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: FAU 1339 (Illinois Route 53) Office Phone Number, if available:

Physical Site Location (address, including number and street):
1101 Biesterfield Road (ISGS #3608-03)

City: Elk Grove Village State: IL Zip Code: 60007

County: Cook Township: Elk Grove

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

Latitude: 42.00221 (Decimal Degrees) Longitude: -88.02481 (-Decimal Degrees)

Identify how the lat/long data were determined:

○ GPS ◉ Map Interpolation ○ Photo Interpolation ○ Survey ○ Other

IEPA Site Number(s), if assigned: BOL: 314405504 & 314405695 BOW: BOA:

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

Estimated Volume of debris (cu. Yd.): 75

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.

Project Name: FAU 1339 (Illinois Route 53) Latitude: 42.00221 Longitude: - 88.02481

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Locations 3608-03-B01 and -B02 were sampled within the construction zone adjacent to ISGS #3608-3 (IDOT Maintenance Facility). Refer to PSI Report for ISGS #3608-3 (IDOT Maintenance Facility) including Tables 3-1 through 5-1 and Figures 4-1 and 4-2.

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 22010880 and 22011473.

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:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

02-01-2022
Date:

Expires 11/30/2023

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

Analytical Data Summary
PTB #196-002; Work Order 07 - 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.
J = Estimated value.
U = Analyte was analyzed for but not detected.

Criteria Qualifiers and Shading

\# = pH is less than 6.25 or greater than 9.0 standard units.
† = Concentration exceeds the most stringent MAC.
m = Concentration exceeds the MAC for an MSA.
* = Concentration exceeds the MAC for Chicago corporate limits.
c = Concentration exceeds a TACO Tier 1 RO for the Construction Worker Exposure Route.
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 07 - IDOT Job # D-91-441-20; Project # D-91-130-17

CONTAMINANTS OF CONCERN

SITE	ISGS #3608-3 (IDOT Maintenance Facility)			Comparison Criteria					
BORING	3608-03-B01	3608-03-B02		MACs			TACO		
SAMPLE	3608-03-B01 (0-3)	3608-03-B02 (0-3)	3608-03-B02 (0-3)-DUP						
MATRIX	Soil	Soil	Soil						
DEPTH (feet)	0-3	0-3	0-3						
pH	8.23	8.31	8.68						
PID (Meter Units)	--	--		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
VOCs (mg/kg)									
Acetone	ND U	**0.0045 J**	**0.0077 J**	25	--	--	70,000	100,000	--
SVOCs (mg/kg)									
Acenaphthene	ND U	ND U	**0.0086**	570	--	--	4,700	120,000	--
Anthracene	**0.12**	ND U	**0.015**	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	**0.36**	**0.033**	**0.038**	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	**0.28** †	**0.026**	**0.041**	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	**0.4**	**0.046**	**0.064**	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	**0.19**	**0.02**	**0.034**	--	--	--	--	--	--
Benzo(k)fluoranthene	**0.14**	**0.017**	**0.019**	9	--	--	9	1,700	--
Chrysene	**0.35**	**0.033**	**0.05**	88	--	--	88	17,000	--
Dibenzo(a,h)anthracene	**0.04 J**	**0.0072 J**	**0.0055 J**	0.09	0.42	0.2	0.42	17	--
Fluoranthene	**0.77**	**0.068**	**0.1**	3,100	--	--	3,100	82,000	--
Fluorene	ND U	ND U	**0.0094**	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	**0.2**	**0.021**	**0.03**	0.9	1.6	0.9	1.6	170	--
Phenanthrene	**0.51**	**0.054**	**0.077**	--	--	--	--	--	--
Pyrene	**0.62**	**0.072**	**0.095**	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)									
Antimony	**0.36 J**	**0.41**	**0.51**	5	--	--	31	82	--
Arsenic	**7.6**	**9.9**	**13** †	11.3	13	--	13	61	--
Barium	**59**	**46**	**55**	1,500	--	--	5,500	14,000	--
Beryllium	**0.48**	**0.45**	**0.58**	22	--	--	160	410	--
Boron	**6.4**	**8**	**7.8**	40	--	--	16,000	41,000	--
Cadmium	**0.13 J**	**0.04 J**	**0.1 J**	5.2	--	--	78	200	--
Calcium	**48,000**	**80,000**	**42,000**	--	--	--	--	--	--
Chromium	**12**	**12**	**15**	21	--	--	230	690	--
Cobalt	**10**	**8.3**	**11**	20	--	--	4,700	12,000	--
Copper	**32**	**29**	**37**	2,900	--	--	2,900	8,200	--
Iron	**22,000** †m	**24,000** †m	**35,000** †m	15,000	15,900	--	--	--	--
Lead	**30**	**21**	**22**	107	--	--	400	700	--
Magnesium	**29,000**	**47,000**	**25,000**	325,000	--	--	--	730,000	--
Manganese	**640** †m	**510**	**500**	630	636	--	1,600	4,100	--
Mercury	**0.036**	**0.036**	**0.037**	0.89	--	--	10	0.1	--
Nickel	**27**	**28**	**39**	100	--	--	1,600	4,100	--
Potassium	**1,200**	**1,200**	**1,400**	--	--	--	--	--	--
Selenium	**0.43**	ND U	ND U	1.3	--	--	390	1,000	--
Sodium	**620**	**1,800**	**1,800**	--	--	--	--	--	--
Thallium	**0.41**	**0.42**	**0.47**	2.6	--	--	6.3	160	--
Vanadium	**18**	**17**	**21**	550	--	--	550	1,400	--
Zinc	**45**	**43**	**53**	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)									
Barium	**0.48**	**0.58**	**0.74**	--	--	--	--	--	2
Boron	**1.3**	**1.3**	**1.3**	--	--	--	--	--	2
Cadmium	ND U	**0.0029 J**	**0.0034 J**	--	--	--	--	--	0.005
Cobalt	**0.0015 J**	**0.08**	**0.087**	--	--	--	--	--	1
Iron	ND U	**4.4**	**1**	--	--	--	--	--	5
Lead	ND U	**0.032 J L**	**0.022 J L**	--	--	--	--	--	0.0075
Manganese	**0.88 L**	**12 L**	**10 L**	--	--	--	--	--	0.15
Nickel	ND U	**0.07**	**0.083**	--	--	--	--	--	0.1
Zinc	**0.056 J**	**0.063 J**	**0.078 J**	--	--	--	--	--	5
SPLP Metals (mg/L)									
Lead	NA	**0.059 L**	**0.073 L**	--	--	--	--	--	0.0075
Manganese	**0.072**	**0.73 L**	**1 L**	--	--	--	--	--	0.15

24-Jan-2022

Dean Tiebout
WSP USA Corp.
30 N. LaSalle Street
Suite 4200
Chicago, IL 60602

Re: **WSP11/W007** Work Order: **22010880**

Dear Dean,

ALS Environmental received 26 samples on 13-Jan-2022 04:30 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 108.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: IL: 200076

ALS Group, USA

Date: 24-Jan-22

Client: WSP USA Corp.
Project: WSP11/W007
Work Order: **22010880**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
22010880-01	3608-04-B01 (0-5)	Soil		1/12/2022 11:00	1/13/2022 16:30	☐
22010880-02	3608-04-B01 (5-10)	Soil		1/12/2022 11:20	1/13/2022 16:30	☐
22010880-03	3608-04-B01 (10-15)	Soil		1/12/2022 11:25	1/13/2022 16:30	☐
22010880-04	3608-04-B01 (15-21)	Soil		1/12/2022 11:40	1/13/2022 16:30	☐
22010880-05	3608-04-B03 (0-5)	Soil		1/12/2022 12:20	1/13/2022 16:30	☐
22010880-06	3608-04-B03 (5-10)	Soil		1/12/2022 12:30	1/13/2022 16:30	☐
22010880-07	3608-04-B03 (10-15)	Soil		1/12/2022 12:35	1/13/2022 16:30	☐
22010880-08	3608-04-B03 (15-21)	Soil		1/12/2022 12:45	1/13/2022 16:30	☐
22010880-09	3608-04-B02 (0-3)	Soil		1/12/2022 13:30	1/13/2022 16:30	☐
22010880-10	3608-03-B01 (0-3)	Soil		1/12/2022 10:05	1/13/2022 16:30	☐
22010880-11	3608-03-B02 (0-3)	Soil		1/12/2022 10:25	1/13/2022 16:30	☐
22010880-12	3608-03-B02 (0-3) - DUP	Soil		1/12/2022 10:30	1/13/2022 16:30	☐
22010880-13	3608-04-B01 (0-5)	Tclp Extract		1/12/2022 11:00	1/13/2022 16:30	☐
22010880-14	3608-04-B01 (5-10)	Tclp Extract		1/12/2022 11:20	1/13/2022 16:30	☐
22010880-15	3608-04-B01 (10-15)	Tclp Extract		1/12/2022 11:25	1/13/2022 16:30	☐
22010880-16	3608-04-B01 (15-21)	Tclp Extract		1/12/2022 11:40	1/13/2022 16:30	☐
22010880-17	3608-04-B03 (0-5)	Tclp Extract		1/12/2022 12:20	1/13/2022 16:30	☐
22010880-18	3608-04-B03 (5-10)	Tclp Extract		1/12/2022 12:30	1/13/2022 16:30	☐
22010880-19	3608-04-B03 (10-15)	Tclp Extract		1/12/2022 12:35	1/13/2022 16:30	☐
22010880-20	3608-04-B03 (15-21)	Tclp Extract		1/12/2022 12:45	1/13/2022 16:30	☐
22010880-21	3608-04-B02 (0-3)	Tclp Extract		1/12/2022 13:30	1/13/2022 16:30	☐
22010880-22	3608-03-B01 (0-3)	Tclp Extract		1/12/2022 10:05	1/13/2022 16:30	☐
22010880-23	3608-03-B02 (0-3)	Tclp Extract		1/12/2022 10:25	1/13/2022 16:30	☐
22010880-24	3608-03-B02 (0-3) - DUP	Tclp Extract		1/12/2022 10:30	1/13/2022 16:30	☐
22010880-25	Trip Blank #1	Soil		1/12/2022	1/13/2022 16:30	☐
22010880-26	Trip Blank #2	Soil		1/12/2022	1/13/2022 16:30	☐

Client: WSP USA Corp.
Project: WSP11/W007
Work Order: 22010880

Case Narrative

Samples for the above noted Work Order were received on 01/13/2022. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Volatile Organics:

Batch R336706, Method SW8260C, Samples 22010880-02A through -05A, -07A, -09A, -11A, -12A, -25A, and -26A: The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: Vinyl acetate.

Batch 190390, Method SW8260C, Samples 22010880-01A, -06A, -08A, -10A: The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: Vinyl acetate.

Extractable Organics:

Batch 190590, Method SW846 8270D, Sample 3608-04-B03 (0-5) (22010880-05B): The SVOC reporting limits are elevated due to dilution needed to eliminate matrix-related interference.

Batch 190590, Method SW846 8270D, Samples 22010880-05B through -08B: The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol.

Batch 190590, Method SW846 8270D, Samples 22010880-01B through -04B: The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample

results were non-detect for the following analytes: Bis(2-chloroethyl)ether.

Batch 190590, Method SW846 8270D, Sample 3608-04-B01 (15-21) (22010880-04B): The SVOC reporting limits are elevated due to dilution needed to eliminate matrix-related interference.

Batch 190670, Method SW846 8270D, Sample 3608-03-B02 (0-3) (22010880-11B): One or more base/neutral surrogate recoveries were below the lower control limits. The base/neutral sample results may be biased low.

Metals:

Batch 190662, Method SW6020B, Sample 22010880-13A MS/MSD: The MS/MSD recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Manganese.

Wet Chemistry:
No other deviations or anomalies were noted.

ALS Group, USA

Date: 24-Jan-22

Qualifier	Description
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
°C	Degrees Celcius
µg/Kg	Micrograms per Kilogram
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter
s.u.	Standard Units

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-03-B01 (0-3)
Collection Date: 1/12/2022 10:05 AM

Work Order: 22010880
Lab ID: 22010880-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 1/19/22		Analyst: **EJC**
Mercury	**0.036**		**0.015**	**0.022**	**mg/Kg-dry**	1	1/19/2022 16:54
METALS BY ICP-MS		Method: **SW6020B**			Prep: SW3050B / 1/17/22		Analyst: **STP**
Antimony	**0.36**	J	**0.10**	**0.39**	**mg/Kg-dry**	1	1/18/2022 23:34
Arsenic	**7.6**		**0.047**	**0.39**	**mg/Kg-dry**	1	1/18/2022 23:34
Barium	**59**		**0.36**	**0.39**	**mg/Kg-dry**	1	1/18/2022 23:34
Beryllium	**0.48**		**0.027**	**0.16**	**mg/Kg-dry**	1	1/18/2022 23:34
Boron	**6.4**		**1.5**	**1.6**	**mg/Kg-dry**	1	1/18/2022 23:34
Cadmium	**0.13**	J	**0.023**	**0.16**	**mg/Kg-dry**	1	1/18/2022 23:34
Calcium	**48,000**		**190**	**390**	**mg/Kg-dry**	10	1/19/2022 14:21
Chromium	**12**		**0.17**	**0.39**	**mg/Kg-dry**	1	1/18/2022 23:34
Cobalt	**10**		**0.064**	**0.39**	**mg/Kg-dry**	1	1/18/2022 23:34
Copper	**32**		**3.9**	**3.9**	**mg/Kg-dry**	10	1/19/2022 14:21
Iron	**22,000**		**130**	**160**	**mg/Kg-dry**	10	1/19/2022 14:21
Lead	**30**		**0.19**	**0.39**	**mg/Kg-dry**	1	1/18/2022 23:34
Magnesium	**29,000**		**110**	**160**	**mg/Kg-dry**	10	1/19/2022 14:21
Manganese	**640**		**3.3**	**3.9**	**mg/Kg-dry**	10	1/19/2022 14:21
Nickel	**27**		**2.0**	**3.9**	**mg/Kg-dry**	10	1/19/2022 14:21
Potassium	**1,200**		**6.6**	**16**	**mg/Kg-dry**	1	1/18/2022 23:34
Selenium	**0.43**		**0.36**	**0.39**	**mg/Kg-dry**	1	1/18/2022 23:34
Silver	U		0.052	0.39	mg/Kg-dry	1	1/18/2022 23:34
Sodium	**620**		**21**	**23**	**mg/Kg-dry**	1	1/18/2022 23:34
Thallium	**0.41**		**0.061**	**0.39**	**mg/Kg-dry**	1	1/18/2022 23:34
Vanadium	**18**		**0.10**	**0.39**	**mg/Kg-dry**	1	1/18/2022 23:34
Zinc	**45**		**0.77**	**0.78**	**mg/Kg-dry**	1	1/18/2022 23:34
SEMI-VOLATILE ORGANIC COMPOUNDS		Method: **SW846 8270D**			Prep: SW3546 / 1/21/22		Analyst: **EEW**
1,2,4-Trichlorobenzene	U		150	290	µg/Kg-dry	1	1/21/2022 18:17
1,2-Dichlorobenzene	U		190	290	µg/Kg-dry	1	1/21/2022 18:17
1,3-Dichlorobenzene	U		190	290	µg/Kg-dry	1	1/21/2022 18:17
1,4-Dichlorobenzene	U		180	290	µg/Kg-dry	1	1/21/2022 18:17
2,2`-Oxybis(1-chloropropane)	U		200	290	µg/Kg-dry	1	1/21/2022 18:17
2,4,5-Trichlorophenol	U		170	290	µg/Kg-dry	1	1/21/2022 18:17
2,4,6-Trichlorophenol	U		77	290	µg/Kg-dry	1	1/21/2022 18:17
2,4-Dichlorophenol	U		160	290	µg/Kg-dry	1	1/21/2022 18:17
2,4-Dimethylphenol	U		150	290	µg/Kg-dry	1	1/21/2022 18:17
2,4-Dinitrophenol	U		520	5,800	µg/Kg-dry	1	1/21/2022 18:17
2,4-Dinitrotoluene	U		190	290	µg/Kg-dry	1	1/21/2022 18:17
2,6-Dinitrotoluene	U		190	290	µg/Kg-dry	1	1/21/2022 18:17

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-03-B01 (0-3)
Collection Date: 1/12/2022 10:05 AM

Work Order: 22010880
Lab ID: 22010880-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2-Chloronaphthalene	U		40	58	µg/Kg-dry	1	1/21/2022 18:17
2-Chlorophenol	U		190	290	µg/Kg-dry	1	1/21/2022 18:17
2-Methylnaphthalene	U		29	58	µg/Kg-dry	1	1/21/2022 18:17
2-Methylphenol	U		180	290	µg/Kg-dry	1	1/21/2022 18:17
2-Nitroaniline	U		160	290	µg/Kg-dry	1	1/21/2022 18:17
2-Nitrophenol	U		180	290	µg/Kg-dry	1	1/21/2022 18:17
3&4-Methylphenol	U		160	290	µg/Kg-dry	1	1/21/2022 18:17
3,3´-Dichlorobenzidine	U		130	1,400	µg/Kg-dry	1	1/21/2022 18:17
3-Nitroaniline	U		170	290	µg/Kg-dry	1	1/21/2022 18:17
4,6-Dinitro-2-methylphenol	U		240	290	µg/Kg-dry	1	1/21/2022 18:17
4-Bromophenyl phenyl ether	U		160	290	µg/Kg-dry	1	1/21/2022 18:17
4-Chloro-3-methylphenol	U		210	290	µg/Kg-dry	1	1/21/2022 18:17
4-Chloroaniline	U		150	580	µg/Kg-dry	1	1/21/2022 18:17
4-Chlorophenyl phenyl ether	U		190	290	µg/Kg-dry	1	1/21/2022 18:17
4-Nitroaniline	U		450	1,400	µg/Kg-dry	1	1/21/2022 18:17
4-Nitrophenol	U		140	1,400	µg/Kg-dry	1	1/21/2022 18:17
Acenaphthene	U		42	58	µg/Kg-dry	1	1/21/2022 18:17
Acenaphthylene	U		37	58	µg/Kg-dry	1	1/21/2022 18:17
Anthracene	**120**		**41**	**58**	**µg/Kg-dry**	1	1/21/2022 18:17
Benzo(a)anthracene	**360**		**50**	**58**	**µg/Kg-dry**	1	1/21/2022 18:17
Benzo(a)pyrene	**280**		**35**	**58**	**µg/Kg-dry**	1	1/21/2022 18:17
Benzo(b)fluoranthene	**400**		**43**	**58**	**µg/Kg-dry**	1	1/21/2022 18:17
Benzo(g,h,i)perylene	**190**		**44**	**58**	**µg/Kg-dry**	1	1/21/2022 18:17
Benzo(k)fluoranthene	**140**		**44**	**58**	**µg/Kg-dry**	1	1/21/2022 18:17
Bis(2-chloroethoxy)methane	U		180	290	µg/Kg-dry	1	1/21/2022 18:17
Bis(2-chloroethyl)ether	U		200	290	µg/Kg-dry	1	1/21/2022 18:17
Bis(2-ethylhexyl)phthalate	U		240	290	µg/Kg-dry	1	1/21/2022 18:17
Butyl benzyl phthalate	U		360	580	µg/Kg-dry	1	1/21/2022 18:17
Carbazole	U		210	290	µg/Kg-dry	1	1/21/2022 18:17
Chrysene	**350**		**47**	**58**	**µg/Kg-dry**	1	1/21/2022 18:17
Dibenzo(a,h)anthracene	**40**	J	**31**	**58**	**µg/Kg-dry**	1	1/21/2022 18:17
Dibenzofuran	U		180	290	µg/Kg-dry	1	1/21/2022 18:17
Diethyl phthalate	U		230	290	µg/Kg-dry	1	1/21/2022 18:17
Dimethyl phthalate	U		220	290	µg/Kg-dry	1	1/21/2022 18:17
Di-n-butyl phthalate	U		180	290	µg/Kg-dry	1	1/21/2022 18:17
Di-n-octyl phthalate	U		250	290	µg/Kg-dry	1	1/21/2022 18:17
Fluoranthene	**770**		**28**	**58**	**µg/Kg-dry**	1	1/21/2022 18:17
Fluorene	U		42	58	µg/Kg-dry	1	1/21/2022 18:17
Hexachlorobenzene	U		180	290	µg/Kg-dry	1	1/21/2022 18:17
Hexachlorobutadiene	U		220	290	µg/Kg-dry	1	1/21/2022 18:17

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-03-B01 (0-3)
Collection Date: 1/12/2022 10:05 AM

Work Order: 22010880
Lab ID: 22010880-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorocyclopentadiene	U		270	290	µg/Kg-dry	1	1/21/2022 18:17
Hexachloroethane	U		120	290	µg/Kg-dry	1	1/21/2022 18:17
Indeno(1,2,3-cd)pyrene	**200**		**40**	**58**	**µg/Kg-dry**	1	1/21/2022 18:17
Isophorone	U		210	1,400	µg/Kg-dry	1	1/21/2022 18:17
Naphthalene	U		37	58	µg/Kg-dry	1	1/21/2022 18:17
Nitrobenzene	U		220	1,400	µg/Kg-dry	1	1/21/2022 18:17
N-Nitrosodi-n-propylamine	U		280	290	µg/Kg-dry	1	1/21/2022 18:17
N-Nitrosodiphenylamine	U		160	290	µg/Kg-dry	1	1/21/2022 18:17
Pentachlorophenol	U		230	290	µg/Kg-dry	1	1/21/2022 18:17
Phenanthrene	**510**		**27**	**58**	**µg/Kg-dry**	1	1/21/2022 18:17
Phenol	U		140	290	µg/Kg-dry	1	1/21/2022 18:17
Pyrene	**620**		**55**	**58**	**µg/Kg-dry**	1	1/21/2022 18:17
Surr: 2,4,6-Tribromophenol	*83.9*			*38-92*	*%REC*	1	1/21/2022 18:17
Surr: 2-Fluorobiphenyl	*77.9*			*44-107*	*%REC*	1	1/21/2022 18:17
Surr: 2-Fluorophenol	*79.6*			*37-109*	*%REC*	1	1/21/2022 18:17
Surr: 4-Terphenyl-d14	*82.8*			*52-123*	*%REC*	1	1/21/2022 18:17
Surr: Nitrobenzene-d5	*75.9*			*41-94*	*%REC*	1	1/21/2022 18:17
Surr: Phenol-d6	*78.2*			*28-111*	*%REC*	1	1/21/2022 18:17
VOLATILE ORGANIC COMPOUNDS			Method: **SW8260C**		Prep: SW5035A / 1/14/22		Analyst: **JNS**
1,1,1-Trichloroethane	U		16	35	µg/Kg-dry	1	1/20/2022 17:07
1,1,2,2-Tetrachloroethane	U		15	35	µg/Kg-dry	1	1/20/2022 17:07
1,1,2-Trichloroethane	U		15	35	µg/Kg-dry	1	1/20/2022 17:07
1,1-Dichloroethane	U		13	35	µg/Kg-dry	1	1/20/2022 17:07
1,1-Dichloroethene	U		11	35	µg/Kg-dry	1	1/20/2022 17:07
1,2-Dichloroethane	U		52	120	µg/Kg-dry	1	1/20/2022 17:07
1,2-Dichloropropane	U		26	35	µg/Kg-dry	1	1/20/2022 17:07
2-Butanone	U		29	230	µg/Kg-dry	1	1/20/2022 17:07
2-Hexanone	U		17	35	µg/Kg-dry	1	1/20/2022 17:07
4-Methyl-2-pentanone	U		32	35	µg/Kg-dry	1	1/20/2022 17:07
Acetone	U		100	120	µg/Kg-dry	1	1/20/2022 17:07
Benzene	U		17	35	µg/Kg-dry	1	1/20/2022 17:07
Bromodichloromethane	U		19	35	µg/Kg-dry	1	1/20/2022 17:07
Bromoform	U		15	35	µg/Kg-dry	1	1/20/2022 17:07
Bromomethane	U		66	120	µg/Kg-dry	1	1/20/2022 17:07
Carbon disulfide	U		18	35	µg/Kg-dry	1	1/20/2022 17:07
Carbon tetrachloride	U		14	35	µg/Kg-dry	1	1/20/2022 17:07
Chlorobenzene	U		12	35	µg/Kg-dry	1	1/20/2022 17:07
Chloroethane	U		34	120	µg/Kg-dry	1	1/20/2022 17:07
Chloroform	U		13	35	µg/Kg-dry	1	1/20/2022 17:07

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-03-B01 (0-3)
Collection Date: 1/12/2022 10:05 AM

Work Order: 22010880
Lab ID: 22010880-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		95	120	µg/Kg-dry	1	1/20/2022 17:07
cis-1,2-Dichloroethene	U		22	35	µg/Kg-dry	1	1/20/2022 17:07
cis-1,3-Dichloropropene	U		26	35	µg/Kg-dry	1	1/20/2022 17:07
Dibromochloromethane	U		20	35	µg/Kg-dry	1	1/20/2022 17:07
Ethylbenzene	U		7.3	35	µg/Kg-dry	1	1/20/2022 17:07
Methyl tert-butyl ether	U		10	35	µg/Kg-dry	1	1/20/2022 17:07
Methylene chloride	U		92	290	µg/Kg-dry	1	1/20/2022 17:07
Styrene	U		14	35	µg/Kg-dry	1	1/20/2022 17:07
Tetrachloroethene	U		21	35	µg/Kg-dry	1	1/20/2022 17:07
Toluene	U		9.5	35	µg/Kg-dry	1	1/20/2022 17:07
trans-1,2-Dichloroethene	U		13	35	µg/Kg-dry	1	1/20/2022 17:07
trans-1,3-Dichloropropene	U		19	35	µg/Kg-dry	1	1/20/2022 17:07
Trichloroethene	U		16	35	µg/Kg-dry	1	1/20/2022 17:07
Vinyl acetate	U		24	290	µg/Kg-dry	1	1/20/2022 17:07
Vinyl chloride	U		23	35	µg/Kg-dry	1	1/20/2022 17:07
1,3-Dichloropropene, Total	U		26	70	µg/Kg-dry	1	1/20/2022 17:07
Xylenes, Total	U		46	100	µg/Kg-dry	1	1/20/2022 17:07
Surr: 1,2-Dichloroethane-d4	*103*			*70-130*	*%REC*	1	1/20/2022 17:07
Surr: 4-Bromofluorobenzene	*93.9*			*70-130*	*%REC*	1	1/20/2022 17:07
Surr: Dibromofluoromethane	*96.6*			*70-130*	*%REC*	1	1/20/2022 17:07
Surr: Toluene-d8	*93.0*			*70-130*	*%REC*	1	1/20/2022 17:07
MOISTURE		Method: **SW3550C**					Analyst: **ALG**
Moisture	**15**		**0.10**	**0.10**	**% of sample**	1	1/18/2022 12:07
SOIL PH MEASURED IN WATER AT NOTED TEMP.		Method: **SW9045D**			Prep: SW9045D / 1/18/22		Analyst: **KNC**
pH	**8.23**		**0.10**	**0.10**	**s.u.**	1	1/19/2022 08:48
Temperature	**20.5**		**0.10**	**0.10**	**°C**	1	1/19/2022 08:48

