500	0.0608		mg/Kg		122	68 - 136
Bromomethane	0.0500	0.0407		mg/Kg		81	70 - 130
2-Butanone (MEK)	0.0500	0.0511		mg/Kg		102	47 - 138
Carbon disulfide	0.0500	0.0541		mg/Kg		108	70 - 129
Carbon tetrachloride	0.0500	0.0608		mg/Kg		122	75 - 125
Chlorobenzene	0.0500	0.0584		mg/Kg		117	50 - 150
Chloroethane	0.0500	0.0441		mg/Kg		88	75 - 125
Chloroform	0.0500	0.0604		mg/Kg		121	57 - 135
Chloromethane	0.0500	0.0334	*	mg/Kg		67	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0571		mg/Kg		114	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0531		mg/Kg		106	70 - 125
Dibromochloromethane	0.0500	0.0592		mg/Kg		118	69 - 125
1,1-Dichloroethane	0.0500	0.0576		mg/Kg		115	70 - 125
1,2-Dichloroethane	0.0500	0.0589		mg/Kg		118	70 - 130
1,1-Dichloroethene	0.0500	0.0567		mg/Kg		113	70 - 120
1,2-Dichloropropane	0.0500	0.0567		mg/Kg		113	70 - 125
Ethylbenzene	0.0500	0.0582		mg/Kg		116	61 - 136
2-Hexanone	0.0500	0.0431		mg/Kg		86	48 - 146
Methylene Chloride	0.0500	0.0569		mg/Kg		114	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0426		mg/Kg		85	50 - 148
Methyl tert-butyl ether	0.0500	0.0532		mg/Kg		106	50 - 140
Styrene	0.0500	0.0562		mg/Kg		112	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0595		mg/Kg		119	70 - 122
Tetrachloroethene	0.0500	0.0613		mg/Kg		123	70 - 124
Toluene	0.0500	0.0554		mg/Kg		111	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0582		mg/Kg		116	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0533		mg/Kg		107	70 - 125
1,1,1-Trichloroethane	0.0500	0.0609		mg/Kg		122	70 - 128
1,1,2-Trichloroethane	0.0500	0.0573		mg/Kg		115	70 - 125
Trichloroethene	0.0500	0.0590		mg/Kg		118	70 - 125
Vinyl acetate	0.0500	0.0485		mg/Kg		97	40 - 153
Vinyl chloride	0.0500	0.0398		mg/Kg		80	70 - 125
Xylenes, Total	0.100	0.113		mg/Kg		113	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	107		75 - 131
Dibromofluoromethane	100		75 - 126
1,2-Dichloroethane-d4 (Surr)	93		70 - 134
Toluene-d8 (Surr)	96		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

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

Lab Sample ID: LCSD 500-644620/4
Matrix: Solid
Analysis Batch: 644620

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0544		mg/Kg		109	40 - 150	7	30
Benzene	0.0500	0.0441		mg/Kg		88	70 - 125	22	30
Bromodichloromethane	0.0500	0.0482		mg/Kg		96	67 - 129	22	30
Bromoform	0.0500	0.0483		mg/Kg		97	68 - 136	23	30
Bromomethane	0.0500	0.0363		mg/Kg		73	70 - 130	11	30
2-Butanone (MEK)	0.0500	0.0564		mg/Kg		113	47 - 138	10	30
Carbon disulfide	0.0500	0.0431		mg/Kg		86	70 - 129	23	30
Carbon tetrachloride	0.0500	0.0478		mg/Kg		96	75 - 125	24	30
Chlorobenzene	0.0500	0.0465		mg/Kg		93	50 - 150	23	30
Chloroethane	0.0500	0.0379		mg/Kg		76	75 - 125	15	30
Chloroform	0.0500	0.0463		mg/Kg		93	57 - 135	26	30
Chloromethane	0.0500	0.0289	*	mg/Kg		58	70 - 125	14	30
cis-1,2-Dichloroethene	0.0500	0.0460		mg/Kg		92	70 - 125	21	30
cis-1,3-Dichloropropene	0.0500	0.0439		mg/Kg		88	70 - 125	19	30
Dibromochloromethane	0.0500	0.0473		mg/Kg		95	69 - 125	22	30
1,1-Dichloroethane	0.0500	0.0452		mg/Kg		90	70 - 125	24	30
1,2-Dichloroethane	0.0500	0.0479		mg/Kg		96	70 - 130	21	30
1,1-Dichloroethene	0.0500	0.0455		mg/Kg		91	70 - 120	22	30
1,2-Dichloropropane	0.0500	0.0450		mg/Kg		90	70 - 125	23	30
Ethylbenzene	0.0500	0.0462		mg/Kg		92	61 - 136	23	30
2-Hexanone	0.0500	0.0538		mg/Kg		108	48 - 146	22	30
Methylene Chloride	0.0500	0.0459		mg/Kg		92	70 - 126	21	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0495		mg/Kg		99	50 - 148	15	30
Methyl tert-butyl ether	0.0500	0.0436		mg/Kg		87	50 - 140	20	30
Styrene	0.0500	0.0447		mg/Kg		89	70 - 125	23	30
1,1,2,2-Tetrachloroethane	0.0500	0.0479		mg/Kg		96	70 - 122	22	30
Tetrachloroethene	0.0500	0.0504		mg/Kg		101	70 - 124	19	30
Toluene	0.0500	0.0451		mg/Kg		90	70 - 125	20	30
trans-1,2-Dichloroethene	0.0500	0.0458		mg/Kg		92	70 - 125	24	30
trans-1,3-Dichloropropene	0.0500	0.0438		mg/Kg		88	70 - 125	19	30
1,1,1-Trichloroethane	0.0500	0.0486		mg/Kg		97	70 - 128	22	30
1,1,2-Trichloroethane	0.0500	0.0465		mg/Kg		93	70 - 125	21	30
Trichloroethene	0.0500	0.0471		mg/Kg		94	70 - 125	22	30
Vinyl acetate	0.0500	0.0471		mg/Kg		94	40 - 153	3	30
Vinyl chloride	0.0500	0.0359		mg/Kg		72	70 - 125	10	30
Xylenes, Total	0.100	0.0888		mg/Kg		89	53 - 147	24	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	108		75 - 131
Dibromofluoromethane	99		75 - 126
1,2-Dichloroethane-d4 (Surr)	95		70 - 134
Toluene-d8 (Surr)	95		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

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

Lab Sample ID: MB 500-644745/9
Matrix: Solid
Analysis Batch: 644745

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			02/28/22 12:27	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			02/28/22 12:27	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			02/28/22 12:27	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			02/28/22 12:27	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			02/28/22 12:27	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			02/28/22 12:27	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			02/28/22 12:27	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			02/28/22 12:27	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			02/28/22 12:27	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			02/28/22 12:27	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			02/28/22 12:27	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			02/28/22 12:27	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			02/28/22 12:27	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			02/28/22 12:27	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			02/28/22 12:27	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			02/28/22 12:27	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			02/28/22 12:27	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			02/28/22 12:27	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			02/28/22 12:27	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			02/28/22 12:27	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			02/28/22 12:27	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/28/22 12:27	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			02/28/22 12:27	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			02/28/22 12:27	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			02/28/22 12:27	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			02/28/22 12:27	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			02/28/22 12:27	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/28/22 12:27	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			02/28/22 12:27	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			02/28/22 12:27	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			02/28/22 12:27	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			02/28/22 12:27	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			02/28/22 12:27	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/28/22 12:27	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			02/28/22 12:27	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			02/28/22 12:27	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			02/28/22 12:27	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	107		75 - 131		02/28/22 12:27	1
Dibromofluoromethane	111		75 - 126		02/28/22 12:27	1
1,2-Dichloroethane-d4 (Surr)	115		70 - 134		02/28/22 12:27	1
Toluene-d8 (Surr)	104		75 - 124		02/28/22 12:27	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

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

Lab Sample ID: LCS 500-644745/5
Matrix: Solid
Analysis Batch: 644745

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0604		mg/Kg		121	40 - 150
Benzene	0.0500	0.0465		mg/Kg		93	70 - 125
Bromodichloromethane	0.0500	0.0512		mg/Kg		102	67 - 129
Bromoform	0.0500	0.0550		mg/Kg		110	68 - 136
Bromomethane	0.0500	0.0867	*+	mg/Kg		173	70 - 130
2-Butanone (MEK)	0.0500	0.0470		mg/Kg		94	47 - 138
Carbon disulfide	0.0500	0.0479		mg/Kg		96	70 - 129
Carbon tetrachloride	0.0500	0.0532		mg/Kg		106	75 - 125
Chlorobenzene	0.0500	0.0495		mg/Kg		99	50 - 150
Chloroethane	0.0500	0.0574		mg/Kg		115	75 - 125
Chloroform	0.0500	0.0497		mg/Kg		99	57 - 135
Chloromethane	0.0500	0.0435		mg/Kg		87	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0482		mg/Kg		96	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0478		mg/Kg		96	70 - 125
Dibromochloromethane	0.0500	0.0522		mg/Kg		104	69 - 125
1,1-Dichloroethane	0.0500	0.0432		mg/Kg		86	70 - 125
1,2-Dichloroethane	0.0500	0.0532		mg/Kg		106	70 - 130
1,1-Dichloroethene	0.0500	0.0517		mg/Kg		103	70 - 120
1,2-Dichloropropane	0.0500	0.0437		mg/Kg		87	70 - 125
Ethylbenzene	0.0500	0.0479		mg/Kg		96	61 - 136
2-Hexanone	0.0500	0.0463		mg/Kg		93	48 - 146
Methylene Chloride	0.0500	0.0475		mg/Kg		95	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0446		mg/Kg		89	50 - 148
Methyl tert-butyl ether	0.0500	0.0490		mg/Kg		98	50 - 140
Styrene	0.0500	0.0489		mg/Kg		98	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0479		mg/Kg		96	70 - 122
Tetrachloroethene	0.0500	0.0518		mg/Kg		104	70 - 124
Toluene	0.0500	0.0490		mg/Kg		98	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0486		mg/Kg		97	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0507		mg/Kg		101	70 - 125
1,1,1-Trichloroethane	0.0500	0.0553		mg/Kg		111	70 - 128
1,1,2-Trichloroethane	0.0500	0.0520		mg/Kg		104	70 - 125
Trichloroethene	0.0500	0.0492		mg/Kg		98	70 - 125
Vinyl acetate	0.0500	0.0507		mg/Kg		101	40 - 153
Vinyl chloride	0.0500	0.0525		mg/Kg		105	70 - 125
Xylenes, Total	0.100	0.103		mg/Kg		103	53 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		75 - 131
Dibromofluoromethane	107		75 - 126
1,2-Dichloroethane-d4 (Surr)	107		70 - 134
Toluene-d8 (Surr)	105		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

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

Lab Sample ID: LCSD 500-644745/6
Matrix: Solid
Analysis Batch: 644745

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0628		mg/Kg		126	40 - 150	4	30
Benzene	0.0500	0.0499		mg/Kg		100	70 - 125	7	30
Bromodichloromethane	0.0500	0.0552		mg/Kg		110	67 - 129	8	30
Bromoform	0.0500	0.0610		mg/Kg		122	68 - 136	10	30
Bromomethane	0.0500	0.0856	*+	mg/Kg		171	70 - 130	1	30
2-Butanone (MEK)	0.0500	0.0524		mg/Kg		105	47 - 138	11	30
Carbon disulfide	0.0500	0.0505		mg/Kg		101	70 - 129	5	30
Carbon tetrachloride	0.0500	0.0572		mg/Kg		114	75 - 125	7	30
Chlorobenzene	0.0500	0.0511		mg/Kg		102	50 - 150	3	30
Chloroethane	0.0500	0.0557		mg/Kg		111	75 - 125	3	30
Chloroform	0.0500	0.0524		mg/Kg		105	57 - 135	5	30
Chloromethane	0.0500	0.0425		mg/Kg		85	70 - 125	3	30
cis-1,2-Dichloroethene	0.0500	0.0500		mg/Kg		100	70 - 125	4	30
cis-1,3-Dichloropropene	0.0500	0.0493		mg/Kg		99	70 - 125	3	30
Dibromochloromethane	0.0500	0.0555		mg/Kg		111	69 - 125	6	30
1,1-Dichloroethane	0.0500	0.0458		mg/Kg		92	70 - 125	6	30
1,2-Dichloroethane	0.0500	0.0582		mg/Kg		116	70 - 130	9	30
1,1-Dichloroethene	0.0500	0.0549		mg/Kg		110	70 - 120	6	30
1,2-Dichloropropane	0.0500	0.0462		mg/Kg		92	70 - 125	6	30
Ethylbenzene	0.0500	0.0494		mg/Kg		99	61 - 136	3	30
2-Hexanone	0.0500	0.0526		mg/Kg		105	48 - 146	13	30
Methylene Chloride	0.0500	0.0502		mg/Kg		100	70 - 126	6	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0479		mg/Kg		96	50 - 148	7	30
Methyl tert-butyl ether	0.0500	0.0543		mg/Kg		109	50 - 140	10	30
Styrene	0.0500	0.0514		mg/Kg		103	70 - 125	5	30
1,1,2,2-Tetrachloroethane	0.0500	0.0525		mg/Kg		105	70 - 122	9	30
Tetrachloroethene	0.0500	0.0540		mg/Kg		108	70 - 124	4	30
Toluene	0.0500	0.0509		mg/Kg		102	70 - 125	4	30
trans-1,2-Dichloroethene	0.0500	0.0529		mg/Kg		106	70 - 125	8	30
trans-1,3-Dichloropropene	0.0500	0.0538		mg/Kg		108	70 - 125	6	30
1,1,1-Trichloroethane	0.0500	0.0574		mg/Kg		115	70 - 128	4	30
1,1,2-Trichloroethane	0.0500	0.0566		mg/Kg		113	70 - 125	8	30
Trichloroethene	0.0500	0.0518		mg/Kg		104	70 - 125	5	30
Vinyl acetate	0.0500	0.0519		mg/Kg		104	40 - 153	2	30
Vinyl chloride	0.0500	0.0509		mg/Kg		102	70 - 125	3	30
Xylenes, Total	0.100	0.106		mg/Kg		106	53 - 147	3	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		75 - 131
Dibromofluoromethane	110		75 - 126
1,2-Dichloroethane-d4 (Surr)	112		70 - 134
Toluene-d8 (Surr)	105		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

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

Lab Sample ID: MB 500-644398/1-A
Matrix: Solid
Analysis Batch: 644453

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644398

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/24/22 19:39	02/25/22 11:55	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

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

Lab Sample ID: MB 500-644398/1-A
Matrix: Solid
Analysis Batch: 644453

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644398

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/24/22 19:39	02/25/22 11:55	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/24/22 19:39	02/25/22 11:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	94		31 - 166	02/24/22 19:39	02/25/22 11:55	1
Phenol-d5	84		30 - 153	02/24/22 19:39	02/25/22 11:55	1
Nitrobenzene-d5 (Surr)	81		37 - 147	02/24/22 19:39	02/25/22 11:55	1
2-Fluorobiphenyl (Surr)	96		43 - 145	02/24/22 19:39	02/25/22 11:55	1
2,4,6-Tribromophenol	96		31 - 143	02/24/22 19:39	02/25/22 11:55	1
Terphenyl-d14 (Surr)	98		42 - 157	02/24/22 19:39	02/25/22 11:55	1

Lab Sample ID: LCS 500-644398/2-A
Matrix: Solid
Analysis Batch: 644453

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644398

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.15		mg/Kg		86	56 - 122
Bis(2-chloroethyl)ether	1.33	1.14		mg/Kg		86	55 - 111
1,3-Dichlorobenzene	1.33	1.30		mg/Kg		98	65 - 124
1,4-Dichlorobenzene	1.33	1.28		mg/Kg		96	61 - 110
1,2-Dichlorobenzene	1.33	1.28		mg/Kg		96	62 - 110
2-Methylphenol	1.33	1.53		mg/Kg		115	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.01		mg/Kg		76	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.15		mg/Kg		86	56 - 118
Hexachloroethane	1.33	1.22		mg/Kg		92	60 - 114
2-Chlorophenol	1.33	1.27		mg/Kg		95	64 - 110
Nitrobenzene	1.33	1.28		mg/Kg		96	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.27		mg/Kg		95	60 - 112
1,2,4-Trichlorobenzene	1.33	1.52		mg/Kg		114	66 - 117
Isophorone	1.33	1.29		mg/Kg		96	55 - 110
2,4-Dimethylphenol	1.33	1.30		mg/Kg		98	60 - 110
Hexachlorobutadiene	1.33	1.85	+	mg/Kg		139	56 - 120
Naphthalene	1.33	1.38		mg/Kg		103	63 - 110
2,4-Dichlorophenol	1.33	1.47		mg/Kg		111	58 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

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

Lab Sample ID: LCS 500-644398/2-A
Matrix: Solid
Analysis Batch: 644453

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644398

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	1.24		mg/Kg		93	30 - 150
2,4,6-Trichlorophenol	1.33	1.68	*+	mg/Kg		126	57 - 120
2,4,5-Trichlorophenol	1.33	1.76	*+	mg/Kg		132	50 - 120
Hexachlorocyclopentadiene	1.33	0.477	J	mg/Kg		36	10 - 133
2-Methylnaphthalene	1.33	1.47		mg/Kg		110	69 - 112
2-Nitroaniline	1.33	1.11		mg/Kg		83	57 - 124
2-Chloronaphthalene	1.33	1.36		mg/Kg		102	69 - 114
4-Chloro-3-methylphenol	1.33	1.26		mg/Kg		94	65 - 122
2,6-Dinitrotoluene	1.33	1.43		mg/Kg		107	70 - 123
2-Nitrophenol	1.33	1.40		mg/Kg		105	60 - 120
3-Nitroaniline	1.33	1.12		mg/Kg		84	40 - 122
Dimethyl phthalate	1.33	1.44		mg/Kg		108	69 - 116
2,4-Dinitrophenol	2.67	0.828		mg/Kg		31	10 - 100
Acenaphthylene	1.33	1.40		mg/Kg		105	68 - 120
2,4-Dinitrotoluene	1.33	1.44		mg/Kg		108	69 - 124
Acenaphthene	1.33	1.33		mg/Kg		100	65 - 124
Dibenzofuran	1.33	1.48		mg/Kg		111	66 - 115
4-Nitrophenol	2.67	1.86		mg/Kg		70	30 - 122
Fluorene	1.33	1.39		mg/Kg		104	62 - 120
4-Nitroaniline	1.33	1.25		mg/Kg		94	60 - 160
4-Bromophenyl phenyl ether	1.33	1.63	*+	mg/Kg		122	68 - 118
Hexachlorobenzene	1.33	1.66		mg/Kg		124	63 - 124
Diethyl phthalate	1.33	1.39		mg/Kg		105	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.74	*+	mg/Kg		130	62 - 119
Pentachlorophenol	2.67	2.58		mg/Kg		97	13 - 112
N-Nitrosodiphenylamine	1.33	1.26		mg/Kg		94	65 - 112
4,6-Dinitro-2-methylphenol	2.67	1.02		mg/Kg		38	10 - 110
Phenanthrene	1.33	1.29		mg/Kg		97	62 - 120
Anthracene	1.33	1.31		mg/Kg		98	70 - 114
Carbazole	1.33	1.42		mg/Kg		106	65 - 142
Di-n-butyl phthalate	1.33	1.24		mg/Kg		93	65 - 120
Fluoranthene	1.33	1.57		mg/Kg		118	62 - 120
Pyrene	1.33	1.30		mg/Kg		97	61 - 128
Butyl benzyl phthalate	1.33	1.01		mg/Kg		76	71 - 129
Benzo[a]anthracene	1.33	1.30		mg/Kg		97	67 - 122
Chrysene	1.33	1.28		mg/Kg		96	63 - 120
3,3'-Dichlorobenzidine	1.33	1.29		mg/Kg		97	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.05		mg/Kg		79	72 - 131
Di-n-octyl phthalate	1.33	1.33		mg/Kg		100	68 - 134
Benzo[b]fluoranthene	1.33	1.40		mg/Kg		105	69 - 129
Benzo[k]fluoranthene	1.33	1.33		mg/Kg		100	68 - 127
Benzo[a]pyrene	1.33	1.55		mg/Kg		116	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.39		mg/Kg		104	68 - 130
Dibenz(a,h)anthracene	1.33	1.43		mg/Kg		107	64 - 131
Benzo[g,h,i]perylene	1.33	1.38		mg/Kg		103	72 - 131
3 & 4 Methylphenol	1.33	1.27		mg/Kg		95	57 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

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

Lab Sample ID: LCS 500-644398/2-A
Matrix: Solid
Analysis Batch: 644453

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644398

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	97		31 - 166
Phenol-d5	93		30 - 153
Nitrobenzene-d5 (Surr)	96		37 - 147
2-Fluorobiphenyl (Surr)	115		43 - 145
2,4,6-Tribromophenol	131		31 - 143
Terphenyl-d14 (Surr)	103		42 - 157

Lab Sample ID: 500-212441-12 MS
Matrix: Solid
Analysis Batch: 644453

Client Sample ID: 2233V2-01-B16 (0-1)
Prep Type: Total/NA
Prep Batch: 644398

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Phenol	<0.22		1.74	1.24		mg/Kg	☼	71	56 - 122
Bis(2-chloroethyl)ether	<0.22	F1 F2	1.74	0.893	F1	mg/Kg	☼	51	55 - 111
1,3-Dichlorobenzene	<0.22	F1	1.74	0.868	F1	mg/Kg	☼	50	60 - 110
1,4-Dichlorobenzene	<0.22	F1	1.74	0.870	F1	mg/Kg	☼	50	61 - 110
1,2-Dichlorobenzene	<0.22	F1	1.74	0.919	F1	mg/Kg	☼	53	62 - 110
2-Methylphenol	<0.22		1.74	1.56		mg/Kg	☼	90	60 - 120
2,2'-oxybis[1-chloropropane]	<0.22		1.74	0.690		mg/Kg	☼	40	40 - 124
N-Nitrosodi-n-propylamine	<0.089	F1	1.74	0.917	F1	mg/Kg	☼	53	56 - 118
Hexachloroethane	<0.22	F1	1.74	0.552	F1	mg/Kg	☼	32	60 - 114
2-Chlorophenol	<0.22	F1	1.74	1.09	F1	mg/Kg	☼	62	64 - 110
Nitrobenzene	<0.044	F1	1.74	0.975	F1	mg/Kg	☼	56	60 - 116
Bis(2-chloroethoxy)methane	<0.22	F1	1.74	1.04	F1	mg/Kg	☼	59	60 - 112
1,2,4-Trichlorobenzene	<0.22		1.74	1.14		mg/Kg	☼	66	66 - 117
Isophorone	<0.22		1.74	1.07		mg/Kg	☼	62	55 - 110
2,4-Dimethylphenol	<0.44		1.74	1.20		mg/Kg	☼	69	60 - 110
Hexachlorobutadiene	<0.22	*+	1.74	1.40		mg/Kg	☼	80	56 - 120
Naphthalene	0.014	J F1	1.74	1.04	F1	mg/Kg	☼	59	63 - 110
2,4-Dichlorophenol	<0.44		1.74	1.30		mg/Kg	☼	75	58 - 120
4-Chloroaniline	<0.89	F1	1.74	0.437	J F1	mg/Kg	☼	25	30 - 150
2,4,6-Trichlorophenol	<0.44	*+	1.74	1.72		mg/Kg	☼	99	57 - 120
2,4,5-Trichlorophenol	<0.44	*+ F1	1.74	1.79		mg/Kg	☼	103	50 - 120
Hexachlorocyclopentadiene	<0.89	F1	1.74	<0.88	F1	mg/Kg	☼	0	10 - 133
2-Methylnaphthalene	0.014	J F1	1.74	1.14	F1	mg/Kg	☼	65	69 - 112
2-Nitroaniline	<0.22		1.74	1.03		mg/Kg	☼	59	57 - 124
2-Chloronaphthalene	<0.22	F1	1.74	1.16	F1	mg/Kg	☼	66	69 - 114
4-Chloro-3-methylphenol	<0.44		1.74	1.25		mg/Kg	☼	72	65 - 122
2,6-Dinitrotoluene	<0.22	F1	1.74	1.21	F1	mg/Kg	☼	69	70 - 123
2-Nitrophenol	<0.44		1.74	1.11		mg/Kg	☼	64	60 - 120
3-Nitroaniline	<0.44		1.74	0.729		mg/Kg	☼	42	40 - 122
Dimethyl phthalate	<0.22		1.74	1.30		mg/Kg	☼	74	69 - 116
2,4-Dinitrophenol	<0.89	F2	3.49	1.10		mg/Kg	☼	31	10 - 100
Acenaphthylene	0.014	J	1.74	1.23		mg/Kg	☼	70	68 - 120
2,4-Dinitrotoluene	<0.22		1.74	1.20		mg/Kg	☼	69	69 - 124
Acenaphthene	0.016	J	1.74	1.16		mg/Kg	☼	66	65 - 124
Dibenzofuran	<0.22		1.74	1.29		mg/Kg	☼	74	66 - 115
4-Nitrophenol	<0.89		3.49	2.61		mg/Kg	☼	75	30 - 122

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

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

Lab Sample ID: 500-212441-12 MS

Matrix: Solid

Analysis Batch: 644453

Client Sample ID: 2233V2-01-B16 (0-1)

Prep Type: Total/NA

Prep Batch: 644398

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluorene	0.015	J	1.74	1.24		mg/Kg	☼	70	62 - 120
4-Nitroaniline	<0.44	F1	1.74	0.850	F1	mg/Kg	☼	49	60 - 160
4-Bromophenyl phenyl ether	<0.22	*+	1.74	1.51		mg/Kg	☼	87	68 - 118
Hexachlorobenzene	<0.089		1.74	1.53		mg/Kg	☼	88	63 - 124
Diethyl phthalate	<0.22		1.74	1.24		mg/Kg	☼	71	58 - 120
4-Chlorophenyl phenyl ether	<0.22	*+	1.74	1.58		mg/Kg	☼	90	62 - 119
Pentachlorophenol	<0.89	F1 F2	3.49	3.03		mg/Kg	☼	87	13 - 112
N-Nitrosodiphenylamine	<0.22	F1	1.74	1.12	F1	mg/Kg	☼	64	65 - 112
4,6-Dinitro-2-methylphenol	<0.89	F2	3.49	0.916		mg/Kg	☼	26	10 - 110
Phenanthrene	0.28		1.74	1.37		mg/Kg	☼	62	62 - 120
Anthracene	0.052	F1	1.74	1.21	F1	mg/Kg	☼	66	70 - 114
Carbazole	<0.22		1.74	1.30		mg/Kg	☼	75	65 - 142
Di-n-butyl phthalate	<0.22	F1	1.74	1.05	F1	mg/Kg	☼	60	65 - 120
Fluoranthene	0.71		1.74	1.87		mg/Kg	☼	66	62 - 120
Pyrene	0.68		1.74	2.04		mg/Kg	☼	78	61 - 128
Butyl benzyl phthalate	<0.22	F1	1.74	1.12	F1	mg/Kg	☼	64	71 - 129
Benzo[a]anthracene	0.28	F1	1.74	1.40	F1	mg/Kg	☼	64	67 - 122
Chrysene	0.40		1.74	1.50		mg/Kg	☼	63	63 - 120
3,3'-Dichlorobenzidine	<0.22	F1	1.74	0.182	J F1	mg/Kg	☼	10	35 - 128
Bis(2-ethylhexyl) phthalate	0.081	J F1	1.74	1.14	F1	mg/Kg	☼	61	72 - 131
Di-n-octyl phthalate	<0.22	F1	1.74	0.834	F1	mg/Kg	☼	48	68 - 134
Benzo[b]fluoranthene	0.72	*3	1.74	2.08	*3	mg/Kg	☼	78	69 - 129
Benzo[k]fluoranthene	0.24	*3	1.74	1.83	*3	mg/Kg	☼	91	68 - 127
Benzo[a]pyrene	0.41	*3	1.74	1.77	*3	mg/Kg	☼	78	65 - 133
Indeno[1,2,3-cd]pyrene	0.15	*3 F1	1.74	0.797	F1 *3	mg/Kg	☼	37	68 - 130
Dibenz(a,h)anthracene	0.049	*3 F1	1.74	0.752	F1 *3	mg/Kg	☼	40	64 - 131
Benzo[g,h,i]perylene	0.17	*3 F1	1.74	0.676	F1 *3	mg/Kg	☼	29	72 - 131
3 & 4 Methylphenol	<0.22		1.74	1.16		mg/Kg	☼	67	57 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorophenol	68		31 - 166
Phenol-d5	69		30 - 153
Nitrobenzene-d5 (Surr)	58		37 - 147
2-Fluorobiphenyl (Surr)	74		43 - 145
2,4,6-Tribromophenol	103		31 - 143
Terphenyl-d14 (Surr)	98		42 - 157

Lab Sample ID: 500-212441-12 MSD

Matrix: Solid

Analysis Batch: 644453

Client Sample ID: 2233V2-01-B16 (0-1)

Prep Type: Total/NA

Prep Batch: 644398

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol	<0.22		1.74	1.53		mg/Kg	☼	88	56 - 122	21	30
Bis(2-chloroethyl)ether	<0.22	F1 F2	1.74	1.36	F2	mg/Kg	☼	78	55 - 111	42	30
1,3-Dichlorobenzene	<0.22	F1	1.74	1.06		mg/Kg	☼	61	60 - 110	20	30
1,4-Dichlorobenzene	<0.22	F1	1.74	1.07		mg/Kg	☼	62	61 - 110	21	30
1,2-Dichlorobenzene	<0.22	F1	1.74	1.16		mg/Kg	☼	67	62 - 110	23	30
2-Methylphenol	<0.22		1.74	2.01		mg/Kg	☼	115	60 - 120	25	30

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

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

Lab Sample ID: 500-212441-12 MSD

Matrix: Solid

Analysis Batch: 644453

Client Sample ID: 2233V2-01-B16 (0-1)

Prep Type: Total/NA

Prep Batch: 644398

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD		
2,2'-oxybis[1-chloropropane]	<0.22		1.74	0.871		mg/Kg	☼	50	40 - 124	23	30	
N-Nitrosodi-n-propylamine	<0.089	F1	1.74	1.13		mg/Kg	☼	65	56 - 118	21	30	
Hexachloroethane	<0.22	F1	1.74	0.630	F1	mg/Kg	☼	36	60 - 114	13	30	
2-Chlorophenol	<0.22	F1	1.74	1.33		mg/Kg	☼	76	64 - 110	20	30	
Nitrobenzene	<0.044	F1	1.74	1.18		mg/Kg	☼	68	60 - 116	19	30	
Bis(2-chloroethoxy)methane	<0.22	F1	1.74	1.24		mg/Kg	☼	71	60 - 112	18	30	
1,2,4-Trichlorobenzene	<0.22		1.74	1.44		mg/Kg	☼	83	66 - 117	23	30	
Isophorone	<0.22		1.74	1.29		mg/Kg	☼	74	55 - 110	18	30	
2,4-Dimethylphenol	<0.44		1.74	1.41		mg/Kg	☼	81	60 - 110	17	30	
Hexachlorobutadiene	<0.22	*+	1.74	1.74		mg/Kg	☼	100	56 - 120	22	30	
Naphthalene	0.014	J F1	1.74	1.30		mg/Kg	☼	74	63 - 110	22	30	
2,4-Dichlorophenol	<0.44		1.74	1.55		mg/Kg	☼	89	58 - 120	18	30	
4-Chloroaniline	<0.89	F1	1.74	0.590	J	mg/Kg	☼	34	30 - 150	30	30	
2,4,6-Trichlorophenol	<0.44	*+	1.74	2.04		mg/Kg	☼	117	57 - 120	17	30	
2,4,5-Trichlorophenol	<0.44	*+ F1	1.74	2.10	F1	mg/Kg	☼	121	50 - 120	16	30	
Hexachlorocyclopentadiene	<0.89	F1	1.74	<0.87	F1	mg/Kg	☼	0	10 - 133	NC	30	
2-Methylnaphthalene	0.014	J F1	1.74	1.40		mg/Kg	☼	80	69 - 112	20	30	
2-Nitroaniline	<0.22		1.74	1.18		mg/Kg	☼	68	57 - 124	14	30	
2-Chloronaphthalene	<0.22	F1	1.74	1.38		mg/Kg	☼	79	69 - 114	17	30	
4-Chloro-3-methylphenol	<0.44		1.74	1.43		mg/Kg	☼	82	65 - 122	13	30	
2,6-Dinitrotoluene	<0.22	F1	1.74	1.40		mg/Kg	☼	81	70 - 123	15	30	
2-Nitrophenol	<0.44		1.74	1.35		mg/Kg	☼	78	60 - 120	19	30	
3-Nitroaniline	<0.44		1.74	0.932		mg/Kg	☼	54	40 - 122	25	30	
Dimethyl phthalate	<0.22		1.74	1.49		mg/Kg	☼	86	69 - 116	14	30	
2,4-Dinitrophenol	<0.89	F2	3.48	1.53	F2	mg/Kg	☼	44	10 - 100	33	30	
Acenaphthylene	0.014	J	1.74	1.42		mg/Kg	☼	81	68 - 120	15	30	
2,4-Dinitrotoluene	<0.22		1.74	1.37		mg/Kg	☼	79	69 - 124	14	30	
Acenaphthene	0.016	J	1.74	1.35		mg/Kg	☼	77	65 - 124	15	30	
Dibenzofuran	<0.22		1.74	1.51		mg/Kg	☼	87	66 - 115	15	30	
4-Nitrophenol	<0.89		3.48	3.05		mg/Kg	☼	88	30 - 122	15	30	
Fluorene	0.015	J	1.74	1.42		mg/Kg	☼	81	62 - 120	14	30	
4-Nitroaniline	<0.44	F1	1.74	0.930	F1	mg/Kg	☼	54	60 - 160	9	30	
4-Bromophenyl phenyl ether	<0.22	*+	1.74	1.74		mg/Kg	☼	100	68 - 118	14	30	
Hexachlorobenzene	<0.089		1.74	1.79		mg/Kg	☼	103	63 - 124	16	30	
Diethyl phthalate	<0.22		1.74	1.40		mg/Kg	☼	81	58 - 120	12	30	
4-Chlorophenyl phenyl ether	<0.22	*+	1.74	1.84		mg/Kg	☼	106	62 - 119	16	30	
Pentachlorophenol	<0.89	F1 F2	3.48	4.31	F1 F2	mg/Kg	☼	124	13 - 112	35	30	
N-Nitrosodiphenylamine	<0.22	F1	1.74	1.34		mg/Kg	☼	77	65 - 112	18	30	
4,6-Dinitro-2-methylphenol	<0.89	F2	3.48	1.26	F2	mg/Kg	☼	36	10 - 110	32	30	
Phenanthrene	0.28		1.74	1.69		mg/Kg	☼	81	62 - 120	21	30	
Anthracene	0.052	F1	1.74	1.42		mg/Kg	☼	79	70 - 114	16	30	
Carbazole	<0.22		1.74	1.52		mg/Kg	☼	87	65 - 142	15	30	
Di-n-butyl phthalate	<0.22	F1	1.74	1.25		mg/Kg	☼	72	65 - 120	17	30	
Fluoranthene	0.71		1.74	2.30		mg/Kg	☼	91	62 - 120	21	30	
Pyrene	0.68		1.74	2.52		mg/Kg	☼	106	61 - 128	21	30	
Butyl benzyl phthalate	<0.22	F1	1.74	1.32		mg/Kg	☼	76	71 - 129	16	30	
Benzo[a]anthracene	0.28	F1	1.74	1.66		mg/Kg	☼	79	67 - 122	16	30	
Chrysene	0.40		1.74	1.75		mg/Kg	☼	78	63 - 120	15	30	
3,3'-Dichlorobenzidine	<0.22	F1	1.74	0.204	J F1	mg/Kg	☼	12	35 - 128	11	30	

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

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

Lab Sample ID: 500-212441-12 MSD

Matrix: Solid

Analysis Batch: 644453

Client Sample ID: 2233V2-01-B16 (0-1)

Prep Type: Total/NA

Prep Batch: 644398

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
Bis(2-ethylhexyl) phthalate	0.081	J F1	1.74	1.30	F1	mg/Kg	☼	70	72 - 131	13	30	
Di-n-octyl phthalate	<0.22	F1	1.74	0.932	F1	mg/Kg	☼	54	68 - 134	11	30	
Benzo[b]fluoranthene	0.72	*3	1.74	2.49	*3	mg/Kg	☼	102	69 - 129	18	30	
Benzo[k]fluoranthene	0.24	*3	1.74	2.17	*3	mg/Kg	☼	111	68 - 127	17	30	
Benzo[a]pyrene	0.41	*3	1.74	2.08	*3	mg/Kg	☼	96	65 - 133	16	30	
Indeno[1,2,3-cd]pyrene	0.15	*3 F1	1.74	0.935	F1 *3	mg/Kg	☼	45	68 - 130	16	30	
Dibenz(a,h)anthracene	0.049	*3 F1	1.74	0.859	F1 *3	mg/Kg	☼	47	64 - 131	13	30	
Benzo[g,h,i]perylene	0.17	*3 F1	1.74	0.790	F1 *3	mg/Kg	☼	36	72 - 131	16	30	
3 & 4 Methylphenol	<0.22		1.74	1.31		mg/Kg	☼	75	57 - 120	12	30	

Surrogate	MSD		Limits
	%Recovery	Qualifier	
2-Fluorophenol	79		31 - 166
Phenol-d5	78		30 - 153
Nitrobenzene-d5 (Surr)	68		37 - 147
2-Fluorobiphenyl (Surr)	85		43 - 145
2,4,6-Tribromophenol	116		31 - 143
Terphenyl-d14 (Surr)	118		42 - 157

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-644572/1-A

Matrix: Solid

Analysis Batch: 644767

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 644572

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		02/26/22 05:00	02/27/22 15:21	1
Arsenic	<1.0		1.0	0.34	mg/Kg		02/26/22 05:00	02/27/22 15:21	1
Boron	<5.0		5.0	0.47	mg/Kg		02/26/22 05:00	02/27/22 15:21	1
Cadmium	0.0564	J	0.20	0.036	mg/Kg		02/26/22 05:00	02/27/22 15:21	1
Calcium	7.68	J	20	3.4	mg/Kg		02/26/22 05:00	02/27/22 15:21	1
Cobalt	<0.50		0.50	0.13	mg/Kg		02/26/22 05:00	02/27/22 15:21	1
Copper	<1.0		1.0	0.28	mg/Kg		02/26/22 05:00	02/27/22 15:21	1
Lead	<0.50		0.50	0.23	mg/Kg		02/26/22 05:00	02/27/22 15:21	1
Nickel	0.370	J	1.0	0.29	mg/Kg		02/26/22 05:00	02/27/22 15:21	1
Selenium	<1.0		1.0	0.59	mg/Kg		02/26/22 05:00	02/27/22 15:21	1
Silver	<0.50		0.50	0.13	mg/Kg		02/26/22 05:00	02/27/22 15:21	1
Thallium	<1.0		1.0	0.50	mg/Kg		02/26/22 05:00	02/27/22 15:21	1
Vanadium	<0.50		0.50	0.12	mg/Kg		02/26/22 05:00	02/27/22 15:21	1
Zinc	<2.0		2.0	0.88	mg/Kg		02/26/22 05:00	02/27/22 15:21	1

Lab Sample ID: MB 500-644572/1-A

Matrix: Solid

Analysis Batch: 645023

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 644572

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<1.0		1.0	0.11	mg/Kg		02/26/22 05:00	02/28/22 20:58	1
Beryllium	<0.40		0.40	0.093	mg/Kg		02/26/22 05:00	02/28/22 20:58	1
Chromium	1.18		1.0	0.50	mg/Kg		02/26/22 05:00	02/28/22 20:58	1
Iron	14.9	J	20	10	mg/Kg		02/26/22 05:00	02/28/22 20:58	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

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

Lab Sample ID: MB 500-644572/1-A
Matrix: Solid
Analysis Batch: 645023

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644572

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	<10		10	5.0	mg/Kg		02/26/22 05:00	02/28/22 20:58	1
Manganese	0.189	J	1.0	0.15	mg/Kg		02/26/22 05:00	02/28/22 20:58	1
Potassium	<50		50	18	mg/Kg		02/26/22 05:00	02/28/22 20:58	1
Sodium	<100		100	15	mg/Kg		02/26/22 05:00	02/28/22 20:58	1

Lab Sample ID: LCS 500-644572/2-A
Matrix: Solid
Analysis Batch: 644767

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644572

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	47.2		mg/Kg		94	80 - 120
Arsenic	10.0	8.01		mg/Kg		80	80 - 120
Boron	100	82.3		mg/Kg		82	80 - 120
Cadmium	5.00	4.55		mg/Kg		91	80 - 120
Chromium	20.0	21.0		mg/Kg		105	80 - 120
Cobalt	50.0	47.3		mg/Kg		95	80 - 120
Copper	25.0	24.6		mg/Kg		98	80 - 120
Lead	10.0	8.60		mg/Kg		86	80 - 120
Nickel	50.0	47.5		mg/Kg		95	80 - 120
Selenium	10.0	8.21		mg/Kg		82	80 - 120
Silver	5.00	4.58		mg/Kg		92	80 - 120
Thallium	10.0	8.38		mg/Kg		84	80 - 120
Vanadium	50.0	48.2		mg/Kg		96	80 - 120
Zinc	50.0	46.7		mg/Kg		93	80 - 120

Lab Sample ID: LCS 500-644572/2-A
Matrix: Solid
Analysis Batch: 645023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644572

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	200	190		mg/Kg		95	80 - 120
Beryllium	5.00	4.46		mg/Kg		89	80 - 120
Calcium	1000	898		mg/Kg		90	80 - 120
Iron	100	115		mg/Kg		115	80 - 120
Magnesium	1000	880		mg/Kg		88	80 - 120
Manganese	50.0	45.8		mg/Kg		92	80 - 120
Potassium	1000	947		mg/Kg		95	80 - 120
Sodium	1000	947		mg/Kg		95	80 - 120

Lab Sample ID: 500-212441-1 MS
Matrix: Solid
Analysis Batch: 644767

Client Sample ID: 2233V2-01-B26 (0-4)
Prep Type: Total/NA
Prep Batch: 644572

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.0695		26.5	7.93	F1	mg/Kg	⊛	30	75 - 125
Arsenic	1.88		5.31	12.6	F1	mg/Kg	⊛	203	75 - 125
Boron	2.42		53.1	46.2		mg/Kg	⊛	83	75 - 125
Cadmium	0.0254		2.65	2.39		mg/Kg	⊛	89	75 - 125
Cobalt	1.97		26.5	33.6		mg/Kg	⊛	119	75 - 125

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

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

Lab Sample ID: 500-212441-1 MS
Matrix: Solid
Analysis Batch: 644767

Client Sample ID: 2233V2-01-B26 (0-4)
Prep Type: Total/NA
Prep Batch: 644572

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Copper	4.62		13.3	29.8	F1	mg/Kg	⊛	190	75 - 125	
Lead	2.59		5.31	15.6	F1	mg/Kg	⊛	246	75 - 125	
Nickel	5.17		26.5	45.7	F1	mg/Kg	⊛	153	75 - 125	
Selenium	0.0436		5.31	3.74	F1	mg/Kg	⊛	70	75 - 125	
Silver	0.0218		2.65	2.60		mg/Kg	⊛	98	75 - 125	
Thallium	0.321		5.31	4.39		mg/Kg	⊛	77	75 - 125	
Vanadium	3.29		26.5	33.8		mg/Kg	⊛	115	75 - 125	
Zinc	12.3		26.5	84.0	F1	mg/Kg	⊛	270	75 - 125	

Lab Sample ID: 500-212441-1 MS
Matrix: Solid
Analysis Batch: 645023

Client Sample ID: 2233V2-01-B26 (0-4)
Prep Type: Total/NA
Prep Batch: 644572

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Barium	28	F1	106	106	F1	mg/Kg	⊛	74	75 - 125	
Beryllium	0.49		2.65	2.80		mg/Kg	⊛	87	75 - 125	
Chromium	10	B	10.6	18.5		mg/Kg	⊛	75	75 - 125	
Iron	16000	B	53.1	16300	4	mg/Kg	⊛	571	75 - 125	
Magnesium	27000		531	27300	4	mg/Kg	⊛	132	75 - 125	
Manganese	370	B	26.5	421	4	mg/Kg	⊛	176	75 - 125	
Potassium	1100	F1	531	1860	F1	mg/Kg	⊛	147	75 - 125	
Sodium	690		531	1110		mg/Kg	⊛	79	75 - 125	

Lab Sample ID: 500-212441-1 MS
Matrix: Solid
Analysis Batch: 645023

Client Sample ID: 2233V2-01-B26 (0-4)
Prep Type: Total/NA
Prep Batch: 644572

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Calcium	76000	B	531	87200	4	mg/Kg	⊛	2068	75 - 125	

Lab Sample ID: 500-212441-1 MSD
Matrix: Solid
Analysis Batch: 644767

Client Sample ID: 2233V2-01-B26 (0-4)
Prep Type: Total/NA
Prep Batch: 644572

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	
	Result	Qualifier	Added	Result	Qualifier						RPD	Limit
Antimony	0.0695		26.4	7.29	F1	mg/Kg	⊛	28	75 - 125	8	20	
Arsenic	1.88		5.28	13.4	F1	mg/Kg	⊛	219	75 - 125	6	20	
Boron	2.42		52.8	46.3		mg/Kg	⊛	83	75 - 125	0	20	
Cadmium	0.0254		2.64	2.24		mg/Kg	⊛	84	75 - 125	7	20	
Cobalt	1.97		26.4	35.0		mg/Kg	⊛	125	75 - 125	4	20	
Copper	4.62		13.2	31.3	F1	mg/Kg	⊛	202	75 - 125	5	20	
Lead	2.59		5.28	16.6	F1	mg/Kg	⊛	266	75 - 125	6	20	
Nickel	5.17		26.4	49.5	F1	mg/Kg	⊛	168	75 - 125	8	20	
Selenium	0.0436		5.28	3.80	F1	mg/Kg	⊛	72	75 - 125	2	20	
Silver	0.0218		2.64	2.55		mg/Kg	⊛	97	75 - 125	2	20	
Thallium	0.321		5.28	4.73		mg/Kg	⊛	84	75 - 125	8	20	
Vanadium	3.29		26.4	35.4		mg/Kg	⊛	122	75 - 125	5	20	
Zinc	12.3		26.4	90.2	F1	mg/Kg	⊛	295	75 - 125	7	20	

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

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

Lab Sample ID: 500-212441-1 MSD
Matrix: Solid
Analysis Batch: 645023

Client Sample ID: 2233V2-01-B26 (0-4)
Prep Type: Total/NA
Prep Batch: 644572

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	RPD	Limit
	Result	Qualifier		Result	Qualifier								
Barium	28	F1	106	112		mg/Kg	⊛	80	75 - 125	5	20		
Beryllium	0.49		2.64	2.73		mg/Kg	⊛	85	75 - 125	2	20		
Chromium	10	B	10.6	19.5		mg/Kg	⊛	85	75 - 125	5	20		
Iron	16000	B	52.8	19100	4	mg/Kg	⊛	5844	75 - 125	16	20		
Magnesium	27000		528	24300	4	mg/Kg	⊛	-443	75 - 125	12	20		
Manganese	370	B	26.4	395	4	mg/Kg	⊛	76	75 - 125	7	20		
Potassium	1100	F1	528	2010	F1	mg/Kg	⊛	176	75 - 125	8	20		
Sodium	690		528	1140		mg/Kg	⊛	86	75 - 125	3	20		

Lab Sample ID: 500-212441-1 MSD
Matrix: Solid
Analysis Batch: 645023

Client Sample ID: 2233V2-01-B26 (0-4)
Prep Type: Total/NA
Prep Batch: 644572

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	RPD	Limit
	Result	Qualifier		Result	Qualifier								
Calcium	76000	B	528	72200	4	mg/Kg	⊛	-752	75 - 125	19	20		

Lab Sample ID: 500-212441-1 DU
Matrix: Solid
Analysis Batch: 644767

Client Sample ID: 2233V2-01-B26 (0-4)
Prep Type: Total/NA
Prep Batch: 644572

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Antimony	0.0695		0.439	J	mg/Kg	⊛	NC	20
Arsenic	1.88		8.53	F3	mg/Kg	⊛	128	20
Boron	2.42		8.71	F3	mg/Kg	⊛	113	20
Cadmium	0.0254		0.0377	J F5	mg/Kg	⊛	39	20
Cobalt	1.97		8.86	F3	mg/Kg	⊛	127	20
Copper	4.62		18.4	F3	mg/Kg	⊛	120	20
Lead	2.59		11.5	F3	mg/Kg	⊛	127	20
Nickel	5.17		22.5	F3	mg/Kg	⊛	125	20
Selenium	0.0436		<0.55		mg/Kg	⊛	NC	20
Silver	0.0218		0.146	J	mg/Kg	⊛	NC	20
Thallium	0.321		0.675	F5	mg/Kg	⊛	71	20
Vanadium	3.29		12.7	F3	mg/Kg	⊛	118	20
Zinc	12.3		57.6	F3	mg/Kg	⊛	130	20

Lab Sample ID: 500-212441-1 DU
Matrix: Solid
Analysis Batch: 645023

Client Sample ID: 2233V2-01-B26 (0-4)
Prep Type: Total/NA
Prep Batch: 644572

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Barium	28	F1	31.3		mg/Kg	⊛	13	20
Beryllium	0.49		0.511		mg/Kg	⊛	5	20
Chromium	10	B	10.1		mg/Kg	⊛	3	20
Iron	16000	B	16500		mg/Kg	⊛	3	20
Magnesium	27000		28100		mg/Kg	⊛	5	20
Manganese	370	B	390		mg/Kg	⊛	4	20
Potassium	1100	F1	1120		mg/Kg	⊛	5	20
Sodium	690		746		mg/Kg	⊛	8	20