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *24-Jan-22*

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-03-B02 (0-3)
Collection Date: 1/12/2022 10:25 AM

Work Order: 22010880
Lab ID: 22010880-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 1/19/22		Analyst: **EJC**
Mercury	**0.036**		**0.014**	**0.021**	**mg/Kg-dry**	1	1/19/2022 16:55
METALS BY ICP-MS		Method: **SW6020B**			Prep: SW3050B / 1/17/22		Analyst: **STP**
Antimony	**0.41**		**0.11**	**0.40**	**mg/Kg-dry**	1	1/18/2022 23:36
Arsenic	**9.9**		**0.049**	**0.40**	**mg/Kg-dry**	1	1/18/2022 23:36
Barium	**46**		**0.37**	**0.40**	**mg/Kg-dry**	1	1/18/2022 23:36
Beryllium	**0.45**		**0.028**	**0.16**	**mg/Kg-dry**	1	1/18/2022 23:36
Boron	**8.0**		**1.5**	**1.6**	**mg/Kg-dry**	1	1/18/2022 23:36
Cadmium	**0.040**	J	**0.024**	**0.16**	**mg/Kg-dry**	1	1/18/2022 23:36
Calcium	**80,000**		**190**	**400**	**mg/Kg-dry**	10	1/19/2022 14:23
Chromium	**12**		**0.18**	**0.40**	**mg/Kg-dry**	1	1/18/2022 23:36
Cobalt	**8.3**		**0.066**	**0.40**	**mg/Kg-dry**	1	1/18/2022 23:36
Copper	**29**		**4.0**	**4.0**	**mg/Kg-dry**	10	1/19/2022 14:23
Iron	**24,000**		**130**	**160**	**mg/Kg-dry**	10	1/19/2022 14:23
Lead	**21**		**0.19**	**0.40**	**mg/Kg-dry**	1	1/18/2022 23:36
Magnesium	**47,000**		**110**	**160**	**mg/Kg-dry**	10	1/19/2022 14:23
Manganese	**510**		**3.4**	**4.0**	**mg/Kg-dry**	10	1/19/2022 14:23
Nickel	**28**		**2.1**	**4.0**	**mg/Kg-dry**	10	1/19/2022 14:23
Potassium	**1,200**		**6.8**	**16**	**mg/Kg-dry**	1	1/18/2022 23:36
Selenium	U		0.37	0.40	mg/Kg-dry	1	1/18/2022 23:36
Silver	U		0.053	0.40	mg/Kg-dry	1	1/18/2022 23:36
Sodium	**1,800**		**22**	**24**	**mg/Kg-dry**	1	1/18/2022 23:36
Thallium	**0.42**		**0.063**	**0.40**	**mg/Kg-dry**	1	1/18/2022 23:36
Vanadium	**17**		**0.10**	**0.40**	**mg/Kg-dry**	1	1/18/2022 23:36
Zinc	**43**		**0.79**	**0.81**	**mg/Kg-dry**	1	1/18/2022 23:36
SEMI-VOLATILE ORGANIC COMPOUNDS		Method: **SW846 8270D**			Prep: SW3546 / 1/21/22		Analyst: **EEW**
1,2,4-Trichlorobenzene	U		21	39	µg/Kg-dry	1	1/21/2022 18:41
1,2-Dichlorobenzene	U		26	39	µg/Kg-dry	1	1/21/2022 18:41
1,3-Dichlorobenzene	U		27	39	µg/Kg-dry	1	1/21/2022 18:41
1,4-Dichlorobenzene	U		24	39	µg/Kg-dry	1	1/21/2022 18:41
2,2`-Oxybis(1-chloropropane)	U		27	39	µg/Kg-dry	1	1/21/2022 18:41
2,4,5-Trichlorophenol	U		24	39	µg/Kg-dry	1	1/21/2022 18:41
2,4,6-Trichlorophenol	U		11	39	µg/Kg-dry	1	1/21/2022 18:41
2,4-Dichlorophenol	U		21	39	µg/Kg-dry	1	1/21/2022 18:41
2,4-Dimethylphenol	U		20	39	µg/Kg-dry	1	1/21/2022 18:41
2,4-Dinitrophenol	U		71	800	µg/Kg-dry	1	1/21/2022 18:41
2,4-Dinitrotoluene	U		26	39	µg/Kg-dry	1	1/21/2022 18:41
2,6-Dinitrotoluene	U		26	39	µg/Kg-dry	1	1/21/2022 18:41

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-03-B02 (0-3)
Collection Date: 1/12/2022 10:25 AM

Work Order: 22010880
Lab ID: 22010880-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2-Chloronaphthalene	U		5.6	8.0	µg/Kg-dry	1	1/21/2022 18:41
2-Chlorophenol	U		27	39	µg/Kg-dry	1	1/21/2022 18:41
2-Methylnaphthalene	U		4.0	8.0	µg/Kg-dry	1	1/21/2022 18:41
2-Methylphenol	U		24	39	µg/Kg-dry	1	1/21/2022 18:41
2-Nitroaniline	U		22	39	µg/Kg-dry	1	1/21/2022 18:41
2-Nitrophenol	U		25	39	µg/Kg-dry	1	1/21/2022 18:41
3&4-Methylphenol	U		22	39	µg/Kg-dry	1	1/21/2022 18:41
3,3´-Dichlorobenzidine	U		19	200	µg/Kg-dry	1	1/21/2022 18:41
3-Nitroaniline	U		23	39	µg/Kg-dry	1	1/21/2022 18:41
4,6-Dinitro-2-methylphenol	U		33	39	µg/Kg-dry	1	1/21/2022 18:41
4-Bromophenyl phenyl ether	U		22	39	µg/Kg-dry	1	1/21/2022 18:41
4-Chloro-3-methylphenol	U		29	39	µg/Kg-dry	1	1/21/2022 18:41
4-Chloroaniline	U		20	80	µg/Kg-dry	1	1/21/2022 18:41
4-Chlorophenyl phenyl ether	U		26	39	µg/Kg-dry	1	1/21/2022 18:41
4-Nitroaniline	U		62	200	µg/Kg-dry	1	1/21/2022 18:41
4-Nitrophenol	U		19	200	µg/Kg-dry	1	1/21/2022 18:41
Acenaphthene	U		5.7	8.0	µg/Kg-dry	1	1/21/2022 18:41
Acenaphthylene	U		5.2	8.0	µg/Kg-dry	1	1/21/2022 18:41
Anthracene	U		5.6	8.0	µg/Kg-dry	1	1/21/2022 18:41
Benzo(a)anthracene	**33**		**6.9**	**8.0**	**µg/Kg-dry**	1	1/21/2022 18:41
Benzo(a)pyrene	**26**		**4.9**	**8.0**	**µg/Kg-dry**	1	1/21/2022 18:41
Benzo(b)fluoranthene	**46**		**5.9**	**8.0**	**µg/Kg-dry**	1	1/21/2022 18:41
Benzo(g,h,i)perylene	**20**		**6.1**	**8.0**	**µg/Kg-dry**	1	1/21/2022 18:41
Benzo(k)fluoranthene	**17**		**6.0**	**8.0**	**µg/Kg-dry**	1	1/21/2022 18:41
Bis(2-chloroethoxy)methane	U		25	39	µg/Kg-dry	1	1/21/2022 18:41
Bis(2-chloroethyl)ether	U		28	39	µg/Kg-dry	1	1/21/2022 18:41
Bis(2-ethylhexyl)phthalate	U		33	39	µg/Kg-dry	1	1/21/2022 18:41
Butyl benzyl phthalate	U		50	80	µg/Kg-dry	1	1/21/2022 18:41
Carbazole	U		29	39	µg/Kg-dry	1	1/21/2022 18:41
Chrysene	**33**		**6.4**	**8.0**	**µg/Kg-dry**	1	1/21/2022 18:41
Dibenzo(a,h)anthracene	**7.2**	J	**4.3**	**8.0**	**µg/Kg-dry**	1	1/21/2022 18:41
Dibenzofuran	U		25	39	µg/Kg-dry	1	1/21/2022 18:41
Diethyl phthalate	U		31	39	µg/Kg-dry	1	1/21/2022 18:41
Dimethyl phthalate	U		30	39	µg/Kg-dry	1	1/21/2022 18:41
Di-n-butyl phthalate	U		24	39	µg/Kg-dry	1	1/21/2022 18:41
Di-n-octyl phthalate	U		34	39	µg/Kg-dry	1	1/21/2022 18:41
Fluoranthene	**68**		**3.8**	**8.0**	**µg/Kg-dry**	1	1/21/2022 18:41
Fluorene	U		5.8	8.0	µg/Kg-dry	1	1/21/2022 18:41
Hexachlorobenzene	U		24	39	µg/Kg-dry	1	1/21/2022 18:41
Hexachlorobutadiene	U		31	39	µg/Kg-dry	1	1/21/2022 18:41

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-03-B02 (0-3)
Collection Date: 1/12/2022 10:25 AM

Work Order: 22010880
Lab ID: 22010880-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorocyclopentadiene	U		38	39	µg/Kg-dry	1	1/21/2022 18:41
Hexachloroethane	U		16	39	µg/Kg-dry	1	1/21/2022 18:41
Indeno(1,2,3-cd)pyrene	**21**		**5.5**	**8.0**	**µg/Kg-dry**	1	1/21/2022 18:41
Isophorone	U		28	200	µg/Kg-dry	1	1/21/2022 18:41
Naphthalene	U		5.1	8.0	µg/Kg-dry	1	1/21/2022 18:41
Nitrobenzene	U		30	200	µg/Kg-dry	1	1/21/2022 18:41
N-Nitrosodi-n-propylamine	U		39	39	µg/Kg-dry	1	1/21/2022 18:41
N-Nitrosodiphenylamine	U		23	39	µg/Kg-dry	1	1/21/2022 18:41
Pentachlorophenol	U		32	39	µg/Kg-dry	1	1/21/2022 18:41
Phenanthrene	**54**		**3.7**	**8.0**	**µg/Kg-dry**	1	1/21/2022 18:41
Phenol	U		20	39	µg/Kg-dry	1	1/21/2022 18:41
Pyrene	**72**		**7.5**	**8.0**	**µg/Kg-dry**	1	1/21/2022 18:41
Surr: 2,4,6-Tribromophenol	*64.6*			*38-92*	*%REC*	1	1/21/2022 18:41
Surr: 2-Fluorobiphenyl	*65.9*			*44-107*	*%REC*	1	1/21/2022 18:41
Surr: 2-Fluorophenol	*63.5*			*37-109*	*%REC*	1	1/21/2022 18:41
Surr: 4-Terphenyl-d14	*68.9*			*52-123*	*%REC*	1	1/21/2022 18:41
Surr: Nitrobenzene-d5	*37.3*	S		*41-94*	*%REC*	1	1/21/2022 18:41
Surr: Phenol-d6	*65.5*			*28-111*	*%REC*	1	1/21/2022 18:41
VOLATILE ORGANIC COMPOUNDS - LOW LEVEL		Method: **SW8260C**					Analyst: **MF**
1,1,1-Trichloroethane	U		0.75	4.8	µg/Kg-dry	0.787	1/20/2022 15:11
1,1,2,2-Tetrachloroethane	U		0.61	4.8	µg/Kg-dry	0.787	1/20/2022 15:11
1,1,2-Trichloroethane	U		0.64	4.8	µg/Kg-dry	0.787	1/20/2022 15:11
1,1-Dichloroethane	U		0.59	4.8	µg/Kg-dry	0.787	1/20/2022 15:11
1,1-Dichloroethene	U		0.93	4.8	µg/Kg-dry	0.787	1/20/2022 15:11
1,2-Dichloroethane	U		0.53	4.8	µg/Kg-dry	0.787	1/20/2022 15:11
1,2-Dichloropropane	U		0.42	4.8	µg/Kg-dry	0.787	1/20/2022 15:11
2-Butanone	U		4.9	9.5	µg/Kg-dry	0.787	1/20/2022 15:11
2-Hexanone	U		1.7	4.8	µg/Kg-dry	0.787	1/20/2022 15:11
4-Methyl-2-pentanone	U		1.7	4.8	µg/Kg-dry	0.787	1/20/2022 15:11
Acetone	**4.5**	J	**4.4**	**9.5**	**µg/Kg-dry**	0.787	1/20/2022 15:11
Benzene	U		0.50	4.8	µg/Kg-dry	0.787	1/20/2022 15:11
Bromodichloromethane	U		0.57	4.8	µg/Kg-dry	0.787	1/20/2022 15:11
Bromoform	U		0.48	4.8	µg/Kg-dry	0.787	1/20/2022 15:11
Bromomethane	U		2.4	9.5	µg/Kg-dry	0.787	1/20/2022 15:11
Carbon disulfide	U		0.56	4.8	µg/Kg-dry	0.787	1/20/2022 15:11
Carbon tetrachloride	U		0.95	4.8	µg/Kg-dry	0.787	1/20/2022 15:11
Chlorobenzene	U		0.60	4.8	µg/Kg-dry	0.787	1/20/2022 15:11
Chloroethane	U		1.8	4.8	µg/Kg-dry	0.787	1/20/2022 15:11
Chloroform	U		0.78	4.8	µg/Kg-dry	0.787	1/20/2022 15:11

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-03-B02 (0-3)
Collection Date: 1/12/2022 10:25 AM

Work Order: 22010880
Lab ID: 22010880-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.95	9.5	µg/Kg-dry	0.787	1/20/2022 15:11
cis-1,2-Dichloroethene	U		0.51	4.8	µg/Kg-dry	0.787	1/20/2022 15:11
cis-1,3-Dichloropropene	U		0.57	4.8	µg/Kg-dry	0.787	1/20/2022 15:11
Dibromochloromethane	U		0.49	4.8	µg/Kg-dry	0.787	1/20/2022 15:11
Ethylbenzene	U		0.83	4.8	µg/Kg-dry	0.787	1/20/2022 15:11
Methyl tert-butyl ether	U		0.58	4.8	µg/Kg-dry	0.787	1/20/2022 15:11
Methylene chloride	U		5.9	9.5	µg/Kg-dry	0.787	1/20/2022 15:11
Styrene	U		0.71	4.8	µg/Kg-dry	0.787	1/20/2022 15:11
Tetrachloroethene	U		0.85	4.8	µg/Kg-dry	0.787	1/20/2022 15:11
Toluene	U		0.82	4.8	µg/Kg-dry	0.787	1/20/2022 15:11
trans-1,2-Dichloroethene	U		0.48	4.8	µg/Kg-dry	0.787	1/20/2022 15:11
trans-1,3-Dichloropropene	U		0.46	4.8	µg/Kg-dry	0.787	1/20/2022 15:11
Trichloroethene	U		0.69	4.8	µg/Kg-dry	0.787	1/20/2022 15:11
Vinyl acetate	U		3.2	19	µg/Kg-dry	0.787	1/20/2022 15:11
Vinyl chloride	U		0.67	4.8	µg/Kg-dry	0.787	1/20/2022 15:11
1,3-Dichloropropene, Total	U		0.57	14	µg/Kg-dry	0.787	1/20/2022 15:11
Xylenes, Total	U		2.1	4.8	µg/Kg-dry	0.787	1/20/2022 15:11
Surr: 1,2-Dichloroethane-d4	*84.7*			*83-132*	*%REC*	0.787	1/20/2022 15:11
Surr: 4-Bromofluorobenzene	*91.6*			*83-111*	*%REC*	0.787	1/20/2022 15:11
Surr: Dibromofluoromethane	*95.2*			*77-125*	*%REC*	0.787	1/20/2022 15:11
Surr: Toluene-d8	*104*			*86-108*	*%REC*	0.787	1/20/2022 15:11
MOISTURE		Method: **SW3550C**					Analyst: **ALG**
Moisture	**17**		**0.10**	**0.10**	**% of sample**	1	1/18/2022 12:07
SOIL PH MEASURED IN WATER AT NOTED TEMP.		Method: **SW9045D**			Prep: SW9045D / 1/18/22		Analyst: **KNC**
pH	**8.31**		**0.10**	**0.10**	**s.u.**	1	1/19/2022 08:48
Temperature	**20.9**		**0.10**	**0.10**	**°C**	1	1/19/2022 08:48

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *24-Jan-22*

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-03-B02 (0-3) - DUP
Collection Date: 1/12/2022 10:30 AM

Work Order: 22010880
Lab ID: 22010880-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 1/19/22		Analyst: **EJC**
Mercury	**0.037**		**0.014**	**0.021**	**mg/Kg-dry**	1	1/19/2022 16:57
METALS BY ICP-MS		Method: **SW6020B**			Prep: SW3050B / 1/17/22		Analyst: **STP**
Antimony	**0.51**		**0.12**	**0.43**	**mg/Kg-dry**	1	1/18/2022 23:38
Arsenic	**13**		**0.052**	**0.43**	**mg/Kg-dry**	1	1/18/2022 23:38
Barium	**55**		**0.40**	**0.43**	**mg/Kg-dry**	1	1/18/2022 23:38
Beryllium	**0.58**		**0.029**	**0.17**	**mg/Kg-dry**	1	1/18/2022 23:38
Boron	**7.8**		**1.6**	**1.7**	**mg/Kg-dry**	1	1/18/2022 23:38
Cadmium	**0.10**	J	**0.026**	**0.17**	**mg/Kg-dry**	1	1/18/2022 23:38
Calcium	**42,000**		**210**	**430**	**mg/Kg-dry**	10	1/19/2022 14:25
Chromium	**15**		**0.19**	**0.43**	**mg/Kg-dry**	1	1/18/2022 23:38
Cobalt	**11**		**0.071**	**0.43**	**mg/Kg-dry**	1	1/18/2022 23:38
Copper	**37**		**4.3**	**4.3**	**mg/Kg-dry**	10	1/19/2022 14:25
Iron	**35,000**		**140**	**170**	**mg/Kg-dry**	10	1/19/2022 14:25
Lead	**22**		**0.21**	**0.43**	**mg/Kg-dry**	1	1/18/2022 23:38
Magnesium	**25,000**		**120**	**170**	**mg/Kg-dry**	10	1/19/2022 14:25
Manganese	**500**		**3.6**	**4.3**	**mg/Kg-dry**	10	1/19/2022 14:25
Nickel	**39**		**2.2**	**4.3**	**mg/Kg-dry**	10	1/19/2022 14:25
Potassium	**1,400**		**7.3**	**17**	**mg/Kg-dry**	1	1/18/2022 23:38
Selenium	U		0.40	0.43	mg/Kg-dry	1	1/18/2022 23:38
Silver	U		0.057	0.43	mg/Kg-dry	1	1/18/2022 23:38
Sodium	**1,800**		**23**	**26**	**mg/Kg-dry**	1	1/18/2022 23:38
Thallium	**0.47**		**0.067**	**0.43**	**mg/Kg-dry**	1	1/18/2022 23:38
Vanadium	**21**		**0.11**	**0.43**	**mg/Kg-dry**	1	1/18/2022 23:38
Zinc	**53**		**0.85**	**0.87**	**mg/Kg-dry**	1	1/18/2022 23:38
SEMI-VOLATILE ORGANIC COMPOUNDS		Method: **SW846 8270D**			Prep: SW3546 / 1/21/22		Analyst: **EEW**
1,2,4-Trichlorobenzene	U		21	39	µg/Kg-dry	1	1/21/2022 19:04
1,2-Dichlorobenzene	U		26	39	µg/Kg-dry	1	1/21/2022 19:04
1,3-Dichlorobenzene	U		26	39	µg/Kg-dry	1	1/21/2022 19:04
1,4-Dichlorobenzene	U		24	39	µg/Kg-dry	1	1/21/2022 19:04
2,2`-Oxybis(1-chloropropane)	U		27	39	µg/Kg-dry	1	1/21/2022 19:04
2,4,5-Trichlorophenol	U		23	39	µg/Kg-dry	1	1/21/2022 19:04
2,4,6-Trichlorophenol	U		10	39	µg/Kg-dry	1	1/21/2022 19:04
2,4-Dichlorophenol	U		21	39	µg/Kg-dry	1	1/21/2022 19:04
2,4-Dimethylphenol	U		20	39	µg/Kg-dry	1	1/21/2022 19:04
2,4-Dinitrophenol	U		70	780	µg/Kg-dry	1	1/21/2022 19:04
2,4-Dinitrotoluene	U		25	39	µg/Kg-dry	1	1/21/2022 19:04
2,6-Dinitrotoluene	U		26	39	µg/Kg-dry	1	1/21/2022 19:04

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-03-B02 (0-3) - DUP
Collection Date: 1/12/2022 10:30 AM

Work Order: 22010880
Lab ID: 22010880-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2-Chloronaphthalene	U		5.5	7.8	µg/Kg-dry	1	1/21/2022 19:04
2-Chlorophenol	U		26	39	µg/Kg-dry	1	1/21/2022 19:04
2-Methylnaphthalene	U		4.0	7.8	µg/Kg-dry	1	1/21/2022 19:04
2-Methylphenol	U		24	39	µg/Kg-dry	1	1/21/2022 19:04
2-Nitroaniline	U		22	39	µg/Kg-dry	1	1/21/2022 19:04
2-Nitrophenol	U		25	39	µg/Kg-dry	1	1/21/2022 19:04
3&4-Methylphenol	U		21	39	µg/Kg-dry	1	1/21/2022 19:04
3,3´-Dichlorobenzidine	U		18	200	µg/Kg-dry	1	1/21/2022 19:04
3-Nitroaniline	U		23	39	µg/Kg-dry	1	1/21/2022 19:04
4,6-Dinitro-2-methylphenol	U		33	39	µg/Kg-dry	1	1/21/2022 19:04
4-Bromophenyl phenyl ether	U		21	39	µg/Kg-dry	1	1/21/2022 19:04
4-Chloro-3-methylphenol	U		29	39	µg/Kg-dry	1	1/21/2022 19:04
4-Chloroaniline	U		20	79	µg/Kg-dry	1	1/21/2022 19:04
4-Chlorophenyl phenyl ether	U		25	39	µg/Kg-dry	1	1/21/2022 19:04
4-Nitroaniline	U		61	200	µg/Kg-dry	1	1/21/2022 19:04
4-Nitrophenol	U		19	200	µg/Kg-dry	1	1/21/2022 19:04
Acenaphthene	**8.6**		**5.7**	**7.8**	**µg/Kg-dry**	1	1/21/2022 19:04
Acenaphthylene	U		5.1	7.8	µg/Kg-dry	1	1/21/2022 19:04
Anthracene	**15**		**5.5**	**7.8**	**µg/Kg-dry**	1	1/21/2022 19:04
Benzo(a)anthracene	**38**		**6.8**	**7.8**	**µg/Kg-dry**	1	1/21/2022 19:04
Benzo(a)pyrene	**41**		**4.8**	**7.8**	**µg/Kg-dry**	1	1/21/2022 19:04
Benzo(b)fluoranthene	**64**		**5.8**	**7.8**	**µg/Kg-dry**	1	1/21/2022 19:04
Benzo(g,h,i)perylene	**34**		**6.0**	**7.8**	**µg/Kg-dry**	1	1/21/2022 19:04
Benzo(k)fluoranthene	**19**		**5.9**	**7.8**	**µg/Kg-dry**	1	1/21/2022 19:04
Bis(2-chloroethoxy)methane	U		25	39	µg/Kg-dry	1	1/21/2022 19:04
Bis(2-chloroethyl)ether	U		28	39	µg/Kg-dry	1	1/21/2022 19:04
Bis(2-ethylhexyl)phthalate	U		32	39	µg/Kg-dry	1	1/21/2022 19:04
Butyl benzyl phthalate	U		49	79	µg/Kg-dry	1	1/21/2022 19:04
Carbazole	U		28	39	µg/Kg-dry	1	1/21/2022 19:04
Chrysene	**50**		**6.3**	**7.8**	**µg/Kg-dry**	1	1/21/2022 19:04
Dibenzo(a,h)anthracene	**5.5**	J	**4.2**	**7.8**	**µg/Kg-dry**	1	1/21/2022 19:04
Dibenzofuran	U		24	39	µg/Kg-dry	1	1/21/2022 19:04
Diethyl phthalate	U		31	39	µg/Kg-dry	1	1/21/2022 19:04
Dimethyl phthalate	U		30	39	µg/Kg-dry	1	1/21/2022 19:04
Di-n-butyl phthalate	U		24	39	µg/Kg-dry	1	1/21/2022 19:04
Di-n-octyl phthalate	U		34	39	µg/Kg-dry	1	1/21/2022 19:04
Fluoranthene	**100**		**3.8**	**7.8**	**µg/Kg-dry**	1	1/21/2022 19:04
Fluorene	**9.4**		**5.7**	**7.8**	**µg/Kg-dry**	1	1/21/2022 19:04
Hexachlorobenzene	U		24	39	µg/Kg-dry	1	1/21/2022 19:04
Hexachlorobutadiene	U		30	39	µg/Kg-dry	1	1/21/2022 19:04

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-03-B02 (0-3) - DUP
Collection Date: 1/12/2022 10:30 AM