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

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

Lab Sample ID: 500-212441-1 DU
Matrix: Solid
Analysis Batch: 645023

Client Sample ID: 2233V2-01-B26 (0-4)
Prep Type: Total/NA
Prep Batch: 644572

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	76000	B	68300		mg/Kg	☼	11	20

Lab Sample ID: LCS 500-644582/2-A
Matrix: Solid
Analysis Batch: 644769

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644582

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.500	0.521		mg/L		104	80 - 120
Beryllium	0.0500	0.0471		mg/L		94	80 - 120
Boron	1.00	0.953		mg/L		95	80 - 120
Cadmium	0.0500	0.0528		mg/L		106	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Cobalt	0.500	0.537		mg/L		107	80 - 120
Iron	1.00	0.930		mg/L		93	80 - 120
Lead	0.100	0.104		mg/L		104	80 - 120
Manganese	0.500	0.484		mg/L		97	80 - 120
Nickel	0.500	0.531		mg/L		106	80 - 120
Selenium	0.100	0.130	*+	mg/L		130	80 - 120
Silver	0.0500	0.0532		mg/L		106	80 - 120
Zinc	0.500	0.575		mg/L		115	80 - 120

Lab Sample ID: LCS 500-644588/2-A
Matrix: Solid
Analysis Batch: 645022

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644588

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.0500	0.0483		mg/L		97	80 - 120
Lead	0.100	0.0949		mg/L		95	80 - 120
Manganese	0.500	0.519		mg/L		104	80 - 120

Lab Sample ID: LB 500-644383/1-B
Matrix: Solid
Analysis Batch: 644769

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644582

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		02/26/22 04:30	02/27/22 19:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/26/22 04:30	02/27/22 19:43	1
Boron	<0.50		0.50	0.050	mg/L		02/26/22 04:30	02/27/22 19:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/26/22 04:30	02/27/22 19:43	1
Chromium	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 19:43	1
Cobalt	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 19:43	1
Iron	<0.40		0.40	0.20	mg/L		02/26/22 04:30	02/27/22 19:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/26/22 04:30	02/27/22 19:43	1
Manganese	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 19:43	1
Nickel	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 19:43	1
Selenium	<0.050		0.050	0.020	mg/L		02/26/22 04:30	02/27/22 19:43	1
Silver	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 19:43	1
Zinc	<0.50		0.50	0.020	mg/L		02/26/22 04:30	02/27/22 19:43	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

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

Lab Sample ID: 500-212441-4 MS
Matrix: Solid
Analysis Batch: 644769

Client Sample ID: 2233V2-01-B24 (0-4)D
Prep Type: TCLP
Prep Batch: 644582

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Barium	0.52		0.500	1.03		mg/L		101	75 - 125
Beryllium	<0.0040		0.0500	0.0467		mg/L		93	75 - 125
Boron	0.052	J	1.00	0.961		mg/L		91	75 - 125
Cadmium	0.0020	J	0.0500	0.0537		mg/L		107	75 - 125
Chromium	<0.025		0.200	0.191		mg/L		95	75 - 125
Cobalt	0.014	J	0.500	0.535		mg/L		104	75 - 125
Iron	<0.40		1.00	1.03		mg/L		103	75 - 125
Lead	<0.0075		0.100	0.0962		mg/L		96	75 - 125
Manganese	6.1		0.500	6.49	4	mg/L		73	75 - 125
Nickel	0.017	J	0.500	0.530		mg/L		103	75 - 125
Selenium	<0.050	*+	0.100	0.116		mg/L		116	75 - 125
Silver	<0.025		0.0500	0.0525		mg/L		105	75 - 125
Zinc	<0.50		0.500	0.546		mg/L		109	75 - 125

Lab Sample ID: 500-212441-4 DU
Matrix: Solid
Analysis Batch: 644769

Client Sample ID: 2233V2-01-B24 (0-4)D
Prep Type: TCLP
Prep Batch: 644582

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Barium	0.52		0.513		mg/L		2	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	0.052	J	0.0506	J	mg/L		3	20
Cadmium	0.0020	J	<0.0050		mg/L		NC	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	0.014	J	0.0136	J	mg/L		2	20
Iron	<0.40		<0.40		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	6.1		6.03		mg/L		1	20
Nickel	0.017	J	0.0181	J	mg/L		5	20
Selenium	<0.050	*+	<0.050	*+	mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	<0.50		<0.50		mg/L		NC	20

Lab Sample ID: LB 500-644386/1-B
Matrix: Solid
Analysis Batch: 645022

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 644588

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/27/22 08:00	02/28/22 16:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/27/22 08:00	02/28/22 16:40	1
Manganese	0.0542		0.025	0.010	mg/L		02/27/22 08:00	02/28/22 16:40	1

Lab Sample ID: 500-212441-20 MS
Matrix: Solid
Analysis Batch: 645022

Client Sample ID: 2233V2-01-B04 (4-7.8)
Prep Type: SPLP East
Prep Batch: 644588

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cadmium	<0.0050		0.0500	0.0456		mg/L		91	75 - 125
Lead	0.052		0.100	0.147		mg/L		96	75 - 125

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

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

Lab Sample ID: 500-212441-20 MS
Matrix: Solid
Analysis Batch: 645022

Client Sample ID: 2233V2-01-B04 (4-7.8)
Prep Type: SPLP East
Prep Batch: 644588

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	1.1	B	0.500	1.56		mg/L		91	75 - 125

Lab Sample ID: 500-212441-20 DU
Matrix: Solid
Analysis Batch: 645022

Client Sample ID: 2233V2-01-B04 (4-7.8)
Prep Type: SPLP East
Prep Batch: 644588

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Lead	0.052		0.0508		mg/L		2	20
Manganese	1.1	B	1.13		mg/L		2	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-644582/2-A
Matrix: Solid
Analysis Batch: 644874

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644582

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.528		mg/L		106	80 - 120
Thallium	0.100	0.105		mg/L		105	80 - 120

Lab Sample ID: LB 500-644383/1-B
Matrix: Solid
Analysis Batch: 644874

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644582

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/26/22 04:30	02/28/22 12:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/26/22 04:30	02/28/22 12:17	1

Lab Sample ID: 500-212441-4 MS
Matrix: Solid
Analysis Batch: 644874

Client Sample ID: 2233V2-01-B24 (0-4)D
Prep Type: TCLP
Prep Batch: 644582

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0060		0.500	0.505		mg/L		101	75 - 125
Thallium	<0.0020		0.100	0.103		mg/L		103	75 - 125

Lab Sample ID: 500-212441-4 DU
Matrix: Solid
Analysis Batch: 644874

Client Sample ID: 2233V2-01-B24 (0-4)D
Prep Type: TCLP
Prep Batch: 644582

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-644827/13-A
Matrix: Solid
Analysis Batch: 645126

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644827

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 15:49	1

Lab Sample ID: LCS 500-644827/14-A
Matrix: Solid
Analysis Batch: 645126

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644827

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00202		mg/L		101	80 - 120

Lab Sample ID: LB 500-644383/1-C
Matrix: Solid
Analysis Batch: 645126

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644827

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 15:46	1

Lab Sample ID: 500-212441-13 MS
Matrix: Solid
Analysis Batch: 645126

Client Sample ID: 2233V2-01-B14 (0-5)
Prep Type: TCLP
Prep Batch: 644827

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00020		0.00100	0.00105		mg/L		105	75 - 125

Lab Sample ID: 500-212441-13 DU
Matrix: Solid
Analysis Batch: 645126

Client Sample ID: 2233V2-01-B14 (0-5)
Prep Type: TCLP
Prep Batch: 644827

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-644391/12-A
Matrix: Solid
Analysis Batch: 644606

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644391

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00723	J	0.017	0.0056	mg/Kg		02/24/22 18:30	02/25/22 19:32	1

Lab Sample ID: LCS 500-644391/13-A
Matrix: Solid
Analysis Batch: 644606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644391

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.176		mg/Kg		106	80 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

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

Lab Sample ID: MB 500-645065/12-A
Matrix: Solid
Analysis Batch: 645272

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645065

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		03/01/22 14:00	03/02/22 09:30	1

Lab Sample ID: LCS 500-645065/13-A
Matrix: Solid
Analysis Batch: 645272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645065

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.175		mg/Kg		105	80 - 120

Lab Sample ID: 500-212441-8 MS
Matrix: Solid
Analysis Batch: 645272

Client Sample ID: 2233V2-01-B20 (0-3)
Prep Type: Total/NA
Prep Batch: 645065

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.058	F1	0.0909	0.194	F1	mg/Kg	⊛	149	75 - 125

Lab Sample ID: 500-212441-8 MSD
Matrix: Solid
Analysis Batch: 645272

Client Sample ID: 2233V2-01-B20 (0-3)
Prep Type: Total/NA
Prep Batch: 645065

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.058	F1	0.0891	0.185	F1	mg/Kg	⊛	143	75 - 125	4	20

Lab Sample ID: 500-212441-8 DU
Matrix: Solid
Analysis Batch: 645272

Client Sample ID: 2233V2-01-B20 (0-3)
Prep Type: Total/NA
Prep Batch: 645065

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.058	F1	0.0809	F3	mg/Kg	⊛	33	20

Method: 9045D - pH

Lab Sample ID: 500-212441-19 DU
Matrix: Solid
Analysis Batch: 643892

Client Sample ID: 2233V2-01-B04 (0-4)D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.2		7.7		SU		7	

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B26 (0-4)

Lab Sample ID: 500-212441-1

Date Collected: 02/15/22 21:30

Matrix: Solid

Date Received: 02/16/22 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644386	02/24/22 12:44	EA	TAL CHI
SPLP East	Prep	3010A			644588	02/27/22 08:00	DAJ	TAL CHI
SPLP East	Analysis	6010B		1	645022	02/28/22 16:47	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6010B		1	644769	02/27/22 19:50	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6020A		1	644874	02/28/22 12:21	FXG	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	7470A			644827	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 15:53	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644304	02/24/22 05:34	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643794	02/22/22 09:07	LWN	TAL CHI

Client Sample ID: 2233V2-01-B26 (0-4)

Lab Sample ID: 500-212441-1

Date Collected: 02/15/22 21:30

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644405	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644469	02/25/22 12:36	PMF	TAL CHI
Total/NA	Prep	3541			644398	02/24/22 19:39	JP1	TAL CHI
Total/NA	Analysis	8270D		1	644453	02/25/22 12:37	SS	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 15:33	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645023	02/28/22 21:05	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		5	645023	02/28/22 21:22	JJB	TAL CHI
Total/NA	Prep	7471B			645065	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 09:33	MJG	TAL CHI

Client Sample ID: 2233V2-01-B25 (0-4)

Lab Sample ID: 500-212441-2

Date Collected: 02/15/22 21:45

Matrix: Solid

Date Received: 02/16/22 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644386	02/24/22 12:44	EA	TAL CHI
SPLP East	Prep	3010A			644588	02/27/22 08:00	DAJ	TAL CHI
SPLP East	Analysis	6010B		1	645022	02/28/22 16:50	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6010B		1	644873	02/28/22 11:02	JJB	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B25 (0-4)

Lab Sample ID: 500-212441-2

Date Collected: 02/15/22 21:45

Matrix: Solid

Date Received: 02/16/22 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6010B		1	644769	02/27/22 19:53	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6020A		1	644874	02/28/22 12:23	FXG	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	7470A			644827	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 15:55	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644304	02/24/22 05:37	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643794	02/22/22 09:07	LWN	TAL CHI

Client Sample ID: 2233V2-01-B25 (0-4)

Lab Sample ID: 500-212441-2

Date Collected: 02/15/22 21:45

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644405	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644469	02/25/22 13:03	PMF	TAL CHI
Total/NA	Prep	3541			644398	02/24/22 19:39	JP1	TAL CHI
Total/NA	Analysis	8270D		1	644453	02/25/22 12:58	SS	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 15:49	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645023	02/28/22 21:45	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		5	645023	02/28/22 21:48	JJB	TAL CHI
Total/NA	Prep	7471B			645065	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 09:40	MJG	TAL CHI

Client Sample ID: 2233V2-01-B24 (0-4)

Lab Sample ID: 500-212441-3

Date Collected: 02/15/22 21:53

Matrix: Solid

Date Received: 02/16/22 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644386	02/24/22 12:44	EA	TAL CHI
SPLP East	Prep	3010A			644588	02/27/22 08:00	DAJ	TAL CHI
SPLP East	Analysis	6010B		1	645022	02/28/22 16:53	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6010B		1	644769	02/27/22 19:57	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6020A		1	644874	02/28/22 12:25	FXG	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B24 (0-4)

Lab Sample ID: 500-212441-3

Date Collected: 02/15/22 21:53

Matrix: Solid

Date Received: 02/16/22 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	7470A			644827	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 15:57	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644304	02/24/22 05:39	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643794	02/22/22 09:07	LWN	TAL CHI

Client Sample ID: 2233V2-01-B24 (0-4)

Lab Sample ID: 500-212441-3

Date Collected: 02/15/22 21:53

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644405	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644469	02/25/22 13:29	PMF	TAL CHI
Total/NA	Prep	3541			644398	02/24/22 19:39	JP1	TAL CHI
Total/NA	Analysis	8270D		1	644453	02/25/22 13:20	SS	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 15:52	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645023	02/28/22 21:51	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		5	645023	02/28/22 21:55	JJB	TAL CHI
Total/NA	Prep	7471B			645065	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 09:41	MJG	TAL CHI

Client Sample ID: 2233V2-01-B24 (0-4)D

Lab Sample ID: 500-212441-4

Date Collected: 02/15/22 21:55

Matrix: Solid

Date Received: 02/16/22 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644386	02/24/22 12:44	EA	TAL CHI
SPLP East	Prep	3010A			644588	02/27/22 08:00	DAJ	TAL CHI
SPLP East	Analysis	6010B		1	645022	02/28/22 16:56	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6010B		1	644769	02/27/22 20:00	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6020A		1	644874	02/28/22 12:27	FXG	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	7470A			644827	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 15:59	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644304	02/24/22 05:41	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643794	02/22/22 09:07	LWN	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B24 (0-4)D

Lab Sample ID: 500-212441-4

Date Collected: 02/15/22 21:55

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644405	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644745	02/28/22 12:54	PMF	TAL CHI
Total/NA	Prep	3541			644398	02/24/22 19:39	JP1	TAL CHI
Total/NA	Analysis	8270D		1	644453	02/25/22 13:42	SS	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 15:56	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645023	02/28/22 21:58	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		5	645023	02/28/22 22:02	JJB	TAL CHI
Total/NA	Prep	7471B			645065	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 09:43	MJG	TAL CHI

Client Sample ID: 2233V2-01-B23 (0-4)

Lab Sample ID: 500-212441-5

Date Collected: 02/15/22 22:03

Matrix: Solid

Date Received: 02/16/22 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644386	02/24/22 12:44	EA	TAL CHI
SPLP East	Prep	3010A			644588	02/27/22 08:00	DAJ	TAL CHI
SPLP East	Analysis	6010B		1	645022	02/28/22 16:59	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6010B		1	644769	02/27/22 20:14	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6020A		1	644874	02/28/22 12:36	FXG	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	7470A			644827	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 16:01	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644304	02/24/22 05:44	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643794	02/22/22 09:07	LWN	TAL CHI

Client Sample ID: 2233V2-01-B23 (0-4)

Lab Sample ID: 500-212441-5

Date Collected: 02/15/22 22:03

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644405	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644469	02/25/22 14:23	PMF	TAL CHI
Total/NA	Prep	3541			644398	02/24/22 19:39	JP1	TAL CHI
Total/NA	Analysis	8270D		1	644453	02/25/22 14:03	SS	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 15:59	JJB	TAL CHI

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B23 (0-4)

Lab Sample ID: 500-212441-5

Date Collected: 02/15/22 22:03

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645023	02/28/22 22:05	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		5	645023	02/28/22 22:08	JJB	TAL CHI
Total/NA	Prep	7471B			645065	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 09:45	MJG	TAL CHI

Client Sample ID: 2233V2-01-B22 (0-2.6)

Lab Sample ID: 500-212441-6

Date Collected: 02/15/22 22:12

Matrix: Solid

Date Received: 02/16/22 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644386	02/24/22 12:44	EA	TAL CHI
SPLP East	Prep	3010A			644588	02/27/22 08:00	DAJ	TAL CHI
SPLP East	Analysis	6010B		1	645022	02/28/22 17:02	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6010B		1	644769	02/27/22 20:24	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6020A		1	644874	02/28/22 12:42	FXG	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	7470A			644827	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 16:03	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644304	02/24/22 05:46	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643794	02/22/22 09:07	LWN	TAL CHI

Client Sample ID: 2233V2-01-B22 (0-2.6)

Lab Sample ID: 500-212441-6

Date Collected: 02/15/22 22:12

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644405	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644469	02/25/22 14:50	PMF	TAL CHI
Total/NA	Prep	3541			644398	02/24/22 19:39	JP1	TAL CHI
Total/NA	Analysis	8270D		1	644453	02/25/22 14:25	SS	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 16:09	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645023	02/28/22 22:18	JJB	TAL CHI
Total/NA	Prep	7471B			645065	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 09:47	MJG	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B21 (0-2.9)
Date Collected: 02/15/22 22:20
Date Received: 02/16/22 12:20

Lab Sample ID: 500-212441-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644386	02/24/22 12:44	EA	TAL CHI
SPLP East	Prep	3010A			644588	02/27/22 08:00	DAJ	TAL CHI
SPLP East	Analysis	6010B		1	645022	02/28/22 17:05	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6010B		1	644769	02/27/22 20:27	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6020A		1	644874	02/28/22 12:44	FXG	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	7470A			644827	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 16:06	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644304	02/24/22 05:49	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643794	02/22/22 09:07	LWN	TAL CHI

Client Sample ID: 2233V2-01-B21 (0-2.9)
Date Collected: 02/15/22 22:20
Date Received: 02/16/22 12:20

Lab Sample ID: 500-212441-7
Matrix: Solid
Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644405	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644469	02/25/22 15:16	PMF	TAL CHI
Total/NA	Prep	3541			644398	02/24/22 19:39	JP1	TAL CHI
Total/NA	Analysis	8270D		1	644453	02/25/22 14:47	SS	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 16:12	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645023	02/28/22 22:25	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		5	645023	02/28/22 22:28	JJB	TAL CHI
Total/NA	Prep	7471B			645065	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 09:49	MJG	TAL CHI

Client Sample ID: 2233V2-01-B20 (0-3)
Date Collected: 02/15/22 22:27
Date Received: 02/16/22 12:20

Lab Sample ID: 500-212441-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644386	02/24/22 12:44	EA	TAL CHI
SPLP East	Prep	3010A			644588	02/27/22 08:00	DAJ	TAL CHI
SPLP East	Analysis	6010B		1	645022	02/28/22 17:09	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6010B		1	644769	02/27/22 20:31	JJB	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B20 (0-3)

Lab Sample ID: 500-212441-8

Date Collected: 02/15/22 22:27

Matrix: Solid

Date Received: 02/16/22 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6020A		1	644874	02/28/22 12:46	FXG	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	7470A			644827	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 16:12	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643892	02/22/22 20:20	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643794	02/22/22 09:07	LWN	TAL CHI

Client Sample ID: 2233V2-01-B20 (0-3)

Lab Sample ID: 500-212441-8

Date Collected: 02/15/22 22:27

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644405	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644469	02/25/22 15:43	PMF	TAL CHI
Total/NA	Prep	3541			644398	02/24/22 19:39	JP1	TAL CHI
Total/NA	Analysis	8270D		1	644453	02/25/22 15:08	SS	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 16:15	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645023	02/28/22 22:32	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		5	645023	02/28/22 22:35	JJB	TAL CHI
Total/NA	Prep	7471B			645065	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 09:51	MJG	TAL CHI

Client Sample ID: 2233V2-01-B19 (0-1.7)

Lab Sample ID: 500-212441-9

Date Collected: 02/15/22 22:35

Matrix: Solid

Date Received: 02/16/22 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644386	02/24/22 12:44	EA	TAL CHI
SPLP East	Prep	3010A			644588	02/27/22 08:00	DAJ	TAL CHI
SPLP East	Analysis	6010B		1	645022	02/28/22 17:18	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6010B		1	644769	02/27/22 20:34	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6020A		1	644874	02/28/22 12:48	FXG	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	7470A			644827	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 16:14	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643892	02/22/22 20:23	LWN	TAL CHI

Euofins Chicago

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B19 (0-1.7)
Date Collected: 02/15/22 22:35
Date Received: 02/16/22 12:20

Lab Sample ID: 500-212441-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	643794	02/22/22 09:07	LWN	TAL CHI

Client Sample ID: 2233V2-01-B19 (0-1.7)
Date Collected: 02/15/22 22:35
Date Received: 02/16/22 12:20

Lab Sample ID: 500-212441-9
Matrix: Solid
Percent Solids: 79.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644405	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644469	02/25/22 16:10	PMF	TAL CHI
Total/NA	Prep	3541			644398	02/24/22 19:39	JP1	TAL CHI
Total/NA	Analysis	8270D		1	644453	02/25/22 15:30	SS	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 16:18	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645023	02/28/22 22:38	JJB	TAL CHI
Total/NA	Prep	7471B			645065	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 10:04	MJG	TAL CHI

Client Sample ID: 2233V2-01-B18 (0-2)
Date Collected: 02/15/22 22:50
Date Received: 02/16/22 12:20

Lab Sample ID: 500-212441-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644386	02/24/22 12:44	EA	TAL CHI
SPLP East	Prep	3010A			644588	02/27/22 08:00	DAJ	TAL CHI
SPLP East	Analysis	6010B		1	645022	02/28/22 17:21	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6010B		1	644769	02/27/22 20:37	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6020A		1	644874	02/28/22 12:50	FXG	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	7470A			644827	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 16:16	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643892	02/22/22 20:25	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643794	02/22/22 09:07	LWN	TAL CHI

Client Sample ID: 2233V2-01-B18 (0-2)
Date Collected: 02/15/22 22:50
Date Received: 02/16/22 12:20

Lab Sample ID: 500-212441-10
Matrix: Solid
Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644405	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644469	02/25/22 16:37	PMF	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B18 (0-2)

Lab Sample ID: 500-212441-10

Date Collected: 02/15/22 22:50

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			644398	02/24/22 19:39	JP1	TAL CHI
Total/NA	Analysis	8270D		1	644772	02/28/22 14:07	SS	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 16:21	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645023	02/28/22 22:45	JJB	TAL CHI
Total/NA	Prep	7471B			645065	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 10:06	MJG	TAL CHI

Client Sample ID: 2233V2-01-B17 (0-1.5)

Lab Sample ID: 500-212441-11

Date Collected: 02/15/22 23:00

Matrix: Solid

Date Received: 02/16/22 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644386	02/24/22 12:44	EA	TAL CHI
SPLP East	Prep	3010A			644588	02/27/22 08:00	DAJ	TAL CHI
SPLP East	Analysis	6010B		1	645022	02/28/22 17:24	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6010B		1	644769	02/27/22 20:41	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6020A		1	644874	02/28/22 12:52	FXG	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	7470A			644827	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 16:18	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643892	02/22/22 20:28	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643794	02/22/22 09:07	LWN	TAL CHI

Client Sample ID: 2233V2-01-B17 (0-1.5)

Lab Sample ID: 500-212441-11

Date Collected: 02/15/22 23:00

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644405	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644469	02/25/22 17:03	PMF	TAL CHI
Total/NA	Prep	3541			644398	02/24/22 19:39	JP1	TAL CHI
Total/NA	Analysis	8270D		1	644453	02/25/22 16:13	SS	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 16:25	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645023	02/28/22 23:02	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		5	645023	02/28/22 23:05	JJB	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B17 (0-1.5)

Lab Sample ID: 500-212441-11

Date Collected: 02/15/22 23:00

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			645065	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 10:08	MJG	TAL CHI

Client Sample ID: 2233V2-01-B16 (0-1)

Lab Sample ID: 500-212441-12

Date Collected: 02/15/22 23:15

Matrix: Solid

Date Received: 02/16/22 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644386	02/24/22 12:44	EA	TAL CHI
SPLP East	Prep	3010A			644588	02/27/22 08:00	DAJ	TAL CHI
SPLP East	Analysis	6010B		1	645022	02/28/22 17:27	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6010B		1	644769	02/27/22 20:44	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6020A		1	644874	02/28/22 12:54	FXG	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	7470A			644827	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 16:21	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643892	02/22/22 20:30	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643794	02/22/22 09:07	LWN	TAL CHI

Client Sample ID: 2233V2-01-B16 (0-1)