Work Order: 22010880
Lab ID: 22010880-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorocyclopentadiene	U		37	39	µg/Kg-dry	1	1/21/2022 19:04
Hexachloroethane	U		16	39	µg/Kg-dry	1	1/21/2022 19:04
Indeno(1,2,3-cd)pyrene	**30**		**5.5**	**7.8**	**µg/Kg-dry**	1	1/21/2022 19:04
Isophorone	U		28	200	µg/Kg-dry	1	1/21/2022 19:04
Naphthalene	U		5.0	7.8	µg/Kg-dry	1	1/21/2022 19:04
Nitrobenzene	U		30	200	µg/Kg-dry	1	1/21/2022 19:04
N-Nitrosodi-n-propylamine	U		38	39	µg/Kg-dry	1	1/21/2022 19:04
N-Nitrosodiphenylamine	U		22	39	µg/Kg-dry	1	1/21/2022 19:04
Pentachlorophenol	U		31	39	µg/Kg-dry	1	1/21/2022 19:04
Phenanthrene	**77**		**3.6**	**7.8**	**µg/Kg-dry**	1	1/21/2022 19:04
Phenol	U		20	39	µg/Kg-dry	1	1/21/2022 19:04
Pyrene	**95**		**7.4**	**7.8**	**µg/Kg-dry**	1	1/21/2022 19:04
Surr: 2,4,6-Tribromophenol	*65.3*			*38-92*	*%REC*	1	1/21/2022 19:04
Surr: 2-Fluorobiphenyl	*71.0*			*44-107*	*%REC*	1	1/21/2022 19:04
Surr: 2-Fluorophenol	*69.2*			*37-109*	*%REC*	1	1/21/2022 19:04
Surr: 4-Terphenyl-d14	*73.9*			*52-123*	*%REC*	1	1/21/2022 19:04
Surr: Nitrobenzene-d5	*60.9*			*41-94*	*%REC*	1	1/21/2022 19:04
Surr: Phenol-d6	*69.2*			*28-111*	*%REC*	1	1/21/2022 19:04
VOLATILE ORGANIC COMPOUNDS - LOW LEVEL		Method: **SW8260C**					Analyst: **MF**
1,1,1-Trichloroethane	U		0.78	4.9	µg/Kg-dry	0.822	1/20/2022 15:29
1,1,2,2-Tetrachloroethane	U		0.63	4.9	µg/Kg-dry	0.822	1/20/2022 15:29
1,1,2-Trichloroethane	U		0.66	4.9	µg/Kg-dry	0.822	1/20/2022 15:29
1,1-Dichloroethane	U		0.61	4.9	µg/Kg-dry	0.822	1/20/2022 15:29
1,1-Dichloroethene	U		0.97	4.9	µg/Kg-dry	0.822	1/20/2022 15:29
1,2-Dichloroethane	U		0.55	4.9	µg/Kg-dry	0.822	1/20/2022 15:29
1,2-Dichloropropane	U		0.43	4.9	µg/Kg-dry	0.822	1/20/2022 15:29
2-Butanone	U		5.0	9.9	µg/Kg-dry	0.822	1/20/2022 15:29
2-Hexanone	U		1.8	4.9	µg/Kg-dry	0.822	1/20/2022 15:29
4-Methyl-2-pentanone	U		1.8	4.9	µg/Kg-dry	0.822	1/20/2022 15:29
Acetone	**7.7**	J	**4.5**	**9.9**	**µg/Kg-dry**	0.822	1/20/2022 15:29
Benzene	U		0.51	4.9	µg/Kg-dry	0.822	1/20/2022 15:29
Bromodichloromethane	U		0.59	4.9	µg/Kg-dry	0.822	1/20/2022 15:29
Bromoform	U		0.49	4.9	µg/Kg-dry	0.822	1/20/2022 15:29
Bromomethane	U		2.5	9.9	µg/Kg-dry	0.822	1/20/2022 15:29
Carbon disulfide	U		0.58	4.9	µg/Kg-dry	0.822	1/20/2022 15:29
Carbon tetrachloride	U		0.99	4.9	µg/Kg-dry	0.822	1/20/2022 15:29
Chlorobenzene	U		0.62	4.9	µg/Kg-dry	0.822	1/20/2022 15:29
Chloroethane	U		1.9	4.9	µg/Kg-dry	0.822	1/20/2022 15:29
Chloroform	U		0.81	4.9	µg/Kg-dry	0.822	1/20/2022 15:29

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-03-B02 (0-3) - DUP
Collection Date: 1/12/2022 10:30 AM

Work Order: 22010880
Lab ID: 22010880-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.99	9.9	µg/Kg-dry	0.822	1/20/2022 15:29
cis-1,2-Dichloroethene	U		0.53	4.9	µg/Kg-dry	0.822	1/20/2022 15:29
cis-1,3-Dichloropropene	U		0.59	4.9	µg/Kg-dry	0.822	1/20/2022 15:29
Dibromochloromethane	U		0.50	4.9	µg/Kg-dry	0.822	1/20/2022 15:29
Ethylbenzene	U		0.86	4.9	µg/Kg-dry	0.822	1/20/2022 15:29
Methyl tert-butyl ether	U		0.60	4.9	µg/Kg-dry	0.822	1/20/2022 15:29
Methylene chloride	U		6.1	9.9	µg/Kg-dry	0.822	1/20/2022 15:29
Styrene	U		0.74	4.9	µg/Kg-dry	0.822	1/20/2022 15:29
Tetrachloroethene	U		0.88	4.9	µg/Kg-dry	0.822	1/20/2022 15:29
Toluene	U		0.85	4.9	µg/Kg-dry	0.822	1/20/2022 15:29
trans-1,2-Dichloroethene	U		0.49	4.9	µg/Kg-dry	0.822	1/20/2022 15:29
trans-1,3-Dichloropropene	U		0.47	4.9	µg/Kg-dry	0.822	1/20/2022 15:29
Trichloroethene	U		0.71	4.9	µg/Kg-dry	0.822	1/20/2022 15:29
Vinyl acetate	U		3.4	20	µg/Kg-dry	0.822	1/20/2022 15:29
Vinyl chloride	U		0.69	4.9	µg/Kg-dry	0.822	1/20/2022 15:29
1,3-Dichloropropene, Total	U		0.59	15	µg/Kg-dry	0.822	1/20/2022 15:29
Xylenes, Total	U		2.2	4.9	µg/Kg-dry	0.822	1/20/2022 15:29
Surr: 1,2-Dichloroethane-d4	*113*			*83-132*	*%REC*	0.822	1/20/2022 15:29
Surr: 4-Bromofluorobenzene	*99.8*			*83-111*	*%REC*	0.822	1/20/2022 15:29
Surr: Dibromofluoromethane	*103*			*77-125*	*%REC*	0.822	1/20/2022 15:29
Surr: Toluene-d8	*93.7*			*86-108*	*%REC*	0.822	1/20/2022 15:29
MOISTURE		Method: **SW3550C**					Analyst: **ALG**
Moisture	**17**		**0.10**	**0.10**	**% of sample**	1	1/18/2022 12:07
SOIL PH MEASURED IN WATER AT NOTED TEMP.		Method: **SW9045D**			Prep: SW9045D / 1/18/22		Analyst: **KNC**
pH	**8.68**		**0.10**	**0.10**	**s.u.**	1	1/19/2022 08:48
Temperature	**21.1**		**0.10**	**0.10**	**°C**	1	1/19/2022 08:48

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *24-Jan-22*

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-03-B01 (0-3)
Collection Date: 1/12/2022 10:05 AM

Work Order: 22010880
Lab ID: 22010880-22
Matrix: TCLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY BY CVAA		Method:	**SW7470A**		Prep: SW7470 / 1/21/22		Analyst: **EJC**
Mercury	U		0.0016	0.0020	mg/L	1	1/21/2022 13:24
TCLP METALS ANALYSIS BY ICP-MS		Method:	**SW6020B**		Prep: SW3015A / 1/20/22		Analyst: **STP**
Antimony	U		0.020	0.050	mg/L	1	1/20/2022 19:03
Barium	**0.48**		**0.020**	**0.050**	**mg/L**	1	1/20/2022 19:03
Beryllium	U		0.0013	0.020	mg/L	1	1/20/2022 19:03
Boron	**1.3**		**0.16**	**0.20**	**mg/L**	1	1/20/2022 19:03
Cadmium	U		0.0015	0.020	mg/L	1	1/20/2022 19:03
Chromium	U		0.012	0.050	mg/L	1	1/20/2022 19:03
Cobalt	**0.0015**	J	**0.0013**	**0.050**	**mg/L**	1	1/20/2022 19:03
Iron	U		0.50	0.80	mg/L	1	1/20/2022 19:03
Lead	U		0.0072	0.050	mg/L	1	1/20/2022 19:03
Manganese	**0.88**		**0.025**	**0.050**	**mg/L**	1	1/20/2022 19:03
Nickel	U		0.0090	0.050	mg/L	1	1/20/2022 19:03
Selenium	U		0.0048	0.050	mg/L	1	1/20/2022 19:03
Silver	U		0.0084	0.050	mg/L	1	1/20/2022 19:03
Thallium	U		0.0015	0.050	mg/L	1	1/20/2022 19:03
Zinc	**0.056**	J	**0.047**	**0.10**	**mg/L**	1	1/20/2022 19:03

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *24-Jan-22*

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-03-B02 (0-3)
Collection Date: 1/12/2022 10:25 AM

Work Order: 22010880
Lab ID: 22010880-23
Matrix: TCLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY BY CVAA		Method:	**SW7470A**		Prep: SW7470 / 1/21/22		Analyst: **EJC**
Mercury	U		0.0016	0.0020	mg/L	1	1/21/2022 13:26
TCLP METALS ANALYSIS BY ICP-MS		Method:	**SW6020B**		Prep: SW3015A / 1/20/22		Analyst: **STP**
Antimony	U		0.020	0.050	mg/L	1	1/20/2022 19:04
Barium	**0.58**		**0.020**	**0.050**	**mg/L**	1	1/20/2022 19:04
Beryllium	U		0.0013	0.020	mg/L	1	1/20/2022 19:04
Boron	**1.3**		**0.16**	**0.20**	**mg/L**	1	1/20/2022 19:04
Cadmium	**0.0029**	J	**0.0015**	**0.020**	**mg/L**	1	1/20/2022 19:04
Chromium	U		0.012	0.050	mg/L	1	1/20/2022 19:04
Cobalt	**0.080**		**0.0013**	**0.050**	**mg/L**	1	1/20/2022 19:04
Iron	**4.4**		**0.50**	**0.80**	**mg/L**	1	1/20/2022 19:04
Lead	**0.032**	J	**0.0072**	**0.050**	**mg/L**	1	1/20/2022 19:04
Manganese	**12**		**0.025**	**0.050**	**mg/L**	1	1/20/2022 19:04
Nickel	**0.070**		**0.0090**	**0.050**	**mg/L**	1	1/20/2022 19:04
Selenium	U		0.0048	0.050	mg/L	1	1/20/2022 19:04
Silver	U		0.0084	0.050	mg/L	1	1/20/2022 19:04
Thallium	U		0.0015	0.050	mg/L	1	1/20/2022 19:04
Zinc	**0.063**	J	**0.047**	**0.10**	**mg/L**	1	1/20/2022 19:04

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *24-Jan-22*

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-03-B02 (0-3) - DUP
Collection Date: 1/12/2022 10:30 AM

Work Order: 22010880
Lab ID: 22010880-24
Matrix: TCLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY BY CVAA		Method:	**SW7470A**		Prep: SW7470 / 1/21/22		Analyst: **EJC**
Mercury	U		0.0016	0.0020	mg/L	1	1/21/2022 13:27
TCLP METALS ANALYSIS BY ICP-MS		Method:	**SW6020B**		Prep: SW3015A / 1/20/22		Analyst: **STP**
Antimony	U		0.020	0.050	mg/L	1	1/20/2022 19:06
Barium	**0.74**		**0.020**	**0.050**	**mg/L**	1	1/20/2022 19:06
Beryllium	U		0.0013	0.020	mg/L	1	1/20/2022 19:06
Boron	**1.3**		**0.16**	**0.20**	**mg/L**	1	1/20/2022 19:06
Cadmium	**0.0034**	J	**0.0015**	**0.020**	**mg/L**	1	1/20/2022 19:06
Chromium	U		0.012	0.050	mg/L	1	1/20/2022 19:06
Cobalt	**0.087**		**0.0013**	**0.050**	**mg/L**	1	1/20/2022 19:06
Iron	**1.0**		**0.50**	**0.80**	**mg/L**	1	1/20/2022 19:06
Lead	**0.022**	J	**0.0072**	**0.050**	**mg/L**	1	1/20/2022 19:06
Manganese	**10**		**0.025**	**0.050**	**mg/L**	1	1/20/2022 19:06
Nickel	**0.083**		**0.0090**	**0.050**	**mg/L**	1	1/20/2022 19:06
Selenium	U		0.0048	0.050	mg/L	1	1/20/2022 19:06
Silver	U		0.0084	0.050	mg/L	1	1/20/2022 19:06
Thallium	U		0.0015	0.050	mg/L	1	1/20/2022 19:06
Zinc	**0.078**	J	**0.047**	**0.10**	**mg/L**	1	1/20/2022 19:06

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *24-Jan-22*

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: Trip Blank #1
Collection Date: 1/12/2022

Work Order: 22010880
Lab ID: 22010880-25
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS - LOW LEVEL	Method: **SW8260C**						Analyst: **MF**
1,1,1-Trichloroethane	U		0.79	5.0	µg/Kg	1	1/20/2022 12:46
1,1,2,2-Tetrachloroethane	U		0.64	5.0	µg/Kg	1	1/20/2022 12:46
1,1,2-Trichloroethane	U		0.67	5.0	µg/Kg	1	1/20/2022 12:46
1,1-Dichloroethane	U		0.62	5.0	µg/Kg	1	1/20/2022 12:46
1,1-Dichloroethene	U		0.98	5.0	µg/Kg	1	1/20/2022 12:46
1,2-Dichloroethane	U		0.56	5.0	µg/Kg	1	1/20/2022 12:46
1,2-Dichloropropane	U		0.44	5.0	µg/Kg	1	1/20/2022 12:46
2-Butanone	U		5.1	10	µg/Kg	1	1/20/2022 12:46
2-Hexanone	U		1.8	5.0	µg/Kg	1	1/20/2022 12:46
4-Methyl-2-pentanone	U		1.8	5.0	µg/Kg	1	1/20/2022 12:46
Acetone	U		4.6	10	µg/Kg	1	1/20/2022 12:46
Benzene	U		0.52	5.0	µg/Kg	1	1/20/2022 12:46
Bromodichloromethane	U		0.60	5.0	µg/Kg	1	1/20/2022 12:46
Bromoform	U		0.50	5.0	µg/Kg	1	1/20/2022 12:46
Bromomethane	U		2.5	10	µg/Kg	1	1/20/2022 12:46
Carbon disulfide	U		0.59	5.0	µg/Kg	1	1/20/2022 12:46
Carbon tetrachloride	U		1.0	5.0	µg/Kg	1	1/20/2022 12:46
Chlorobenzene	U		0.63	5.0	µg/Kg	1	1/20/2022 12:46
Chloroethane	U		1.9	5.0	µg/Kg	1	1/20/2022 12:46
Chloroform	U		0.82	5.0	µg/Kg	1	1/20/2022 12:46
Chloromethane	U		1.0	10	µg/Kg	1	1/20/2022 12:46
cis-1,2-Dichloroethene	U		0.54	5.0	µg/Kg	1	1/20/2022 12:46
cis-1,3-Dichloropropene	U		0.60	5.0	µg/Kg	1	1/20/2022 12:46
Dibromochloromethane	U		0.51	5.0	µg/Kg	1	1/20/2022 12:46
Ethylbenzene	U		0.87	5.0	µg/Kg	1	1/20/2022 12:46
Methyl tert-butyl ether	U		0.61	5.0	µg/Kg	1	1/20/2022 12:46
Methylene chloride	U		6.2	10	µg/Kg	1	1/20/2022 12:46
Styrene	U		0.75	5.0	µg/Kg	1	1/20/2022 12:46
Tetrachloroethene	U		0.89	5.0	µg/Kg	1	1/20/2022 12:46
Toluene	U		0.86	5.0	µg/Kg	1	1/20/2022 12:46
trans-1,2-Dichloroethene	U		0.50	5.0	µg/Kg	1	1/20/2022 12:46
trans-1,3-Dichloropropene	U		0.48	5.0	µg/Kg	1	1/20/2022 12:46
Trichloroethene	U		0.72	5.0	µg/Kg	1	1/20/2022 12:46
Vinyl acetate	U		3.4	20	µg/Kg	1	1/20/2022 12:46
Vinyl chloride	U		0.70	5.0	µg/Kg	1	1/20/2022 12:46
1,3-Dichloropropene, Total	U		0.60	15	µg/Kg	1	1/20/2022 12:46
Xylenes, Total	U		2.2	5.0	µg/Kg	1	1/20/2022 12:46
Surr: 1,2-Dichloroethane-d4	*109*			*83-132*	*%REC*	1	1/20/2022 12:46

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *24-Jan-22*

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: Trip Blank #1
Collection Date: 1/12/2022

Work Order: 22010880
Lab ID: 22010880-25
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 4-Bromofluorobenzene	*102*			*83-111*	*%REC*	1	1/20/2022 12:46
Surr: Dibromofluoromethane	*100*			*77-125*	*%REC*	1	1/20/2022 12:46
Surr: Toluene-d8	*95.8*			*86-108*	*%REC*	1	1/20/2022 12:46

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *24-Jan-22*

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: Trip Blank #2
Collection Date: 1/12/2022

Work Order: 22010880
Lab ID: 22010880-26
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS - LOW LEVEL	Method: **SW8260C**						Analyst: **MF**
1,1,1-Trichloroethane	U		0.79	5.0	µg/Kg	1	1/20/2022 13:04
1,1,2,2-Tetrachloroethane	U		0.64	5.0	µg/Kg	1	1/20/2022 13:04
1,1,2-Trichloroethane	U		0.67	5.0	µg/Kg	1	1/20/2022 13:04
1,1-Dichloroethane	U		0.62	5.0	µg/Kg	1	1/20/2022 13:04
1,1-Dichloroethene	U		0.98	5.0	µg/Kg	1	1/20/2022 13:04
1,2-Dichloroethane	U		0.56	5.0	µg/Kg	1	1/20/2022 13:04
1,2-Dichloropropane	U		0.44	5.0	µg/Kg	1	1/20/2022 13:04
2-Butanone	U		5.1	10	µg/Kg	1	1/20/2022 13:04
2-Hexanone	U		1.8	5.0	µg/Kg	1	1/20/2022 13:04
4-Methyl-2-pentanone	U		1.8	5.0	µg/Kg	1	1/20/2022 13:04
Acetone	U		4.6	10	µg/Kg	1	1/20/2022 13:04
Benzene	U		0.52	5.0	µg/Kg	1	1/20/2022 13:04
Bromodichloromethane	U		0.60	5.0	µg/Kg	1	1/20/2022 13:04
Bromoform	U		0.50	5.0	µg/Kg	1	1/20/2022 13:04
Bromomethane	U		2.5	10	µg/Kg	1	1/20/2022 13:04
Carbon disulfide	U		0.59	5.0	µg/Kg	1	1/20/2022 13:04
Carbon tetrachloride	U		1.0	5.0	µg/Kg	1	1/20/2022 13:04
Chlorobenzene	U		0.63	5.0	µg/Kg	1	1/20/2022 13:04
Chloroethane	U		1.9	5.0	µg/Kg	1	1/20/2022 13:04
Chloroform	U		0.82	5.0	µg/Kg	1	1/20/2022 13:04
Chloromethane	U		1.0	10	µg/Kg	1	1/20/2022 13:04
cis-1,2-Dichloroethene	U		0.54	5.0	µg/Kg	1	1/20/2022 13:04
cis-1,3-Dichloropropene	U		0.60	5.0	µg/Kg	1	1/20/2022 13:04
Dibromochloromethane	U		0.51	5.0	µg/Kg	1	1/20/2022 13:04
Ethylbenzene	U		0.87	5.0	µg/Kg	1	1/20/2022 13:04
Methyl tert-butyl ether	U		0.61	5.0	µg/Kg	1	1/20/2022 13:04
Methylene chloride	U		6.2	10	µg/Kg	1	1/20/2022 13:04
Styrene	U		0.75	5.0	µg/Kg	1	1/20/2022 13:04
Tetrachloroethene	U		0.89	5.0	µg/Kg	1	1/20/2022 13:04
Toluene	U		0.86	5.0	µg/Kg	1	1/20/2022 13:04
trans-1,2-Dichloroethene	U		0.50	5.0	µg/Kg	1	1/20/2022 13:04
trans-1,3-Dichloropropene	U		0.48	5.0	µg/Kg	1	1/20/2022 13:04
Trichloroethene	U		0.72	5.0	µg/Kg	1	1/20/2022 13:04
Vinyl acetate	U		3.4	20	µg/Kg	1	1/20/2022 13:04
Vinyl chloride	U		0.70	5.0	µg/Kg	1	1/20/2022 13:04
1,3-Dichloropropene, Total	U		0.60	15	µg/Kg	1	1/20/2022 13:04
Xylenes, Total	U		2.2	5.0	µg/Kg	1	1/20/2022 13:04
Surr: 1,2-Dichloroethane-d4	*102*			*83-132*	*%REC*	1	1/20/2022 13:04

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *24-Jan-22*

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: Trip Blank #2
Collection Date: 1/12/2022

Work Order: 22010880
Lab ID: 22010880-26
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 4-Bromofluorobenzene	*95.5*			*83-111*	*%REC*	1	1/20/2022 13:04
Surr: Dibromofluoromethane	*100*			*77-125*	*%REC*	1	1/20/2022 13:04
Surr: Toluene-d8	*93.9*			*86-108*	*%REC*	1	1/20/2022 13:04

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 24-Jan-22

Client: WSP USA Corp.

Work Order: 22010880

Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190556** Instrument ID **HG4** Method: **SW7471B**

MBLK Sample ID: **MBLK-190556-190556** Units: **mg/Kg** Analysis Date: **1/19/2022 03:50 PM**

Client ID: Run ID: **HG4_220119A** SeqNo: **8118554** Prep Date: **1/19/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.020								

LCS Sample ID: **LCS-190556-190556** Units: **mg/Kg** Analysis Date: **1/19/2022 03:52 PM**

Client ID: Run ID: **HG4_220119A** SeqNo: **8118555** Prep Date: **1/19/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1767	0.020	0.1665	0	106	80-120	0			

MS Sample ID: **22010913-06BMS** Units: **mg/Kg** Analysis Date: **1/19/2022 04:41 PM**

Client ID: Run ID: **HG4_220119A** SeqNo: **8118582** Prep Date: **1/19/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1727	0.019	0.1561	0.00456	108	75-125	0			

MSD Sample ID: **22010913-06BMSD** Units: **mg/Kg** Analysis Date: **1/19/2022 04:43 PM**

Client ID: Run ID: **HG4_220119A** SeqNo: **8118583** Prep Date: **1/19/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1749	0.019	0.1546	0.00456	110	75-125	0.1727	1.3	35	

The following samples were analyzed in this batch:

22010880-01B	22010880-02B	22010880-03B
22010880-04B	22010880-05B	22010880-06B
22010880-07B	22010880-08B	22010880-09B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190557** Instrument ID **HG4** Method: **SW7471B**

MBLK Sample ID: **MBLK-190557-190557** Units: **mg/Kg** Analysis Date: **1/19/2022 04:45 PM**
Client ID: Run ID: **HG4_220119A** SeqNo: **8118584** Prep Date: **1/19/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.020								

LCS Sample ID: **LCS-190557-190557** Units: **mg/Kg** Analysis Date: **1/19/2022 04:47 PM**
Client ID: Run ID: **HG4_220119A** SeqNo: **8118585** Prep Date: **1/19/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1775	0.020	0.1665	0	107	80-120	0			

MS Sample ID: **22011024-12AMS** Units: **mg/Kg** Analysis Date: **1/19/2022 05:26 PM**
Client ID: Run ID: **HG4_220119A** SeqNo: **8118607** Prep Date: **1/19/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1729	0.019	0.1556	0.004317	108	75-125	0			

MSD Sample ID: **22011024-12AMSD** Units: **mg/Kg** Analysis Date: **1/19/2022 05:28 PM**
Client ID: Run ID: **HG4_220119A** SeqNo: **8118608** Prep Date: **1/19/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1674	0.019	0.1556	0.004317	105	75-125	0.1729	3.2	35	

The following samples were analyzed in this batch: 22010880-10B 22010880-11B 22010880-12B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190688** Instrument ID **HG4** Method: **SW7470A**

MBLK Sample ID: **MBLK-190688-190688** Units: **mg/L** Analysis Date: **1/21/2022 12:40 PM**
Client ID: Run ID: **HG4_220121A** SeqNo: **8124558** Prep Date: **1/21/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00020								

LCS Sample ID: **LCS-190688-190688** Units: **mg/L** Analysis Date: **1/21/2022 12:41 PM**
Client ID: Run ID: **HG4_220121A** SeqNo: **8124559** Prep Date: **1/21/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.002025	0.00020	0.002	0	101	80-120	0			

MS Sample ID: **22010880-13AMS** Units: **mg/L** Analysis Date: **1/21/2022 01:01 PM**
Client ID: **3608-04-B01 (0-5)** Run ID: **HG4_220121A** SeqNo: **8124570** Prep Date: **1/21/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.02085	0.0020	0.02	0.00018	103	75-125	0			

MSD Sample ID: **22010880-13AMSD** Units: **mg/L** Analysis Date: **1/21/2022 01:03 PM**
Client ID: **3608-04-B01 (0-5)** Run ID: **HG4_220121A** SeqNo: **8124571** Prep Date: **1/21/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.0204	0.0020	0.02	0.00018	101	75-125	0.02085	2.18	20	

The following samples were analyzed in this batch:

22010880-13A	22010880-14A	22010880-15A
22010880-16A	22010880-17A	22010880-18A
22010880-19A	22010880-20A	22010880-21A
22010880-22A	22010880-23A	22010880-24A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190452** Instrument ID **ICPMS4** Method: **SW6020B**

MBLK	Sample ID: **MBLK-190452-190452**				Units: **mg/Kg**			Analysis Date: **1/18/2022 11:03 PM**		
Client ID:	Run ID: **ICPMS4_220118B**				SeqNo: **8115697**		Prep Date: **1/17/2022**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.25								
Arsenic	U	0.25								
Barium	U	0.25								
Beryllium	U	0.10								
Boron	U	1.0								
Cadmium	U	0.10								
Calcium	U	25								
Chromium	U	0.25								
Cobalt	U	0.25								
Copper	U	0.25								
Iron	U	10								
Lead	U	0.25								
Magnesium	U	10								
Manganese	U	0.25								
Nickel	U	0.25								
Potassium	U	10								
Selenium	U	0.25								
Silver	U	0.25								
Sodium	U	15								
Thallium	U	0.25								
Vanadium	U	0.25								
Zinc	U	0.50								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190452** Instrument ID **ICPMS4** Method: **SW6020B**