Lab Sample ID: 500-212441-12

Date Collected: 02/15/22 23:15

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 75.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644405	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644469	02/25/22 17:30	PMF	TAL CHI
Total/NA	Prep	3541			644398	02/24/22 19:39	JP1	TAL CHI
Total/NA	Analysis	8270D		1	644453	02/25/22 16:35	SS	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 16:28	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645023	02/28/22 23:08	JJB	TAL CHI
Total/NA	Prep	7471B			645065	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 10:10	MJG	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B14 (0-5)

Lab Sample ID: 500-212441-13

Date Collected: 02/15/22 23:40

Matrix: Solid

Date Received: 02/16/22 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644386	02/24/22 12:44	EA	TAL CHI
SPLP East	Prep	3010A			644588	02/27/22 08:00	DAJ	TAL CHI
SPLP East	Analysis	6010B		1	645022	02/28/22 17:30	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6010B		1	644769	02/27/22 20:48	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6020A		1	644874	02/28/22 12:56	FXG	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	7470A			644827	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 16:23	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643892	02/22/22 20:33	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643794	02/22/22 09:07	LWN	TAL CHI

Client Sample ID: 2233V2-01-B14 (0-5)

Lab Sample ID: 500-212441-13

Date Collected: 02/15/22 23:40

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644405	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644469	02/25/22 17:56	PMF	TAL CHI
Total/NA	Prep	3541			644398	02/24/22 19:39	JP1	TAL CHI
Total/NA	Analysis	8270D		1	644772	02/28/22 14:31	SS	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 16:31	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645023	02/28/22 23:15	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		5	645023	02/28/22 23:18	JJB	TAL CHI
Total/NA	Prep	7471B			645065	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 10:12	MJG	TAL CHI

Client Sample ID: 2233V2-01-B11 (0-3)

Lab Sample ID: 500-212441-14

Date Collected: 02/16/22 00:00

Matrix: Solid

Date Received: 02/16/22 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644386	02/24/22 12:44	EA	TAL CHI
SPLP East	Prep	3010A			644588	02/27/22 08:00	DAJ	TAL CHI
SPLP East	Analysis	6010B		1	645022	02/28/22 17:34	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6010B		1	644769	02/27/22 20:51	JJB	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B11 (0-3)

Lab Sample ID: 500-212441-14

Date Collected: 02/16/22 00:00

Matrix: Solid

Date Received: 02/16/22 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6020A		1	644874	02/28/22 12:58	FXG	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	7470A			644827	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 16:29	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643892	02/22/22 20:35	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643794	02/22/22 09:07	LWN	TAL CHI

Client Sample ID: 2233V2-01-B11 (0-3)

Lab Sample ID: 500-212441-14

Date Collected: 02/16/22 00:00

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644405	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644469	02/25/22 18:23	PMF	TAL CHI
Total/NA	Prep	3541			644398	02/24/22 19:39	JP1	TAL CHI
Total/NA	Analysis	8270D		1	644772	02/28/22 14:54	SS	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 16:34	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645023	02/28/22 23:22	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		5	645023	02/28/22 23:25	JJB	TAL CHI
Total/NA	Prep	7471B			645065	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 10:15	MJG	TAL CHI

Client Sample ID: 2233V2-01-B11 (3-6.3)

Lab Sample ID: 500-212441-15

Date Collected: 02/16/22 00:03

Matrix: Solid

Date Received: 02/16/22 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644386	02/24/22 12:44	EA	TAL CHI
SPLP East	Prep	3010A			644588	02/27/22 08:00	DAJ	TAL CHI
SPLP East	Analysis	6010B		1	645104	03/01/22 11:50	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6010B		1	644769	02/27/22 20:54	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6020A		1	644874	02/28/22 13:00	FXG	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	7470A			644827	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 16:31	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643892	02/22/22 20:37	LWN	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B11 (3-6.3)

Lab Sample ID: 500-212441-15

Date Collected: 02/16/22 00:03

Matrix: Solid

Date Received: 02/16/22 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	643794	02/22/22 09:07	LWN	TAL CHI

Client Sample ID: 2233V2-01-B11 (3-6.3)

Lab Sample ID: 500-212441-15

Date Collected: 02/16/22 00:03

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644405	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644469	02/25/22 18:50	PMF	TAL CHI
Total/NA	Prep	3541			644398	02/24/22 19:39	JP1	TAL CHI
Total/NA	Analysis	8270D		1	644772	02/28/22 15:18	SS	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 16:37	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645023	02/28/22 23:28	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		5	645023	02/28/22 23:32	JJB	TAL CHI
Total/NA	Prep	7471B			645065	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 10:17	MJG	TAL CHI

Client Sample ID: 2233V2-01-B10 (0-3)

Lab Sample ID: 500-212441-16

Date Collected: 02/16/22 00:15

Matrix: Solid

Date Received: 02/16/22 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644386	02/24/22 12:44	EA	TAL CHI
SPLP East	Prep	3010A			644588	02/27/22 08:00	DAJ	TAL CHI
SPLP East	Analysis	6010B		1	645022	02/28/22 17:37	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6010B		1	644769	02/27/22 21:04	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6020A		1	644874	02/28/22 13:06	FXG	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	7470A			644827	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 16:38	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643892	02/22/22 20:40	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643794	02/22/22 09:07	LWN	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B10 (0-3)

Lab Sample ID: 500-212441-16

Date Collected: 02/16/22 00:15

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644405	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644469	02/25/22 19:17	PMF	TAL CHI
Total/NA	Prep	3541			644398	02/24/22 19:39	JP1	TAL CHI
Total/NA	Analysis	8270D		1	644453	02/25/22 18:45	SS	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 16:47	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645023	02/28/22 23:45	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		5	645023	02/28/22 23:49	JJB	TAL CHI
Total/NA	Prep	7471B			645065	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 10:19	MJG	TAL CHI

Client Sample ID: 2233V2-01-B10 (3-6.7)

Lab Sample ID: 500-212441-17

Date Collected: 02/16/22 00:22

Matrix: Solid

Date Received: 02/16/22 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644386	02/24/22 12:44	EA	TAL CHI
SPLP East	Prep	3010A			644588	02/27/22 08:00	DAJ	TAL CHI
SPLP East	Analysis	6010B		1	645022	02/28/22 17:40	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6010B		1	644769	02/27/22 21:07	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6020A		1	644874	02/28/22 13:08	FXG	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	7470A			644827	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 16:40	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643892	02/22/22 20:42	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643794	02/22/22 09:07	LWN	TAL CHI

Client Sample ID: 2233V2-01-B10 (3-6.7)

Lab Sample ID: 500-212441-17

Date Collected: 02/16/22 00:22

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644405	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644469	02/25/22 19:44	PMF	TAL CHI
Total/NA	Prep	3541			644398	02/24/22 19:39	JP1	TAL CHI
Total/NA	Analysis	8270D		1	644772	02/28/22 15:42	SS	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 16:50	JJB	TAL CHI

Eurofins Chicago

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B10 (3-6.7)
Date Collected: 02/16/22 00:22
Date Received: 02/16/22 12:20

Lab Sample ID: 500-212441-17
Matrix: Solid
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645023	02/28/22 23:52	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		5	645023	02/28/22 23:56	JJB	TAL CHI
Total/NA	Prep	7471B			645065	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 10:21	MJG	TAL CHI

Client Sample ID: 2233V2-01-B04 (0-4)
Date Collected: 02/16/22 00:53
Date Received: 02/16/22 12:20

Lab Sample ID: 500-212441-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644386	02/24/22 12:44	EA	TAL CHI
SPLP East	Prep	3010A			644588	02/27/22 08:00	DAJ	TAL CHI
SPLP East	Analysis	6010B		1	645022	02/28/22 17:43	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6010B		1	644873	02/28/22 11:06	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6010B		1	644769	02/27/22 21:11	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6020A		1	644874	02/28/22 13:10	FXG	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	7470A			644827	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 16:42	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643892	02/22/22 20:47	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643818	02/22/22 11:02	LWN	TAL CHI

Client Sample ID: 2233V2-01-B04 (0-4)
Date Collected: 02/16/22 00:53
Date Received: 02/16/22 12:20

Lab Sample ID: 500-212441-18
Matrix: Solid
Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644405	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644620	02/26/22 10:31	PMF	TAL CHI
Total/NA	Prep	3541			644398	02/24/22 19:39	JP1	TAL CHI
Total/NA	Analysis	8270D		1	644453	02/25/22 19:29	SS	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 16:54	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645023	02/28/22 23:59	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		5	645023	03/01/22 00:02	JJB	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B04 (0-4)

Lab Sample ID: 500-212441-18

Date Collected: 02/16/22 00:53

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			644391	02/24/22 18:30		TAL CHI
Total/NA	Analysis	7471B		1	644606	02/25/22 20:21	MJG	TAL CHI

Client Sample ID: 2233V2-01-B04 (0-4)D

Lab Sample ID: 500-212441-19

Date Collected: 02/16/22 00:55

Matrix: Solid

Date Received: 02/16/22 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644386	02/24/22 12:44	EA	TAL CHI
SPLP East	Prep	3010A			644588	02/27/22 08:00	DAJ	TAL CHI
SPLP East	Analysis	6010B		1	645022	02/28/22 17:46	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6010B		1	644769	02/27/22 21:14	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6020A		1	644874	02/28/22 13:12	FXG	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	7470A			644827	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 16:44	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643892	02/22/22 20:50	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643818	02/22/22 11:02	LWN	TAL CHI

Client Sample ID: 2233V2-01-B04 (0-4)D

Lab Sample ID: 500-212441-19

Date Collected: 02/16/22 00:55

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644405	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644620	02/26/22 10:56	PMF	TAL CHI
Total/NA	Prep	3541			644398	02/24/22 19:39	JP1	TAL CHI
Total/NA	Analysis	8270D		1	644453	02/25/22 19:51	SS	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 16:57	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645023	03/01/22 00:05	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		5	645023	03/01/22 00:09	JJB	TAL CHI
Total/NA	Prep	7471B			644391	02/24/22 18:30		TAL CHI
Total/NA	Analysis	7471B		1	644606	02/25/22 20:23	MJG	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Client Sample ID: 2233V2-01-B04 (4-7.8)

Lab Sample ID: 500-212441-20

Date Collected: 02/16/22 01:00

Matrix: Solid

Date Received: 02/16/22 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644386	02/24/22 12:44	EA	TAL CHI
SPLP East	Prep	3010A			644588	02/27/22 08:00	DAJ	TAL CHI
SPLP East	Analysis	6010B		1	645022	02/28/22 17:56	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6010B		1	644873	02/28/22 11:23	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6010B		1	644769	02/27/22 21:18	JJB	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644582	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6020A		1	644874	02/28/22 13:14	FXG	TAL CHI
TCLP	Leach	1311			644383	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	7470A			644827	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645126	03/01/22 16:46	MJG	TAL CHI
Total/NA	Analysis	9045D		1	643892	02/22/22 20:55	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643818	02/22/22 11:02	LWN	TAL CHI

Client Sample ID: 2233V2-01-B04 (4-7.8)

Lab Sample ID: 500-212441-20

Date Collected: 02/16/22 01:00

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644405	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644620	02/26/22 11:22	PMF	TAL CHI
Total/NA	Prep	3541			644398	02/24/22 19:39	JP1	TAL CHI
Total/NA	Analysis	8270D		1	644453	02/25/22 20:12	SS	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 17:00	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645023	03/01/22 00:12	JJB	TAL CHI
Total/NA	Prep	3050B			644572	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		5	645023	03/01/22 00:16	JJB	TAL CHI
Total/NA	Prep	7471B			644391	02/24/22 18:30		TAL CHI
Total/NA	Analysis	7471B		1	644606	02/25/22 20:24	MJG	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212441-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

- 1
- 2
- 3
- 4
- 5
- 6
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Chain of Custody Record

542795



Environment Testing
TestAmerica

TAL-8210

Address: _____

Regulatory Program: DW NPDES RCRA Other

Client Contact		Project Manager: D Tiebout		Site Contact A Happel		Date 2/15/2022		COC No 1	
Company Name WSP		Tel/Email:		Lab Contact R Wright		Carrier		1 of 3 COCs	
Address: 30 N Lasalle		Analysis Turnaround Time							
City/State/Zip: Chicago IL		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS							
Phone:		TAT if different from Below _____							
Fax:		<input type="checkbox"/> 2 weeks							
Project Name: 1007 WOODS		<input type="checkbox"/> 1 week							
Site: Joliet		<input type="checkbox"/> 2 days							
P O #:		<input type="checkbox"/> 1 day							
						<p>500-212441 COC</p>		Sampler: For Lab Use Only Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/>	
								Job / SDG No 500-212441	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sample Specific Notes
1	2233V2-01-B26(0-4)	2/15/22	2130	S	C	2	X	X	
2	2233V2-01-B25(0-4)	2/15/22	2145	S	C	2	X	X	
3	2233V2-01-B24(0-4)	2/15/22	2153	S	C	2	X	X	
4	2233V2-01-B24(0-4) DUP	2/15/22	2155	S	C	2	X	X	
5	2233V2-01-B23(0-4)	2/15/22	2203	S	C	2	X	X	
6	2233V2-01-B22(0-2.6)	2/15/22	2212	S	C	2	X	X	
7	2233V2-01-B21(0-2.9)	2/15/22	2220	S	C	2	X	X	
8	2233V2-01-B20(0-3)	2/15/22	2227	S	C	2	X	X	
9	2233V2-01-B19(0-1.7)	2/15/22	2235	S	C	2	X	X	
10	2233V2-01-B18(0-2)	2/15/22	2250	S	C	2	X	X	
11	2233V2-01-B17(0-1.5) (BM)	2/15/22	2300	S	C	2	X	X	
12	2233V2-01-B16(0-2) (0-1)	2/15/22	2315	S	C	2	X	X	
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown							<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months		
Special Instructions/QC Requirements & Comments: * SPLP analysis based on TCLP results									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No _____			
Relinquished by Bryan McHenry		Company WSP		Date/Time 2/16/2022 0930		Received by R Neal		Company univis	
Relinquished by R. Neal		Company univis		Date/Time 2/16/22		Received by		Date/Time	
Relinquished by		Company		Date/Time		Received in Laboratory by John Scott		Company ETA	
								Date/Time 2/16/22 1220	

Chain of Custody Record

542796



Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact		Project Manager <i>D Tiebow</i>		Site Contact <i>A Happel</i>		Date: <i>2/15/2022</i>		COC No <i>2</i>	
Company Name <i>WSP</i>		Tel/Email		Lab Contact <i>R Wright</i>		Carrier:		<i>2</i> of <i>3</i> COCs	
Address <i>30 N LaSalle</i>		Analysis Turnaround Time							
City/State/Zip <i>Chicago IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____							
Phone		<input type="checkbox"/> 2 weeks		<input type="checkbox"/> 1 week		<input type="checkbox"/> 2 days		<input type="checkbox"/> 1 day	
Fax		Filtered Sample (Y/N) Perform MS / MSD (Y/N) <i>PH</i> <i>Y. Glyds</i> <i>VOCS</i> <i>SUDCS</i> <i>Total metals</i> <i>TCLP metals*</i>							
Project Name <i>Foot Woods</i>									
Site <i>Toilet</i>									
P O #									
Sampler		For Lab Use Only: Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/>							
Job / SDG No		<i>580-212441</i>							
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes		
<i>13</i>	<i>2233V2-01-B14(0-5)</i>	<i>2/15/22</i>	<i>1240</i>	<i>C</i>	<i>S</i>	<i>2</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>14</i>	<i>2233V2-01-B11(0-3)</i>	<i>2/16/22</i>	<i>0000</i>	<i>C</i>	<i>S</i>	<i>2</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>15</i>	<i>2233V2-01-B11(3-6.3)</i>	<i>2/16/22</i>	<i>0003</i>	<i>C</i>	<i>S</i>	<i>2</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>16</i>	<i>2233V2-01-B10(0-3)</i>	<i>2/16/22</i>	<i>0015</i>	<i>C</i>	<i>S</i>	<i>2</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>17</i>	<i>2233V2-01-B10(3-6.7)</i>	<i>2/16/22</i>	<i>0022</i>	<i>C</i>	<i>S</i>	<i>2</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>18</i>	<i>2233V2-01-B04(0-4)</i>	<i>2/16/22</i>	<i>0053</i>	<i>C</i>	<i>S</i>	<i>2</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>19</i>	<i>2233V2-01-B04(0-4) DUP</i>	<i>2/16/22</i>	<i>0055</i>	<i>C</i>	<i>S</i>	<i>2</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>20</i>	<i>2233V2-01-B04(4-7.8)</i>	<i>2/16/22</i>	<i>0100</i>	<i>C</i>	<i>S</i>	<i>2</i>	<i>X</i>	<i>X</i>	<i>X</i>
	<i>2233V2-01-B03(0-5)</i>	<i>2/16/22</i>	<i>0115</i>	<i>C</i>	<i>S</i>	<i>2</i>	<i>X</i>	<i>X</i>	<i>X</i>
	<i>2233V2-01-B03(5-9.6)</i>	<i>2/16/22</i>	<i>0118</i>	<i>C</i>	<i>S</i>	<i>2</i>	<i>X</i>	<i>X</i>	<i>X</i>
	<i>2233V2-01-B02(0-5)</i>	<i>2/16/22</i>	<i>0136</i>	<i>C</i>	<i>S</i>	<i>2</i>	<i>X</i>	<i>X</i>	<i>X</i>
	<i>2233V2-01-B02(5-10)</i>	<i>2/16/22</i>	<i>0140</i>	<i>C</i>	<i>S</i>	<i>2</i>	<i>X</i>	<i>X</i>	<i>X</i>
Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non-Hazardous <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown						<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months			
Special Instructions/QC Requirements & Comments: <i>* SPLP analysis based on TCLP results</i>									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp. (°C). Obs'd: _____		Corr'd: _____		Therm ID No _____	
Relinquished by: <i>Bryan McHenry</i>		Company: <i>WSP</i>		Date/Time: <i>2/16/22 0215</i>		Received by: <i>P. Neal</i>		Company: <i>envirofins</i>	
Relinquished by: <i>P. Neal</i>		Company: <i>envirofins</i>		Date/Time: <i>2/16/22 1220</i>		Received by: <i>Shirley Scott</i>		Company: <i>ERT</i>	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:	
								<i>2/16/22 1220</i>	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-212441-1

Login Number: 212441

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.5,2.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

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

Laboratory Job ID: 500-212442-1
Client Project/Site: IDOT - 196-002-WO003 Joliet

For:
WSP USA Inc.
30 North LaSalle Street
Chicago, Illinois 60602

Attn: Dean Tiebot



Authorized for release by:
3/3/2022 2:05:22 PM

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

LINKS

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results through
TotalAccess

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www.eurofinsus.com/Env

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

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

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

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Case Narrative

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Job ID: 500-212442-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-212442-1

Receipt

The samples were received on 2/16/2022 12:20 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.4° C and 4.5° C.

GC/MS VOA

Method 8260B: Surrogate recovery for the following sample was outside the upper control limit: 2233V2-01-B02 (0-5) (500-212442-3). This sample did not contain any target analytes above the reporting limit; therefore, re-extraction and/or re-analysis was not performed.

Method 8260B: Surrogate/ internal standard recovery for the following sample was outside control limits: 2233V2-01-B01 (0-5) (500-212442-5). Evidence of matrix interference is present, as sample was analyzed twice concurring the failures. Therefore, re-extraction and/or re-analysis was not performed.

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

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-644670 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene, Pentachlorophenol, Pyrene and Terphenyl-d14. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

Metals

Method 6010B: The method blank for preparation batch 500-644579 and analytical batch 500-645033 contained Chromium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 6010B: The method blank for preparation batch 500-644579 and analytical batch 500-645033 contained Iron above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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

General Chemistry

Method 9045D: Soil pH holding time is immediate. The laboratory has established an in lab holding time of 7 days for soils. The following samples were analyzed outside the laboratory holding time due to an equipment malfunction and have been flagged accordingly. 2233V2-01-B03 (0-5) (500-212442-1) and 2233V2-01-B03 (5-9.6) (500-212442-2).

Method 9045D: Soil pH holding time is immediate. The laboratory has established an in lab holding time of 7 days for soils. The following samples were analyzed outside the laboratory holding time due to an equipment malfunction and have been flagged accordingly. 2233V2-01-B02 (0-5) (500-212442-3), 2233V2-01-B02 (5-10) (500-212442-4), 2233V2-01-B01 (0-5) (500-212442-5) and 2233V2-01-B01 (5-10) (500-212442-6).

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

Organic Prep

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

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B03 (0-5)

Lab Sample ID: 500-212442-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.022		0.018	0.0076	mg/Kg	1	✳	8260B	Total/NA
Phenanthrene	0.013	J	0.038	0.0053	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.010	J	0.038	0.010	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.34	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	8.3		0.59	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	41		0.59	0.067	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.44		0.24	0.055	mg/Kg	1	✳	6010B	Total/NA
Boron	5.2		3.0	0.28	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.041	J B	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Calcium	57000	B	59	10	mg/Kg	5	✳	6010B	Total/NA
Chromium	12	B	0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	11		0.30	0.077	mg/Kg	1	✳	6010B	Total/NA
Copper	21		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	18000	B	12	6.1	mg/Kg	1	✳	6010B	Total/NA
Lead	15		0.30	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	26000		5.9	2.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	370	B	0.59	0.086	mg/Kg	1	✳	6010B	Total/NA
Nickel	26		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Potassium	1200		30	10	mg/Kg	1	✳	6010B	Total/NA
Sodium	2200		59	8.7	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.58	J	0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Vanadium	15		0.30	0.070	mg/Kg	1	✳	6010B	Total/NA
Zinc	61		1.2	0.52	mg/Kg	1	✳	6010B	Total/NA
Barium	0.55		0.50	0.050	mg/L	1		6010B	TCLP
Manganese	3.9		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.6		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.038		0.018	0.0061	mg/Kg	1	✳	7471B	Total/NA
pH	8.0	HF	0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2233V2-01-B03 (5-9.6)

Lab Sample ID: 500-212442-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.024		0.018	0.0077	mg/Kg	1	✳	8260B	Total/NA
2-Butanone (MEK)	0.0031	J	0.0044	0.0020	mg/Kg	1	✳	8260B	Total/NA
Phenanthrene	0.0057	J	0.038	0.0053	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.32	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	9.1		0.55	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	57		0.55	0.063	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.48		0.22	0.052	mg/Kg	1	✳	6010B	Total/NA
Boron	4.8		2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.064	J B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	67000	B	55	9.4	mg/Kg	5	✳	6010B	Total/NA
Chromium	13	B	0.55	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	10		0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Copper	22		0.55	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	19000	B	11	5.8	mg/Kg	1	✳	6010B	Total/NA
Lead	13		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	27000		5.5	2.7	mg/Kg	1	✳	6010B	Total/NA
Manganese	400	B	0.55	0.080	mg/Kg	1	✳	6010B	Total/NA
Nickel	27		0.55	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	1100		28	9.8	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B03 (5-9.6) (Continued)

Lab Sample ID: 500-212442-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	1200		55	8.2	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.52	J	0.55	0.28	mg/Kg	1	✳	6010B	Total/NA
Vanadium	15		0.28	0.065	mg/Kg	1	✳	6010B	Total/NA
Zinc	61		1.1	0.49	mg/Kg	1	✳	6010B	Total/NA
Barium	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Manganese	3.4		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.035	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.025		0.019	0.0063	mg/Kg	1	✳	7471B	Total/NA
pH	7.7	HF	0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2233V2-01-B02 (0-5)

Lab Sample ID: 500-212442-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.012	J	0.019	0.0082	mg/Kg	1	✳	8260B	Total/NA
2-Methylnaphthalene	0.0072	J	0.075	0.0068	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.014	J	0.037	0.0052	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.012	J	0.037	0.010	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.25	J	1.1	0.21	mg/Kg	1	✳	6010B	Total/NA
Arsenic	11		0.53	0.18	mg/Kg	1	✳	6010B	Total/NA
Barium	32		0.53	0.061	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.34		0.21	0.050	mg/Kg	1	✳	6010B	Total/NA
Boron	5.3		2.7	0.25	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.041	J B	0.11	0.019	mg/Kg	1	✳	6010B	Total/NA
Calcium	75000	B	53	9.1	mg/Kg	5	✳	6010B	Total/NA
Chromium	10	B	0.53	0.26	mg/Kg	1	✳	6010B	Total/NA
Cobalt	9.7		0.27	0.070	mg/Kg	1	✳	6010B	Total/NA
Copper	21		0.53	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	20000	B	53	28	mg/Kg	5	✳	6010B	Total/NA
Lead	12		0.27	0.12	mg/Kg	1	✳	6010B	Total/NA
Magnesium	39000		27	13	mg/Kg	5	✳	6010B	Total/NA
Manganese	380	B	0.53	0.077	mg/Kg	1	✳	6010B	Total/NA
Nickel	23		0.53	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	1100		27	9.5	mg/Kg	1	✳	6010B	Total/NA
Sodium	1600		53	7.9	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.56		0.53	0.27	mg/Kg	1	✳	6010B	Total/NA
Vanadium	12		0.27	0.063	mg/Kg	1	✳	6010B	Total/NA
Zinc	58		1.1	0.47	mg/Kg	1	✳	6010B	Total/NA
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	3.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.043	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	2.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.021		0.017	0.0058	mg/Kg	1	✳	7471B	Total/NA
pH	8.1	HF	0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2233V2-01-B02 (5-10)

Lab Sample ID: 500-212442-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.024		0.018	0.0078	mg/Kg	1	✳	8260B	Total/NA
Phenanthrene	0.017	J	0.037	0.0052	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B02 (5-10) (Continued)

Lab Sample ID: 500-212442-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.011	J	0.037	0.010	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.30	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	8.4		0.55	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	39		0.55	0.063	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.44		0.22	0.052	mg/Kg	1	✳	6010B	Total/NA
Boron	5.7		2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.024	J B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	57000	B	55	9.4	mg/Kg	5	✳	6010B	Total/NA
Chromium	14	B	0.55	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	12		0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Copper	20		0.55	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	19000	B	11	5.8	mg/Kg	1	✳	6010B	Total/NA
Lead	12		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	23000		5.5	2.8	mg/Kg	1	✳	6010B	Total/NA
Manganese	380	B	0.55	0.080	mg/Kg	1	✳	6010B	Total/NA
Nickel	27		0.55	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	1400		28	9.8	mg/Kg	1	✳	6010B	Total/NA
Sodium	390		55	8.2	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.31	J	0.55	0.28	mg/Kg	1	✳	6010B	Total/NA
Vanadium	15		0.28	0.065	mg/Kg	1	✳	6010B	Total/NA
Zinc	56		1.1	0.49	mg/Kg	1	✳	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	3.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.057	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.099		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.020		0.017	0.0058	mg/Kg	1	✳	7471B	Total/NA
pH	7.5	HF	0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2233V2-01-B01 (0-5)

Lab Sample ID: 500-212442-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.012	J	0.016	0.0071	mg/Kg	1	✳	8260B	Total/NA
2-Methylnaphthalene	0.012	J	0.078	0.0071	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.021	J	0.039	0.0054	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.012	J	0.039	0.0077	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.018	J	0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.30	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	11		0.57	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	23		0.57	0.065	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.30		0.23	0.053	mg/Kg	1	✳	6010B	Total/NA
Boron	5.5		2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.098	J B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	85000	B	57	9.6	mg/Kg	5	✳	6010B	Total/NA
Chromium	9.1	B	0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	8.9		0.28	0.074	mg/Kg	1	✳	6010B	Total/NA
Copper	23		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	19000	B	57	29	mg/Kg	5	✳	6010B	Total/NA
Lead	12		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	46000		28	14	mg/Kg	5	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B01 (0-5) (Continued)

Lab Sample ID: 500-212442-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	390	B	0.57	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	1000		28	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1700		57	8.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.37	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	11		0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	59		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	3.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.3		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.020		0.018	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	8.0	HF	0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2233V2-01-B01 (5-10)

Lab Sample ID: 500-212442-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.024		0.023	0.0098	mg/Kg	1	☼	8260B	Total/NA
Phenanthrene	0.0070	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.32	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.7		0.57	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	49		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.45		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Boron	3.9		2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.042	J B	0.11	0.021	mg/Kg	1	☼	6010B	Total/NA
Calcium	48000	B	57	9.7	mg/Kg	5	☼	6010B	Total/NA
Chromium	13	B	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	20000		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	410	B	0.57	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	980		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	470		57	8.5	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.55	J	0.57	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	59		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Barium	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Manganese	4.7		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.35		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.024		0.018	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	7.6	HF	0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-212442-1	2233V2-01-B03 (0-5)	Solid	02/16/22 01:15	02/16/22 12:20
500-212442-2	2233V2-01-B03 (5-9.6)	Solid	02/16/22 01:18	02/16/22 12:20
500-212442-3	2233V2-01-B02 (0-5)	Solid	02/16/22 01:38	02/16/22 12:20
500-212442-4	2233V2-01-B02 (5-10)	Solid	02/16/22 01:40	02/16/22 12:20
500-212442-5	2233V2-01-B01 (0-5)	Solid	02/16/22 02:00	02/16/22 12:20
500-212442-6	2233V2-01-B01 (5-10)	Solid	02/16/22 02:03	02/16/22 12:20

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B03 (0-5)

Lab Sample ID: 500-212442-1

Date Collected: 02/16/22 01:15

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.022		0.018	0.0076	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
Dibromochloromethane	<0.0018		0.0018	0.00057	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
1,1-Dichloroethene	<0.0018		0.0018	0.00060	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
1,2-Dichloropropene	<0.0018		0.0018	0.00045	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00051	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
Toluene	<0.0018		0.0018	0.00044	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00075	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
Trichloroethene	<0.0018		0.0018	0.00059	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	✱	02/16/22 17:25	02/26/22 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131		75 - 131	02/16/22 17:25	02/26/22 15:26	1
Dibromofluoromethane	121		75 - 126	02/16/22 17:25	02/26/22 15:26	1
1,2-Dichloroethane-d4 (Surr)	124		70 - 134	02/16/22 17:25	02/26/22 15:26	1
Toluene-d8 (Surr)	117		75 - 124	02/16/22 17:25	02/26/22 15:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B03 (0-5)

Lab Sample ID: 500-212442-1

Date Collected: 02/16/22 01:15

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Isophorone	<0.19		0.19	0.043	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Phenanthrene	0.013	J	0.038	0.0053	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Carbazole	<0.19		0.19	0.095	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B03 (0-5)

Lab Sample ID: 500-212442-1

Date Collected: 02/16/22 01:15

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.010	J	0.038	0.010	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	✱	02/25/22 06:54	02/27/22 14:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	103		31 - 166				02/25/22 06:54	02/27/22 14:50	1
Phenol-d5	86		30 - 153				02/25/22 06:54	02/27/22 14:50	1
Nitrobenzene-d5 (Surr)	81		37 - 147				02/25/22 06:54	02/27/22 14:50	1
2-Fluorobiphenyl (Surr)	93		43 - 145				02/25/22 06:54	02/27/22 14:50	1
2,4,6-Tribromophenol	82		31 - 143				02/25/22 06:54	02/27/22 14:50	1
Terphenyl-d14 (Surr)	108		42 - 157				02/25/22 06:54	02/27/22 14:50	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.34	J	1.2	0.23	mg/Kg	✱	02/26/22 05:00	02/27/22 17:56	1
Arsenic	8.3		0.59	0.20	mg/Kg	✱	02/26/22 05:00	02/27/22 17:56	1
Barium	41		0.59	0.067	mg/Kg	✱	02/26/22 05:00	02/28/22 16:56	1
Beryllium	0.44		0.24	0.055	mg/Kg	✱	02/26/22 05:00	02/28/22 16:56	1
Boron	5.2		3.0	0.28	mg/Kg	✱	02/26/22 05:00	02/27/22 17:56	1
Cadmium	0.041	J B	0.12	0.021	mg/Kg	✱	02/26/22 05:00	02/27/22 17:56	1
Calcium	57000	B	59	10	mg/Kg	✱	02/26/22 05:00	02/28/22 17:00	5
Chromium	12	B	0.59	0.29	mg/Kg	✱	02/26/22 05:00	02/28/22 16:56	1
Cobalt	11		0.30	0.077	mg/Kg	✱	02/26/22 05:00	02/27/22 17:56	1
Copper	21		0.59	0.17	mg/Kg	✱	02/26/22 05:00	02/27/22 17:56	1
Iron	18000	B	12	6.1	mg/Kg	✱	02/26/22 05:00	02/28/22 16:56	1
Lead	15		0.30	0.14	mg/Kg	✱	02/26/22 05:00	02/27/22 17:56	1
Magnesium	26000		5.9	2.9	mg/Kg	✱	02/26/22 05:00	02/28/22 16:56	1
Manganese	370	B	0.59	0.086	mg/Kg	✱	02/26/22 05:00	02/28/22 16:56	1
Nickel	26		0.59	0.17	mg/Kg	✱	02/26/22 05:00	02/27/22 17:56	1
Potassium	1200		30	10	mg/Kg	✱	02/26/22 05:00	02/28/22 16:56	1
Selenium	<0.59		0.59	0.35	mg/Kg	✱	02/26/22 05:00	02/28/22 16:56	1
Silver	<0.30		0.30	0.076	mg/Kg	✱	02/26/22 05:00	02/27/22 17:56	1
Sodium	2200		59	8.7	mg/Kg	✱	02/26/22 05:00	02/28/22 16:56	1
Thallium	0.58	J	0.59	0.29	mg/Kg	✱	02/26/22 05:00	02/27/22 17:56	1
Vanadium	15		0.30	0.070	mg/Kg	✱	02/26/22 05:00	02/27/22 17:56	1
Zinc	61		1.2	0.52	mg/Kg	✱	02/26/22 05:00	02/27/22 17:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.55		0.50	0.050	mg/L		02/26/22 04:30	02/27/22 22:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/26/22 04:30	02/27/22 22:36	1
Boron	<0.50		0.50	0.050	mg/L		02/26/22 04:30	02/27/22 22:36	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B03 (0-5)

Lab Sample ID: 500-212442-1

Date Collected: 02/16/22 01:15

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/26/22 04:30	02/27/22 22:36	1
Chromium	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 22:36	1
Cobalt	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 22:36	1
Iron	<0.40		0.40	0.20	mg/L		02/26/22 04:30	02/27/22 22:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/26/22 04:30	02/27/22 22:36	1
Manganese	3.9		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 22:36	1
Nickel	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 22:36	1
Selenium	<0.050		0.050	0.020	mg/L		02/26/22 04:30	02/27/22 22:36	1
Silver	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 22:36	1
Zinc	<0.50		0.50	0.020	mg/L		02/26/22 04:30	02/27/22 22:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.6		0.025	0.010	mg/L		02/27/22 08:00	02/28/22 16:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/26/22 04:30	02/28/22 14:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/26/22 04:30	02/28/22 14:03	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 14:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.018	0.0061	mg/Kg	☆	03/01/22 14:00	03/02/22 09:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0	HF	0.2	0.2	SU			02/24/22 07:09	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B03 (5-9.6)

Lab Sample ID: 500-212442-2

Date Collected: 02/16/22 01:18

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.024		0.018	0.0077	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
2-Butanone (MEK)	0.0031 J		0.0044	0.0020	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
Carbon disulfide	<0.0044		0.0044	0.00092	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
1,2-Dichloropropene	<0.0018		0.0018	0.00046	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	✳	02/16/22 17:25	02/26/22 15:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		75 - 131	02/16/22 17:25	02/26/22 15:53	1
Dibromofluoromethane	124		75 - 126	02/16/22 17:25	02/26/22 15:53	1
1,2-Dichloroethane-d4 (Surr)	121		70 - 134	02/16/22 17:25	02/26/22 15:53	1
Toluene-d8 (Surr)	112		75 - 124	02/16/22 17:25	02/26/22 15:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	✳	02/25/22 06:54	02/27/22 15:14	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	✳	02/25/22 06:54	02/27/22 15:14	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	✳	02/25/22 06:54	02/27/22 15:14	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	✳	02/25/22 06:54	02/27/22 15:14	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B03 (5-9.6)

Lab Sample ID: 500-212442-2

Date Collected: 02/16/22 01:18

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
Phenanthrene	0.0057	J	0.038	0.0053	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	02/25/22 06:54	02/27/22 15:14	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B03 (5-9.6)

Lab Sample ID: 500-212442-2

Date Collected: 02/16/22 01:18

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	✱	02/25/22 06:54	02/27/22 15:14	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	✱	02/25/22 06:54	02/27/22 15:14	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	✱	02/25/22 06:54	02/27/22 15:14	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	✱	02/25/22 06:54	02/27/22 15:14	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	✱	02/25/22 06:54	02/27/22 15:14	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	✱	02/25/22 06:54	02/27/22 15:14	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	✱	02/25/22 06:54	02/27/22 15:14	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	✱	02/25/22 06:54	02/27/22 15:14	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	✱	02/25/22 06:54	02/27/22 15:14	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	✱	02/25/22 06:54	02/27/22 15:14	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	✱	02/25/22 06:54	02/27/22 15:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	101		31 - 166				02/25/22 06:54	02/27/22 15:14	1
Phenol-d5	90		30 - 153				02/25/22 06:54	02/27/22 15:14	1
Nitrobenzene-d5 (Surr)	78		37 - 147				02/25/22 06:54	02/27/22 15:14	1
2-Fluorobiphenyl (Surr)	93		43 - 145				02/25/22 06:54	02/27/22 15:14	1
2,4,6-Tribromophenol	90		31 - 143				02/25/22 06:54	02/27/22 15:14	1
Terphenyl-d14 (Surr)	107		42 - 157				02/25/22 06:54	02/27/22 15:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.32	J	1.1	0.22	mg/Kg	✱	02/26/22 05:00	02/27/22 18:09	1
Arsenic	9.1		0.55	0.19	mg/Kg	✱	02/26/22 05:00	02/27/22 18:09	1
Barium	57		0.55	0.063	mg/Kg	✱	02/26/22 05:00	02/28/22 17:03	1
Beryllium	0.48		0.22	0.052	mg/Kg	✱	02/26/22 05:00	02/28/22 17:03	1
Boron	4.8		2.8	0.26	mg/Kg	✱	02/26/22 05:00	02/27/22 18:09	1
Cadmium	0.064	J B	0.11	0.020	mg/Kg	✱	02/26/22 05:00	02/27/22 18:09	1
Calcium	67000	B	55	9.4	mg/Kg	✱	02/26/22 05:00	02/28/22 17:06	5
Chromium	13	B	0.55	0.27	mg/Kg	✱	02/26/22 05:00	02/28/22 17:03	1
Cobalt	10		0.28	0.073	mg/Kg	✱	02/26/22 05:00	02/27/22 18:09	1
Copper	22		0.55	0.16	mg/Kg	✱	02/26/22 05:00	02/27/22 18:09	1
Iron	19000	B	11	5.8	mg/Kg	✱	02/26/22 05:00	02/28/22 17:03	1
Lead	13		0.28	0.13	mg/Kg	✱	02/26/22 05:00	02/27/22 18:09	1
Magnesium	27000		5.5	2.7	mg/Kg	✱	02/26/22 05:00	02/28/22 17:03	1
Manganese	400	B	0.55	0.080	mg/Kg	✱	02/26/22 05:00	02/28/22 17:03	1
Nickel	27		0.55	0.16	mg/Kg	✱	02/26/22 05:00	02/27/22 18:09	1
Potassium	1100		28	9.8	mg/Kg	✱	02/26/22 05:00	02/28/22 17:03	1
Selenium	<0.55		0.55	0.33	mg/Kg	✱	02/26/22 05:00	02/28/22 17:03	1
Silver	<0.28		0.28	0.072	mg/Kg	✱	02/26/22 05:00	02/27/22 18:09	1
Sodium	1200		55	8.2	mg/Kg	✱	02/26/22 05:00	02/28/22 17:03	1
Thallium	0.52	J	0.55	0.28	mg/Kg	✱	02/26/22 05:00	02/27/22 18:09	1
Vanadium	15		0.28	0.065	mg/Kg	✱	02/26/22 05:00	02/27/22 18:09	1
Zinc	61		1.1	0.49	mg/Kg	✱	02/26/22 05:00	02/27/22 18:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.52		0.50	0.050	mg/L		02/26/22 04:30	02/27/22 22:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/26/22 04:30	02/27/22 22:39	1
Boron	<0.50		0.50	0.050	mg/L		02/26/22 04:30	02/27/22 22:39	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B03 (5-9.6)

Lab Sample ID: 500-212442-2

Date Collected: 02/16/22 01:18

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/26/22 04:30	02/27/22 22:39	1
Chromium	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 22:39	1
Cobalt	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 22:39	1
Iron	<0.40		0.40	0.20	mg/L		02/26/22 04:30	02/27/22 22:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/26/22 04:30	02/27/22 22:39	1
Manganese	3.4		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 22:39	1
Nickel	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 22:39	1
Selenium	<0.050		0.050	0.020	mg/L		02/26/22 04:30	02/27/22 22:39	1
Silver	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 22:39	1
Zinc	0.035	J	0.50	0.020	mg/L		02/26/22 04:30	02/27/22 22:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.7		0.025	0.010	mg/L		02/27/22 08:00	02/28/22 16:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/26/22 04:30	02/28/22 14:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/26/22 04:30	02/28/22 14:05	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 14:29	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.019	0.0063	mg/Kg	☆	03/01/22 14:00	03/02/22 09:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.7	HF	0.2	0.2	SU			02/24/22 07:11	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B02 (0-5)

Lab Sample ID: 500-212442-3

Date Collected: 02/16/22 01:38

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.012	J	0.019	0.0082	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
1,2-Dichloropropene	<0.0019		0.0019	0.00049	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
Vinyl acetate	<0.0047		0.0047	0.0016	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1
Xylenes, Total	<0.0038		0.0038	0.00060	mg/Kg	☼	02/16/22 17:25	02/26/22 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	75 - 131	02/16/22 17:25	02/26/22 16:19	1
Dibromofluoromethane	123		75 - 126	02/16/22 17:25	02/26/22 16:19	1
1,2-Dichloroethane-d4 (Surr)	122		70 - 134	02/16/22 17:25	02/26/22 16:19	1
Toluene-d8 (Surr)	119		75 - 124	02/16/22 17:25	02/26/22 16:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	02/25/22 06:54	02/27/22 15:38	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/25/22 06:54	02/27/22 15:38	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/25/22 06:54	02/27/22 15:38	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/25/22 06:54	02/27/22 15:38	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B02 (0-5)

Lab Sample ID: 500-212442-3

Date Collected: 02/16/22 01:38

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Isophorone	<0.19		0.19	0.042	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
2-Methylnaphthalene	0.0072	J	0.075	0.0068	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Phenanthrene	0.014	J	0.037	0.0052	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Carbazole	<0.19		0.19	0.093	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B02 (0-5)

Lab Sample ID: 500-212442-3

Date Collected: 02/16/22 01:38

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.012	J	0.037	0.010	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	✱	02/25/22 06:54	02/27/22 15:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	99		31 - 166				02/25/22 06:54	02/27/22 15:38	1
Phenol-d5	97		30 - 153				02/25/22 06:54	02/27/22 15:38	1
Nitrobenzene-d5 (Surr)	81		37 - 147				02/25/22 06:54	02/27/22 15:38	1
2-Fluorobiphenyl (Surr)	94		43 - 145				02/25/22 06:54	02/27/22 15:38	1
2,4,6-Tribromophenol	92		31 - 143				02/25/22 06:54	02/27/22 15:38	1
Terphenyl-d14 (Surr)	102		42 - 157				02/25/22 06:54	02/27/22 15:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.25	J	1.1	0.21	mg/Kg	✱	02/26/22 05:00	02/27/22 18:13	1
Arsenic	11		0.53	0.18	mg/Kg	✱	02/26/22 05:00	02/27/22 18:13	1
Barium	32		0.53	0.061	mg/Kg	✱	02/26/22 05:00	02/28/22 17:16	1
Beryllium	0.34		0.21	0.050	mg/Kg	✱	02/26/22 05:00	02/28/22 17:16	1
Boron	5.3		2.7	0.25	mg/Kg	✱	02/26/22 05:00	02/27/22 18:13	1
Cadmium	0.041	J B	0.11	0.019	mg/Kg	✱	02/26/22 05:00	02/27/22 18:13	1
Calcium	75000	B	53	9.1	mg/Kg	✱	02/26/22 05:00	02/28/22 17:19	5
Chromium	10	B	0.53	0.26	mg/Kg	✱	02/26/22 05:00	02/28/22 17:16	1
Cobalt	9.7		0.27	0.070	mg/Kg	✱	02/26/22 05:00	02/27/22 18:13	1
Copper	21		0.53	0.15	mg/Kg	✱	02/26/22 05:00	02/27/22 18:13	1
Iron	20000	B	53	28	mg/Kg	✱	02/26/22 05:00	02/28/22 17:19	5
Lead	12		0.27	0.12	mg/Kg	✱	02/26/22 05:00	02/27/22 18:13	1
Magnesium	39000		27	13	mg/Kg	✱	02/26/22 05:00	02/28/22 17:19	5
Manganese	380	B	0.53	0.077	mg/Kg	✱	02/26/22 05:00	02/28/22 17:16	1
Nickel	23		0.53	0.16	mg/Kg	✱	02/26/22 05:00	02/27/22 18:13	1
Potassium	1100		27	9.5	mg/Kg	✱	02/26/22 05:00	02/28/22 17:16	1
Selenium	<0.53		0.53	0.31	mg/Kg	✱	02/26/22 05:00	02/28/22 17:16	1
Silver	<0.27		0.27	0.069	mg/Kg	✱	02/26/22 05:00	02/27/22 18:13	1
Sodium	1600		53	7.9	mg/Kg	✱	02/26/22 05:00	02/28/22 17:16	1
Thallium	0.56		0.53	0.27	mg/Kg	✱	02/26/22 05:00	02/27/22 18:13	1
Vanadium	12		0.27	0.063	mg/Kg	✱	02/26/22 05:00	02/27/22 18:13	1
Zinc	58		1.1	0.47	mg/Kg	✱	02/26/22 05:00	02/27/22 18:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.43	J	0.50	0.050	mg/L		02/26/22 04:30	02/27/22 22:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/26/22 04:30	02/27/22 22:43	1
Boron	<0.50		0.50	0.050	mg/L		02/26/22 04:30	02/27/22 22:43	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B02 (0-5)

Lab Sample ID: 500-212442-3

Date Collected: 02/16/22 01:38

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/26/22 04:30	02/27/22 22:43	1
Chromium	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 22:43	1
Cobalt	0.012	J	0.025	0.010	mg/L		02/26/22 04:30	02/27/22 22:43	1
Iron	<0.40		0.40	0.20	mg/L		02/26/22 04:30	02/27/22 22:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/26/22 04:30	02/27/22 22:43	1
Manganese	3.0		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 22:43	1
Nickel	0.014	J	0.025	0.010	mg/L		02/26/22 04:30	02/27/22 22:43	1
Selenium	<0.050		0.050	0.020	mg/L		02/26/22 04:30	02/27/22 22:43	1
Silver	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 22:43	1
Zinc	0.043	J	0.50	0.020	mg/L		02/26/22 04:30	02/27/22 22:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.1		0.025	0.010	mg/L		02/27/22 08:00	02/28/22 16:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/26/22 04:30	02/28/22 14:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/26/22 04:30	02/28/22 14:07	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 14:31	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.017	0.0058	mg/Kg	☆	03/01/22 14:00	03/02/22 09:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1	HF	0.2	0.2	SU			02/24/22 07:16	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B02 (5-10)

Lab Sample ID: 500-212442-4

Date Collected: 02/16/22 01:40

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.024		0.018	0.0078	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
1,2-Dichloropropene	<0.0018		0.0018	0.00046	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	02/16/22 17:25	02/26/22 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		75 - 131	02/16/22 17:25	02/26/22 16:46	1
Dibromofluoromethane	122		75 - 126	02/16/22 17:25	02/26/22 16:46	1
1,2-Dichloroethane-d4 (Surr)	125		70 - 134	02/16/22 17:25	02/26/22 16:46	1
Toluene-d8 (Surr)	116		75 - 124	02/16/22 17:25	02/26/22 16:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B02 (5-10)

Lab Sample ID: 500-212442-4

Date Collected: 02/16/22 01:40

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
Phenanthrene	0.017	J	0.037	0.0052	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	02/25/22 06:54	02/27/22 16:02	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B02 (5-10)