LCS	Sample ID: **LCS-190452-190452**				Units: **mg/Kg**			Analysis Date: **1/18/2022 11:05 PM**			
Client ID:		Run ID: **ICPMS4_220118B**			SeqNo: **8115698**			Prep Date: **1/17/2022**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	4.656	0.25	5	0	93.1	80-120	0			
Arsenic	4.478	0.25	5	0	89.6	80-120	0			
Barium	4.605	0.25	5	0	92.1	80-120	0			
Beryllium	4.644	0.10	5	0	92.9	80-120	0			
Boron	22.83	1.0	25	0	91.3	80-120	0			
Cadmium	4.607	0.10	5	0	92.1	80-120	0			
Calcium	460.2	25	500	0	92	80-120	0			
Chromium	4.567	0.25	5	0	91.3	80-120	0			
Cobalt	4.594	0.25	5	0	91.9	80-120	0			
Copper	4.647	0.25	5	0	92.9	80-120	0			
Iron	452.8	10	500	0	90.6	80-120	0			
Lead	4.568	0.25	5	0	91.4	80-120	0			
Magnesium	465.4	10	500	0	93.1	80-120	0			
Manganese	4.471	0.25	5	0	89.4	80-120	0			
Nickel	4.578	0.25	5	0	91.6	80-120	0			
Potassium	475.9	10	500	0	95.2	80-120	0			
Selenium	4.631	0.25	5	0	92.6	80-120	0			
Silver	4.346	0.25	5	0	86.9	80-120	0			
Sodium	462.1	15	500	0	92.4	80-120	0			
Thallium	4.434	0.25	5	0	88.7	80-120	0			
Vanadium	4.649	0.25	5	0	93	80-120	0			
Zinc	4.581	0.50	5	0	91.6	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190452** Instrument ID **ICPMS4** Method: **SW6020B**

MS Sample ID: **22010913-02BMS** Units: **mg/Kg** Analysis Date: **1/18/2022 11:43 PM**
Client ID: Run ID: **ICPMS4_220118B** SeqNo: **8115714** Prep Date: **1/17/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	6.309	0.36	7.153	0.07182	87.2	75-125	0			
Arsenic	7.029	0.36	7.153	0.8889	85.8	75-125	0			
Barium	11.14	0.36	7.153	4.234	96.5	75-125	0			
Beryllium	6.368	0.14	7.153	0.04173	88.4	75-125	0			
Boron	32.1	1.4	35.77	1.22	86.3	75-125	0			
Cadmium	5.906	0.14	7.153	-0.008576	82.7	75-125	0			
Calcium	23110	36	715.3	16220	964	75-125	0			SEO
Chromium	13.23	0.36	7.153	6.052	100	75-125	0			
Cobalt	6.767	0.36	7.153	0.5603	86.8	75-125	0			
Copper	8.18	0.36	7.153	2.204	83.5	75-125	0			
Iron	2678	14	715.3	2264	57.8	75-125	0			S
Lead	7.28	0.36	7.153	0.9214	88.9	75-125	0			
Magnesium	8635	14	715.3	5534	434	75-125	0			SO
Manganese	57.75	0.36	7.153	52.26	76.8	75-125	0			O
Nickel	7.802	0.36	7.153	1.585	86.9	75-125	0			
Potassium	991.1	14	715.3	129.8	120	75-125	0			
Selenium	5.959	0.36	7.153	0.07404	82.3	75-125	0			
Silver	5.622	0.36	7.153	0.003369	78.6	75-125	0			
Sodium	680.4	21	715.3	27.46	91.3	75-125	0			
Thallium	6.441	0.36	7.153	0.02182	89.7	75-125	0			
Vanadium	9.994	0.36	7.153	3.492	90.9	75-125	0			
Zinc	10.34	0.72	7.153	4.716	78.6	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190452** Instrument ID **ICPMS4** Method: **SW6020B**

MSD	Sample ID: **22010913-02BMSD**				Units: **mg/Kg**		Analysis Date: **1/18/2022 11:46 PM**			
Client ID:		Run ID: **ICPMS4_220118B**			SeqNo: **8115715**		Prep Date: **1/17/2022**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	6.411	0.36	7.205	0.07182	88	75-125	6.309	1.61	20	
Arsenic	6.958	0.36	7.205	0.8889	84.2	75-125	7.029	1.02	20	
Barium	10.83	0.36	7.205	4.234	91.5	75-125	11.14	2.85	20	
Beryllium	6.457	0.14	7.205	0.04173	89	75-125	6.368	1.39	20	
Boron	32.62	1.4	36.02	1.22	87.2	75-125	32.1	1.61	20	
Cadmium	6.083	0.14	7.205	-0.008576	84.5	75-125	5.906	2.95	20	
Calcium	22890	36	720.5	16220	926	75-125	23110	0.972	20	SEO
Chromium	11.94	0.36	7.205	6.052	81.7	75-125	13.23	10.2	20	
Cobalt	6.732	0.36	7.205	0.5603	85.7	75-125	6.767	0.524	20	
Copper	7.765	0.36	7.205	2.204	77.2	75-125	8.18	5.2	20	
Iron	2273	14	720.5	2264	1.15	75-125	2678	16.4	20	S
Lead	7.302	0.36	7.205	0.9214	88.6	75-125	7.28	0.298	20	
Magnesium	7565	14	720.5	5534	282	75-125	8635	13.2	20	SO
Manganese	42.71	0.36	7.205	52.26	-133	75-125	57.75	29.9	20	SRO
Nickel	7.621	0.36	7.205	1.585	83.8	75-125	7.802	2.34	20	
Potassium	934.5	14	720.5	129.8	112	75-125	991.1	5.88	20	
Selenium	5.988	0.36	7.205	0.07404	82.1	75-125	5.959	0.47	20	
Silver	5.764	0.36	7.205	0.003369	80	75-125	5.622	2.49	20	
Sodium	693.8	22	720.5	27.46	92.5	75-125	680.4	1.95	20	
Thallium	6.572	0.36	7.205	0.02182	90.9	75-125	6.441	2.01	20	
Vanadium	9.776	0.36	7.205	3.492	87.2	75-125	9.994	2.21	20	
Zinc	9.518	0.72	7.205	4.716	66.6	75-125	10.34	8.27	20	S

The following samples were analyzed in this batch:

22010880-01B	22010880-02B	22010880-03B
22010880-04B	22010880-05B	22010880-06B
22010880-07B	22010880-08B	22010880-09B
22010880-10B	22010880-11B	22010880-12B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190662** Instrument ID **ICPMS4** Method: **SW6020B**

MBLK Sample ID: **MBLK-190662-190662** Units: **mg/L** Analysis Date: **1/20/2022 06:31 PM**
Client ID: Run ID: **ICPMS4_220120A** SeqNo: **8122636** Prep Date: **1/20/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.0050								
Barium	U	0.0050								
Beryllium	U	0.0020								
Boron	U	0.020								
Cadmium	U	0.0020								
Chromium	U	0.0050								
Cobalt	U	0.0050								
Iron	U	0.080								
Lead	U	0.0050								
Manganese	U	0.0050								
Nickel	U	0.0050								
Selenium	U	0.0050								
Silver	U	0.0050								
Thallium	U	0.0050								
Zinc	U	0.010								

LCS Sample ID: **LCS-190662-190662** Units: **mg/L** Analysis Date: **1/20/2022 06:33 PM**
Client ID: Run ID: **ICPMS4_220120A** SeqNo: **8122637** Prep Date: **1/20/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.09651	0.0050	0.1	0	96.5	80-120	0			
Barium	0.09837	0.0050	0.1	0	98.4	80-120	0			
Beryllium	0.09499	0.0020	0.1	0	95	80-120	0			
Boron	0.5159	0.020	0.5	0	103	80-120	0			
Cadmium	0.09805	0.0020	0.1	0	98.1	80-120	0			
Chromium	0.09879	0.0050	0.1	0	98.8	80-120	0			
Cobalt	0.09702	0.0050	0.1	0	97	80-120	0			
Iron	9.638	0.080	10	0	96.4	80-120	0			
Lead	0.09649	0.0050	0.1	0	96.5	80-120	0			
Manganese	0.09414	0.0050	0.1	0	94.1	80-120	0			
Nickel	0.09848	0.0050	0.1	0	98.5	80-120	0			
Selenium	0.09261	0.0050	0.1	0	92.6	80-120	0			
Silver	0.09545	0.0050	0.1	0	95.4	80-120	0			
Thallium	0.09418	0.0050	0.1	0	94.2	80-120	0			
Zinc	0.1011	0.010	0.1	0	101	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190662** Instrument ID **ICPMS4** Method: **SW6020B**

MS Sample ID: **22010880-13AMS** Units: **mg/L** Analysis Date: **1/20/2022 06:42 PM**

Client ID: **3608-04-B01 (0-5)** Run ID: **ICPMS4_220120A** SeqNo: **8122643** Prep Date: **1/20/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.9765	0.050	1	0.000715	97.6	80-120	0			
Barium	1.632	0.050	1	0.6215	101	80-120	0			
Beryllium	0.9782	0.020	1	0.000495	97.8	80-120	0			
Boron	5.444	0.20	5	0.17	105	80-120	0			
Cadmium	0.9895	0.020	1	0.00275	98.7	80-120	0			
Chromium	1.001	0.050	1	0.007194	99.3	80-120	0			
Cobalt	1.068	0.050	1	0.0946	97.4	80-120	0			
Iron	98.54	0.80	100	0.5445	98	80-120	0			
Lead	0.9936	0.050	1	0.008734	98.5	80-120	0			
Manganese	13.8	0.050	1	13.18	62.7	80-120	0			SO
Nickel	1.068	0.050	1	0.09877	96.9	80-120	0			
Selenium	0.9746	0.050	1	0.004664	97	80-120	0			
Silver	0.952	0.050	1	0.003212	94.9	80-120	0			
Thallium	0.9716	0.050	1	0.000297	97.1	80-120	0			
Zinc	1.055	0.10	1	0.1186	93.6	80-120	0			

MSD Sample ID: **22010880-13AMSD** Units: **mg/L** Analysis Date: **1/20/2022 06:44 PM**

Client ID: **3608-04-B01 (0-5)** Run ID: **ICPMS4_220120A** SeqNo: **8122644** Prep Date: **1/20/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.9658	0.050	1	0.000715	96.5	80-120	0.9765	1.1	20	
Barium	1.606	0.050	1	0.6215	98.5	80-120	1.632	1.6	20	
Beryllium	0.9774	0.020	1	0.000495	97.7	80-120	0.9782	0.0866	20	
Boron	5.489	0.20	5	0.17	106	80-120	5.444	0.824	20	
Cadmium	0.9771	0.020	1	0.00275	97.4	80-120	0.9895	1.26	20	
Chromium	0.9927	0.050	1	0.007194	98.6	80-120	1.001	0.79	20	
Cobalt	1.052	0.050	1	0.0946	95.7	80-120	1.068	1.54	20	
Iron	96.88	0.80	100	0.5445	96.3	80-120	98.54	1.69	20	
Lead	0.9819	0.050	1	0.008734	97.3	80-120	0.9936	1.18	20	
Manganese	13.58	0.050	1	13.18	40.8	80-120	13.8	1.6	20	SO
Nickel	1.069	0.050	1	0.09877	97.1	80-120	1.068	0.126	20	
Selenium	0.9555	0.050	1	0.004664	95.1	80-120	0.9746	1.98	20	
Silver	0.9256	0.050	1	0.003212	92.2	80-120	0.952	2.81	20	
Thallium	0.959	0.050	1	0.000297	95.9	80-120	0.9716	1.3	20	
Zinc	1.025	0.10	1	0.1186	90.7	80-120	1.055	2.85	20	

The following samples were analyzed in this batch:

22010880-13A	22010880-14A	22010880-15A
22010880-16A	22010880-17A	22010880-18A
22010880-19A	22010880-20A	22010880-21A
22010880-22A	22010880-23A	22010880-24A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **190590** Instrument ID **SVMS10** Method: **SW846 8270D**

MBLK	Sample ID: **SBLKS1-190590-190590**				Units: **µg/Kg**		Analysis Date: **1/20/2022 05:07 PM**			
Client ID:	Run ID: **SVMS10_220120A**				SeqNo: **8123940**		Prep Date: **1/19/2022**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	U	33								
1,2-Dichlorobenzene	U	33								
1,3-Dichlorobenzene	U	33								
1,4-Dichlorobenzene	U	33								
2,2`-Oxybis(1-chloropropane)	U	33								
2,4,5-Trichlorophenol	U	33								
2,4,6-Trichlorophenol	U	33								
2,4-Dichlorophenol	U	33								
2,4-Dimethylphenol	U	33								
2,4-Dinitrophenol	U	670								
2,4-Dinitrotoluene	U	33								
2,6-Dinitrotoluene	U	33								
2-Chloronaphthalene	U	6.7								
2-Chlorophenol	U	33								
2-Methylnaphthalene	U	6.7								
2-Methylphenol	U	33								
2-Nitroaniline	U	33								
2-Nitrophenol	U	33								
3&4-Methylphenol	U	33								
3,3´-Dichlorobenzidine	U	170								
3-Nitroaniline	U	33								
4,6-Dinitro-2-methylphenol	U	33								
4-Bromophenyl phenyl ether	U	33								
4-Chloro-3-methylphenol	U	33								
4-Chloroaniline	U	67								
4-Chlorophenyl phenyl ether	U	33								
4-Nitroaniline	U	170								
4-Nitrophenol	U	170								
Acenaphthene	U	6.7								
Acenaphthylene	U	6.7								
Anthracene	U	6.7								
Benzo(a)anthracene	U	6.7								
Benzo(a)pyrene	U	6.7								
Benzo(b)fluoranthene	U	6.7								
Benzo(g,h,i)perylene	U	6.7								
Benzo(k)fluoranthene	U	6.7								
Bis(2-chloroethoxy)methane	U	33								
Bis(2-chloroethyl)ether	U	33								
Bis(2-ethylhexyl)phthalate	U	33								
Butyl benzyl phthalate	U	67								
Carbazole	U	33								
Chrysene	U	6.7								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **190590** Instrument ID **SVMS10** Method: **SW846 8270D**

Dibenzo(a,h)anthracene	U	6.7					
Dibenzofuran	U	33					
Diethyl phthalate	U	33					
Dimethyl phthalate	U	33					
Di-n-butyl phthalate	U	33					
Di-n-octyl phthalate	U	33					
Fluoranthene	U	6.7					
Fluorene	U	6.7					
Hexachlorobenzene	U	33					
Hexachlorobutadiene	U	33					
Hexachlorocyclopentadiene	U	33					
Hexachloroethane	U	33					
Indeno(1,2,3-cd)pyrene	U	6.7					
Isophorone	U	170					
Naphthalene	U	6.7					
Nitrobenzene	U	170					
N-Nitrosodi-n-propylamine	U	33					
N-Nitrosodiphenylamine	U	33					
Pentachlorophenol	U	33					
Phenanthrene	U	6.7					
Phenol	U	33					
Pyrene	U	6.7					
Surr: 2,4,6-Tribromophenol	*2260*	0	*3333*	0	*67.8*	*38-92*	0
Surr: 2-Fluorobiphenyl	*2725*	0	*3333*	0	*81.7*	*44-107*	0
Surr: 2-Fluorophenol	*2512*	0	*3333*	0	*75.4*	*37-109*	0
Surr: 4-Terphenyl-d14	*2894*	0	*3333*	0	*86.8*	*52-123*	0
Surr: Nitrobenzene-d5	*2418*	0	*3333*	0	*72.5*	*41-94*	0
Surr: Phenol-d6	*2689*	0	*3333*	0	*80.7*	*28-111*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190590** Instrument ID **SVMS10** Method: **SW846 8270D**

LCS	Sample ID: **SLCSS1-190590-190590**				Units: **µg/Kg**		Analysis Date: **1/20/2022 05:34 PM**			
Client ID:		Run ID: **SVMS10_220120A**			SeqNo: **8123941**		Prep Date: **1/19/2022**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1115	33	1333	0	83.7	40-93	0			
1,2-Dichlorobenzene	1063	33	1333	0	79.7	42-94	0			
1,3-Dichlorobenzene	1044	33	1333	0	78.3	41-94	0			
1,4-Dichlorobenzene	1065	33	1333	0	79.9	42-94	0			
2,2`-Oxybis(1-chloropropane)	903.3	33	1333	0	67.8	47-107	0			
2,4,5-Trichlorophenol	1113	33	1333	0	83.5	52-111	0			
2,4,6-Trichlorophenol	1091	33	1333	0	81.9	46-105	0			
2,4-Dichlorophenol	1159	33	1333	0	86.9	47-96	0			
2,4-Dimethylphenol	1121	33	1333	0	84.1	49-97	0			
2,4-Dinitrophenol	936.7	670	1333	0	70.3	10-106	0			
2,4-Dinitrotoluene	1161	33	1333	0	87.1	58-110	0			
2,6-Dinitrotoluene	1129	33	1333	0	84.7	59-108	0			
2-Chloronaphthalene	1139	6.7	1333	0	85.4	56-104	0			
2-Chlorophenol	1189	33	1333	0	89.2	50-104	0			
2-Methylnaphthalene	1111	6.7	1333	0	83.4	54-96	0			
2-Methylphenol	1145	33	1333	0	85.9	49-105	0			
2-Nitroaniline	989.3	33	1333	0	74.2	54-107	0			
2-Nitrophenol	1133	33	1333	0	85	51-94	0			
3&4-Methylphenol	1151	33	1333	0	86.3	48-105	0			
3,3´-Dichlorobenzidine	862.7	170	1333	0	64.7	39-99	0			
3-Nitroaniline	958.7	33	1333	0	71.9	17-92	0			
4,6-Dinitro-2-methylphenol	1063	33	1333	0	79.8	32-103	0			
4-Bromophenyl phenyl ether	1163	33	1333	0	87.3	60-106	0			
4-Chloro-3-methylphenol	1165	33	1333	0	87.4	51-101	0			
4-Chloroaniline	738.7	67	1333	0	55.4	27-110	0			
4-Chlorophenyl phenyl ether	1105	33	1333	0	82.9	58-106	0			
4-Nitroaniline	1043	170	1333	0	78.2	21-100	0			
4-Nitrophenol	912.7	170	1333	0	68.5	29-120	0			
Acenaphthene	1117	6.7	1333	0	83.8	55-101	0			
Acenaphthylene	1133	6.7	1333	0	85	59-106	0			
Anthracene	1201	6.7	1333	0	90.1	67-105	0			
Benzo(a)anthracene	1149	6.7	1333	0	86.2	68-105	0			
Benzo(a)pyrene	1219	6.7	1333	0	91.5	68-110	0			
Benzo(b)fluoranthene	1201	6.7	1333	0	90.1	65-110	0			
Benzo(g,h,i)perylene	1117	6.7	1333	0	83.8	60-120	0			
Benzo(k)fluoranthene	1179	6.7	1333	0	88.4	66-113	0			
Bis(2-chloroethoxy)methane	1068	33	1333	0	80.1	53-96	0			
Bis(2-chloroethyl)ether	1077	33	1333	0	80.8	47-108	0			
Bis(2-ethylhexyl)phthalate	1145	33	1333	0	85.9	59-117	0			
Butyl benzyl phthalate	1035	67	1333	0	77.6	59-106	0			
Carbazole	1143	33	1333	0	85.7	67-108	0			
Chrysene	1177	6.7	1333	0	88.3	68-108	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **190590** Instrument ID **SVMS10** Method: **SW846 8270D**

Dibenzo(a,h)anthracene	1114	6.7	1333	0	83.6	62-119	0
Dibenzofuran	1138	33	1333	0	85.4	60-104	0
Diethyl phthalate	1114	33	1333	0	83.6	62-111	0
Dimethyl phthalate	1205	33	1333	0	90.4	62-106	0
Di-n-butyl phthalate	1205	33	1333	0	90.4	59-105	0
Di-n-octyl phthalate	1258	33	1333	0	94.4	51-123	0
Fluoranthene	1196	6.7	1333	0	89.7	67-106	0
Fluorene	1115	6.7	1333	0	83.6	59-107	0
Hexachlorobenzene	1122	33	1333	0	84.2	62-103	0
Hexachlorobutadiene	1077	33	1333	0	80.8	51-94	0
Hexachlorocyclopentadiene	1289	33	1333	0	96.7	25-120	0
Hexachloroethane	1185	33	1333	0	88.9	55-93	0
Indeno(1,2,3-cd)pyrene	1224	6.7	1333	0	91.8	56-120	0
Isophorone	1024	170	1333	0	76.8	52-99	0
Naphthalene	1094	6.7	1333	0	82.1	46-98	0
Nitrobenzene	1040	170	1333	0	78	53-95	0
N-Nitrosodi-n-propylamine	1048	33	1333	0	78.6	50-104	0
N-Nitrosodiphenylamine	1136	33	1333	0	85.2	63-107	0
Pentachlorophenol	1134	33	1333	0	85.1	34-106	0
Phenanthrene	1181	6.7	1333	0	88.6	66-101	0
Phenol	1087	33	1333	0	81.5	44-109	0
Pyrene	1135	6.7	1333	0	85.2	60-119	0
Surr: 2,4,6-Tribromophenol	*2729*	0	*3333*	0	*81.9*	*38-92*	0
Surr: 2-Fluorobiphenyl	*2664*	0	*3333*	0	*79.9*	*44-107*	0
Surr: 2-Fluorophenol	*2538*	0	*3333*	0	*76.1*	*37-109*	0
Surr: 4-Terphenyl-d14	*2768*	0	*3333*	0	*83*	*52-123*	0
Surr: Nitrobenzene-d5	*2423*	0	*3333*	0	*72.7*	*41-94*	0
Surr: Phenol-d6	*2642*	0	*3333*	0	*79.3*	*28-111*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190590** Instrument ID **SVMS10** Method: **SW846 8270D**

MS Sample ID: **22010570-07A MS** Units: **µg/Kg** Analysis Date: **1/21/2022 12:49 AM**
Client ID: Run ID: **SVMS10_220120A** SeqNo: **8123942** Prep Date: **1/19/2022** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1179	160	1317	0	89.5	40-93	0			
1,2-Dichlorobenzene	1080	160	1317	0	82	42-94	0			
1,3-Dichlorobenzene	1050	160	1317	0	79.8	41-94	0			
1,4-Dichlorobenzene	1027	160	1317	0	78	42-94	0			
2,2`-Oxybis(1-chloropropane)	1077	160	1317	0	81.8	47-107	0			
2,4,5-Trichlorophenol	1057	160	1317	0	80.3	52-111	0			
2,4,6-Trichlorophenol	1093	160	1317	0	83	46-105	0			
2,4-Dichlorophenol	1143	160	1317	0	86.8	47-96	0			
2,4-Dimethylphenol	862.8	160	1317	0	65.5	49-97	0			
2,4-Dinitrophenol	U	3,300	1317	0	0	10-106	0			S
2,4-Dinitrotoluene	931.9	160	1317	0	70.8	58-110	0			
2,6-Dinitrotoluene	1014	160	1317	0	77	59-108	0			
2-Chloronaphthalene	1031	33	1317	0	78.3	56-104	0			
2-Chlorophenol	1192	160	1317	0	90.5	50-104	0			
2-Methylnaphthalene	1070	33	1317	0	81.3	54-96	0			
2-Methylphenol	1067	160	1317	0	81	49-105	0			
2-Nitroaniline	1008	160	1317	0	76.5	54-107	0			
2-Nitrophenol	1209	160	1317	0	91.8	51-94	0			
3&4-Methylphenol	1087	160	1317	0	82.5	48-105	0			
3,3´-Dichlorobenzidine	549.9	820	1317	0	41.8	39-99	0			J
3-Nitroaniline	948.4	160	1317	0	72	17-92	0			
4,6-Dinitro-2-methylphenol	335.9	160	1317	0	25.5	32-103	0			S
4-Bromophenyl phenyl ether	1027	160	1317	0	78	60-106	0			
4-Chloro-3-methylphenol	1057	160	1317	0	80.3	51-101	0			
4-Chloroaniline	931.9	330	1317	0	70.8	27-110	0			
4-Chlorophenyl phenyl ether	915.4	160	1317	0	69.5	58-106	0			
4-Nitroaniline	948.4	820	1317	0	72	21-100	0			
4-Nitrophenol	688.2	820	1317	0	52.3	29-120	0			J
Acenaphthene	987.9	33	1317	0	75	55-101	0			
Acenaphthylene	1057	33	1317	43.07	77	59-106	0			
Anthracene	951.7	33	1317	26.51	70.3	67-105	0			
Benzo(a)anthracene	885.8	33	1317	106	59.2	68-105	0			S
Benzo(a)pyrene	974.7	33	1317	149.1	62.7	68-110	0			S
Benzo(b)fluoranthene	968.1	33	1317	198.8	58.4	65-110	0			S
Benzo(g,h,i)perylene	1034	33	1317	155.7	66.7	60-120	0			
Benzo(k)fluoranthene	892.4	33	1317	76.21	62	66-113	0			S
Bis(2-chloroethoxy)methane	1182	160	1317	0	89.8	53-96	0			
Bis(2-chloroethyl)ether	1097	160	1317	0	83.3	47-108	0			
Bis(2-ethylhexyl)phthalate	899	160	1317	0	68.3	59-117	0			
Butyl benzyl phthalate	889.1	330	1317	0	67.5	59-106	0			
Carbazole	1034	160	1317	0	78.5	67-108	0			
Chrysene	931.9	33	1317	109.3	62.5	68-108	0			S

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **190590** Instrument ID **SVMS10** Method: **SW846 8270D**

Dibenzo(a,h)anthracene	918.7	33	1317	49.7	66	62-119	0	
Dibenzofuran	987.9	160	1317	0	75	60-104	0	
Diethyl phthalate	1031	160	1317	0	78.3	62-111	0	
Dimethyl phthalate	1162	160	1317	0	88.3	62-106	0	
Di-n-butyl phthalate	931.9	160	1317	0	70.8	59-105	0	
Di-n-octyl phthalate	1004	160	1317	0	76.3	51-123	0	
Fluoranthene	1011	33	1317	175.6	63.4	67-106	0	S
Fluorene	968.1	33	1317	6.627	73	59-107	0	
Hexachlorobenzene	994.5	160	1317	0	75.5	62-103	0	
Hexachlorobutadiene	948.4	160	1317	0	72	51-94	0	
Hexachlorocyclopentadiene	645.4	160	1317	0	49	25-120	0	
Hexachloroethane	1149	160	1317	0	87.3	55-93	0	
Indeno(1,2,3-cd)pyrene	1143	33	1317	178.9	73.2	56-120	0	
Isophorone	1083	820	1317	0	82.3	52-99	0	
Naphthalene	1100	33	1317	0	83.5	46-98	0	
Nitrobenzene	1153	820	1317	0	87.5	53-95	0	
N-Nitrosodi-n-propylamine	1176	160	1317	0	89.3	50-104	0	
N-Nitrosodiphenylamine	997.8	160	1317	0	75.8	63-107	0	
Pentachlorophenol	358.9	160	1317	0	27.3	34-106	0	S
Phenanthrene	991.2	33	1317	59.64	70.7	66-101	0	
Phenol	1129	160	1317	0	85.8	44-109	0	
Pyrene	1031	33	1317	172.3	65.2	60-119	0	
Surr: 2,4,6-Tribromophenol	*2536*	0	*3293*	0	*77*	*38-92*	0	
Surr: 2-Fluorobiphenyl	*2447*	0	*3293*	0	*74.3*	*44-107*	0	
Surr: 2-Fluorophenol	*2694*	0	*3293*	0	*81.8*	*37-109*	0	
Surr: 4-Terphenyl-d14	*2424*	0	*3293*	0	*73.6*	*52-123*	0	
Surr: Nitrobenzene-d5	*2608*	0	*3293*	0	*79.2*	*41-94*	0	
Surr: Phenol-d6	*2888*	0	*3293*	0	*87.7*	*28-111*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190590** Instrument ID **SVMS10** Method: **SW846 8270D**