Lab Sample ID: 500-212442-4

Date Collected: 02/16/22 01:40

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.011	J	0.037	0.010	mg/Kg	✳	02/25/22 06:54	02/27/22 16:02	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	✳	02/25/22 06:54	02/27/22 16:02	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	✳	02/25/22 06:54	02/27/22 16:02	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	✳	02/25/22 06:54	02/27/22 16:02	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	✳	02/25/22 06:54	02/27/22 16:02	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	✳	02/25/22 06:54	02/27/22 16:02	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	✳	02/25/22 06:54	02/27/22 16:02	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	✳	02/25/22 06:54	02/27/22 16:02	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	✳	02/25/22 06:54	02/27/22 16:02	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	✳	02/25/22 06:54	02/27/22 16:02	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	✳	02/25/22 06:54	02/27/22 16:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	97		31 - 166	02/25/22 06:54	02/27/22 16:02	1
Phenol-d5	78		30 - 153	02/25/22 06:54	02/27/22 16:02	1
Nitrobenzene-d5 (Surr)	80		37 - 147	02/25/22 06:54	02/27/22 16:02	1
2-Fluorobiphenyl (Surr)	93		43 - 145	02/25/22 06:54	02/27/22 16:02	1
2,4,6-Tribromophenol	87		31 - 143	02/25/22 06:54	02/27/22 16:02	1
Terphenyl-d14 (Surr)	102		42 - 157	02/25/22 06:54	02/27/22 16:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.30	J	1.1	0.22	mg/Kg	✳	02/26/22 05:00	02/27/22 18:16	1
Arsenic	8.4		0.55	0.19	mg/Kg	✳	02/26/22 05:00	02/27/22 18:16	1
Barium	39		0.55	0.063	mg/Kg	✳	02/26/22 05:00	02/28/22 17:22	1
Beryllium	0.44		0.22	0.052	mg/Kg	✳	02/26/22 05:00	02/28/22 17:22	1
Boron	5.7		2.8	0.26	mg/Kg	✳	02/26/22 05:00	02/27/22 18:16	1
Cadmium	0.024	J B	0.11	0.020	mg/Kg	✳	02/26/22 05:00	02/27/22 18:16	1
Calcium	57000	B	55	9.4	mg/Kg	✳	02/26/22 05:00	02/28/22 17:25	5
Chromium	14	B	0.55	0.27	mg/Kg	✳	02/26/22 05:00	02/28/22 17:22	1
Cobalt	12		0.28	0.073	mg/Kg	✳	02/26/22 05:00	02/27/22 18:16	1
Copper	20		0.55	0.16	mg/Kg	✳	02/26/22 05:00	02/27/22 18:16	1
Iron	19000	B	11	5.8	mg/Kg	✳	02/26/22 05:00	02/28/22 17:22	1
Lead	12		0.28	0.13	mg/Kg	✳	02/26/22 05:00	02/27/22 18:16	1
Magnesium	23000		5.5	2.8	mg/Kg	✳	02/26/22 05:00	02/28/22 17:22	1
Manganese	380	B	0.55	0.080	mg/Kg	✳	02/26/22 05:00	02/28/22 17:22	1
Nickel	27		0.55	0.16	mg/Kg	✳	02/26/22 05:00	02/27/22 18:16	1
Potassium	1400		28	9.8	mg/Kg	✳	02/26/22 05:00	02/28/22 17:22	1
Selenium	<0.55		0.55	0.33	mg/Kg	✳	02/26/22 05:00	02/28/22 17:22	1
Silver	<0.28		0.28	0.072	mg/Kg	✳	02/26/22 05:00	02/27/22 18:16	1
Sodium	390		55	8.2	mg/Kg	✳	02/26/22 05:00	02/28/22 17:22	1
Thallium	0.31	J	0.55	0.28	mg/Kg	✳	02/26/22 05:00	02/27/22 18:16	1
Vanadium	15		0.28	0.065	mg/Kg	✳	02/26/22 05:00	02/27/22 18:16	1
Zinc	56		1.1	0.49	mg/Kg	✳	02/26/22 05:00	02/27/22 18:16	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.38	J	0.50	0.050	mg/L		02/26/22 04:30	02/27/22 22:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/26/22 04:30	02/27/22 22:46	1
Boron	<0.50		0.50	0.050	mg/L		02/26/22 04:30	02/27/22 22:46	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B02 (5-10)

Lab Sample ID: 500-212442-4

Date Collected: 02/16/22 01:40

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/26/22 04:30	02/27/22 22:46	1
Chromium	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 22:46	1
Cobalt	0.010	J	0.025	0.010	mg/L		02/26/22 04:30	02/27/22 22:46	1
Iron	<0.40		0.40	0.20	mg/L		02/26/22 04:30	02/27/22 22:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/26/22 04:30	02/27/22 22:46	1
Manganese	3.4		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 22:46	1
Nickel	0.011	J	0.025	0.010	mg/L		02/26/22 04:30	02/27/22 22:46	1
Selenium	<0.050		0.050	0.020	mg/L		02/26/22 04:30	02/27/22 22:46	1
Silver	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 22:46	1
Zinc	0.057	J	0.50	0.020	mg/L		02/26/22 04:30	02/27/22 22:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.099		0.025	0.010	mg/L		02/27/22 08:00	02/28/22 16:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/26/22 04:30	02/28/22 14:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/26/22 04:30	02/28/22 14:09	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 14:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.017	0.0058	mg/Kg	☆	03/01/22 14:00	03/02/22 09:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.5	HF	0.2	0.2	SU			02/24/22 07:19	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B01 (0-5)

Lab Sample ID: 500-212442-5

Date Collected: 02/16/22 02:00

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.012	J	0.016	0.0071	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
Carbon disulfide	<0.0041		0.0041	0.00085	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
Chloroform	<0.0016		0.0016	0.00057	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
Chloromethane	<0.0041		0.0041	0.0016	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00046	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
1,2-Dichloropropene	<0.0016		0.0016	0.00042	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00057	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
Ethylbenzene	<0.0016		0.0016	0.00078	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
1,1,2,2-Tetrachloroethane	<0.0016	*3	0.0016	0.00052	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
Tetrachloroethene	<0.0016		0.0016	0.00056	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
Vinyl acetate	<0.0041		0.0041	0.0014	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1
Xylenes, Total	<0.0033		0.0033	0.00052	mg/Kg	✱	02/16/22 17:25	02/26/22 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	176	*3 S1+	75 - 131	02/16/22 17:25	02/26/22 17:12	1
Dibromofluoromethane	122		75 - 126	02/16/22 17:25	02/26/22 17:12	1
1,2-Dichloroethane-d4 (Surr)	123		70 - 134	02/16/22 17:25	02/26/22 17:12	1
Toluene-d8 (Surr)	137	S1+	75 - 124	02/16/22 17:25	02/26/22 17:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B01 (0-5)

Lab Sample ID: 500-212442-5

Date Collected: 02/16/22 02:00

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
Isophorone	<0.20		0.20	0.044	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
2-Methylnaphthalene	0.012	J	0.078	0.0071	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
Phenanthrene	0.021	J	0.039	0.0054	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
Carbazole	<0.20		0.20	0.097	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
Pyrene	0.012	J	0.039	0.0077	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	✱	02/25/22 06:54	02/27/22 16:26	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B01 (0-5)

Lab Sample ID: 500-212442-5

Date Collected: 02/16/22 02:00

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.018	J	0.039	0.011	mg/Kg	✳	02/25/22 06:54	02/27/22 16:26	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	✳	02/25/22 06:54	02/27/22 16:26	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	✳	02/25/22 06:54	02/27/22 16:26	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	✳	02/25/22 06:54	02/27/22 16:26	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	✳	02/25/22 06:54	02/27/22 16:26	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	✳	02/25/22 06:54	02/27/22 16:26	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	✳	02/25/22 06:54	02/27/22 16:26	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	✳	02/25/22 06:54	02/27/22 16:26	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	✳	02/25/22 06:54	02/27/22 16:26	1
Benzo[g,h,i]perylene	<0.039		0.039	0.012	mg/Kg	✳	02/25/22 06:54	02/27/22 16:26	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	✳	02/25/22 06:54	02/27/22 16:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	99		31 - 166				02/25/22 06:54	02/27/22 16:26	1
Phenol-d5	96		30 - 153				02/25/22 06:54	02/27/22 16:26	1
Nitrobenzene-d5 (Surr)	86		37 - 147				02/25/22 06:54	02/27/22 16:26	1
2-Fluorobiphenyl (Surr)	94		43 - 145				02/25/22 06:54	02/27/22 16:26	1
2,4,6-Tribromophenol	90		31 - 143				02/25/22 06:54	02/27/22 16:26	1
Terphenyl-d14 (Surr)	100		42 - 157				02/25/22 06:54	02/27/22 16:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.30	J	1.1	0.22	mg/Kg	✳	02/26/22 05:00	02/27/22 18:20	1
Arsenic	11		0.57	0.19	mg/Kg	✳	02/26/22 05:00	02/27/22 18:20	1
Barium	23		0.57	0.065	mg/Kg	✳	02/26/22 05:00	02/28/22 17:29	1
Beryllium	0.30		0.23	0.053	mg/Kg	✳	02/26/22 05:00	02/28/22 17:29	1
Boron	5.5		2.8	0.26	mg/Kg	✳	02/26/22 05:00	02/27/22 18:20	1
Cadmium	0.098	J B	0.11	0.020	mg/Kg	✳	02/26/22 05:00	02/27/22 18:20	1
Calcium	85000	B	57	9.6	mg/Kg	✳	02/26/22 05:00	02/28/22 17:32	5
Chromium	9.1	B	0.57	0.28	mg/Kg	✳	02/26/22 05:00	02/28/22 17:29	1
Cobalt	8.9		0.28	0.074	mg/Kg	✳	02/26/22 05:00	02/27/22 18:20	1
Copper	23		0.57	0.16	mg/Kg	✳	02/26/22 05:00	02/27/22 18:20	1
Iron	19000	B	57	29	mg/Kg	✳	02/26/22 05:00	02/28/22 17:32	5
Lead	12		0.28	0.13	mg/Kg	✳	02/26/22 05:00	02/27/22 18:20	1
Magnesium	46000		28	14	mg/Kg	✳	02/26/22 05:00	02/28/22 17:32	5
Manganese	390	B	0.57	0.082	mg/Kg	✳	02/26/22 05:00	02/28/22 17:29	1
Nickel	21		0.57	0.17	mg/Kg	✳	02/26/22 05:00	02/27/22 18:20	1
Potassium	1000		28	10	mg/Kg	✳	02/26/22 05:00	02/28/22 17:29	1
Selenium	<0.57		0.57	0.33	mg/Kg	✳	02/26/22 05:00	02/28/22 17:29	1
Silver	<0.28		0.28	0.073	mg/Kg	✳	02/26/22 05:00	02/27/22 18:20	1
Sodium	1700		57	8.4	mg/Kg	✳	02/26/22 05:00	02/28/22 17:29	1
Thallium	0.37	J	0.57	0.28	mg/Kg	✳	02/26/22 05:00	02/27/22 18:20	1
Vanadium	11		0.28	0.067	mg/Kg	✳	02/26/22 05:00	02/27/22 18:20	1
Zinc	59		1.1	0.50	mg/Kg	✳	02/26/22 05:00	02/27/22 18:20	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.47	J	0.50	0.050	mg/L		02/26/22 04:30	02/27/22 22:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/26/22 04:30	02/27/22 22:50	1
Boron	<0.50		0.50	0.050	mg/L		02/26/22 04:30	02/27/22 22:50	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B01 (0-5)

Lab Sample ID: 500-212442-5

Date Collected: 02/16/22 02:00

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/26/22 04:30	02/27/22 22:50	1
Chromium	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 22:50	1
Cobalt	0.014	J	0.025	0.010	mg/L		02/26/22 04:30	02/27/22 22:50	1
Iron	<0.40		0.40	0.20	mg/L		02/26/22 04:30	02/27/22 22:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/26/22 04:30	02/27/22 22:50	1
Manganese	3.2		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 22:50	1
Nickel	0.017	J	0.025	0.010	mg/L		02/26/22 04:30	02/27/22 22:50	1
Selenium	<0.050		0.050	0.020	mg/L		02/26/22 04:30	02/27/22 22:50	1
Silver	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 22:50	1
Zinc	<0.50		0.50	0.020	mg/L		02/26/22 04:30	02/27/22 22:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.3		0.025	0.010	mg/L		02/27/22 08:00	02/28/22 16:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/26/22 04:30	02/28/22 14:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/26/22 04:30	02/28/22 14:11	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 14:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.018	0.0059	mg/Kg	☆	03/01/22 14:00	03/02/22 09:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0	HF	0.2	0.2	SU			02/24/22 07:21	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B01 (5-10)

Lab Sample ID: 500-212442-6

Date Collected: 02/16/22 02:03

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.024		0.023	0.0098	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
Benzene	<0.0023		0.0023	0.00057	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
Bromodichloromethane	<0.0023		0.0023	0.00046	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
Bromoform	<0.0023		0.0023	0.00066	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
Bromomethane	<0.0056		0.0056	0.0021	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
2-Butanone (MEK)	<0.0056		0.0056	0.0025	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
Carbon disulfide	<0.0056		0.0056	0.0012	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
Carbon tetrachloride	<0.0023		0.0023	0.00065	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
Chlorobenzene	<0.0023		0.0023	0.00083	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
Chloroethane	<0.0056		0.0056	0.0017	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
Chloroform	<0.0023		0.0023	0.00078	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
Chloromethane	<0.0056		0.0056	0.0023	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
cis-1,2-Dichloroethene	<0.0023		0.0023	0.00063	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
cis-1,3-Dichloropropene	<0.0023		0.0023	0.00068	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
Dibromochloromethane	<0.0023		0.0023	0.00074	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
1,1-Dichloroethane	<0.0023		0.0023	0.00077	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
1,2-Dichloroethane	<0.0056		0.0056	0.0018	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
1,1-Dichloroethene	<0.0023		0.0023	0.00078	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
1,2-Dichloropropene	<0.0023		0.0023	0.00058	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
1,3-Dichloropropene, Total	<0.0023		0.0023	0.00079	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
Ethylbenzene	<0.0023		0.0023	0.0011	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
2-Hexanone	<0.0056		0.0056	0.0018	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
Methylene Chloride	<0.0056		0.0056	0.0022	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
4-Methyl-2-pentanone (MIBK)	<0.0056		0.0056	0.0017	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
Methyl tert-butyl ether	<0.0023		0.0023	0.00066	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
Styrene	<0.0023		0.0023	0.00068	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
1,1,2,2-Tetrachloroethane	<0.0023		0.0023	0.00072	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
Tetrachloroethene	<0.0023		0.0023	0.00077	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
Toluene	<0.0023		0.0023	0.00057	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
trans-1,2-Dichloroethene	<0.0023		0.0023	0.0010	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
trans-1,3-Dichloropropene	<0.0023		0.0023	0.00079	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
1,1,1-Trichloroethane	<0.0023		0.0023	0.00076	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
1,1,2-Trichloroethane	<0.0023		0.0023	0.00097	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
Trichloroethene	<0.0023		0.0023	0.00076	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
Vinyl acetate	<0.0056		0.0056	0.0020	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
Vinyl chloride	<0.0023		0.0023	0.0010	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1
Xylenes, Total	<0.0045		0.0045	0.00072	mg/Kg	☆	02/16/22 17:25	02/26/22 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		75 - 131	02/16/22 17:25	02/26/22 17:38	1
Dibromofluoromethane	121		75 - 126	02/16/22 17:25	02/26/22 17:38	1
1,2-Dichloroethane-d4 (Surr)	125		70 - 134	02/16/22 17:25	02/26/22 17:38	1
Toluene-d8 (Surr)	112		75 - 124	02/16/22 17:25	02/26/22 17:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☆	02/25/22 06:54	02/27/22 16:51	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☆	02/25/22 06:54	02/27/22 16:51	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☆	02/25/22 06:54	02/27/22 16:51	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☆	02/25/22 06:54	02/27/22 16:51	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B01 (5-10)

Lab Sample ID: 500-212442-6

Date Collected: 02/16/22 02:03

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
Isophorone	<0.19		0.19	0.042	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
2-Methylnaphthalene	<0.075		0.075	0.0068	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
Phenanthrene	0.0070	J	0.037	0.0052	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
Carbazole	<0.19		0.19	0.093	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	✱	02/25/22 06:54	02/27/22 16:51	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B01 (5-10)

Lab Sample ID: 500-212442-6

Date Collected: 02/16/22 02:03

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	✳	02/25/22 06:54	02/27/22 16:51	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	✳	02/25/22 06:54	02/27/22 16:51	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	✳	02/25/22 06:54	02/27/22 16:51	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	✳	02/25/22 06:54	02/27/22 16:51	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	✳	02/25/22 06:54	02/27/22 16:51	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	✳	02/25/22 06:54	02/27/22 16:51	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	✳	02/25/22 06:54	02/27/22 16:51	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	✳	02/25/22 06:54	02/27/22 16:51	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	✳	02/25/22 06:54	02/27/22 16:51	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	✳	02/25/22 06:54	02/27/22 16:51	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	✳	02/25/22 06:54	02/27/22 16:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	94		31 - 166	02/25/22 06:54	02/27/22 16:51	1
Phenol-d5	82		30 - 153	02/25/22 06:54	02/27/22 16:51	1
Nitrobenzene-d5 (Surr)	76		37 - 147	02/25/22 06:54	02/27/22 16:51	1
2-Fluorobiphenyl (Surr)	90		43 - 145	02/25/22 06:54	02/27/22 16:51	1
2,4,6-Tribromophenol	82		31 - 143	02/25/22 06:54	02/27/22 16:51	1
Terphenyl-d14 (Surr)	99		42 - 157	02/25/22 06:54	02/27/22 16:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.32	J	1.1	0.22	mg/Kg	✳	02/26/22 05:00	02/27/22 18:23	1
Arsenic	8.7		0.57	0.20	mg/Kg	✳	02/26/22 05:00	02/27/22 18:23	1
Barium	49		0.57	0.065	mg/Kg	✳	02/26/22 05:00	02/28/22 17:35	1
Beryllium	0.45		0.23	0.054	mg/Kg	✳	02/26/22 05:00	02/28/22 17:35	1
Boron	3.9		2.9	0.27	mg/Kg	✳	02/26/22 05:00	02/27/22 18:23	1
Cadmium	0.042	J B	0.11	0.021	mg/Kg	✳	02/26/22 05:00	02/27/22 18:23	1
Calcium	48000	B	57	9.7	mg/Kg	✳	02/26/22 05:00	02/28/22 17:38	5
Chromium	13	B	0.57	0.28	mg/Kg	✳	02/26/22 05:00	02/28/22 17:35	1
Cobalt	12		0.29	0.075	mg/Kg	✳	02/26/22 05:00	02/27/22 18:23	1
Copper	19		0.57	0.16	mg/Kg	✳	02/26/22 05:00	02/27/22 18:23	1
Iron	18000	B	11	6.0	mg/Kg	✳	02/26/22 05:00	02/28/22 17:35	1
Lead	13		0.29	0.13	mg/Kg	✳	02/26/22 05:00	02/27/22 18:23	1
Magnesium	20000		5.7	2.8	mg/Kg	✳	02/26/22 05:00	02/28/22 17:35	1
Manganese	410	B	0.57	0.083	mg/Kg	✳	02/26/22 05:00	02/28/22 17:35	1
Nickel	24		0.57	0.17	mg/Kg	✳	02/26/22 05:00	02/27/22 18:23	1
Potassium	980		29	10	mg/Kg	✳	02/26/22 05:00	02/28/22 17:35	1
Selenium	<0.57		0.57	0.34	mg/Kg	✳	02/26/22 05:00	02/28/22 17:35	1
Silver	<0.29		0.29	0.074	mg/Kg	✳	02/26/22 05:00	02/27/22 18:23	1
Sodium	470		57	8.5	mg/Kg	✳	02/26/22 05:00	02/28/22 17:35	1
Thallium	0.55	J	0.57	0.29	mg/Kg	✳	02/26/22 05:00	02/27/22 18:23	1
Vanadium	17		0.29	0.068	mg/Kg	✳	02/26/22 05:00	02/27/22 18:23	1
Zinc	59		1.1	0.50	mg/Kg	✳	02/26/22 05:00	02/27/22 18:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.52		0.50	0.050	mg/L		02/26/22 04:30	02/27/22 22:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/26/22 04:30	02/27/22 22:53	1
Boron	<0.50		0.50	0.050	mg/L		02/26/22 04:30	02/27/22 22:53	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B01 (5-10)

Lab Sample ID: 500-212442-6

Date Collected: 02/16/22 02:03

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/26/22 04:30	02/27/22 22:53	1
Chromium	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 22:53	1
Cobalt	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 22:53	1
Iron	<0.40		0.40	0.20	mg/L		02/26/22 04:30	02/27/22 22:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/26/22 04:30	02/27/22 22:53	1
Manganese	4.7		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 22:53	1
Nickel	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 22:53	1
Selenium	<0.050		0.050	0.020	mg/L		02/26/22 04:30	02/27/22 22:53	1
Silver	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 22:53	1
Zinc	<0.50		0.50	0.020	mg/L		02/26/22 04:30	02/27/22 22:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.35		0.025	0.010	mg/L		02/27/22 08:00	02/28/22 16:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/26/22 04:30	02/28/22 14:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/26/22 04:30	02/28/22 14:13	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 14:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.018	0.0059	mg/Kg	☆	03/01/22 14:00	03/02/22 09:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6	HF	0.2	0.2	SU			02/24/22 07:24	1

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

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

QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

GC/MS VOA

Prep Batch: 644405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212442-1	2233V2-01-B03 (0-5)	Total/NA	Solid	5035	
500-212442-2	2233V2-01-B03 (5-9.6)	Total/NA	Solid	5035	
500-212442-3	2233V2-01-B02 (0-5)	Total/NA	Solid	5035	
500-212442-4	2233V2-01-B02 (5-10)	Total/NA	Solid	5035	
500-212442-5	2233V2-01-B01 (0-5)	Total/NA	Solid	5035	
500-212442-6	2233V2-01-B01 (5-10)	Total/NA	Solid	5035	

Analysis Batch: 644616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212442-1	2233V2-01-B03 (0-5)	Total/NA	Solid	8260B	644405
500-212442-2	2233V2-01-B03 (5-9.6)	Total/NA	Solid	8260B	644405
500-212442-3	2233V2-01-B02 (0-5)	Total/NA	Solid	8260B	644405
500-212442-4	2233V2-01-B02 (5-10)	Total/NA	Solid	8260B	644405
500-212442-5	2233V2-01-B01 (0-5)	Total/NA	Solid	8260B	644405
500-212442-6	2233V2-01-B01 (5-10)	Total/NA	Solid	8260B	644405
MB 500-644616/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-644616/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-644616/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 644415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212442-1	2233V2-01-B03 (0-5)	Total/NA	Solid	3541	
500-212442-2	2233V2-01-B03 (5-9.6)	Total/NA	Solid	3541	
500-212442-3	2233V2-01-B02 (0-5)	Total/NA	Solid	3541	
500-212442-4	2233V2-01-B02 (5-10)	Total/NA	Solid	3541	
500-212442-5	2233V2-01-B01 (0-5)	Total/NA	Solid	3541	
500-212442-6	2233V2-01-B01 (5-10)	Total/NA	Solid	3541	
MB 500-644415/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-644415/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 644670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212442-1	2233V2-01-B03 (0-5)	Total/NA	Solid	8270D	644415
500-212442-2	2233V2-01-B03 (5-9.6)	Total/NA	Solid	8270D	644415
500-212442-3	2233V2-01-B02 (0-5)	Total/NA	Solid	8270D	644415
500-212442-4	2233V2-01-B02 (5-10)	Total/NA	Solid	8270D	644415
500-212442-5	2233V2-01-B01 (0-5)	Total/NA	Solid	8270D	644415
500-212442-6	2233V2-01-B01 (5-10)	Total/NA	Solid	8270D	644415
MB 500-644415/1-A	Method Blank	Total/NA	Solid	8270D	644415
LCS 500-644415/2-A	Lab Control Sample	Total/NA	Solid	8270D	644415

Metals

Leach Batch: 644384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212442-1	2233V2-01-B03 (0-5)	TCLP	Solid	1311	
500-212442-2	2233V2-01-B03 (5-9.6)	TCLP	Solid	1311	
500-212442-3	2233V2-01-B02 (0-5)	TCLP	Solid	1311	
500-212442-4	2233V2-01-B02 (5-10)	TCLP	Solid	1311	
500-212442-5	2233V2-01-B01 (0-5)	TCLP	Solid	1311	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Metals (Continued)

Leach Batch: 644384 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212442-6	2233V2-01-B01 (5-10)	TCLP	Solid	1311	
LB 500-644384/1-B	Method Blank	TCLP	Solid	1311	
LB 500-644384/2-B	Method Blank	TCLP	Solid	1311	

Leach Batch: 644387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212442-1	2233V2-01-B03 (0-5)	SPLP East	Solid	1312	
500-212442-2	2233V2-01-B03 (5-9.6)	SPLP East	Solid	1312	
500-212442-3	2233V2-01-B02 (0-5)	SPLP East	Solid	1312	
500-212442-4	2233V2-01-B02 (5-10)	SPLP East	Solid	1312	
500-212442-5	2233V2-01-B01 (0-5)	SPLP East	Solid	1312	
500-212442-6	2233V2-01-B01 (5-10)	SPLP East	Solid	1312	
LB 500-644387/1-B	Method Blank	SPLP East	Solid	1312	
500-212442-1 MS	2233V2-01-B03 (0-5)	SPLP East	Solid	1312	
500-212442-1 DU	2233V2-01-B03 (0-5)	SPLP East	Solid	1312	