MSD	Sample ID: **22010570-07A MSD**				Units: **µg/Kg**			Analysis Date: **1/21/2022 01:16 AM**			
Client ID:		Run ID: **SVMS10_220120A**			SeqNo: **8123943**			Prep Date: **1/19/2022**		DF: **5**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1128	160	1323	0	85.3	40-93	1179	4.38	30	
1,2-Dichlorobenzene	1095	160	1323	0	82.8	42-94	1080	1.39	30	
1,3-Dichlorobenzene	1065	160	1323	0	80.5	41-94	1050	1.42	30	
1,4-Dichlorobenzene	1049	160	1323	0	79.3	42-94	1027	2.07	30	
2,2`-Oxybis(1-chloropropane)	1112	160	1323	0	84	47-107	1077	3.2	30	
2,4,5-Trichlorophenol	1132	160	1323	0	85.5	52-111	1057	6.82	30	
2,4,6-Trichlorophenol	1165	160	1323	0	88	46-105	1093	6.33	30	
2,4-Dichlorophenol	1221	160	1323	0	92.3	47-96	1143	6.63	30	
2,4-Dimethylphenol	966.2	160	1323	0	73	49-97	862.8	11.3	30	
2,4-Dinitrophenol	U	3,300	1323	0	0	10-106	0	0	30	S
2,4-Dinitrotoluene	1056	160	1323	0	79.8	58-110	931.9	12.4	30	
2,6-Dinitrotoluene	1079	160	1323	0	81.5	59-108	1014	6.16	30	
2-Chloronaphthalene	1052	33	1323	0	79.5	56-104	1031	2.07	30	
2-Chlorophenol	1271	160	1323	0	96	50-104	1192	6.38	30	
2-Methylnaphthalene	1118	33	1323	0	84.5	54-96	1070	4.4	30	
2-Methylphenol	1191	160	1323	0	90	49-105	1067	11	30	
2-Nitroaniline	1069	160	1323	0	80.8	54-107	1008	5.89	30	
2-Nitrophenol	1208	160	1323	0	91.3	51-94	1209	0.0646	30	
3&4-Methylphenol	1214	160	1323	0	91.8	48-105	1087	11.1	30	
3,3´-Dichlorobenzidine	625.4	830	1323	0	47.3	39-99	549.9	0	30	J
3-Nitroaniline	1052	160	1323	0	79.5	17-92	948.4	10.4	30	
4,6-Dinitro-2-methylphenol	317.6	160	1323	0	24	32-103	335.9	5.58	30	S
4-Bromophenyl phenyl ether	1095	160	1323	0	82.8	60-106	1027	6.39	30	
4-Chloro-3-methylphenol	1145	160	1323	0	86.5	51-101	1057	7.98	30	
4-Chloroaniline	996	330	1323	0	75.3	27-110	931.9	6.65	30	
4-Chlorophenyl phenyl ether	1032	160	1323	0	78	58-106	915.4	12	30	
4-Nitroaniline	1089	830	1323	0	82.3	21-100	948.4	13.8	30	
4-Nitrophenol	810.7	830	1323	0	61.3	29-120	688.2	0	30	J
Acenaphthene	1065	33	1323	0	80.5	55-101	987.9	7.56	30	
Acenaphthylene	1165	33	1323	43.07	84.8	59-106	1057	9.69	30	
Anthracene	1082	33	1323	26.51	79.8	67-105	951.7	12.8	30	
Benzo(a)anthracene	1079	33	1323	106	73.5	68-105	885.8	19.6	30	
Benzo(a)pyrene	1175	33	1323	149.1	77.5	68-110	974.7	18.6	30	
Benzo(b)fluoranthene	1257	33	1323	198.8	80	65-110	968.1	26	30	
Benzo(g,h,i)perylene	1065	33	1323	155.7	68.8	60-120	1034	3	30	
Benzo(k)fluoranthene	1075	33	1323	76.21	75.5	66-113	892.4	18.6	30	
Bis(2-chloroethoxy)methane	1188	160	1323	0	89.8	53-96	1182	0.482	30	
Bis(2-chloroethyl)ether	1125	160	1323	0	85	47-108	1097	2.56	30	
Bis(2-ethylhexyl)phthalate	1042	160	1323	0	78.8	59-117	899	14.8	30	
Butyl benzyl phthalate	1099	330	1323	0	83	59-106	889.1	21.1	30	
Carbazole	1201	160	1323	0	90.8	67-108	1034	15	30	
Chrysene	1112	33	1323	109.3	75.8	68-108	931.9	17.6	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **190590** Instrument ID **SVMS10** Method: **SW846 8270D**

Dibenzo(a,h)anthracene	916.6	33	1323	49.7	65.5	62-119	918.7	0.237	30	
Dibenzofuran	1092	160	1323	0	82.5	60-104	987.9	10	30	
Diethyl phthalate	1148	160	1323	0	86.8	62-111	1031	10.8	30	
Dimethyl phthalate	1238	160	1323	0	93.5	62-106	1162	6.26	30	
Di-n-butyl phthalate	1059	160	1323	0	80	59-105	931.9	12.8	30	
Di-n-octyl phthalate	1327	160	1323	0	100	51-123	1004	27.7	30	
Fluoranthene	1426	33	1323	175.6	94.5	67-106	1011	34.1	30	R
Fluorene	1079	33	1323	6.627	81	59-107	968.1	10.8	30	
Hexachlorobenzene	1079	160	1323	0	81.5	62-103	994.5	8.12	30	
Hexachlorobutadiene	1022	160	1323	0	77.3	51-94	948.4	7.52	30	
Hexachlorocyclopentadiene	595.6	160	1323	0	45	25-120	645.4	8.03	30	
Hexachloroethane	1191	160	1323	0	90	55-93	1149	3.58	30	
Indeno(1,2,3-cd)pyrene	1191	33	1323	178.9	76.5	56-120	1143	4.16	30	
Isophorone	1132	830	1323	0	85.5	52-99	1083	4.36	30	
Naphthalene	1142	33	1323	0	86.3	46-98	1100	3.72	30	
Nitrobenzene	1148	830	1323	0	86.8	53-95	1153	0.379	30	
N-Nitrosodi-n-propylamine	1264	160	1323	0	95.5	50-104	1176	7.25	30	
N-Nitrosodiphenylamine	1059	160	1323	0	80	63-107	997.8	5.94	30	
Pentachlorophenol	423.5	160	1323	0	32	34-106	358.9	16.5	30	S
Phenanthrene	1221	33	1323	59.64	87.8	66-101	991.2	20.8	30	
Phenol	1247	160	1323	0	94.3	44-109	1129	9.93	30	
Pyrene	1274	33	1323	172.3	83.3	60-119	1031	21.1	30	
Surr: 2,4,6-Tribromophenol	*2789*	0	*3309*	0	*84.3*	*38-92*	2536	*9.53*	*40*	
Surr: 2-Fluorobiphenyl	*2597*	0	*3309*	0	*78.5*	*44-107*	2447	*5.98*	*40*	
Surr: 2-Fluorophenol	*2882*	0	*3309*	0	*87.1*	*37-109*	2694	*6.76*	*40*	
Surr: 4-Terphenyl-d14	*2640*	0	*3309*	0	*79.8*	*52-123*	2424	*8.56*	*40*	
Surr: Nitrobenzene-d5	*2561*	0	*3309*	0	*77.4*	*41-94*	2608	*1.82*	*40*	
Surr: Phenol-d6	*3147*	0	*3309*	0	*95.1*	*28-111*	2888	*8.58*	*40*	

The following samples were analyzed in this batch:

22010880-01B	22010880-02B	22010880-03B
22010880-04B	22010880-05B	22010880-06B
22010880-07B	22010880-08B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **190670** Instrument ID **SVMS9** Method: **SW846 8270D**

MBLK	Sample ID: **SBLKS1-190670-190670**				Units: **µg/Kg**		Analysis Date: **1/21/2022 02:41 PM**			
Client ID:		Run ID: **SVMS9_220121A**			SeqNo: **8127114**		Prep Date: **1/21/2022**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	U	33	0	0	0	0-0	0			
1,2-Dichlorobenzene	U	33	0	0	0	0-0	0			
1,3-Dichlorobenzene	U	33	0	0	0	0-0	0			
1,4-Dichlorobenzene	U	33	0	0	0	0-0	0			
2,2`-Oxybis(1-chloropropane)	U	33	0	0	0		0			
2,4,5-Trichlorophenol	U	33	0	0	0	0-0	0			
2,4,6-Trichlorophenol	U	33	0	0	0	0-0	0			
2,4-Dichlorophenol	U	33	0	0	0	0-0	0			
2,4-Dimethylphenol	U	33	0	0	0	0-0	0			
2,4-Dinitrophenol	U	670	0	0	0	0-0	0			
2,4-Dinitrotoluene	U	33	0	0	0	0-0	0			
2,6-Dinitrotoluene	U	33	0	0	0	0-0	0			
2-Chloronaphthalene	U	6.7	0	0	0	0-0	0			
2-Chlorophenol	U	33	0	0	0	0-0	0			
2-Methylnaphthalene	U	6.7	0	0	0	0-0	0			
2-Methylphenol	U	33	0	0	0	0-0	0			
2-Nitroaniline	U	33	0	0	0	0-0	0			
2-Nitrophenol	U	33	0	0	0	0-0	0			
3&4-Methylphenol	U	33	0	0	0		0			
3,3´-Dichlorobenzidine	U	170	0	0	0	0-0	0			
3-Nitroaniline	U	33	0	0	0	0-0	0			
4,6-Dinitro-2-methylphenol	U	33	0	0	0	0-0	0			
4-Bromophenyl phenyl ether	U	33	0	0	0	0-0	0			
4-Chloro-3-methylphenol	U	33	0	0	0	0-0	0			
4-Chloroaniline	U	67	0	0	0	0-0	0			
4-Chlorophenyl phenyl ether	U	33	0	0	0	0-0	0			
4-Nitroaniline	U	170	0	0	0	0-0	0			
4-Nitrophenol	U	170	0	0	0	0-0	0			
Acenaphthene	U	6.7	0	0	0	0-0	0			
Acenaphthylene	U	6.7	0	0	0	0-0	0			
Anthracene	U	6.7	0	0	0	0-0	0			
Benzo(a)anthracene	U	6.7	0	0	0	0-0	0			
Benzo(a)pyrene	U	6.7	0	0	0	0-0	0			
Benzo(b)fluoranthene	U	6.7	0	0	0	0-0	0			
Benzo(g,h,i)perylene	U	6.7	0	0	0	0-0	0			
Benzo(k)fluoranthene	U	6.7	0	0	0	0-0	0			
Bis(2-chloroethoxy)methane	U	33	0	0	0	0-0	0			
Bis(2-chloroethyl)ether	U	33	0	0	0	0-0	0			
Bis(2-ethylhexyl)phthalate	U	33	0	0	0	0-0	0			
Butyl benzyl phthalate	U	67	0	0	0	0-0	0			
Carbazole	U	33	0	0	0	0-0	0			
Chrysene	U	6.7	0	0	0	0-0	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **190670** Instrument ID **SVMS9** Method: **SW846 8270D**

Dibenzo(a,h)anthracene	U	6.7	0	0	0	0-0	0
Dibenzofuran	U	33	0	0	0	0-0	0
Diethyl phthalate	U	33	0	0	0	0-0	0
Dimethyl phthalate	U	33	0	0	0	0-0	0
Di-n-butyl phthalate	U	33	0	0	0	0-0	0
Di-n-octyl phthalate	U	33	0	0	0	0-0	0
Fluoranthene	U	6.7	0	0	0	0-0	0
Fluorene	U	6.7	0	0	0	0-0	0
Hexachlorobenzene	U	33	0	0	0	0-0	0
Hexachlorobutadiene	U	33	0	0	0	0-0	0
Hexachlorocyclopentadiene	U	33	0	0	0	0-0	0
Hexachloroethane	U	33	0	0	0	0-0	0
Indeno(1,2,3-cd)pyrene	U	6.7	0	0	0	0-0	0
Isophorone	U	170	0	0	0	0-0	0
Naphthalene	U	6.7	0	0	0	0-0	0
Nitrobenzene	U	170	0	0	0	0-0	0
N-Nitrosodi-n-propylamine	U	33	0	0	0	0-0	0
N-Nitrosodiphenylamine	U	33	0	0	0	0-0	0
Pentachlorophenol	U	33	0	0	0	0-0	0
Phenanthrene	U	6.7	0	0	0	0-0	0
Phenol	U	33	0	0	0	0-0	0
Pyrene	U	6.7	0	0	0	0-0	0
Surr: 2,4,6-Tribromophenol	*2551*	0	*3333*	0	*76.5*	*38-92*	0
Surr: 2-Fluorobiphenyl	*2549*	0	*3333*	0	*76.5*	*44-107*	0
Surr: 2-Fluorophenol	*2538*	0	*3333*	0	*76.1*	*37-109*	0
Surr: 4-Terphenyl-d14	*2851*	0	*3333*	0	*85.5*	*52-123*	0
Surr: Nitrobenzene-d5	*2540*	0	*3333*	0	*76.2*	*41-94*	0
Surr: Phenol-d6	*2639*	0	*3333*	0	*79.2*	*28-111*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190670** Instrument ID **SVMS9** Method: **SW846 8270D**

LCS	Sample ID: **SLCSS1-190670-190670**				Units: **µg/Kg**		Analysis Date: **1/21/2022 03:05 PM**			
Client ID:	Run ID: **SVMS9_220121A**				SeqNo: **8127115**		Prep Date: **1/21/2022**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1117	33	1333	0	83.8	40-93	0			
1,2-Dichlorobenzene	1117	33	1333	0	83.8	42-94	0			
1,3-Dichlorobenzene	1096	33	1333	0	82.2	41-94	0			
1,4-Dichlorobenzene	1073	33	1333	0	80.5	42-94	0			
2,2`-Oxybis(1-chloropropane)	1074	33	1333	0	80.6	47-107	0			
2,4,5-Trichlorophenol	1064	33	1333	0	79.8	52-111	0			
2,4,6-Trichlorophenol	1098	33	1333	0	82.4	46-105	0			
2,4-Dichlorophenol	1113	33	1333	0	83.5	47-96	0			
2,4-Dimethylphenol	1094	33	1333	0	82.1	49-97	0			
2,4-Dinitrophenol	797.3	670	1333	0	59.8	10-106	0			
2,4-Dinitrotoluene	1226	33	1333	0	92	58-110	0			
2,6-Dinitrotoluene	1201	33	1333	0	90.1	59-108	0			
2-Chloronaphthalene	1165	6.7	1333	0	87.4	56-104	0			
2-Chlorophenol	1156	33	1333	0	86.7	50-104	0			
2-Methylnaphthalene	1167	6.7	1333	0	87.5	54-96	0			
2-Methylphenol	1123	33	1333	0	84.3	49-105	0			
2-Nitroaniline	1163	33	1333	0	87.3	54-107	0			
2-Nitrophenol	1137	33	1333	0	85.3	51-94	0			
3&4-Methylphenol	1121	33	1333	0	84.1	48-105	0			
3,3´-Dichlorobenzidine	906.7	170	1333	0	68	39-99	0			
3-Nitroaniline	1121	33	1333	0	84.1	17-92	0			
4,6-Dinitro-2-methylphenol	1107	33	1333	0	83.1	32-103	0			
4-Bromophenyl phenyl ether	1029	33	1333	0	77.2	60-106	0			
4-Chloro-3-methylphenol	1102	33	1333	0	82.7	51-101	0			
4-Chloroaniline	612.7	67	1333	0	46	27-110	0			
4-Chlorophenyl phenyl ether	1127	33	1333	0	84.6	58-106	0			
4-Nitroaniline	1223	170	1333	0	91.8	21-100	0			
4-Nitrophenol	1045	170	1333	0	78.4	29-120	0			
Acenaphthene	1119	6.7	1333	0	83.9	55-101	0			
Acenaphthylene	1157	6.7	1333	0	86.8	59-106	0			
Anthracene	1250	6.7	1333	0	93.8	67-105	0			
Benzo(a)anthracene	1193	6.7	1333	0	89.5	68-105	0			
Benzo(a)pyrene	1269	6.7	1333	0	95.2	68-110	0			
Benzo(b)fluoranthene	1244	6.7	1333	0	93.3	65-110	0			
Benzo(g,h,i)perylene	1131	6.7	1333	0	84.8	60-120	0			
Benzo(k)fluoranthene	1287	6.7	1333	0	96.6	66-113	0			
Bis(2-chloroethoxy)methane	1109	33	1333	0	83.2	53-96	0			
Bis(2-chloroethyl)ether	1157	33	1333	0	86.8	47-108	0			
Bis(2-ethylhexyl)phthalate	1255	33	1333	0	94.1	59-117	0			
Butyl benzyl phthalate	1176	67	1333	0	88.2	59-106	0			
Carbazole	1263	33	1333	0	94.7	67-108	0			
Chrysene	1303	6.7	1333	0	97.8	68-108	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **190670** Instrument ID **SVMS9** Method: **SW846 8270D**

Dibenzo(a,h)anthracene	1119	6.7	1333	0	83.9	62-119	0
Dibenzofuran	1187	33	1333	0	89	60-104	0
Diethyl phthalate	1153	33	1333	0	86.5	62-111	0
Dimethyl phthalate	1183	33	1333	0	88.7	62-106	0
Di-n-butyl phthalate	1181	33	1333	0	88.6	59-105	0
Di-n-octyl phthalate	1293	33	1333	0	97	51-123	0
Fluoranthene	1255	6.7	1333	0	94.2	67-106	0
Fluorene	1188	6.7	1333	0	89.1	59-107	0
Hexachlorobenzene	1071	33	1333	0	80.3	62-103	0
Hexachlorobutadiene	1004	33	1333	0	75.3	51-94	0
Hexachlorocyclopentadiene	922.7	33	1333	0	69.2	25-120	0
Hexachloroethane	1019	33	1333	0	76.5	55-93	0
Indeno(1,2,3-cd)pyrene	1178	6.7	1333	0	88.4	56-120	0
Isophorone	1147	170	1333	0	86.1	52-99	0
Naphthalene	1121	6.7	1333	0	84.1	46-98	0
Nitrobenzene	1144	170	1333	0	85.8	53-95	0
N-Nitrosodi-n-propylamine	1124	33	1333	0	84.3	50-104	0
N-Nitrosodiphenylamine	1209	33	1333	0	90.7	63-107	0
Pentachlorophenol	862	33	1333	0	64.7	34-106	0
Phenanthrene	1237	6.7	1333	0	92.8	66-101	0
Phenol	1145	33	1333	0	85.9	44-109	0
Pyrene	1309	6.7	1333	0	98.2	60-119	0
Surr: 2,4,6-Tribromophenol	*2971*	0	*3333*	0	*89.1*	*38-92*	0
Surr: 2-Fluorobiphenyl	*2619*	0	*3333*	0	*78.6*	*44-107*	0
Surr: 2-Fluorophenol	*2721*	0	*3333*	0	*81.6*	*37-109*	0
Surr: 4-Terphenyl-d14	*2865*	0	*3333*	0	*85.9*	*52-123*	0
Surr: Nitrobenzene-d5	*2727*	0	*3333*	0	*81.8*	*41-94*	0
Surr: Phenol-d6	*2773*	0	*3333*	0	*83.2*	*28-111*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **190670** Instrument ID **SVMS9** Method: **SW846 8270D**

MS Sample ID: **22011041-01B MS** Units: **µg/Kg** Analysis Date: **1/21/2022 03:29 PM**

Client ID: Run ID: **SVMS9_220121A** SeqNo: **8127116** Prep Date: **1/21/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	957.3	33	1323	0	72.4	40-93	0			
1,2-Dichlorobenzene	943.4	33	1323	0	71.3	42-94	0			
1,3-Dichlorobenzene	938.1	33	1323	0	70.9	41-94	0			
1,4-Dichlorobenzene	917.6	33	1323	0	69.4	42-94	0			
2,2`-Oxybis(1-chloropropane)	911	33	1323	0	68.9	47-107	0			
2,4,5-Trichlorophenol	1094	33	1323	0	82.7	52-111	0			
2,4,6-Trichlorophenol	1063	33	1323	0	80.4	46-105	0			
2,4-Dichlorophenol	1020	33	1323	0	77.1	47-96	0			
2,4-Dimethylphenol	1025	33	1323	0	77.5	49-97	0			
2,4-Dinitrophenol	408.2	660	1323	0	30.9	10-106	0			J
2,4-Dinitrotoluene	1238	33	1323	0	93.6	58-110	0			
2,6-Dinitrotoluene	1153	33	1323	0	87.2	59-108	0			
2-Chloronaphthalene	1042	6.6	1323	0	78.8	56-104	0			
2-Chlorophenol	1005	33	1323	0	76	50-104	0			
2-Methylnaphthalene	1035	6.6	1323	0	78.2	54-96	0			
2-Methylphenol	993.1	33	1323	0	75.1	49-105	0			
2-Nitroaniline	1100	33	1323	0	83.1	54-107	0			
2-Nitrophenol	1021	33	1323	0	77.2	51-94	0			
3&4-Methylphenol	998.3	33	1323	0	75.5	48-105	0			
3,3´-Dichlorobenzidine	904.4	170	1323	0	68.4	39-99	0			
3-Nitroaniline	1098	33	1323	0	83	17-92	0			
4,6-Dinitro-2-methylphenol	1097	33	1323	0	82.9	32-103	0			
4-Bromophenyl phenyl ether	1011	33	1323	0	76.4	60-106	0			
4-Chloro-3-methylphenol	1030	33	1323	0	77.9	51-101	0			
4-Chloroaniline	719.8	66	1323	0	54.4	27-110	0			
4-Chlorophenyl phenyl ether	1059	33	1323	0	80	58-106	0			
4-Nitroaniline	1156	170	1323	0	87.4	21-100	0			
4-Nitrophenol	1041	170	1323	0	78.7	29-120	0			
Acenaphthene	1006	6.6	1323	0	76.1	55-101	0			
Acenaphthylene	1068	6.6	1323	0	80.8	59-106	0			
Anthracene	1213	6.6	1323	0	91.7	67-105	0			
Benzo(a)anthracene	1154	6.6	1323	0	87.3	68-105	0			
Benzo(a)pyrene	1214	6.6	1323	0	91.8	68-110	0			
Benzo(b)fluoranthene	1180	6.6	1323	0	89.2	65-110	0			
Benzo(g,h,i)perylene	1063	6.6	1323	0	80.4	60-120	0			
Benzo(k)fluoranthene	1220	6.6	1323	0	92.2	66-113	0			
Bis(2-chloroethoxy)methane	959.3	33	1323	0	72.5	53-96	0			
Bis(2-chloroethyl)ether	1011	33	1323	0	76.4	47-108	0			
Bis(2-ethylhexyl)phthalate	1189	33	1323	0	89.9	59-117	0			
Butyl benzyl phthalate	1140	66	1323	0	86.2	59-106	0			
Carbazole	1211	33	1323	0	91.5	67-108	0			
Chrysene	1256	6.6	1323	0	94.9	68-108	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **190670** Instrument ID **SVMS9** Method: **SW846 8270D**

Dibenzo(a,h)anthracene	1053	6.6	1323	0	79.6	62-119	0
Dibenzofuran	1100	33	1323	0	83.2	60-104	0
Diethyl phthalate	1104	33	1323	0	83.4	62-111	0
Dimethyl phthalate	1130	33	1323	0	85.4	62-106	0
Di-n-butyl phthalate	1133	33	1323	0	85.6	59-105	0
Di-n-octyl phthalate	1238	33	1323	0	93.6	51-123	0
Fluoranthene	1195	6.6	1323	0	90.3	67-106	0
Fluorene	1128	6.6	1323	0	85.3	59-107	0
Hexachlorobenzene	1012	33	1323	0	76.5	62-103	0
Hexachlorobutadiene	836.3	33	1323	0	63.2	51-94	0
Hexachlorocyclopentadiene	786.6	33	1323	0	59.5	25-120	0
Hexachloroethane	866	33	1323	0	65.5	55-93	0
Indeno(1,2,3-cd)pyrene	1124	6.6	1323	0	85	56-120	0
Isophorone	1003	170	1323	0	75.8	52-99	0
Naphthalene	965.9	6.6	1323	0	73	46-98	0
Nitrobenzene	991.7	170	1323	0	75	53-95	0
N-Nitrosodi-n-propylamine	979.8	33	1323	0	74.1	50-104	0
N-Nitrosodiphenylamine	1190	33	1323	0	89.9	63-107	0
Pentachlorophenol	965.9	33	1323	0	73	34-106	0
Phenanthrene	1214	6.6	1323	0	91.8	66-101	0
Phenol	1006	33	1323	0	76	44-109	0
Pyrene	1288	6.6	1323	0	97.4	60-119	0
Surr: 2,4,6-Tribromophenol	*3010*	0	*3308*	0	*91*	*38-92*	0
Surr: 2-Fluorobiphenyl	*2383*	0	*3308*	0	*72*	*44-107*	0
Surr: 2-Fluorophenol	*2397*	0	*3308*	0	*72.5*	*37-109*	0
Surr: 4-Terphenyl-d14	*2816*	0	*3308*	0	*85.1*	*52-123*	0
Surr: Nitrobenzene-d5	*2320*	0	*3308*	0	*70.1*	*41-94*	0
Surr: Phenol-d6	*2438*	0	*3308*	0	*73.7*	*28-111*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190670** Instrument ID **SVMS9** Method: **SW846 8270D**

MSD	Sample ID: **22011041-01B MSD**				Units: **µg/Kg**			Analysis Date: **1/21/2022 03:53 PM**			
Client ID:		Run ID: **SVMS9_220121A**			SeqNo: **8127117**			Prep Date: **1/21/2022**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	874.6	32	1309	0	66.8	40-93	957.3	9.03	30	
1,2-Dichlorobenzene	858.3	32	1309	0	65.6	42-94	943.4	9.45	30	
1,3-Dichlorobenzene	847.8	32	1309	0	64.8	41-94	938.1	10.1	30	
1,4-Dichlorobenzene	843.9	32	1309	0	64.5	42-94	917.6	8.38	30	
2,2`-Oxybis(1-chloropropane)	854.3	32	1309	0	65.3	47-107	911	6.42	30	
2,4,5-Trichlorophenol	991.8	32	1309	0	75.8	52-111	1094	9.76	30	
2,4,6-Trichlorophenol	993.8	32	1309	0	75.9	46-105	1063	6.75	30	
2,4-Dichlorophenol	937.5	32	1309	0	71.6	47-96	1020	8.38	30	
2,4-Dimethylphenol	974.1	32	1309	0	74.4	49-97	1025	5.13	30	
2,4-Dinitrophenol	360.7	650	1309	0	27.6	10-106	408.2	0	30	J
2,4-Dinitrotoluene	1128	32	1309	0	86.2	58-110	1238	9.34	30	
2,6-Dinitrotoluene	1115	32	1309	0	85.2	59-108	1153	3.37	30	
2-Chloronaphthalene	985.9	6.5	1309	0	75.3	56-104	1042	5.53	30	
2-Chlorophenol	923.7	32	1309	0	70.6	50-104	1005	8.42	30	
2-Methylnaphthalene	959.7	6.5	1309	0	73.3	54-96	1035	7.52	30	
2-Methylphenol	933.6	32	1309	0	71.3	49-105	993.1	6.18	30	
2-Nitroaniline	1042	32	1309	0	79.6	54-107	1100	5.35	30	
2-Nitrophenol	904.1	32	1309	0	69.1	51-94	1021	12.1	30	
3&4-Methylphenol	933.6	32	1309	0	71.3	48-105	998.3	6.71	30	
3,3´-Dichlorobenzidine	895.6	160	1309	0	68.4	39-99	904.4	0.98	30	
3-Nitroaniline	1079	32	1309	0	82.4	17-92	1098	1.72	30	
4,6-Dinitro-2-methylphenol	1046	32	1309	0	79.9	32-103	1097	4.8	30	
4-Bromophenyl phenyl ether	973.5	32	1309	0	74.4	60-106	1011	3.77	30	
4-Chloro-3-methylphenol	981.3	32	1309	0	75	51-101	1030	4.85	30	
4-Chloroaniline	676.9	66	1309	0	51.7	27-110	719.8	6.14	30	
4-Chlorophenyl phenyl ether	994.4	32	1309	0	76	58-106	1059	6.25	30	
4-Nitroaniline	1126	160	1309	0	86	21-100	1156	2.67	30	
4-Nitrophenol	955.2	160	1309	0	73	29-120	1041	8.57	30	
Acenaphthene	953.8	6.5	1309	0	72.9	55-101	1006	5.35	30	
Acenaphthylene	998.4	6.5	1309	0	76.3	59-106	1068	6.78	30	
Anthracene	1196	6.5	1309	0	91.4	67-105	1213	1.44	30	
Benzo(a)anthracene	1125	6.5	1309	0	86	68-105	1154	2.55	30	
Benzo(a)pyrene	1207	6.5	1309	0	92.2	68-110	1214	0.617	30	
Benzo(b)fluoranthene	1174	6.5	1309	0	89.7	65-110	1180	0.55	30	
Benzo(g,h,i)perylene	1042	6.5	1309	0	79.6	60-120	1063	2.05	30	
Benzo(k)fluoranthene	1196	6.5	1309	0	91.4	66-113	1220	1.98	30	
Bis(2-chloroethoxy)methane	887.7	32	1309	0	67.8	53-96	959.3	7.75	30	
Bis(2-chloroethyl)ether	885.1	32	1309	0	67.6	47-108	1011	13.3	30	
Bis(2-ethylhexyl)phthalate	1180	32	1309	0	90.2	59-117	1189	0.719	30	
Butyl benzyl phthalate	1133	66	1309	0	86.6	59-106	1140	0.59	30	
Carbazole	1177	32	1309	0	89.9	67-108	1211	2.82	30	
Chrysene	1224	6.5	1309	0	93.5	68-108	1256	2.54	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **190670** Instrument ID **SVMS9** Method: **SW846 8270D**

Dibenzo(a,h)anthracene	1050	6.5	1309	0	80.2	62-119	1053	0.302	30
Dibenzofuran	1053	32	1309	0	80.4	60-104	1100	4.42	30
Diethyl phthalate	1059	32	1309	0	80.9	62-111	1104	4.1	30
Dimethyl phthalate	1086	32	1309	0	83	62-106	1130	3.96	30
Di-n-butyl phthalate	1099	32	1309	0	83.9	59-105	1133	3.06	30
Di-n-octyl phthalate	1232	32	1309	0	94.1	51-123	1238	0.52	30
Fluoranthene	1172	6.5	1309	0	89.5	67-106	1195	1.94	30
Fluorene	1043	6.5	1309	0	79.7	59-107	1128	7.84	30
Hexachlorobenzene	993.1	32	1309	0	75.9	62-103	1012	1.84	30
Hexachlorobutadiene	772.5	32	1309	0	59	51-94	836.3	7.93	30
Hexachlorocyclopentadiene	718.8	32	1309	0	54.9	25-120	786.6	9.01	30
Hexachloroethane	813.1	32	1309	0	62.1	55-93	866	6.3	30
Indeno(1,2,3-cd)pyrene	1103	6.5	1309	0	84.3	56-120	1124	1.88	30
Isophorone	961	160	1309	0	73.4	52-99	1003	4.27	30
Naphthalene	886.4	6.5	1309	0	67.7	46-98	965.9	8.59	30
Nitrobenzene	903.4	160	1309	0	69	53-95	991.7	9.32	30
N-Nitrosodi-n-propylamine	914.6	32	1309	0	69.9	50-104	979.8	6.89	30
N-Nitrosodiphenylamine	1167	32	1309	0	89.1	63-107	1190	1.95	30
Pentachlorophenol	905.4	32	1309	0	69.2	34-106	965.9	6.47	30
Phenanthrene	1178	6.5	1309	0	90	66-101	1214	2.98	30
Phenol	938.1	32	1309	0	71.7	44-109	1006	6.94	30
Pyrene	1256	6.5	1309	0	95.9	60-119	1288	2.55	30
Surr: 2,4,6-Tribromophenol	*2846*	0	*3273*	0	*87*	*38-92*	3010	*5.57*	*40*
Surr: 2-Fluorobiphenyl	*2208*	0	*3273*	0	*67.4*	*44-107*	2383	*7.65*	*40*
Surr: 2-Fluorophenol	*2156*	0	*3273*	0	*65.9*	*37-109*	2397	*10.6*	*40*
Surr: 4-Terphenyl-d14	*2704*	0	*3273*	0	*82.6*	*52-123*	2816	*4.08*	*40*
Surr: Nitrobenzene-d5	*2120*	0	*3273*	0	*64.8*	*41-94*	2320	*9.03*	*40*
Surr: Phenol-d6	*2235*	0	*3273*	0	*68.3*	*28-111*	2438	*8.69*	*40*

The following samples were analyzed in this batch: 22010880-09B 22010880-10B 22010880-11B 22010880-12B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **190390** Instrument ID **VMS8** Method: **SW8260C**

MBLK	Sample ID: **MBLK-190390-190390**				Units: **µg/Kg-dry**		Analysis Date: **1/19/2022 11:53 AM**			
Client ID:		Run ID: **VMS8_220119A**			SeqNo: **8119941**		Prep Date: **1/14/2022**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2-Dichloroethane	U	100								
1,2-Dichloropropane	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	U	100								
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	100								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Dibromochloromethane	U	30								
Ethylbenzene	U	30								
Methyl tert-butyl ether	U	30								
Methylene chloride	U	250								
Styrene	U	30								
Tetrachloroethene	U	30								
Toluene	U	30								
trans-1,2-Dichloroethene	U	30								
trans-1,3-Dichloropropene	U	30								
Trichloroethene	U	30								
Vinyl acetate	U	250								
Vinyl chloride	U	30								
1,3-Dichloropropene, Total	U	60								
Xylenes, Total	U	90								
Surr: 1,2-Dichloroethane-d4	*984.5*	0	*1000*	0	*98.4*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1076*	0	*1000*	0	*108*	*70-130*	0			
Surr: Dibromofluoromethane	*1014*	0	*1000*	0	*101*	*70-130*	0			
Surr: Toluene-d8	*943.5*	0	*1000*	0	*94.4*	*70-130*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190390** Instrument ID **VMS8** Method: **SW8260C**

LCS	Sample ID: **LCS-190390-190390**				Units: **µg/Kg-dry**		Analysis Date: **1/19/2022 10:59 AM**			
Client ID:		Run ID: **VMS8_220119A**			SeqNo: **8119939**		Prep Date: **1/14/2022**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1008	30	1000	0	101	70-135	0			
1,1,2,2-Tetrachloroethane	1078	30	1000	0	108	55-130	0			
1,1,2-Trichloroethane	1002	30	1000	0	100	60-125	0			
1,1-Dichloroethane	996.5	30	1000	0	99.6	75-125	0			
1,1-Dichloroethene	982	30	1000	0	98.2	76-148	0			
1,2-Dichloroethane	1018	100	1000	0	102	70-135	0			
1,2-Dichloropropane	1018	30	1000	0	102	70-120	0			
2-Butanone	1038	200	1000	0	104	30-160	0			
2-Hexanone	1016	30	1000	0	102	45-145	0			
4-Methyl-2-pentanone	1452	30	1000	0	145	74-176	0			
Acetone	1058	100	1000	0	106	20-160	0			
Benzene	968.5	30	1000	0	96.8	75-125	0			
Bromodichloromethane	997.5	30	1000	0	99.8	70-130	0			
Bromoform	934.5	30	1000	0	93.4	55-135	0			
Bromomethane	1056	100	1000	0	106	50-170	0			
Carbon disulfide	1112	30	1000	0	111	45-160	0			
Carbon tetrachloride	967.5	30	1000	0	96.8	65-135	0			
Chlorobenzene	953	30	1000	0	95.3	75-125	0			
Chloroethane	956.5	100	1000	0	95.6	40-155	0			
Chloroform	961.5	30	1000	0	96.2	66-140	0			
Chloromethane	607.5	100	1000	0	60.8	50-144	0			
cis-1,2-Dichloroethene	956.5	30	1000	0	95.6	65-125	0			
cis-1,3-Dichloropropene	967.5	30	1000	0	96.8	70-125	0			
Dibromochloromethane	965	30	1000	0	96.5	65-135	0			
Ethylbenzene	1003	30	1000	0	100	75-125	0			
Methyl tert-butyl ether	1044	30	1000	0	104	75-125	0			
Methylene chloride	945	250	1000	0	94.5	55-145	0			
Styrene	1060	30	1000	0	106	80-138	0			
Tetrachloroethene	1040	30	1000	0	104	67-167	0			
Toluene	955.5	30	1000	0	95.6	70-125	0			
trans-1,2-Dichloroethene	976	30	1000	0	97.6	65-135	0			
trans-1,3-Dichloropropene	948	30	1000	0	94.8	59-129	0			
Trichloroethene	981.5	30	1000	0	98.2	75-125	0			
Vinyl chloride	863	30	1000	0	86.3	60-125	0			
1,3-Dichloropropene, Total	1916	60	2000	0	95.8	59-129	0			
Xylenes, Total	2920	90	3000	0	97.3	75-125	0			
Surr: 1,2-Dichloroethane-d4	*1014*	0	*1000*	0	*101*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1006*	0	*1000*	0	*101*	*70-130*	0			
Surr: Dibromofluoromethane	*1006*	0	*1000*	0	*101*	*70-130*	0			
Surr: Toluene-d8	*975.5*	0	*1000*	0	*97.6*	*70-130*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190390** Instrument ID **VMS8** Method: **SW8260C**

MS	Sample ID: **22010926-01A MS**				Units: **µg/Kg-dry**		Analysis Date: **1/19/2022 06:52 PM**			
Client ID:		Run ID: **VMS8_220119A**			SeqNo: **8119964**		Prep Date: **1/14/2022**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1154	34	1123	0	103	70-135	0			
1,1,2,2-Tetrachloroethane	1105	34	1123	0	98.4	55-130	0			
1,1,2-Trichloroethane	1083	34	1123	0	96.4	60-125	0			
1,1-Dichloroethane	1086	34	1123	0	96.7	75-125	0			
1,1-Dichloroethene	1136	34	1123	0	101	76-148	0			
1,2-Dichloroethane	1104	110	1123	0	98.3	70-135	0			
1,2-Dichloropropane	1111	34	1123	0	99	70-120	0			
2-Butanone	1149	220	1123	0	102	30-160	0			
2-Hexanone	1218	34	1123	0	108	45-145	0			
4-Methyl-2-pentanone	1019	34	1123	0	90.8	74-176	0			
Acetone	1536	110	1123	0	137	20-160	0			
Benzene	1081	34	1123	0	96.3	75-125	0			
Bromodichloromethane	1084	34	1123	0	96.5	70-130	0			
Bromoform	998.9	34	1123	0	89	55-135	0			
Bromomethane	987.7	110	1123	0	88	50-170	0			
Carbon disulfide	1273	34	1123	0	113	45-160	0			
Carbon tetrachloride	1074	34	1123	0	95.6	65-135	0			
Chlorobenzene	1076	34	1123	0	95.9	75-125	0			
Chloroethane	478.4	110	1123	0	42.6	40-155	0			
Chloroform	1060	34	1123	0	94.4	66-140	0			
Chloromethane	646.8	110	1123	0	57.6	50-144	0			
cis-1,2-Dichloroethene	1072	34	1123	0	95.5	65-125	0			
cis-1,3-Dichloropropene	1019	34	1123	0	90.8	70-125	0			
Dibromochloromethane	1016	34	1123	0	90.5	65-135	0			
Ethylbenzene	1140	34	1123	0	102	75-125	0			
Methyl tert-butyl ether	1212	34	1123	0	108	75-125	0			
Methylene chloride	1034	280	1123	14.6	90.7	55-145	0			
Styrene	1176	34	1123	0	105	80-138	0			
Tetrachloroethene	1729	34	1123	0	154	67-167	0			
Toluene	1089	34	1123	0	97	70-125	0			
trans-1,2-Dichloroethene	1086	34	1123	0	96.7	65-135	0			
trans-1,3-Dichloropropene	996.1	34	1123	0	88.7	59-129	0			
Trichloroethene	1165	34	1123	0	104	75-125	0			
Vinyl chloride	933.8	34	1123	0	83.2	60-125	0			
1,3-Dichloropropene, Total	2015	67	2246	0	89.7	59-129	0			
Xylenes, Total	3250	100	3369	0	96.5	75-125	0			
Surr: 1,2-Dichloroethane-d4	*1094*	0	*1123*	0	*97.4*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1143*	0	*1123*	0	*102*	*70-130*	0			
Surr: Dibromofluoromethane	*1133*	0	*1123*	0	*101*	*70-130*	0			
Surr: Toluene-d8	*1093*	0	*1123*	0	*97.3*	*70-130*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190390** Instrument ID **VMS8** Method: **SW8260C**

MSD	Sample ID: **22010926-01A MSD**				Units: **µg/Kg-dry**		Analysis Date: **1/19/2022 07:10 PM**			
Client ID:		Run ID: **VMS8_220119A**			SeqNo: **8119965**		Prep Date: **1/14/2022**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1099	34	1123	0	97.9	70-135	1154	4.93	30	
1,1,2,2-Tetrachloroethane	1110	34	1123	0	98.8	55-130	1105	0.406	30	
1,1,2-Trichloroethane	1135	34	1123	0	101	60-125	1083	4.76	30	
1,1-Dichloroethane	1068	34	1123	0	95.1	75-125	1086	1.67	30	
1,1-Dichloroethene	1084	34	1123	0	96.5	76-148	1136	4.75	30	
1,2-Dichloroethane	1071	110	1123	0	95.4	70-135	1104	3.05	30	
1,2-Dichloropropane	1063	34	1123	0	94.6	70-120	1111	4.44	30	
2-Butanone	1499	220	1123	0	133	30-160	1149	26.4	30	
2-Hexanone	1421	34	1123	0	127	45-145	1218	15.3	30	
4-Methyl-2-pentanone	1519	34	1123	0	135	74-176	1019	39.4	30	R
Acetone	2331	110	1123	0	208	20-160	1536	41.1	30	SR
Benzene	1049	34	1123	0	93.4	75-125	1081	3.06	30	
Bromodichloromethane	1041	34	1123	0	92.7	70-130	1084	4.02	30	
Bromoform	969.7	34	1123	0	86.4	55-135	998.9	2.97	30	
Bromomethane	1062	110	1123	0	94.6	50-170	987.7	7.23	30	
Carbon disulfide	1207	34	1123	0	107	45-160	1273	5.39	30	
Carbon tetrachloride	1078	34	1123	0	96	65-135	1074	0.417	30	
Chlorobenzene	1048	34	1123	0	93.3	75-125	1076	2.64	30	
Chloroethane	491.9	110	1123	0	43.8	40-155	478.4	2.78	30	
Chloroform	1047	34	1123	0	93.3	66-140	1060	1.23	30	
Chloromethane	695.7	110	1123	0	62	50-144	646.8	7.28	30	
cis-1,2-Dichloroethene	1042	34	1123	0	92.8	65-125	1072	2.92	30	
cis-1,3-Dichloropropene	985.4	34	1123	0	87.8	70-125	1019	3.36	30	
Dibromochloromethane	1030	34	1123	0	91.8	65-135	1016	1.43	30	
Ethylbenzene	1091	34	1123	0	97.2	75-125	1140	4.43	30	
Methyl tert-butyl ether	1085	34	1123	0	96.6	75-125	1212	11	30	
Methylene chloride	994.4	280	1123	14.6	87.3	55-145	1034	3.88	30	
Styrene	1186	34	1123	0	106	80-138	1176	0.903	30	
Tetrachloroethene	1943	34	1123	0	173	67-167	1729	11.6	30	S
Toluene	1065	34	1123	0	94.9	70-125	1089	2.24	30	
trans-1,2-Dichloroethene	1074	34	1123	0	95.6	65-135	1086	1.14	30	
trans-1,3-Dichloropropene	996.6	34	1123	0	88.8	59-129	996.1	0.0564	30	
Trichloroethene	1142	34	1123	0	102	75-125	1165	2.04	30	
Vinyl chloride	973.1	34	1123	0	86.7	60-125	933.8	4.12	30	
1,3-Dichloropropene, Total	1982	67	2246	0	88.3	59-129	2015	1.66	30	
Xylenes, Total	3188	100	3369	0	94.6	75-125	3250	1.94	30	
Surr: 1,2-Dichloroethane-d4	*1093*	0	*1123*	0	*97.3*	*70-130*	1094	*0.102*	*30*	
Surr: 4-Bromofluorobenzene	*1175*	0	*1123*	0	*105*	*70-130*	1143	*2.76*	*30*	
Surr: Dibromofluoromethane	*1116*	0	*1123*	0	*99.3*	*70-130*	1133	*1.55*	*30*	
Surr: Toluene-d8	*1118*	0	*1123*	0	*99.6*	*70-130*	1093	*2.34*	*30*	

The following samples were analyzed in this batch: 22010880-01A 22010880-06A 22010880-08A 22010880-10A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R336706** Instrument ID **VMS8** Method: **SW8260C**

MBLK Sample ID: **8V-BLKS1-220120-R336706** Units: **µg/Kg** Analysis Date: **1/20/2022 11:53 AM**

Client ID: Run ID: **VMS8_220120A** SeqNo: **8122982** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.0								
1,1,2,2-Tetrachloroethane	U	5.0								
1,1,2-Trichloroethane	U	5.0								
1,1-Dichloroethane	U	5.0								
1,1-Dichloroethene	U	5.0								
1,2-Dichloroethane	U	5.0								
1,2-Dichloropropane	U	5.0								
2-Butanone	U	10								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	5.0								
Acetone	U	10								
Benzene	U	5.0								
Bromodichloromethane	U	5.0								
Bromoform	U	5.0								
Bromomethane	U	10								
Carbon disulfide	U	5.0								
Carbon tetrachloride	U	5.0								
Chlorobenzene	U	5.0								
Chloroethane	U	5.0								
Chloroform	U	5.0								
Chloromethane	U	10								
cis-1,2-Dichloroethene	U	5.0								
cis-1,3-Dichloropropene	U	5.0								
Dibromochloromethane	U	5.0								
Ethylbenzene	U	5.0								
Methyl tert-butyl ether	U	5.0								
Methylene chloride	U	10								
Styrene	U	5.0								
Tetrachloroethene	U	5.0								
Toluene	U	5.0								
trans-1,2-Dichloroethene	U	5.0								
trans-1,3-Dichloropropene	U	5.0								
Trichloroethene	U	5.0								
Vinyl acetate	U	20								
Vinyl chloride	U	5.0								
1,3-Dichloropropene, Total	U	15								
Xylenes, Total	U	5.0								
Surr: 1,2-Dichloroethane-d4	*18.43*	0	*20*	0	*92.2*	*83-132*	0			
Surr: 4-Bromofluorobenzene	*19.43*	0	*20*	0	*97.2*	*83-111*	0			
Surr: Dibromofluoromethane	*19.28*	0	*20*	0	*96.4*	*77-125*	0			
Surr: Toluene-d8	*19.45*	0	*20*	0	*97.2*	*86-108*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **R336706** Instrument ID **VMS8** Method: **SW8260C**

LCS	Sample ID: **8V-LCSS1-220120-R336706**				Units: **µg/Kg**			Analysis Date: **1/20/2022 11:08 AM**		
Client ID:	Run ID: **VMS8_220120A**				SeqNo: **8122981**		Prep Date:		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	18.72	5.0	20	0	93.6	73-138	0			
1,1,2,2-Tetrachloroethane	18.73	5.0	20	0	93.6	71-126	0			
1,1,2-Trichloroethane	18.8	5.0	20	0	94	77-123	0			
1,1-Dichloroethane	18.38	5.0	20	0	91.9	63-148	0			
1,1-Dichloroethene	16.31	5.0	20	0	81.6	67-156	0			
1,2-Dichloroethane	19.11	5.0	20	0	95.6	77-127	0			
1,2-Dichloropropane	19.33	5.0	20	0	96.6	74-130	0			
2-Butanone	16.63	10	20	0	83.2	55-132	0			
2-Hexanone	15.99	5.0	20	0	80	55-124	0			
4-Methyl-2-pentanone	21.63	5.0	20	0	108	67-159	0			
Acetone	15.57	10	20	0	77.8	31-156	0			
Benzene	19.34	5.0	20	0	96.7	77-133	0			
Bromodichloromethane	18.91	5.0	20	0	94.6	69-133	0			
Bromoform	16.88	5.0	20	0	84.4	55-126	0			
Bromomethane	17.01	10	20	0	85	31-174	0			
Carbon disulfide	18.3	5.0	20	0	91.5	45-160	0			
Carbon tetrachloride	18.64	5.0	20	0	93.2	69-140	0			
Chlorobenzene	19.1	5.0	20	0	95.5	76-130	0			
Chloroethane	13.49	5.0	20	0	67.4	53-150	0			
Chloroform	17.63	5.0	20	0	88.2	72-132	0			
Chloromethane	12.33	10	20	0	61.6	43-150	0			
cis-1,2-Dichloroethene	18.29	5.0	20	0	91.4	74-134	0			
cis-1,3-Dichloropropene	18.44	5.0	20	0	92.2	62-134	0			
Dibromochloromethane	17	5.0	20	0	85	57-118	0			
Ethylbenzene	18.81	5.0	20	0	94	75-133	0			
Methyl tert-butyl ether	17.35	5.0	20	0	86.8	62-136	0			
Methylene chloride	13.78	10	20	0	68.9	55-157	0			
Styrene	19.51	5.0	20	0	97.6	72-138	0			
Tetrachloroethene	18.91	5.0	20	0	94.6	70-171	0			
Toluene	19.08	5.0	20	0	95.4	76-130	0			
trans-1,2-Dichloroethene	16.72	5.0	20	0	83.6	65-137	0			
trans-1,3-Dichloropropene	17.81	5.0	20	0	89	58-126	0			
Trichloroethene	19.49	5.0	20	0	97.4	75-135	0			
Vinyl chloride	16.23	5.0	20	0	81.2	57-143	0			
1,3-Dichloropropene, Total	36.25	15	40	0	90.6	70-130	0			
Xylenes, Total	58.74	5.0	60	0	97.9	75-132	0			
Surr: 1,2-Dichloroethane-d4	*19.76*	0	*20*	0	*98.8*	*83-132*	0			
Surr: 4-Bromofluorobenzene	*20.21*	0	*20*	0	*101*	*83-111*	0			
Surr: Dibromofluoromethane	*19.65*	0	*20*	0	*98.2*	*77-125*	0			
Surr: Toluene-d8	*20.16*	0	*20*	0	*101*	*86-108*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **R336706** Instrument ID **VMS8** Method: **SW8260C**