Prep Batch: 644579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212442-1	2233V2-01-B03 (0-5)	Total/NA	Solid	3050B	
500-212442-2	2233V2-01-B03 (5-9.6)	Total/NA	Solid	3050B	
500-212442-3	2233V2-01-B02 (0-5)	Total/NA	Solid	3050B	
500-212442-4	2233V2-01-B02 (5-10)	Total/NA	Solid	3050B	
500-212442-5	2233V2-01-B01 (0-5)	Total/NA	Solid	3050B	
500-212442-6	2233V2-01-B01 (5-10)	Total/NA	Solid	3050B	
MB 500-644579/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-644579/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCS 500-644579/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 644586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212442-1	2233V2-01-B03 (0-5)	TCLP	Solid	3010A	644384
500-212442-2	2233V2-01-B03 (5-9.6)	TCLP	Solid	3010A	644384
500-212442-3	2233V2-01-B02 (0-5)	TCLP	Solid	3010A	644384
500-212442-4	2233V2-01-B02 (5-10)	TCLP	Solid	3010A	644384
500-212442-5	2233V2-01-B01 (0-5)	TCLP	Solid	3010A	644384
500-212442-6	2233V2-01-B01 (5-10)	TCLP	Solid	3010A	644384
LB 500-644384/1-B	Method Blank	TCLP	Solid	3010A	644384
LCS 500-644586/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 644589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212442-1	2233V2-01-B03 (0-5)	SPLP East	Solid	3010A	644387
500-212442-2	2233V2-01-B03 (5-9.6)	SPLP East	Solid	3010A	644387
500-212442-3	2233V2-01-B02 (0-5)	SPLP East	Solid	3010A	644387
500-212442-4	2233V2-01-B02 (5-10)	SPLP East	Solid	3010A	644387
500-212442-5	2233V2-01-B01 (0-5)	SPLP East	Solid	3010A	644387
500-212442-6	2233V2-01-B01 (5-10)	SPLP East	Solid	3010A	644387
LB 500-644387/1-B	Method Blank	SPLP East	Solid	3010A	644387
LCS 500-644589/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-212442-1 MS	2233V2-01-B03 (0-5)	SPLP East	Solid	3010A	644387
500-212442-1 DU	2233V2-01-B03 (0-5)	SPLP East	Solid	3010A	644387

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Metals

Analysis Batch: 644767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212442-1	2233V2-01-B03 (0-5)	Total/NA	Solid	6010B	644579
500-212442-2	2233V2-01-B03 (5-9.6)	Total/NA	Solid	6010B	644579
500-212442-3	2233V2-01-B02 (0-5)	Total/NA	Solid	6010B	644579
500-212442-4	2233V2-01-B02 (5-10)	Total/NA	Solid	6010B	644579
500-212442-5	2233V2-01-B01 (0-5)	Total/NA	Solid	6010B	644579
500-212442-6	2233V2-01-B01 (5-10)	Total/NA	Solid	6010B	644579
MB 500-644579/1-A	Method Blank	Total/NA	Solid	6010B	644579
LCS 500-644579/2-A	Lab Control Sample	Total/NA	Solid	6010B	644579

Analysis Batch: 644769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212442-1	2233V2-01-B03 (0-5)	TCLP	Solid	6010B	644586
500-212442-2	2233V2-01-B03 (5-9.6)	TCLP	Solid	6010B	644586
500-212442-3	2233V2-01-B02 (0-5)	TCLP	Solid	6010B	644586
500-212442-4	2233V2-01-B02 (5-10)	TCLP	Solid	6010B	644586
500-212442-5	2233V2-01-B01 (0-5)	TCLP	Solid	6010B	644586
500-212442-6	2233V2-01-B01 (5-10)	TCLP	Solid	6010B	644586
LB 500-644384/1-B	Method Blank	TCLP	Solid	6010B	644586
LCS 500-644586/2-A	Lab Control Sample	Total/NA	Solid	6010B	644586

Prep Batch: 644797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212442-1	2233V2-01-B03 (0-5)	TCLP	Solid	7470A	644384
500-212442-2	2233V2-01-B03 (5-9.6)	TCLP	Solid	7470A	644384
500-212442-3	2233V2-01-B02 (0-5)	TCLP	Solid	7470A	644384
500-212442-4	2233V2-01-B02 (5-10)	TCLP	Solid	7470A	644384
500-212442-5	2233V2-01-B01 (0-5)	TCLP	Solid	7470A	644384
500-212442-6	2233V2-01-B01 (5-10)	TCLP	Solid	7470A	644384
LB 500-644384/2-B	Method Blank	TCLP	Solid	7470A	644384
MB 500-644797/13-A	Method Blank	Total/NA	Solid	7470A	644384
LCS 500-644797/14-A	Lab Control Sample	Total/NA	Solid	7470A	644384

Analysis Batch: 644874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212442-1	2233V2-01-B03 (0-5)	TCLP	Solid	6020A	644586
500-212442-2	2233V2-01-B03 (5-9.6)	TCLP	Solid	6020A	644586
500-212442-3	2233V2-01-B02 (0-5)	TCLP	Solid	6020A	644586
500-212442-4	2233V2-01-B02 (5-10)	TCLP	Solid	6020A	644586
500-212442-5	2233V2-01-B01 (0-5)	TCLP	Solid	6020A	644586
500-212442-6	2233V2-01-B01 (5-10)	TCLP	Solid	6020A	644586
LB 500-644384/1-B	Method Blank	TCLP	Solid	6020A	644586
LCS 500-644586/2-A	Lab Control Sample	Total/NA	Solid	6020A	644586

Analysis Batch: 645022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212442-1	2233V2-01-B03 (0-5)	SPLP East	Solid	6010B	644589
500-212442-2	2233V2-01-B03 (5-9.6)	SPLP East	Solid	6010B	644589
500-212442-3	2233V2-01-B02 (0-5)	SPLP East	Solid	6010B	644589
500-212442-4	2233V2-01-B02 (5-10)	SPLP East	Solid	6010B	644589
500-212442-5	2233V2-01-B01 (0-5)	SPLP East	Solid	6010B	644589
500-212442-6	2233V2-01-B01 (5-10)	SPLP East	Solid	6010B	644589

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Metals (Continued)

Analysis Batch: 645022 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-644387/1-B	Method Blank	SPLP East	Solid	6010B	644589
LCS 500-644589/2-A	Lab Control Sample	Total/NA	Solid	6010B	644589
500-212442-1 MS	2233V2-01-B03 (0-5)	SPLP East	Solid	6010B	644589
500-212442-1 DU	2233V2-01-B03 (0-5)	SPLP East	Solid	6010B	644589

Analysis Batch: 645033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212442-1	2233V2-01-B03 (0-5)	Total/NA	Solid	6010B	644579
500-212442-1	2233V2-01-B03 (0-5)	Total/NA	Solid	6010B	644579
500-212442-2	2233V2-01-B03 (5-9.6)	Total/NA	Solid	6010B	644579
500-212442-2	2233V2-01-B03 (5-9.6)	Total/NA	Solid	6010B	644579
500-212442-3	2233V2-01-B02 (0-5)	Total/NA	Solid	6010B	644579
500-212442-3	2233V2-01-B02 (0-5)	Total/NA	Solid	6010B	644579
500-212442-4	2233V2-01-B02 (5-10)	Total/NA	Solid	6010B	644579
500-212442-4	2233V2-01-B02 (5-10)	Total/NA	Solid	6010B	644579
500-212442-5	2233V2-01-B01 (0-5)	Total/NA	Solid	6010B	644579
500-212442-5	2233V2-01-B01 (0-5)	Total/NA	Solid	6010B	644579
500-212442-6	2233V2-01-B01 (5-10)	Total/NA	Solid	6010B	644579
500-212442-6	2233V2-01-B01 (5-10)	Total/NA	Solid	6010B	644579
MB 500-644579/1-A	Method Blank	Total/NA	Solid	6010B	644579
LCS 500-644579/2-A	Lab Control Sample	Total/NA	Solid	6010B	644579
LCS 500-644579/2-A ^2	Lab Control Sample	Total/NA	Solid	6010B	644579

Prep Batch: 645073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212442-1	2233V2-01-B03 (0-5)	Total/NA	Solid	7471B	
500-212442-2	2233V2-01-B03 (5-9.6)	Total/NA	Solid	7471B	
500-212442-3	2233V2-01-B02 (0-5)	Total/NA	Solid	7471B	
500-212442-4	2233V2-01-B02 (5-10)	Total/NA	Solid	7471B	
500-212442-5	2233V2-01-B01 (0-5)	Total/NA	Solid	7471B	
500-212442-6	2233V2-01-B01 (5-10)	Total/NA	Solid	7471B	
MB 500-645073/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-645073/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 645111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212442-1	2233V2-01-B03 (0-5)	TCLP	Solid	7470A	644797
500-212442-2	2233V2-01-B03 (5-9.6)	TCLP	Solid	7470A	644797
500-212442-3	2233V2-01-B02 (0-5)	TCLP	Solid	7470A	644797
500-212442-4	2233V2-01-B02 (5-10)	TCLP	Solid	7470A	644797
500-212442-5	2233V2-01-B01 (0-5)	TCLP	Solid	7470A	644797
500-212442-6	2233V2-01-B01 (5-10)	TCLP	Solid	7470A	644797
LB 500-644384/2-B	Method Blank	TCLP	Solid	7470A	644797
MB 500-644797/13-A	Method Blank	Total/NA	Solid	7470A	644797
LCS 500-644797/14-A	Lab Control Sample	Total/NA	Solid	7470A	644797

Analysis Batch: 645272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212442-1	2233V2-01-B03 (0-5)	Total/NA	Solid	7471B	645073
500-212442-2	2233V2-01-B03 (5-9.6)	Total/NA	Solid	7471B	645073
500-212442-3	2233V2-01-B02 (0-5)	Total/NA	Solid	7471B	645073

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QC Association Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Metals (Continued)

Analysis Batch: 645272 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212442-4	2233V2-01-B02 (5-10)	Total/NA	Solid	7471B	645073
500-212442-5	2233V2-01-B01 (0-5)	Total/NA	Solid	7471B	645073
500-212442-6	2233V2-01-B01 (5-10)	Total/NA	Solid	7471B	645073
MB 500-645073/12-A	Method Blank	Total/NA	Solid	7471B	645073
LCS 500-645073/13-A	Lab Control Sample	Total/NA	Solid	7471B	645073

General Chemistry

Analysis Batch: 643903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212442-1	2233V2-01-B03 (0-5)	Total/NA	Solid	Moisture	
500-212442-2	2233V2-01-B03 (5-9.6)	Total/NA	Solid	Moisture	
500-212442-3	2233V2-01-B02 (0-5)	Total/NA	Solid	Moisture	
500-212442-4	2233V2-01-B02 (5-10)	Total/NA	Solid	Moisture	
500-212442-5	2233V2-01-B01 (0-5)	Total/NA	Solid	Moisture	
500-212442-6	2233V2-01-B01 (5-10)	Total/NA	Solid	Moisture	

Analysis Batch: 644304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212442-1	2233V2-01-B03 (0-5)	Total/NA	Solid	9045D	
500-212442-2	2233V2-01-B03 (5-9.6)	Total/NA	Solid	9045D	
500-212442-3	2233V2-01-B02 (0-5)	Total/NA	Solid	9045D	
500-212442-4	2233V2-01-B02 (5-10)	Total/NA	Solid	9045D	
500-212442-5	2233V2-01-B01 (0-5)	Total/NA	Solid	9045D	
500-212442-6	2233V2-01-B01 (5-10)	Total/NA	Solid	9045D	
LCS 500-644304/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-644304/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Surrogate Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(75-131)	(75-126)	(70-134)	(75-124)
500-212442-1	2233V2-01-B03 (0-5)	131	121	124	117
500-212442-2	2233V2-01-B03 (5-9.6)	118	124	121	112
500-212442-3	2233V2-01-B02 (0-5)	141 S1+	123	122	119
500-212442-4	2233V2-01-B02 (5-10)	124	122	125	116
500-212442-5	2233V2-01-B01 (0-5)	176 *3 S1+	122	123	137 S1+
500-212442-6	2233V2-01-B01 (5-10)	118	121	125	112
LCS 500-644616/3	Lab Control Sample	107	123	108	112
LCS 500-644616/4	Lab Control Sample Dup	109	124	108	115
MB 500-644616/6	Method Blank	114	116	109	114

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP	PHL	NBZ	FBP	TBP	TPHL
		(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-212442-1	2233V2-01-B03 (0-5)	103	86	81	93	82	108
500-212442-2	2233V2-01-B03 (5-9.6)	101	90	78	93	90	107
500-212442-3	2233V2-01-B02 (0-5)	99	97	81	94	92	102
500-212442-4	2233V2-01-B02 (5-10)	97	78	80	93	87	102
500-212442-5	2233V2-01-B01 (0-5)	99	96	86	94	90	100
500-212442-6	2233V2-01-B01 (5-10)	94	82	76	90	82	99
LCS 500-644415/2-A	Lab Control Sample	112	116	97	98	94	100
MB 500-644415/1-A	Method Blank	96	72	79	100	69	103

Surrogate Legend

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

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

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

Lab Sample ID: MB 500-644616/6
Matrix: Solid
Analysis Batch: 644616

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020	0.0087	mg/Kg			02/26/22 10:08	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			02/26/22 10:08	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			02/26/22 10:08	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			02/26/22 10:08	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			02/26/22 10:08	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			02/26/22 10:08	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			02/26/22 10:08	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			02/26/22 10:08	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			02/26/22 10:08	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			02/26/22 10:08	1
Chloroform	0.000836	J	0.0020	0.00069	mg/Kg			02/26/22 10:08	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			02/26/22 10:08	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			02/26/22 10:08	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			02/26/22 10:08	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			02/26/22 10:08	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			02/26/22 10:08	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			02/26/22 10:08	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			02/26/22 10:08	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			02/26/22 10:08	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg			02/26/22 10:08	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			02/26/22 10:08	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/26/22 10:08	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			02/26/22 10:08	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			02/26/22 10:08	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			02/26/22 10:08	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			02/26/22 10:08	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			02/26/22 10:08	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/26/22 10:08	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			02/26/22 10:08	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			02/26/22 10:08	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			02/26/22 10:08	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			02/26/22 10:08	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			02/26/22 10:08	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/26/22 10:08	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			02/26/22 10:08	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			02/26/22 10:08	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			02/26/22 10:08	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	114		75 - 131		02/26/22 10:08	1
Dibromofluoromethane	116		75 - 126		02/26/22 10:08	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134		02/26/22 10:08	1
Toluene-d8 (Surr)	114		75 - 124		02/26/22 10:08	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

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

Lab Sample ID: LCS 500-644616/3
Matrix: Solid
Analysis Batch: 644616

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0409		mg/Kg		82	40 - 150
Benzene	0.0500	0.0467		mg/Kg		93	70 - 125
Bromodichloromethane	0.0500	0.0461		mg/Kg		92	67 - 129
Bromoform	0.0500	0.0438		mg/Kg		88	68 - 136
Bromomethane	0.0500	0.0543		mg/Kg		109	70 - 130
2-Butanone (MEK)	0.0500	0.0489		mg/Kg		98	47 - 138
Carbon disulfide	0.0500	0.0481		mg/Kg		96	70 - 129
Carbon tetrachloride	0.0500	0.0486		mg/Kg		97	75 - 125
Chlorobenzene	0.0500	0.0431		mg/Kg		86	50 - 150
Chloroethane	0.0500	0.0554		mg/Kg		111	75 - 125
Chloroform	0.0500	0.0468		mg/Kg		94	57 - 135
Chloromethane	0.0500	0.0413		mg/Kg		83	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0491		mg/Kg		98	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0427		mg/Kg		85	70 - 125
Dibromochloromethane	0.0500	0.0454		mg/Kg		91	69 - 125
1,1-Dichloroethane	0.0500	0.0470		mg/Kg		94	70 - 125
1,2-Dichloroethane	0.0500	0.0466		mg/Kg		93	70 - 130
1,1-Dichloroethene	0.0500	0.0502		mg/Kg		100	70 - 120
1,2-Dichloropropane	0.0500	0.0444		mg/Kg		89	70 - 125
Ethylbenzene	0.0500	0.0438		mg/Kg		88	61 - 136
2-Hexanone	0.0500	0.0396		mg/Kg		79	48 - 146
Methylene Chloride	0.0500	0.0511		mg/Kg		102	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0412		mg/Kg		82	50 - 148
Methyl tert-butyl ether	0.0500	0.0462		mg/Kg		92	50 - 140
Styrene	0.0500	0.0427		mg/Kg		85	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0413		mg/Kg		83	70 - 122
Tetrachloroethene	0.0500	0.0459		mg/Kg		92	70 - 124
Toluene	0.0500	0.0435		mg/Kg		87	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0478		mg/Kg		96	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0419		mg/Kg		84	70 - 125
1,1,1-Trichloroethane	0.0500	0.0485		mg/Kg		97	70 - 128
1,1,2-Trichloroethane	0.0500	0.0432		mg/Kg		86	70 - 125
Trichloroethene	0.0500	0.0485		mg/Kg		97	70 - 125
Vinyl acetate	0.0500	0.0399		mg/Kg		80	40 - 153
Vinyl chloride	0.0500	0.0454		mg/Kg		91	70 - 125
Xylenes, Total	0.100	0.0848		mg/Kg		85	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	107		75 - 131
Dibromofluoromethane	123		75 - 126
1,2-Dichloroethane-d4 (Surr)	108		70 - 134
Toluene-d8 (Surr)	112		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

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

Lab Sample ID: LCSD 500-644616/4
Matrix: Solid
Analysis Batch: 644616

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0502		mg/Kg		100	40 - 150	20	30
Benzene	0.0500	0.0444		mg/Kg		89	70 - 125	5	30
Bromodichloromethane	0.0500	0.0426		mg/Kg		85	67 - 129	8	30
Bromoform	0.0500	0.0397		mg/Kg		79	68 - 136	10	30
Bromomethane	0.0500	0.0513		mg/Kg		103	70 - 130	6	30
2-Butanone (MEK)	0.0500	0.0476		mg/Kg		95	47 - 138	3	30
Carbon disulfide	0.0500	0.0485		mg/Kg		97	70 - 129	1	30
Carbon tetrachloride	0.0500	0.0491		mg/Kg		98	75 - 125	1	30
Chlorobenzene	0.0500	0.0408		mg/Kg		82	50 - 150	6	30
Chloroethane	0.0500	0.0493		mg/Kg		99	75 - 125	12	30
Chloroform	0.0500	0.0455		mg/Kg		91	57 - 135	3	30
Chloromethane	0.0500	0.0419		mg/Kg		84	70 - 125	1	30
cis-1,2-Dichloroethene	0.0500	0.0460		mg/Kg		92	70 - 125	6	30
cis-1,3-Dichloropropene	0.0500	0.0387		mg/Kg		77	70 - 125	10	30
Dibromochloromethane	0.0500	0.0411		mg/Kg		82	69 - 125	10	30
1,1-Dichloroethane	0.0500	0.0455		mg/Kg		91	70 - 125	3	30
1,2-Dichloroethane	0.0500	0.0437		mg/Kg		87	70 - 130	6	30
1,1-Dichloroethene	0.0500	0.0518		mg/Kg		104	70 - 120	3	30
1,2-Dichloropropane	0.0500	0.0410		mg/Kg		82	70 - 125	8	30
Ethylbenzene	0.0500	0.0432		mg/Kg		86	61 - 136	1	30
2-Hexanone	0.0500	0.0377		mg/Kg		75	48 - 146	5	30
Methylene Chloride	0.0500	0.0522		mg/Kg		104	70 - 126	2	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0417		mg/Kg		83	50 - 148	1	30
Methyl tert-butyl ether	0.0500	0.0431		mg/Kg		86	50 - 140	7	30
Styrene	0.0500	0.0404		mg/Kg		81	70 - 125	6	30
1,1,2,2-Tetrachloroethane	0.0500	0.0388		mg/Kg		78	70 - 122	6	30
Tetrachloroethene	0.0500	0.0454		mg/Kg		91	70 - 124	1	30
Toluene	0.0500	0.0427		mg/Kg		85	70 - 125	2	30
trans-1,2-Dichloroethene	0.0500	0.0474		mg/Kg		95	70 - 125	1	30
trans-1,3-Dichloropropene	0.0500	0.0375		mg/Kg		75	70 - 125	11	30
1,1,1-Trichloroethane	0.0500	0.0407		mg/Kg		81	70 - 128	17	30
1,1,2-Trichloroethane	0.0500	0.0399		mg/Kg		80	70 - 125	8	30
Trichloroethene	0.0500	0.0466		mg/Kg		93	70 - 125	4	30
Vinyl acetate	0.0500	0.0417		mg/Kg		83	40 - 153	4	30
Vinyl chloride	0.0500	0.0462		mg/Kg		92	70 - 125	2	30
Xylenes, Total	0.100	0.0822		mg/Kg		82	53 - 147	3	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	109		75 - 131
Dibromofluoromethane	124		75 - 126
1,2-Dichloroethane-d4 (Surr)	108		70 - 134
Toluene-d8 (Surr)	115		75 - 124

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

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

Lab Sample ID: MB 500-644415/1-A
Matrix: Solid
Analysis Batch: 644670

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644415

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/25/22 06:54	02/27/22 14:01	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

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

Lab Sample ID: MB 500-644415/1-A
Matrix: Solid
Analysis Batch: 644670

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644415

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/25/22 06:54	02/27/22 14:01	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/25/22 06:54	02/27/22 14:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	96		31 - 166	02/25/22 06:54	02/27/22 14:01	1
Phenol-d5	72		30 - 153	02/25/22 06:54	02/27/22 14:01	1
Nitrobenzene-d5 (Surr)	79		37 - 147	02/25/22 06:54	02/27/22 14:01	1
2-Fluorobiphenyl (Surr)	100		43 - 145	02/25/22 06:54	02/27/22 14:01	1
2,4,6-Tribromophenol	69		31 - 143	02/25/22 06:54	02/27/22 14:01	1
Terphenyl-d14 (Surr)	103		42 - 157	02/25/22 06:54	02/27/22 14:01	1

Lab Sample ID: LCS 500-644415/2-A
Matrix: Solid
Analysis Batch: 644670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644415

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.46		mg/Kg		109	56 - 122
Bis(2-chloroethyl)ether	1.33	1.13		mg/Kg		85	55 - 111
1,3-Dichlorobenzene	1.33	1.17		mg/Kg		87	65 - 124
1,4-Dichlorobenzene	1.33	1.19		mg/Kg		89	61 - 110
1,2-Dichlorobenzene	1.33	1.23		mg/Kg		92	62 - 110
2-Methylphenol	1.33	1.46		mg/Kg		110	60 - 120
2,2'-oxybis[1-chloropropane]	1.33	1.29		mg/Kg		97	40 - 124
N-Nitrosodi-n-propylamine	1.33	1.24		mg/Kg		93	56 - 118
Hexachloroethane	1.33	1.19		mg/Kg		89	60 - 114
2-Chlorophenol	1.33	1.31		mg/Kg		99	64 - 110
Nitrobenzene	1.33	1.21		mg/Kg		91	60 - 116
Bis(2-chloroethoxy)methane	1.33	1.20		mg/Kg		90	60 - 112
1,2,4-Trichlorobenzene	1.33	1.26		mg/Kg		95	66 - 117
Isophorone	1.33	1.27		mg/Kg		95	55 - 110
2,4-Dimethylphenol	1.33	1.40		mg/Kg		105	60 - 110
Hexachlorobutadiene	1.33	1.38		mg/Kg		104	56 - 120
Naphthalene	1.33	1.24		mg/Kg		93	63 - 110
2,4-Dichlorophenol	1.33	1.45		mg/Kg		109	58 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

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

Lab Sample ID: LCS 500-644415/2-A
Matrix: Solid
Analysis Batch: 644670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644415

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	1.33	0.693		mg/Kg		52	30 - 150
2,4,6-Trichlorophenol	1.33	1.40		mg/Kg		105	57 - 120
2,4,5-Trichlorophenol	1.33	1.31		mg/Kg		98	50 - 120
Hexachlorocyclopentadiene	1.33	0.300	J	mg/Kg		23	10 - 133
2-Methylnaphthalene	1.33	1.34		mg/Kg		101	69 - 112
2-Nitroaniline	1.33	1.37		mg/Kg		103	57 - 124
2-Chloronaphthalene	1.33	1.38		mg/Kg		104	69 - 114
4-Chloro-3-methylphenol	1.33	1.37		mg/Kg		103	65 - 122
2,6-Dinitrotoluene	1.33	1.40		mg/Kg		105	70 - 123
2-Nitrophenol	1.33	1.39		mg/Kg		104	60 - 120
3-Nitroaniline	1.33	0.852		mg/Kg		64	40 - 122
Dimethyl phthalate	1.33	1.33		mg/Kg		99	69 - 116
2,4-Dinitrophenol	2.67	1.22		mg/Kg		46	10 - 100
Acenaphthylene	1.33	1.24		mg/Kg		93	68 - 120
2,4-Dinitrotoluene	1.33	1.31		mg/Kg		98	69 - 124
Acenaphthene	1.33	1.20		mg/Kg		90	65 - 124
Dibenzofuran	1.33	1.25		mg/Kg		94	66 - 115
4-Nitrophenol	2.67	2.03		mg/Kg		76	30 - 122
Fluorene	1.33	1.18		mg/Kg		88	62 - 120
4-Nitroaniline	1.33	0.924		mg/Kg		69	60 - 160
4-Bromophenyl phenyl ether	1.33	1.34		mg/Kg		101	68 - 118
Hexachlorobenzene	1.33	1.36		mg/Kg		102	63 - 124
Diethyl phthalate	1.33	1.21		mg/Kg		91	58 - 120
4-Chlorophenyl phenyl ether	1.33	1.30		mg/Kg		97	62 - 119
Pentachlorophenol	2.67	1.67		mg/Kg		63	13 - 112
N-Nitrosodiphenylamine	1.33	1.25		mg/Kg		94	65 - 112
4,6-Dinitro-2-methylphenol	2.67	1.79		mg/Kg		67	10 - 110
Phenanthrene	1.33	1.20		mg/Kg		90	62 - 120
Anthracene	1.33	1.22		mg/Kg		91	70 - 114
Carbazole	1.33	1.31		mg/Kg		98	65 - 142
Di-n-butyl phthalate	1.33	1.19		mg/Kg		90	65 - 120
Fluoranthene	1.33	1.25		mg/Kg		94	62 - 120
Pyrene	1.33	1.26		mg/Kg		94	61 - 128
Butyl benzyl phthalate	1.33	1.14		mg/Kg		86	71 - 129
Benzo[a]anthracene	1.33	1.16		mg/Kg		87	67 - 122
Chrysene	1.33	1.23		mg/Kg		92	63 - 120
3,3'-Dichlorobenzidine	1.33	0.804		mg/Kg		60	35 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.22		mg/Kg		91	72 - 131
Di-n-octyl phthalate	1.33	1.22		mg/Kg		92	68 - 134
Benzo[b]fluoranthene	1.33	1.28		mg/Kg		96	69 - 129
Benzo[k]fluoranthene	1.33	1.36		mg/Kg		102	68 - 127
Benzo[a]pyrene	1.33	1.46		mg/Kg		110	65 - 133
Indeno[1,2,3-cd]pyrene	1.33	1.22		mg/Kg		91	68 - 130
Dibenz(a,h)anthracene	1.33	1.20		mg/Kg		90	64 - 131
Benzo[g,h,i]perylene	1.33	1.16		mg/Kg		87	72 - 131
3 & 4 Methylphenol	1.33	1.38		mg/Kg		104	57 - 120

QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

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

Lab Sample ID: LCS 500-644415/2-A
Matrix: Solid
Analysis Batch: 644670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644415

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	112		31 - 166
Phenol-d5	116		30 - 153
Nitrobenzene-d5 (Surr)	97		37 - 147
2-Fluorobiphenyl (Surr)	98		43 - 145
2,4,6-Tribromophenol	94		31 - 143
Terphenyl-d14 (Surr)	100		42 - 157

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-644579/1-A
Matrix: Solid
Analysis Batch: 644767

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644579

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		02/26/22 05:00	02/27/22 17:04	1
Arsenic	<1.0		1.0	0.34	mg/Kg		02/26/22 05:00	02/27/22 17:04	1
Boron	<5.0		5.0	0.47	mg/Kg		02/26/22 05:00	02/27/22 17:04	1
Cadmium	0.0504	J	0.20	0.036	mg/Kg		02/26/22 05:00	02/27/22 17:04	1
Cobalt	<0.50		0.50	0.13	mg/Kg		02/26/22 05:00	02/27/22 17:04	1
Copper	<1.0		1.0	0.28	mg/Kg		02/26/22 05:00	02/27/22 17:04	1
Lead	<0.50		0.50	0.23	mg/Kg		02/26/22 05:00	02/27/22 17:04	1
Nickel	<1.0		1.0	0.29	mg/Kg		02/26/22 05:00	02/27/22 17:04	1
Selenium	<1.0		1.0	0.59	mg/Kg		02/26/22 05:00	02/27/22 17:04	1
Silver	<0.50		0.50	0.13	mg/Kg		02/26/22 05:00	02/27/22 17:04	1
Thallium	<1.0		1.0	0.50	mg/Kg		02/26/22 05:00	02/27/22 17:04	1
Vanadium	<0.50		0.50	0.12	mg/Kg		02/26/22 05:00	02/27/22 17:04	1
Zinc	<2.0		2.0	0.88	mg/Kg		02/26/22 05:00	02/27/22 17:04	1

Lab Sample ID: MB 500-644579/1-A
Matrix: Solid
Analysis Batch: 645033

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644579

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<1.0		1.0	0.11	mg/Kg		02/26/22 05:00	02/28/22 15:59	1
Beryllium	<0.40		0.40	0.093	mg/Kg		02/26/22 05:00	02/28/22 15:59	1
Calcium	8.45	J	20	3.4	mg/Kg		02/26/22 05:00	02/28/22 15:59	1
Chromium	1.50		1.0	0.50	mg/Kg		02/26/22 05:00	02/28/22 15:59	1
Iron	20.5		20	10	mg/Kg		02/26/22 05:00	02/28/22 15:59	1
Magnesium	<10		10	5.0	mg/Kg		02/26/22 05:00	02/28/22 15:59	1
Manganese	0.197	J	1.0	0.15	mg/Kg		02/26/22 05:00	02/28/22 15:59	1
Potassium	<50		50	18	mg/Kg		02/26/22 05:00	02/28/22 15:59	1
Sodium	<100		100	15	mg/Kg		02/26/22 05:00	02/28/22 15:59	1

Lab Sample ID: LCS 500-644579/2-A
Matrix: Solid
Analysis Batch: 644767

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644579

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Antimony	50.0	45.5		mg/Kg		91	80 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

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

Lab Sample ID: LCS 500-644579/2-A
Matrix: Solid
Analysis Batch: 644767

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644579

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.0	7.96		mg/Kg		80	80 - 120
Boron	100	79.9		mg/Kg		80	80 - 120
Cadmium	5.00	4.41		mg/Kg		88	80 - 120
Chromium	20.0	20.0		mg/Kg		100	80 - 120
Cobalt	50.0	46.0		mg/Kg		92	80 - 120
Copper	25.0	23.5		mg/Kg		94	80 - 120
Lead	10.0	8.38		mg/Kg		84	80 - 120
Nickel	50.0	46.2		mg/Kg		92	80 - 120
Silver	5.00	4.50		mg/Kg		90	80 - 120
Thallium	10.0	8.13		mg/Kg		81	80 - 120
Vanadium	50.0	45.7		mg/Kg		91	80 - 120
Zinc	50.0	45.5		mg/Kg		91	80 - 120

Lab Sample ID: LCS 500-644579/2-A
Matrix: Solid
Analysis Batch: 645033

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644579

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	200	192		mg/Kg		96	80 - 120
Beryllium	5.00	4.84		mg/Kg		97	80 - 120
Calcium	1000	951		mg/Kg		95	80 - 120
Iron	100	113		mg/Kg		113	80 - 120
Magnesium	1000	922		mg/Kg		92	80 - 120
Manganese	50.0	48.2		mg/Kg		96	80 - 120
Potassium	1000	917		mg/Kg		92	80 - 120
Sodium	1000	929		mg/Kg		93	80 - 120

Lab Sample ID: LCS 500-644579/2-A ^2
Matrix: Solid
Analysis Batch: 645033

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644579

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	10.0	8.02		mg/Kg		80	80 - 120

Lab Sample ID: LCS 500-644586/2-A
Matrix: Solid
Analysis Batch: 644769

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644586

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.500	0.504		mg/L		101	80 - 120
Beryllium	0.0500	0.0455		mg/L		91	80 - 120
Boron	1.00	0.904		mg/L		90	80 - 120
Cadmium	0.0500	0.0500		mg/L		100	80 - 120
Chromium	0.200	0.192		mg/L		96	80 - 120
Cobalt	0.500	0.517		mg/L		103	80 - 120
Iron	1.00	1.05		mg/L		105	80 - 120
Lead	0.100	0.0979		mg/L		98	80 - 120
Manganese	0.500	0.467		mg/L		93	80 - 120
Nickel	0.500	0.505		mg/L		101	80 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

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

Lab Sample ID: LCS 500-644586/2-A
Matrix: Solid
Analysis Batch: 644769

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644586

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	0.100	0.118		mg/L		118	80 - 120
Silver	0.0500	0.0505		mg/L		101	80 - 120
Zinc	0.500	0.550		mg/L		110	80 - 120

Lab Sample ID: LCS 500-644589/2-A
Matrix: Solid
Analysis Batch: 645022

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644589

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	0.500	0.500		mg/L		100	80 - 120

Lab Sample ID: LB 500-644384/1-B
Matrix: Solid
Analysis Batch: 644769

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644586

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		02/26/22 04:30	02/27/22 21:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/26/22 04:30	02/27/22 21:22	1
Boron	<0.50		0.50	0.050	mg/L		02/26/22 04:30	02/27/22 21:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/26/22 04:30	02/27/22 21:22	1
Chromium	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 21:22	1
Cobalt	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 21:22	1
Iron	<0.40		0.40	0.20	mg/L		02/26/22 04:30	02/27/22 21:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/26/22 04:30	02/27/22 21:22	1
Manganese	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 21:22	1
Nickel	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 21:22	1
Selenium	<0.050		0.050	0.020	mg/L		02/26/22 04:30	02/27/22 21:22	1
Silver	<0.025		0.025	0.010	mg/L		02/26/22 04:30	02/27/22 21:22	1
Zinc	<0.50		0.50	0.020	mg/L		02/26/22 04:30	02/27/22 21:22	1

Lab Sample ID: LB 500-644387/1-B
Matrix: Solid
Analysis Batch: 645022

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 644589

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		02/27/22 08:00	02/28/22 15:52	1

Lab Sample ID: 500-212442-1 MS
Matrix: Solid
Analysis Batch: 645022

Client Sample ID: 2233V2-01-B03 (0-5)
Prep Type: SPLP East
Prep Batch: 644589

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	2.6		0.500	3.08	4	mg/L		89	75 - 125

Lab Sample ID: 500-212442-1 DU
Matrix: Solid
Analysis Batch: 645022

Client Sample ID: 2233V2-01-B03 (0-5)
Prep Type: SPLP East
Prep Batch: 644589

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Manganese	2.6		2.59		mg/L		2	20

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QC Sample Results

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-644586/2-A
Matrix: Solid
Analysis Batch: 644874

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644586

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.468		mg/L		94	80 - 120
Thallium	0.100	0.100		mg/L		100	80 - 120

Lab Sample ID: LB 500-644384/1-B
Matrix: Solid
Analysis Batch: 644874

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644586

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/26/22 04:30	02/28/22 13:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/26/22 04:30	02/28/22 13:16	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-644797/13-A
Matrix: Solid
Analysis Batch: 645111

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644797

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 13:40	1

Lab Sample ID: LCS 500-644797/14-A
Matrix: Solid
Analysis Batch: 645111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644797

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00202		mg/L		101	80 - 120

Lab Sample ID: LB 500-644384/2-B
Matrix: Solid
Analysis Batch: 645111

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 644797

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/28/22 14:20	03/01/22 13:27	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-645073/12-A
Matrix: Solid
Analysis Batch: 645272

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		03/01/22 14:00	03/02/22 08:35	1

Lab Sample ID: LCS 500-645073/13-A
Matrix: Solid
Analysis Batch: 645272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.171		mg/Kg		103	80 - 120

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B03 (0-5)

Lab Sample ID: 500-212442-1

Date Collected: 02/16/22 01:15

Matrix: Solid

Date Received: 02/16/22 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644387	02/24/22 12:44	EA	TAL CHI
SPLP East	Prep	3010A			644589	02/27/22 08:00	DAJ	TAL CHI
SPLP East	Analysis	6010B		1	645022	02/28/22 16:05	JJB	TAL CHI
TCLP	Leach	1311			644384	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644586	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6010B		1	644769	02/27/22 22:36	JJB	TAL CHI
TCLP	Leach	1311			644384	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644586	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6020A		1	644874	02/28/22 14:03	FXG	TAL CHI
TCLP	Leach	1311			644384	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	7470A			644797	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645111	03/01/22 14:21	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644304	02/24/22 07:09	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643903	02/23/22 07:26	LWN	TAL CHI

Client Sample ID: 2233V2-01-B03 (0-5)

Lab Sample ID: 500-212442-1

Date Collected: 02/16/22 01:15

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644405	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644616	02/26/22 15:26	PMF	TAL CHI
Total/NA	Prep	3541			644415	02/25/22 06:54	SB	TAL CHI
Total/NA	Analysis	8270D		1	644670	02/27/22 14:50	SS	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 17:56	JJB	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645033	02/28/22 16:56	JJB	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		5	645033	02/28/22 17:00	JJB	TAL CHI
Total/NA	Prep	7471B			645073	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 09:18	MJG	TAL CHI

Client Sample ID: 2233V2-01-B03 (5-9.6)

Lab Sample ID: 500-212442-2

Date Collected: 02/16/22 01:18

Matrix: Solid

Date Received: 02/16/22 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644387	02/24/22 12:44	EA	TAL CHI
SPLP East	Prep	3010A			644589	02/27/22 08:00	DAJ	TAL CHI
SPLP East	Analysis	6010B		1	645022	02/28/22 16:18	JJB	TAL CHI
TCLP	Leach	1311			644384	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644586	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6010B		1	644769	02/27/22 22:39	JJB	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B03 (5-9.6)
Date Collected: 02/16/22 01:18
Date Received: 02/16/22 12:20

Lab Sample ID: 500-212442-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			644384	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644586	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6020A		1	644874	02/28/22 14:05	FXG	TAL CHI
TCLP	Leach	1311			644384	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	7470A			644797	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645111	03/01/22 14:29	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644304	02/24/22 07:11	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643903	02/23/22 07:26	LWN	TAL CHI

Client Sample ID: 2233V2-01-B03 (5-9.6)
Date Collected: 02/16/22 01:18
Date Received: 02/16/22 12:20

Lab Sample ID: 500-212442-2
Matrix: Solid
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644405	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644616	02/26/22 15:53	PMF	TAL CHI
Total/NA	Prep	3541			644415	02/25/22 06:54	SB	TAL CHI
Total/NA	Analysis	8270D		1	644670	02/27/22 15:14	SS	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 18:09	JJB	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645033	02/28/22 17:03	JJB	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		5	645033	02/28/22 17:06	JJB	TAL CHI
Total/NA	Prep	7471B			645073	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 09:20	MJG	TAL CHI

Client Sample ID: 2233V2-01-B02 (0-5)
Date Collected: 02/16/22 01:38
Date Received: 02/16/22 12:20

Lab Sample ID: 500-212442-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644387	02/24/22 12:44	EA	TAL CHI
SPLP East	Prep	3010A			644589	02/27/22 08:00	DAJ	TAL CHI
SPLP East	Analysis	6010B		1	645022	02/28/22 16:21	JJB	TAL CHI
TCLP	Leach	1311			644384	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644586	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6010B		1	644769	02/27/22 22:43	JJB	TAL CHI
TCLP	Leach	1311			644384	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644586	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6020A		1	644874	02/28/22 14:07	FXG	TAL CHI
TCLP	Leach	1311			644384	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	7470A			644797	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645111	03/01/22 14:31	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644304	02/24/22 07:16	LWN	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B02 (0-5)

Lab Sample ID: 500-212442-3

Date Collected: 02/16/22 01:38

Matrix: Solid

Date Received: 02/16/22 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	643903	02/23/22 07:26	LWN	TAL CHI

Client Sample ID: 2233V2-01-B02 (0-5)

Lab Sample ID: 500-212442-3

Date Collected: 02/16/22 01:38

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644405	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644616	02/26/22 16:19	PMF	TAL CHI
Total/NA	Prep	3541			644415	02/25/22 06:54	SB	TAL CHI
Total/NA	Analysis	8270D		1	644670	02/27/22 15:38	SS	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 18:13	JJB	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645033	02/28/22 17:16	JJB	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		5	645033	02/28/22 17:19	JJB	TAL CHI
Total/NA	Prep	7471B			645073	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 09:22	MJG	TAL CHI

Client Sample ID: 2233V2-01-B02 (5-10)

Lab Sample ID: 500-212442-4

Date Collected: 02/16/22 01:40

Matrix: Solid

Date Received: 02/16/22 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644387	02/24/22 12:44	EA	TAL CHI
SPLP East	Prep	3010A			644589	02/27/22 08:00	DAJ	TAL CHI
SPLP East	Analysis	6010B		1	645022	02/28/22 16:24	JJB	TAL CHI
TCLP	Leach	1311			644384	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644586	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6010B		1	644769	02/27/22 22:46	JJB	TAL CHI
TCLP	Leach	1311			644384	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644586	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6020A		1	644874	02/28/22 14:09	FXG	TAL CHI
TCLP	Leach	1311			644384	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	7470A			644797	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645111	03/01/22 14:33	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644304	02/24/22 07:19	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643903	02/23/22 07:26	LWN	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B02 (5-10)

Lab Sample ID: 500-212442-4

Date Collected: 02/16/22 01:40

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644405	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644616	02/26/22 16:46	PMF	TAL CHI
Total/NA	Prep	3541			644415	02/25/22 06:54	SB	TAL CHI
Total/NA	Analysis	8270D		1	644670	02/27/22 16:02	SS	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 18:16	JJB	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645033	02/28/22 17:22	JJB	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		5	645033	02/28/22 17:25	JJB	TAL CHI
Total/NA	Prep	7471B			645073	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 09:24	MJG	TAL CHI

Client Sample ID: 2233V2-01-B01 (0-5)

Lab Sample ID: 500-212442-5

Date Collected: 02/16/22 02:00

Matrix: Solid

Date Received: 02/16/22 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644387	02/24/22 12:44	EA	TAL CHI
SPLP East	Prep	3010A			644589	02/27/22 08:00	DAJ	TAL CHI
SPLP East	Analysis	6010B		1	645022	02/28/22 16:27	JJB	TAL CHI
TCLP	Leach	1311			644384	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644586	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6010B		1	644769	02/27/22 22:50	JJB	TAL CHI
TCLP	Leach	1311			644384	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644586	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6020A		1	644874	02/28/22 14:11	FXG	TAL CHI
TCLP	Leach	1311			644384	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	7470A			644797	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645111	03/01/22 14:35	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644304	02/24/22 07:21	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643903	02/23/22 07:26	LWN	TAL CHI

Client Sample ID: 2233V2-01-B01 (0-5)

Lab Sample ID: 500-212442-5

Date Collected: 02/16/22 02:00

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644405	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644616	02/26/22 17:12	PMF	TAL CHI
Total/NA	Prep	3541			644415	02/25/22 06:54	SB	TAL CHI
Total/NA	Analysis	8270D		1	644670	02/27/22 16:26	SS	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 18:20	JJB	TAL CHI

Euromins Chicago

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Client Sample ID: 2233V2-01-B01 (0-5)

Lab Sample ID: 500-212442-5

Date Collected: 02/16/22 02:00

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645033	02/28/22 17:29	JJB	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		5	645033	02/28/22 17:32	JJB	TAL CHI
Total/NA	Prep	7471B			645073	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 09:26	MJG	TAL CHI

Client Sample ID: 2233V2-01-B01 (5-10)

Lab Sample ID: 500-212442-6

Date Collected: 02/16/22 02:03

Matrix: Solid

Date Received: 02/16/22 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			644387	02/24/22 12:44	EA	TAL CHI
SPLP East	Prep	3010A			644589	02/27/22 08:00	DAJ	TAL CHI
SPLP East	Analysis	6010B		1	645022	02/28/22 16:31	JJB	TAL CHI
TCLP	Leach	1311			644384	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644586	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6010B		1	644769	02/27/22 22:53	JJB	TAL CHI
TCLP	Leach	1311			644384	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	3010A			644586	02/26/22 04:30	DAJ	TAL CHI
TCLP	Analysis	6020A		1	644874	02/28/22 14:13	FXG	TAL CHI
TCLP	Leach	1311			644384	02/24/22 16:01	EA	TAL CHI
TCLP	Prep	7470A			644797	02/28/22 14:20		TAL CHI
TCLP	Analysis	7470A		1	645111	03/01/22 14:37	MJG	TAL CHI
Total/NA	Analysis	9045D		1	644304	02/24/22 07:24	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	643903	02/23/22 07:26	LWN	TAL CHI

Client Sample ID: 2233V2-01-B01 (5-10)

Lab Sample ID: 500-212442-6

Date Collected: 02/16/22 02:03

Matrix: Solid

Date Received: 02/16/22 12:20

Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			644405	02/16/22 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	644616	02/26/22 17:38	PMF	TAL CHI
Total/NA	Prep	3541			644415	02/25/22 06:54	SB	TAL CHI
Total/NA	Analysis	8270D		1	644670	02/27/22 16:51	SS	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	644767	02/27/22 18:23	JJB	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		1	645033	02/28/22 17:35	JJB	TAL CHI
Total/NA	Prep	3050B			644579	02/26/22 05:00		TAL CHI
Total/NA	Analysis	6010B		5	645033	02/28/22 17:38	JJB	TAL CHI
Total/NA	Prep	7471B			645073	03/01/22 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	645272	03/02/22 09:28	MJG	TAL CHI

Lab Chronicle

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Laboratory References:

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

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Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: IDOT - 196-002-WO003 Joliet

Job ID: 500-212442-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

1

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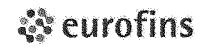
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Chain of Custody Record

542796




Environment Testing
TestAmerica

Address _____

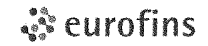
Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager: D Tiebow		Site Contact: A Haggal		Date: 2/15/2022		COC No 2	
Company Name: WSP		Tel/Email:		Lab Contact: R Wright		Carrier:		2 of 3 COCs	
Address: 30 N LaSalle		Analysis Turnaround Time							
City/State/Zip: Chicago IL		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____							
Phone:		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							
Fax:		Filtered Sample (Y/N) Perform MS/MSD (Y/N) PH 1. Solids VOCs SVOCs Total Metals TCLP Metals*							
Project Name: IDOT W0003									
Site: Toliet									
P O #									
 500-212442 COC		Walk-in Client. <input type="checkbox"/> Lab Sampling <input type="checkbox"/>		Job / SDG No 585-212442		Sample Specific Notes			
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.			
2233V2-01-B14(0-5)		2/15/22	1340	C	S	2	X	X	X
2233V2-01-B11(0-3)		2/16/22	0000	C	S	2	X	X	X
2233V2-01-B11(3-6.3)		2/16/22	0003	C	S	2	X	X	X
2233V2-01-B10(0-3)		2/16/22	0015	C	S	2	X	X	X
2233V2-01-B10(3-6.7)		2/16/22	0022	C	S	2	X	X	X
2233V2-01-B04(0.4)		2/16/22	0053	C	S	2	X	X	X
2233V2-01-B04(0.4) DUP		2/16/22	0055	C	S	2	X	X	X
2233V2-01-B04(4-7.8)		2/16/22	0100	C	S	2	X	X	X
2233V2-01-B03(0-5)		2/16/22	0115	C	S	2	X	X	X
2233V2-01-B03(5-9.6)		2/16/22	0118	C	S	2	X	X	X
2233V2-01-B02(0-5)		2/16/22	0136	C	S	2	X	X	X
2233V2-01-B02(5-10)		2/16/22	0140	C	S	2	X	X	X
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments: * SPLP analysis based on TCLP results									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp. (°C). Obs'd. _____ Corr'd _____		Therm ID No _____			
Relinquished by: Bryan McHenry		Company: WSP		Date/Time: 2/16/22 0215		Received by: P. Neal		Company: eurofins Date/Time: 2/16/22 0930	
Relinquished by: P. Neal		Company: eurofins		Date/Time: 2/16/22 1220		Received by: _____		Company: _____ Date/Time: _____	
Relinquished by: _____		Company: _____		Date/Time: _____		Received in Laboratory by: _____		Company: _____ Date/Time: 2/16/22 1220	

Chain of Custody Record

542797



Environment Testing
TestAmerica

Address: _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager D Tiebout		Site Contact: A Happer		Date: 2/16/2022		COC No 3	
Company Name WSP		Tel/Email		Lab Contact: R Wright		Carrier:		3 of 3 COCs	
Address: 30 N Kaswik		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) pH Solids VOCs SVOCs Total Metals TCLP metals*				Sampler	
City/State/Zip Chicago IL		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS						For Lab Use Only	
Phone		TAT if different from Below _____						Walk-in Client	
Fax		<input type="checkbox"/> 2 weeks						Lab Sampling	
Project Name Dot Woods		<input type="checkbox"/> 1 week						Job / SDG No	
Site Joliet		<input type="checkbox"/> 2 days		500-212442					
P O #		<input type="checkbox"/> 1 day							
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes		
5 6 2233V2-01-B01(0-5)		2/16/22	0200	C	S	2	XX XX XX XX		
2233V2-01-B01(5-10)		2/16/22	0203	C	S	2	XX XX XX XX		
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____									
Possible Hazard Identification. Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments: * SPLP analysis based on TCLP results									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No _____			
Relinquished by Bryan McHenry		Company WSP		Date/Time 02/16/22 0215		Received by P. Neal		Company eurofins	
Relinquished by P. Neal		Company eurofins		Date/Time 2/16/22 1220		Received by Shirley		Company BETA	
Relinquished by		Company		Date/Time		Received in Laboratory by		Date/Time	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-212442-1

Login Number: 212442

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.5,2.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