MS	Sample ID: **22011048-01A MS**				Units: **µg/Kg**		Analysis Date: **1/20/2022 04:48 PM**			
Client ID:		Run ID: **VMS8_220120A**			SeqNo: **8122996**		Prep Date:		DF: **0.982**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	15.35	4.9	19.64	0	78.2	73-138	0			
1,1,2,2-Tetrachloroethane	15.98	4.9	19.64	0	81.3	71-126	0			
1,1,2-Trichloroethane	15.89	4.9	19.64	0	80.9	77-123	0			
1,1-Dichloroethane	14.77	4.9	19.64	0	75.2	63-148	0			
1,1-Dichloroethene	13.63	4.9	19.64	0	69.4	67-156	0			
1,2-Dichloroethane	15.94	4.9	19.64	0	81.2	77-127	0			
1,2-Dichloropropane	16.06	4.9	19.64	0	81.8	74-130	0			
2-Butanone	28.22	9.8	19.64	0	144	55-132	0			S
2-Hexanone	24.84	4.9	19.64	0	126	55-124	0			S
4-Methyl-2-pentanone	21.09	4.9	19.64	0	107	67-159	0			
Acetone	38.62	9.8	19.64	6.771	162	31-156	0			S
Benzene	15.02	4.9	19.64	0.3932	74.5	77-133	0			S
Bromodichloromethane	15.92	4.9	19.64	0	81	69-133	0			
Bromoform	13.69	4.9	19.64	0	69.7	55-126	0			
Bromomethane	13.03	9.8	19.64	0	66.3	31-174	0			
Carbon disulfide	14.23	4.9	19.64	0	72.5	45-160	0			
Carbon tetrachloride	15.25	4.9	19.64	0	77.7	69-140	0			
Chlorobenzene	14.88	4.9	19.64	0	75.8	76-130	0			S
Chloroethane	10.66	4.9	19.64	0	54.3	53-150	0			
Chloroform	14.94	4.9	19.64	0	76	72-132	0			
Chloromethane	8.622	9.8	19.64	0	43.9	43-150	0			J
cis-1,2-Dichloroethene	15.37	4.9	19.64	0	78.2	74-134	0			
cis-1,3-Dichloropropene	15.11	4.9	19.64	0	77	62-134	0			
Dibromochloromethane	14.57	4.9	19.64	0	74.2	57-118	0			
Ethylbenzene	14.8	4.9	19.64	0	75.3	75-133	0			
Methyl tert-butyl ether	15.15	4.9	19.64	0	77.2	62-136	0			
Methylene chloride	13	9.8	19.64	0	66.2	55-157	0			
Styrene	15.22	4.9	19.64	0	77.5	72-138	0			
Tetrachloroethene	15.67	4.9	19.64	0	79.8	70-171	0			
Toluene	15.06	4.9	19.64	0.3146	75.1	76-130	0			S
trans-1,2-Dichloroethene	13.63	4.9	19.64	0	69.4	65-137	0			
trans-1,3-Dichloropropene	14.9	4.9	19.64	0	75.8	58-126	0			
Trichloroethene	15.18	4.9	19.64	0	77.3	75-135	0			
Vinyl chloride	12.61	4.9	19.64	0	64.2	57-143	0			
1,3-Dichloropropene, Total	30.01	15	39.28	0	76.4	70-130	0			
Xylenes, Total	46.43	4.9	58.92	0	78.8	75-132	0			
Surr: 1,2-Dichloroethane-d4	*19.65*	0	*19.64*	0	*100*	*83-132*	0			
Surr: 4-Bromofluorobenzene	*19.79*	0	*19.64*	0	*101*	*83-111*	0			
Surr: Dibromofluoromethane	*19.39*	0	*19.64*	0	*98.8*	*77-125*	0			
Surr: Toluene-d8	*18.82*	0	*19.64*	0	*95.8*	*86-108*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **R336706** Instrument ID **VMS8** Method: **SW8260C**

MSD	Sample ID: **22011048-01A MSD**				Units: **µg/Kg**			Analysis Date: **1/20/2022 05:07 PM**			
Client ID:		Run ID: **VMS8_220120A**			SeqNo: **8122997**		Prep Date:		DF: **0.992**		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	17.04	5.0	19.84	0	85.9	73-138	15.35	10.5	30	
1,1,2,2-Tetrachloroethane	17.04	5.0	19.84	0	85.9	71-126	15.98	6.45	30	
1,1,2-Trichloroethane	17.11	5.0	19.84	0	86.2	77-123	15.89	7.41	30	
1,1-Dichloroethane	16.84	5.0	19.84	0	84.9	63-148	14.77	13.1	30	
1,1-Dichloroethene	14.84	5.0	19.84	0	74.8	67-156	13.63	8.5	30	
1,2-Dichloroethane	16.94	5.0	19.84	0	85.4	77-127	15.94	6.12	30	
1,2-Dichloropropane	17.15	5.0	19.84	0	86.5	74-130	16.06	6.6	30	
2-Butanone	34.12	9.9	19.84	0	172	55-132	28.22	18.9	30	S
2-Hexanone	28.48	5.0	19.84	0	144	55-124	24.84	13.6	30	S
4-Methyl-2-pentanone	25.13	5.0	19.84	0	127	67-159	21.09	17.5	30	
Acetone	43.73	9.9	19.84	6.771	186	31-156	38.62	12.4	30	S
Benzene	16.42	5.0	19.84	0.3932	80.8	77-133	15.02	8.86	30	
Bromodichloromethane	16.49	5.0	19.84	0	83.1	69-133	15.92	3.51	30	
Bromoform	15.33	5.0	19.84	0	77.2	55-126	13.69	11.3	30	
Bromomethane	14.1	9.9	19.84	0	71	31-174	13.03	7.85	30	
Carbon disulfide	15.25	5.0	19.84	0	76.8	45-160	14.23	6.91	30	
Carbon tetrachloride	16.81	5.0	19.84	0	84.8	69-140	15.25	9.75	30	
Chlorobenzene	15	5.0	19.84	0	75.6	76-130	14.88	0.815	30	S
Chloroethane	12.99	5.0	19.84	0	65.5	53-150	10.66	19.6	30	
Chloroform	16.67	5.0	19.84	0	84	72-132	14.94	10.9	30	
Chloromethane	9.86	9.9	19.84	0	49.7	43-150	8.622	0	30	J
cis-1,2-Dichloroethene	16.37	5.0	19.84	0	82.5	74-134	15.37	6.3	30	
cis-1,3-Dichloropropene	15.6	5.0	19.84	0	78.7	62-134	15.11	3.2	30	
Dibromochloromethane	14.94	5.0	19.84	0	75.3	57-118	14.57	2.48	30	
Ethylbenzene	15.03	5.0	19.84	0	75.8	75-133	14.8	1.54	30	
Methyl tert-butyl ether	18.22	5.0	19.84	0	91.8	62-136	15.15	18.4	30	
Methylene chloride	15.13	9.9	19.84	0	76.2	55-157	13	15.1	30	
Styrene	14.91	5.0	19.84	0	75.2	72-138	15.22	2.07	30	
Tetrachloroethene	15.92	5.0	19.84	0	80.2	70-171	15.67	1.58	30	
Toluene	15.8	5.0	19.84	0.3146	78.1	76-130	15.06	4.79	30	
trans-1,2-Dichloroethene	14.93	5.0	19.84	0	75.2	65-137	13.63	9.1	30	
trans-1,3-Dichloropropene	15.34	5.0	19.84	0	77.3	58-126	14.9	2.91	30	
Trichloroethene	15.95	5.0	19.84	0	80.4	75-135	15.18	4.94	30	
Vinyl chloride	13.92	5.0	19.84	0	70.2	57-143	12.61	9.87	30	
1,3-Dichloropropene, Total	30.94	15	39.68	0	78	70-130	30.01	3.05	30	
Xylenes, Total	47.47	5.0	59.52	0	79.8	75-132	46.43	2.21	30	
Surr: 1,2-Dichloroethane-d4	*20.53*	0	*19.84*	0	*104*	*83-132*	19.65	*4.4*	*30*	
Surr: 4-Bromofluorobenzene	*20.15*	0	*19.84*	0	*102*	*83-111*	19.79	*1.8*	*30*	
Surr: Dibromofluoromethane	*19.56*	0	*19.84*	0	*98.6*	*77-125*	19.39	*0.861*	*30*	
Surr: Toluene-d8	*19.68*	0	*19.84*	0	*99.2*	*86-108*	18.82	*4.45*	*30*	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **R336706** Instrument ID **VMS8** Method: **SW8260C**

The following samples were analyzed in this batch:

22010880-02A	22010880-03A	22010880-04A
22010880-05A	22010880-07A	22010880-09A
22010880-11A	22010880-12A	22010880-25A
22010880-26A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190518** Instrument ID **WETCHEM** Method: **SW9045D**

LCS Sample ID: **LCS-190518-190518** Units: **s.u.** Analysis Date: **1/19/2022 08:48 AM**
Client ID: Run ID: **WETCHEM_220119F** SeqNo: **8118385** Prep Date: **1/18/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	4.03	0.10	4	0	101	90-110	0			

DUP Sample ID: **22010965-01A DUP** Units: **s.u.** Analysis Date: **1/19/2022 08:48 AM**
Client ID: Run ID: **WETCHEM_220119F** SeqNo: **8118400** Prep Date: **1/18/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.6	0.10	0	0	0	0-0	7.58	0.264	20	
Temperature	21.4	0.10	0	0	0		21.4	0		

DUP Sample ID: **22011031-01A DUP** Units: **s.u.** Analysis Date: **1/19/2022 08:48 AM**
Client ID: Run ID: **WETCHEM_220119F** SeqNo: **8118402** Prep Date: **1/18/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.26	0.10	0	0	0	0-0	7.14	1.67	20	
Temperature	21.2	0.10	0	0	0		21.3	0.471		

The following samples were analyzed in this batch:

22010880-01B	22010880-02B	22010880-03B
22010880-04B	22010880-05B	22010880-06B
22010880-07B	22010880-08B	22010880-09B
22010880-10B	22010880-11B	22010880-12B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **R336590** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R336590** Units: **% of sample** Analysis Date: **1/18/2022 12:07 PM**
Client ID: Run ID: **MOIST_220118A** SeqNo: **8115994** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.10								

LCS Sample ID: **LCS-R336590** Units: **% of sample** Analysis Date: **1/18/2022 12:07 PM**
Client ID: Run ID: **MOIST_220118A** SeqNo: **8115993** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	99.99	0.10	100	0	100	98-102	0			

DUP Sample ID: **22010874-01A DUP** Units: **% of sample** Analysis Date: **1/18/2022 12:07 PM**
Client ID: Run ID: **MOIST_220118A** SeqNo: **8115969** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	92.98	0.10	0	0	0	0-0	93.05	0.0753	10	

DUP Sample ID: **22010933-01A DUP** Units: **% of sample** Analysis Date: **1/18/2022 12:07 PM**
Client ID: Run ID: **MOIST_220118A** SeqNo: **8115987** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	14.63	0.10	0	0	0	0-0	14.52	0.755	10	

The following samples were analyzed in this batch:

22010880-01B	22010880-02B	22010880-03B
22010880-04B	22010880-05B	22010880-06B
22010880-07B	22010880-08B	22010880-09B
22010880-10B	22010880-11B	22010880-12B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070
Houston, TX +1 281 530 5656
Middletown, PA +1 717 944 5541
Spring City, PA +1 610 948 4903
Salt Lake City, UT +1 801 266 7700
South Charleston, WV +1 304 356 3168
York, PA +1 717 505 5280

Chain of Custody Form

Page ____ of ____

COC ID: 249947

ALS Project Manager: | ALS Work Order #: 22010880

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	WSP11/W007	A	PH
Work Order		Project Number		B	%Solids
Company Name	WSP	Bill To Company	WSP	C	VOCs (8260B/5035)
Send Report To	D. Trebout	Invoice Attn		D	SVOCs (8270D)
Address	30 N. LaSalle St	Address		E	Total Metals (6010B/6020A/7471B)
				F	TCLP Metals (1311/6010B/6020A/7470A)*
City/State/Zip	Chicago, IL	City/State/Zip		G	
Phone		Phone		H	
Fax		Fax		I	
e-Mail Address	Dean.Trebout@wsp.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	36008-04-B01 (0-5)	1/12/22	1100	S	-	5	X	X	X	X	X	X					
2	36008-04-B01 (5-10)	1/12/22	1120	S	-	5	X	X	X	X	X	X					
3	36008-04-B01 (10-15)	1/12/22	1125	S	-	5	X	X	X	X	X	X					
4	36008-04-B01 (15-21)	1/12/22	1140	S	-	5	X	X	X	X	X	X					
5	36008-04-B03 (0-5)	1/12/22	1220	S	-	5	X	X	X	X	X	X					
6	36008-04-B03 (5-10)	1/12/22	1230	S	-	5	X	X	X	X	X	X					
7	36008-04-B03 (10-15)	1/12/22	1235	S	-	5	X	X	X	X	X	X					
8	36008-04-B03 (15-21)	1/12/22	1245	S	-	5	X	X	X	X	X	X					
9	36008-04-B02 (0-3)	1/12/22	1330	S	-	5	X	X	X	X	X	X					
10																	

Sampler(s) Please Print & Sign	Shipment Method	Required Turnaround Time: (Check Box)	Results Due Date:
		~~5 days~~ 10 days	

Relinquished by: Cindy Hoyal	Date: 1/12/2022	Time: 1400	Received by:	Notes: *TCLP Analysis based on TCLP Results (CHM)*	
Relinquished by: FedEx	Date: 1/13/22	Time: 1630	Received by (Laboratory): 1/12/2022	Cooler ID	Cooler Temp.
Logged by (Laboratory): KW	Date: 1/14/22	Time: 1220	Checked by (Laboratory):	1R3	3.8°C
					3.1°C

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

QC Package: (Check One Box Below)

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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Houston, TX +1 281 530 5656
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South Charleston, WV +1 304 356 3168
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Chain of Custody Form

Page ____ of ____

COC ID: 249948

ALS Project Manager: | ALS Work Order #: 22010880

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	WSP11/W0007 IDOT	A	PH
Work Order		Project Number		B	%Solid
Company Name	WSP	Bill To Company	WSP	C	VOCs (8260B/5035)
Send Report To	D. Tiebout	Invoice Attn		D	SVOCs (8270D)
Address	30 N. LaSalle St	Address		E	Total Metals (6010B/6020A/7471B)
				F	TCLP Metals (1311/6010B/6020A/7470B)*
City/State/Zip	Chicago, IL	City/State/Zip		G	
Phone		Phone		H	
Fax		Fax		I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	3608-03-BD1(0-3)	1/12/2022	1005	S	-	5	X	X	X	X	X	X					
2	3608-03-BD2(0-3)	1/12/2022	1025	S	-	5	X	X	X	X	X	X					
3	3608-03-BD2(0-3)-DUP	1/12/2022	1030	S	-	5	X	X	X	X	X	X					
4	TRIP BLANK #1								X								
5	↓ #2								X								
6																	
7																	
8																	
9																	
10																	

PH

Sampler(s) Please Print & Sign	Shipment Method	Required Turnaround Time: (Check Box)	Results Due Date:

Relinquished by: Cindy Hoppe	Date: 1/12/22	Time: 1400	Received by: [signature]	1/12/22 (1400)	Notes: *Step analysis based on TCLP Results (NOTE CHAD)
Relinquished by: FedEx	Date: 1/13/22	Time: 1630	Received by (Laboratory): [signature]		
Logged by (Laboratory): KEJ	Date: 1/14/22	Time: 1220	Checked by (Laboratory): [signature]		

Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note:
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ALS Group, USA

Sample Receipt Checklist

Client Name: **WSP - CHI** Date/Time Received: **13-Jan-22 16:30**

Work Order: **22010880** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 14-Jan-22 (Date) Reviewed by: Chad Whelton (eSignature) 14-Jan-22 (Date)

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.8/4.8, 3.1/4.1 C	IR3	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	1/14/2022 12:36:06 PM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

27-Jan-2022

Dean Tiebout
WSP USA Corp.
30 N. LaSalle Street
Suite 4200
Chicago, IL 60602

Re: **WSP11/W007** Work Order: **22011473**

Dear Dean,

ALS Environmental received 12 samples on 13-Jan-2022 04:30 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 20.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: IL: 200076

ALS Group, USA

Date: 27-Jan-22

Client: WSP USA Corp.
Project: WSP11/W007
Work Order: **22011473**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
22011473-01	3608-04-B01 (0-5)	Splp Extract		1/12/2022 11:00	1/13/2022 16:30	☐
22011473-02	3608-04-B01 (5-10)	Splp Extract		1/12/2022 11:20	1/13/2022 16:30	☐
22011473-03	3608-04-B01 (10-15)	Splp Extract		1/12/2022 11:25	1/13/2022 16:30	☐
22011473-04	3608-04-B01 (15-21)	Splp Extract		1/12/2022 11:40	1/13/2022 16:30	☐
22011473-05	3608-04-B03 (0-5)	Splp Extract		1/12/2022 12:20	1/13/2022 16:30	☐
22011473-06	3608-04-B03 (5-10)	Splp Extract		1/12/2022 12:30	1/13/2022 16:30	☐
22011473-07	3608-04-B03 (10-15)	Splp Extract		1/12/2022 12:35	1/13/2022 16:30	☐
22011473-08	3608-04-B03 (15-21)	Splp Extract		1/12/2022 12:45	1/13/2022 16:30	☐
22011473-09	3608-04-B02 (0-3)	Splp Extract		1/12/2022 13:30	1/13/2022 16:30	☐
22011473-10	3608-03-B01 (0-3)	Splp Extract		1/12/2022 10:05	1/13/2022 16:30	☐
22011473-11	3608-03-B02 (0-3)	Splp Extract		1/12/2022 10:25	1/13/2022 16:30	☐
22011473-12	3608-03-B02 (0-3) - DUP	Splp Extract		1/12/2022 10:30	1/13/2022 16:30	☐

ALS Group, USA

Date: 27-Jan-22

Client: WSP USA Corp.
Project: WSP11/W007
Work Order: 22011473

Case Narrative

Samples for the above noted Work Order were received on 01/13/2022. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Metals:
No other deviations or anomalies were noted.

ALS Group, USA

Date: 27-Jan-22

Client: WSP USA Corp.
Project: WSP11/W007
WorkOrder: **22011473**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
mg/L	Milligrams per Liter

ALS Group, USA

Date: *27-Jan-22*

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-03-B01 (0-3)
Collection Date: 1/12/2022 10:05 AM

Work Order: 22011473
Lab ID: 22011473-10
Matrix: SPLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method:	**SW6020B**		Prep: SW3015A / 1/26/22		Analyst: **STP**
Manganese	**0.072**		**0.0025**	**0.0050**	**mg/L**	1	1/26/2022 18:04

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *27-Jan-22*

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-03-B02 (0-3)
Collection Date: 1/12/2022 10:25 AM

Work Order: 22011473
Lab ID: 22011473-11
Matrix: SPLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method: **SW6020B**		Prep: SW3015A / 1/26/22			Analyst: **STP**
Lead	**0.059**		**0.00072**	**0.0050**	**mg/L**	1	1/26/2022 18:09
Manganese	**0.73**		**0.0025**	**0.0050**	**mg/L**	1	1/26/2022 18:09

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *27-Jan-22*

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-03-B02 (0-3) - DUP
Collection Date: 1/12/2022 10:30 AM

Work Order: 22011473
Lab ID: 22011473-12
Matrix: SPLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method: **SW6020B**		Prep: SW3015A / 1/26/22			Analyst: **STP**
Lead	**0.073**		**0.00072**	**0.0050**	**mg/L**	1	1/26/2022 18:11
Manganese	**1.0**		**0.0025**	**0.0050**	**mg/L**	1	1/26/2022 18:11

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Jan-22

Client: WSP USA Corp.

Work Order: 22011473

Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190928** Instrument ID **ICPMS4** Method: **SW6020B**

MBLK Sample ID: **MBLK-190928-190928** Units: **mg/L** Analysis Date: **1/26/2022 05:23 PM**

Client ID: Run ID: **ICPMS4_220126A** SeqNo: **8133728** Prep Date: **1/26/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	U	0.080								
Lead	U	0.0050								
Manganese	U	0.0050								
Thallium	U	0.0050								

LCS Sample ID: **LCS-190928-190928** Units: **mg/L** Analysis Date: **1/26/2022 05:25 PM**

Client ID: Run ID: **ICPMS4_220126A** SeqNo: **8133729** Prep Date: **1/26/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	9.994	0.080	10	0	99.9	80-120	0			
Lead	0.1015	0.0050	0.1	0	101	80-120	0			
Manganese	0.09745	0.0050	0.1	0	97.5	80-120	0			
Thallium	0.09912	0.0050	0.1	0	99.1	80-120	0			

MS Sample ID: **22011322-02AMS** Units: **mg/L** Analysis Date: **1/26/2022 05:31 PM**

Client ID: Run ID: **ICPMS4_220126A** SeqNo: **8133733** Prep Date: **1/26/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	1.382	0.050	1	0.4025	98	80-120	0			
Manganese	2.41	0.050	1	1.547	86.3	80-120	0			
Thallium	0.9642	0.050	1	0.000572	96.4	80-120	0			

MSD Sample ID: **22011322-02AMSD** Units: **mg/L** Analysis Date: **1/26/2022 05:33 PM**

Client ID: Run ID: **ICPMS4_220126A** SeqNo: **8133734** Prep Date: **1/26/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	1.393	0.050	1	0.4025	99	80-120	1.382	0.751	20	
Manganese	2.443	0.050	1	1.547	89.6	80-120	2.41	1.36	20	
Thallium	0.9782	0.050	1	0.000572	97.8	80-120	0.9642	1.44	20	

The following samples were analyzed in this batch:

22011473-01A	22011473-02A	22011473-03A
22011473-04A	22011473-05A	22011473-06A
22011473-07A	22011473-08A	22011473-09A
22011473-10A	22011473-11A	22011473-12A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

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South Charleston, WV +1 304 356 3168
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Chain of Custody Form

Page ____ of ____

COC ID: 249947

ALS Project Manager: | ALS Work Order #: 22010880

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	WSP11/W007	A	PH
Work Order		Project Number		B	%Solids
Company Name	WSP	Bill To Company	WSP	C	VOCs (8260B/5035)
Send Report To	D. Trebout	Invoice Attn		D	SVOCs (8270D)
Address	30 N. LaSalle St	Address		E	Total Metals (6010B/6020A/7471B)
				F	TCLP Metals (1311/6010B/6020A/7470A)*
City/State/Zip	Chicago, IL	City/State/Zip		G	
Phone		Phone		H	
Fax		Fax		I	
e-Mail Address	Dean.Trebout@wsp.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	36008-04-B01 (0-5)	1/12/22	1100	S	-	5	X	X	X	X	X	X					
2	36008-04-B01 (5-10)	1/12/22	1120	S	-	5	X	X	X	X	X	X					
3	36008-04-B01 (10-15)	1/12/22	1125	S	-	5	X	X	X	X	X	X					
4	36008-04-B01 (15-21)	1/12/22	1140	S	-	5	X	X	X	X	X	X					
5	36008-04-B03 (0-5)	1/12/22	1220	S	-	5	X	X	X	X	X	X					
6	36008-04-B03 (5-10)	1/12/22	1230	S	-	5	X	X	X	X	X	X					
7	36008-04-B03 (10-15)	1/12/22	1235	S	-	5	X	X	X	X	X	X					
8	36008-04-B03 (15-21)	1/12/22	1245	S	-	5	X	X	X	X	X	X					
9	36008-04-B02 (0-3)	1/12/22	1330	S	-	5	X	X	X	X	X	X					
10																	

Sampler(s) Please Print & Sign	Shipment Method	Required Turnaround Time: (Check Box)	Results Due Date:
		~~5 days~~ 10 days	

Relinquished by: Cindy Hoyal	Date: 1/12/2022	Time: 1400	Received by:	Notes: *TCLP Analysis based on TCLP Results (CHM)*	
Relinquished by: FedEx	Date: 1/13/22	Time: 1630	Received by (Laboratory): 1/12/2022	Cooler ID	Cooler Temp.
Logged by (Laboratory): KW	Date: 1/14/22	Time: 1220	Checked by (Laboratory):	1R3	3.8°C
					3.1°C

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

QC Package: (Check One Box Below)

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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South Charleston, WV +1 304 356 3168
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York, PA +1 717 505 5280

Chain of Custody Form

Page ____ of ____

COC ID: 249948

ALS Project Manager: | ALS Work Order #: 22010880

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	WSP11/W0007 IDOT	A	PH
Work Order		Project Number		B	%Solid
Company Name	WSP	Bill To Company	WSP	C	VOCs (8260B/5035)
Send Report To	D. Tiebout	Invoice Attn		D	SVOCs (8270D)
Address	30 N. LaSalle St	Address		E	Total Metals (6010B/6020A/7471B)
				F	TCLP Metals (1311/6010B/6020A/7470B)*
City/State/Zip	Chicago, IL	City/State/Zip		G	
Phone		Phone		H	
Fax		Fax		I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	3608-03-BD1(0-3)	1/12/2022	1005	S	-	5	X	X	X	X	X	X					
2	3608-03-BD2(0-3)	1/12/2022	1025	S	-	5	X	X	X	X	X	X					
3	3608-03-BD2(0-3)-DUP	1/12/2022	1030	S	-	5	X	X	X	X	X	X					
4	TRIP BLANK #1								X								
5	↓ #2								X								
6																	
7																	
8																	
9																	
10																	

PH

Sampler(s) Please Print & Sign	Shipment Method	Required Turnaround Time: (Check Box)	Results Due Date:

Relinquished by: Cindy Hoppe	Date: 1/12/22	Time: 1400	Received by: [signature]	1/12/22 (1400)	Notes: *Step analysis based on TCLP Results (NOTE CHAD)
Relinquished by: FedEx	Date: 1/13/22	Time: 1630	Received by (Laboratory): [signature]		
Logged by (Laboratory): KEJ	Date: 1/14/22	Time: 1220	Checked by (Laboratory): [signature]		

Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note:
1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

ALS Group, USA

Sample Receipt Checklist

Client Name: **WSP - CHI** Date/Time Received: **13-Jan-22 16:30**

Work Order: **22011473** Received by: **KRW**

Checklist completed by Chad Whelton 25-Jan-22 Reviewed by: Chad Whelton 25-Jan-22

eSignature Date eSignature Date

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.8/4.8, 3.1/4.1 C	IR3	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	1/14/2022 12:36:06 PM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

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: FAU 1339 (Illinois Route 53) Office Phone Number, if available:

Physical Site Location (address, including number and street):
955 Biesterfield Road (ISGS #3608-4)

City: Elk Grove Village State: IL Zip Code: 60007

County: Cook Township: Elk Grove

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

Latitude: 42.00285 (Decimal Degrees) Longitude: -88.0227 (-Decimal Degrees)

Identify how the lat/long data were determined:

○ GPS ◉ Map Interpolation ○ Photo Interpolation ○ Survey ○ Other

IEPA Site Number(s), if assigned: BOL: 0314405777 BOW: BOA:

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

Estimated Volume of debris (cu. Yd.): 40

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.

Project Name: FAU 1339 (Illinois Route 53) Latitude: 42.00285 Longitude: - 88.02270

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Locations 3608-04-B01 and -B02 were sampled within the construction zone adjacent to ISGS #3608-4 (Sebert Landscaping). Refer to PSI Report for ISGS #3608-4 (Sebert Landscaping) including Tables 3-1 through 5-1 and Figures 4-1 and 4-2.

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 22010880 and 22011473.

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:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

02-01-2022
Date:

Expires 11/30/2023

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

Analytical Data Summary
PTB #196-002; Work Order 07 - 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.
J = Estimated value.
U = Analyte was analyzed for but not detected.

Criteria Qualifiers and Shading

\# = pH is less than 6.25 or greater than 9.0 standard units.
† = Concentration exceeds the most stringent MAC.
m = Concentration exceeds the MAC for an MSA.
* = Concentration exceeds the MAC for Chicago corporate limits.
c = Concentration exceeds a TACO Tier 1 RO for the Construction Worker Exposure Route.
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 07 - IDOT Job # D-91-441-20; Project # D-91-130-17

CONTAMINANTS OF CONCERN

SITE	ISGS #3608-4 (Sebert Landscaping)					Comparison Criteria					
BORING	3608-04-B01				3608-04-B02	MACs			TACO		
SAMPLE	3608-04-B01 (0-5)	3608-04-B01 (5-10)	3608-04-B01 (10-15)	3608-04-B01 (15-21)	3608-04-B02 (0-3)						
MATRIX	Soil	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-5	5-10	10-15	15-21	0-3						
pH	8.11	7.4	7.66	7.77	8.19						
PID (Meter Units)	--				--	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
VOCs (mg/kg)											
2-Butanone	ND U	**0.015**	ND U	ND U	ND U	--	--	--	--	--	--
Acetone	ND U	**0.053**	**0.027**	**0.014**	ND U	25	--	--	70,000	100,000	--
Benzene	ND U	**0.00056 J**	**0.00065 J**	ND U	ND U	0.03	--	--	0.8	2.2	--
Carbon disulfide	ND U	**0.0013 J**	ND U	ND U	ND U	9	--	--	720	9	--
Ethylbenzene	ND U	ND U	ND U	ND U	ND U	13	--	--	400	58	--
SVOCs (mg/kg)											
2-Methylnaphthalene	ND U	ND U	**0.022**	ND U	ND U	--	--	--	--	--	--
Acenaphthene	ND U	ND U	**0.02**	ND U	**0.0061 J**	570	--	--	4,700	120,000	--
Anthracene	ND U	ND U	**0.057**	ND U	**0.018**	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	ND U	**0.014**	**0.098**	**0.039 J**	**0.035**	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	ND U	**0.012**	**0.081**	**0.043**	**0.026**	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	**0.0074 J**	**0.022**	**0.11**	**0.059**	**0.038**	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	ND U	**0.01**	**0.042**	**0.035 J**	**0.021**	--	--	--	--	--	--
Benzo(k)fluoranthene	ND U	**0.01**	**0.04**	ND U	**0.018**	9	--	--	9	1,700	--
Chrysene	ND U	**0.016**	**0.1**	**0.039 J**	**0.036**	88	--	--	88	17,000	--
Dibenzo(a,h)anthracene	ND U	ND U	**0.01**	ND U	ND U	0.09	0.42	0.2	0.42	17	--
Fluoranthene	**0.014**	**0.023**	**0.25**	**0.082**	**0.089**	3,100	--	--	3,100	82,000	--
Fluorene	ND U	ND U	**0.025**	ND U	**0.011**	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND U	**0.014**	**0.048**	**0.039 J**	**0.018**	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	ND U	**0.012**	ND U	ND U	1.8	--	--	170	1.8	--
Phenanthrene	**0.032**	**0.022**	**0.22**	**0.043**	**0.11**	--	--	--	--	--	--
Pyrene	**0.0098**	**0.019**	**0.18**	**0.055**	**0.084**	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)											
Antimony	**0.55**	**0.42**	**0.37 J**	**0.36 J**	**0.39 J**	5	--	--	31	82	--
Arsenic	**9.4**	**8.3**	**7.8**	**10**	**8.7**	11.3	13	--	13	61	--
Barium	**52**	**67**	**48**	**42**	**61**	1,500	--	--	5,500	14,000	--
Beryllium	**0.5**	**0.64**	**0.5**	**0.44**	**0.58**	22	--	--	160	410	--
Boron	**7.7**	**8.3**	**11**	**8.7**	**7.7**	40	--	--	16,000	41,000	--
Cadmium	**0.23**	**0.059 J**	**0.054 J**	ND U	**0.052 J**	5.2	--	--	78	200	--
Calcium	**47,000**	**36,000**	**56,000**	**61,000**	**49,000**	--	--	--	--	--	--
Chromium	**12**	**15**	**15**	**13**	**15**	21	--	--	230	690	--
Cobalt	**11**	**9.8**	**12**	**11**	**11**	20	--	--	4,700	12,000	--
Copper	**40**	**32**	**29**	**25**	**34**	2,900	--	--	2,900	8,200	--
Iron	**25,000** †m	**24,000** †m	**23,000** †m	**23,000** †m	**29,000** †m	15,000	15,900	--	--	--	--
Lead	**20**	**19**	**14**	**15**	**19**	107	--	--	400	700	--
Magnesium	**30,000**	**22,000**	**32,000**	**35,000**	**30,000**	325,000	--	--	--	730,000	--
Manganese	**520**	**470**	**460**	**420**	**530**	630	636	--	1,600	4,100	--
Mercury	**0.031**	**3.9** †	**0.027**	**0.028**	**0.031**	0.89	--	--	10	0.1	--
Nickel	**34**	**33**	**34**	**29**	**36**	100	--	--	1,600	4,100	--
Potassium	**1,000**	**1,400**	**1,700**	**1,500**	**1,500**	--	--	--	--	--	--
Selenium	**0.5**	**0.42**	ND U	ND U	ND U	1.3	--	--	390	1,000	--
Sodium	**610**	**430**	**490**	**930**	**970**	--	--	--	--	--	--
Thallium	**0.99**	**0.45**	**0.65**	**0.46**	**0.5**	2.6	--	--	6.3	160	--
Vanadium	**18**	**22**	**18**	**16**	**21**	550	--	--	550	1,400	--
Zinc	**47**	**45**	**42**	**45**	**48**	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)											
Barium	**0.62**	**0.64**	**0.63**	**0.54**	**0.55**	--	--	--	--	--	2
Beryllium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.004
Boron	**0.17 J**	**0.16 J**	ND U	ND U	**0.89**	--	--	--	--	--	2
Cadmium	**0.0028 J**	**0.0016 J**	ND U	ND U	**0.0027 J**	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	**0.095**	**0.013 J**	**0.021 J**	**0.019 J**	**0.08**	--	--	--	--	--	1
Iron	**0.54 J**	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Lead	**0.0087 J L**	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	**13 L**	**4.4 L**	**6.2 L**	**4.7 L**	**7.6 L**	--	--	--	--	--	0.15
Mercury	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002
Nickel	**0.099**	**0.018 J**	**0.026 J**	**0.021 J**	**0.082**	--	--	--	--	--	0.1
Selenium	ND U	**0.0057 J**	ND U	ND U	ND U	--	--	--	--	--	0.05
Thallium	ND U	**0.0022 J L**	ND U	ND U	ND U	--	--	--	--	--	0.002
Zinc	**0.12**	ND U	**0.081 J**	ND U	ND U	--	--	--	--	--	5
SPLP Metals (mg/L)											
Iron	NA	NA	NA	NA	NA	--	--	--	--	--	5
Lead	**0.0014 J**	NA	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	**0.018**	**0.029**	**0.019**	**0.019**	**0.18 L**	--	--	--	--	--	0.15
Thallium	NA	ND U	NA	NA	NA	--	--	--	--	--	0.002

24-Jan-2022

Dean Tiebout
WSP USA Corp.
30 N. LaSalle Street
Suite 4200
Chicago, IL 60602

Re: **WSP11/W007** Work Order: **22010880**

Dear Dean,

ALS Environmental received 26 samples on 13-Jan-2022 04:30 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 108.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: IL: 200076

ALS Group, USA

Date: 24-Jan-22

Client: WSP USA Corp.
Project: WSP11/W007
Work Order: **22010880**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
22010880-01	3608-04-B01 (0-5)	Soil		1/12/2022 11:00	1/13/2022 16:30	☐
22010880-02	3608-04-B01 (5-10)	Soil		1/12/2022 11:20	1/13/2022 16:30	☐
22010880-03	3608-04-B01 (10-15)	Soil		1/12/2022 11:25	1/13/2022 16:30	☐
22010880-04	3608-04-B01 (15-21)	Soil		1/12/2022 11:40	1/13/2022 16:30	☐
22010880-05	3608-04-B03 (0-5)	Soil		1/12/2022 12:20	1/13/2022 16:30	☐
22010880-06	3608-04-B03 (5-10)	Soil		1/12/2022 12:30	1/13/2022 16:30	☐
22010880-07	3608-04-B03 (10-15)	Soil		1/12/2022 12:35	1/13/2022 16:30	☐
22010880-08	3608-04-B03 (15-21)	Soil		1/12/2022 12:45	1/13/2022 16:30	☐
22010880-09	3608-04-B02 (0-3)	Soil		1/12/2022 13:30	1/13/2022 16:30	☐
22010880-10	3608-03-B01 (0-3)	Soil		1/12/2022 10:05	1/13/2022 16:30	☐
22010880-11	3608-03-B02 (0-3)	Soil		1/12/2022 10:25	1/13/2022 16:30	☐
22010880-12	3608-03-B02 (0-3) - DUP	Soil		1/12/2022 10:30	1/13/2022 16:30	☐
22010880-13	3608-04-B01 (0-5)	Tclp Extract		1/12/2022 11:00	1/13/2022 16:30	☐
22010880-14	3608-04-B01 (5-10)	Tclp Extract		1/12/2022 11:20	1/13/2022 16:30	☐
22010880-15	3608-04-B01 (10-15)	Tclp Extract		1/12/2022 11:25	1/13/2022 16:30	☐
22010880-16	3608-04-B01 (15-21)	Tclp Extract		1/12/2022 11:40	1/13/2022 16:30	☐
22010880-17	3608-04-B03 (0-5)	Tclp Extract		1/12/2022 12:20	1/13/2022 16:30	☐
22010880-18	3608-04-B03 (5-10)	Tclp Extract		1/12/2022 12:30	1/13/2022 16:30	☐
22010880-19	3608-04-B03 (10-15)	Tclp Extract		1/12/2022 12:35	1/13/2022 16:30	☐
22010880-20	3608-04-B03 (15-21)	Tclp Extract		1/12/2022 12:45	1/13/2022 16:30	☐
22010880-21	3608-04-B02 (0-3)	Tclp Extract		1/12/2022 13:30	1/13/2022 16:30	☐
22010880-22	3608-03-B01 (0-3)	Tclp Extract		1/12/2022 10:05	1/13/2022 16:30	☐
22010880-23	3608-03-B02 (0-3)	Tclp Extract		1/12/2022 10:25	1/13/2022 16:30	☐
22010880-24	3608-03-B02 (0-3) - DUP	Tclp Extract		1/12/2022 10:30	1/13/2022 16:30	☐
22010880-25	Trip Blank #1	Soil		1/12/2022	1/13/2022 16:30	☐
22010880-26	Trip Blank #2	Soil		1/12/2022	1/13/2022 16:30	☐

Client: WSP USA Corp.
Project: WSP11/W007
Work Order: 22010880

Case Narrative

Samples for the above noted Work Order were received on 01/13/2022. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Volatile Organics:

Batch R336706, Method SW8260C, Samples 22010880-02A through -05A, -07A, -09A, -11A, -12A, -25A, and -26A: The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: Vinyl acetate.

Batch 190390, Method SW8260C, Samples 22010880-01A, -06A, -08A, -10A: The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: Vinyl acetate.

Extractable Organics:

Batch 190590, Method SW846 8270D, Sample 3608-04-B03 (0-5) (22010880-05B): The SVOC reporting limits are elevated due to dilution needed to eliminate matrix-related interference.

Batch 190590, Method SW846 8270D, Samples 22010880-05B through -08B: The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol.

Batch 190590, Method SW846 8270D, Samples 22010880-01B through -04B: The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample

results were non-detect for the following analytes: Bis(2-chloroethyl)ether.

Batch 190590, Method SW846 8270D, Sample 3608-04-B01 (15-21) (22010880-04B): The SVOC reporting limits are elevated due to dilution needed to eliminate matrix-related interference.

Batch 190670, Method SW846 8270D, Sample 3608-03-B02 (0-3) (22010880-11B): One or more base/neutral surrogate recoveries were below the lower control limits. The base/neutral sample results may be biased low.

Metals:

Batch 190662, Method SW6020B, Sample 22010880-13A MS/MSD: The MS/MSD recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Manganese.

Wet Chemistry:
No other deviations or anomalies were noted.

ALS Group, USA

Date: 24-Jan-22

Qualifier	Description
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
°C	Degrees Celcius
µg/Kg	Micrograms per Kilogram
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter
s.u.	Standard Units

ALS Group, USA

Date: *24-Jan-22*

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-04-B01 (0-5)
Collection Date: 1/12/2022 11:00 AM

Work Order: 22010880
Lab ID: 22010880-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 1/19/22		Analyst: **EJC**
Mercury	**0.031**		**0.016**	**0.024**	**mg/Kg-dry**	1	1/19/2022 16:17
METALS BY ICP-MS		Method: **SW6020B**			Prep: SW3050B / 1/17/22		Analyst: **STP**
Antimony	**0.55**		**0.12**	**0.46**	**mg/Kg-dry**	1	1/18/2022 23:07
Arsenic	**9.4**		**0.055**	**0.46**	**mg/Kg-dry**	1	1/18/2022 23:07
Barium	**52**		**0.42**	**0.46**	**mg/Kg-dry**	1	1/18/2022 23:07
Beryllium	**0.50**		**0.031**	**0.18**	**mg/Kg-dry**	1	1/18/2022 23:07
Boron	**7.7**		**1.7**	**1.8**	**mg/Kg-dry**	1	1/18/2022 23:07
Cadmium	**0.23**		**0.028**	**0.18**	**mg/Kg-dry**	1	1/18/2022 23:07
Calcium	**47,000**		**220**	**460**	**mg/Kg-dry**	10	1/19/2022 14:03
Chromium	**12**		**0.20**	**0.46**	**mg/Kg-dry**	1	1/18/2022 23:07
Cobalt	**11**		**0.075**	**0.46**	**mg/Kg-dry**	1	1/18/2022 23:07
Copper	**40**		**4.6**	**4.6**	**mg/Kg-dry**	10	1/19/2022 14:03
Iron	**25,000**		**150**	**180**	**mg/Kg-dry**	10	1/19/2022 14:03
Lead	**20**		**0.22**	**0.46**	**mg/Kg-dry**	1	1/18/2022 23:07
Magnesium	**30,000**		**130**	**180**	**mg/Kg-dry**	10	1/19/2022 14:03
Manganese	**520**		**3.9**	**4.6**	**mg/Kg-dry**	10	1/19/2022 14:03
Nickel	**34**		**2.4**	**4.6**	**mg/Kg-dry**	10	1/19/2022 14:03
Potassium	**1,000**		**7.7**	**18**	**mg/Kg-dry**	1	1/18/2022 23:07
Selenium	**0.50**		**0.42**	**0.46**	**mg/Kg-dry**	1	1/18/2022 23:07
Silver	U		0.061	0.46	mg/Kg-dry	1	1/18/2022 23:07
Sodium	**610**		**25**	**28**	**mg/Kg-dry**	1	1/18/2022 23:07
Thallium	**0.99**		**0.072**	**0.46**	**mg/Kg-dry**	1	1/18/2022 23:07
Vanadium	**18**		**0.12**	**0.46**	**mg/Kg-dry**	1	1/18/2022 23:07
Zinc	**47**		**0.90**	**0.92**	**mg/Kg-dry**	1	1/18/2022 23:07
SEMI-VOLATILE ORGANIC COMPOUNDS		Method: **SW846 8270D**			Prep: SW3546 / 1/19/22		Analyst: **EEW**
1,2,4-Trichlorobenzene	U		22	40	µg/Kg-dry	1	1/20/2022 19:29
1,2-Dichlorobenzene	U		27	40	µg/Kg-dry	1	1/20/2022 19:29
1,3-Dichlorobenzene	U		28	40	µg/Kg-dry	1	1/20/2022 19:29
1,4-Dichlorobenzene	U		25	40	µg/Kg-dry	1	1/20/2022 19:29
2,2`-Oxybis(1-chloropropane)	U		28	40	µg/Kg-dry	1	1/20/2022 19:29
2,4,5-Trichlorophenol	U		24	40	µg/Kg-dry	1	1/20/2022 19:29
2,4,6-Trichlorophenol	U		11	40	µg/Kg-dry	1	1/20/2022 19:29
2,4-Dichlorophenol	U		22	40	µg/Kg-dry	1	1/20/2022 19:29
2,4-Dimethylphenol	U		21	40	µg/Kg-dry	1	1/20/2022 19:29
2,4-Dinitrophenol	U		73	820	µg/Kg-dry	1	1/20/2022 19:29
2,4-Dinitrotoluene	U		27	40	µg/Kg-dry	1	1/20/2022 19:29
2,6-Dinitrotoluene	U		27	40	µg/Kg-dry	1	1/20/2022 19:29

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-04-B01 (0-5)
Collection Date: 1/12/2022 11:00 AM

Work Order: 22010880
Lab ID: 22010880-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2-Chloronaphthalene	U		5.7	8.2	µg/Kg-dry	1	1/20/2022 19:29
2-Chlorophenol	U		28	40	µg/Kg-dry	1	1/20/2022 19:29
2-Methylnaphthalene	U		4.2	8.2	µg/Kg-dry	1	1/20/2022 19:29
2-Methylphenol	U		25	40	µg/Kg-dry	1	1/20/2022 19:29
2-Nitroaniline	U		23	40	µg/Kg-dry	1	1/20/2022 19:29
2-Nitrophenol	U		26	40	µg/Kg-dry	1	1/20/2022 19:29
3&4-Methylphenol	U		22	40	µg/Kg-dry	1	1/20/2022 19:29
3,3´-Dichlorobenzidine	U		19	200	µg/Kg-dry	1	1/20/2022 19:29
3-Nitroaniline	U		24	40	µg/Kg-dry	1	1/20/2022 19:29
4,6-Dinitro-2-methylphenol	U		34	40	µg/Kg-dry	1	1/20/2022 19:29
4-Bromophenyl phenyl ether	U		22	40	µg/Kg-dry	1	1/20/2022 19:29
4-Chloro-3-methylphenol	U		30	40	µg/Kg-dry	1	1/20/2022 19:29
4-Chloroaniline	U		21	82	µg/Kg-dry	1	1/20/2022 19:29
4-Chlorophenyl phenyl ether	U		27	40	µg/Kg-dry	1	1/20/2022 19:29
4-Nitroaniline	U		63	200	µg/Kg-dry	1	1/20/2022 19:29
4-Nitrophenol	U		20	200	µg/Kg-dry	1	1/20/2022 19:29
Acenaphthene	U		5.9	8.2	µg/Kg-dry	1	1/20/2022 19:29
Acenaphthylene	U		5.3	8.2	µg/Kg-dry	1	1/20/2022 19:29
Anthracene	U		5.8	8.2	µg/Kg-dry	1	1/20/2022 19:29
Benzo(a)anthracene	U		7.1	8.2	µg/Kg-dry	1	1/20/2022 19:29
Benzo(a)pyrene	U		5.0	8.2	µg/Kg-dry	1	1/20/2022 19:29
Benzo(b)fluoranthene	**7.4**	J	**6.1**	**8.2**	**µg/Kg-dry**	1	1/20/2022 19:29
Benzo(g,h,i)perylene	U		6.3	8.2	µg/Kg-dry	1	1/20/2022 19:29
Benzo(k)fluoranthene	U		6.2	8.2	µg/Kg-dry	1	1/20/2022 19:29
Bis(2-chloroethoxy)methane	U		26	40	µg/Kg-dry	1	1/20/2022 19:29
Bis(2-chloroethyl)ether	U		29	40	µg/Kg-dry	1	1/20/2022 19:29
Bis(2-ethylhexyl)phthalate	U		34	40	µg/Kg-dry	1	1/20/2022 19:29
Butyl benzyl phthalate	U		51	82	µg/Kg-dry	1	1/20/2022 19:29
Carbazole	U		30	40	µg/Kg-dry	1	1/20/2022 19:29
Chrysene	U		6.6	8.2	µg/Kg-dry	1	1/20/2022 19:29
Dibenzo(a,h)anthracene	U		4.4	8.2	µg/Kg-dry	1	1/20/2022 19:29
Dibenzofuran	U		25	40	µg/Kg-dry	1	1/20/2022 19:29
Diethyl phthalate	U		32	40	µg/Kg-dry	1	1/20/2022 19:29
Dimethyl phthalate	U		31	40	µg/Kg-dry	1	1/20/2022 19:29
Di-n-butyl phthalate	U		25	40	µg/Kg-dry	1	1/20/2022 19:29
Di-n-octyl phthalate	U		35	40	µg/Kg-dry	1	1/20/2022 19:29
Fluoranthene	**14**		**3.9**	**8.2**	**µg/Kg-dry**	1	1/20/2022 19:29
Fluorene	U		5.9	8.2	µg/Kg-dry	1	1/20/2022 19:29
Hexachlorobenzene	U		25	40	µg/Kg-dry	1	1/20/2022 19:29
Hexachlorobutadiene	U		32	40	µg/Kg-dry	1	1/20/2022 19:29

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-04-B01 (0-5)
Collection Date: 1/12/2022 11:00 AM

Work Order: 22010880
Lab ID: 22010880-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorocyclopentadiene	U		39	40	µg/Kg-dry	1	1/20/2022 19:29
Hexachloroethane	U		17	40	µg/Kg-dry	1	1/20/2022 19:29
Indeno(1,2,3-cd)pyrene	U		5.7	8.2	µg/Kg-dry	1	1/20/2022 19:29
Isophorone	U		29	200	µg/Kg-dry	1	1/20/2022 19:29
Naphthalene	U		5.2	8.2	µg/Kg-dry	1	1/20/2022 19:29
Nitrobenzene	U		31	200	µg/Kg-dry	1	1/20/2022 19:29
N-Nitrosodi-n-propylamine	U		40	40	µg/Kg-dry	1	1/20/2022 19:29
N-Nitrosodiphenylamine	U		23	40	µg/Kg-dry	1	1/20/2022 19:29
Pentachlorophenol	U		32	40	µg/Kg-dry	1	1/20/2022 19:29
Phenanthrene	**32**		**3.8**	**8.2**	**µg/Kg-dry**	1	1/20/2022 19:29
Phenol	U		21	40	µg/Kg-dry	1	1/20/2022 19:29
Pyrene	**9.8**		**7.8**	**8.2**	**µg/Kg-dry**	1	1/20/2022 19:29
Surr: 2,4,6-Tribromophenol	*62.0*			*38-92*	*%REC*	1	1/20/2022 19:29
Surr: 2-Fluorobiphenyl	*60.9*			*44-107*	*%REC*	1	1/20/2022 19:29
Surr: 2-Fluorophenol	*73.6*			*37-109*	*%REC*	1	1/20/2022 19:29
Surr: 4-Terphenyl-d14	*59.5*			*52-123*	*%REC*	1	1/20/2022 19:29
Surr: Nitrobenzene-d5	*64.3*			*41-94*	*%REC*	1	1/20/2022 19:29
Surr: Phenol-d6	*70.7*			*28-111*	*%REC*	1	1/20/2022 19:29
VOLATILE ORGANIC COMPOUNDS			Method: **SW8260C**		Prep: SW5035A / 1/14/22		Analyst: **JNS**
1,1,1-Trichloroethane	U		18	40	µg/Kg-dry	1	1/20/2022 16:17
1,1,2,2-Tetrachloroethane	U		18	40	µg/Kg-dry	1	1/20/2022 16:17
1,1,2-Trichloroethane	U		17	40	µg/Kg-dry	1	1/20/2022 16:17
1,1-Dichloroethane	U		15	40	µg/Kg-dry	1	1/20/2022 16:17
1,1-Dichloroethene	U		13	40	µg/Kg-dry	1	1/20/2022 16:17
1,2-Dichloroethane	U		61	130	µg/Kg-dry	1	1/20/2022 16:17
1,2-Dichloropropane	U		30	40	µg/Kg-dry	1	1/20/2022 16:17
2-Butanone	U		33	270	µg/Kg-dry	1	1/20/2022 16:17
2-Hexanone	U		20	40	µg/Kg-dry	1	1/20/2022 16:17
4-Methyl-2-pentanone	U		38	40	µg/Kg-dry	1	1/20/2022 16:17
Acetone	U		120	130	µg/Kg-dry	1	1/20/2022 16:17
Benzene	U		20	40	µg/Kg-dry	1	1/20/2022 16:17
Bromodichloromethane	U		23	40	µg/Kg-dry	1	1/20/2022 16:17
Bromoform	U		17	40	µg/Kg-dry	1	1/20/2022 16:17
Bromomethane	U		77	130	µg/Kg-dry	1	1/20/2022 16:17
Carbon disulfide	U		21	40	µg/Kg-dry	1	1/20/2022 16:17
Carbon tetrachloride	U		16	40	µg/Kg-dry	1	1/20/2022 16:17
Chlorobenzene	U		13	40	µg/Kg-dry	1	1/20/2022 16:17
Chloroethane	U		40	130	µg/Kg-dry	1	1/20/2022 16:17
Chloroform	U		15	40	µg/Kg-dry	1	1/20/2022 16:17

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-04-B01 (0-5)
Collection Date: 1/12/2022 11:00 AM

Work Order: 22010880
Lab ID: 22010880-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		110	130	µg/Kg-dry	1	1/20/2022 16:17
cis-1,2-Dichloroethene	U		26	40	µg/Kg-dry	1	1/20/2022 16:17
cis-1,3-Dichloropropene	U		30	40	µg/Kg-dry	1	1/20/2022 16:17
Dibromochloromethane	U		23	40	µg/Kg-dry	1	1/20/2022 16:17
Ethylbenzene	U		8.5	40	µg/Kg-dry	1	1/20/2022 16:17
Methyl tert-butyl ether	U		12	40	µg/Kg-dry	1	1/20/2022 16:17
Methylene chloride	U		110	340	µg/Kg-dry	1	1/20/2022 16:17
Styrene	U		16	40	µg/Kg-dry	1	1/20/2022 16:17
Tetrachloroethene	U		24	40	µg/Kg-dry	1	1/20/2022 16:17
Toluene	U		11	40	µg/Kg-dry	1	1/20/2022 16:17
trans-1,2-Dichloroethene	U		15	40	µg/Kg-dry	1	1/20/2022 16:17
trans-1,3-Dichloropropene	U		23	40	µg/Kg-dry	1	1/20/2022 16:17
Trichloroethene	U		18	40	µg/Kg-dry	1	1/20/2022 16:17
Vinyl acetate	U		28	340	µg/Kg-dry	1	1/20/2022 16:17
Vinyl chloride	U		27	40	µg/Kg-dry	1	1/20/2022 16:17
1,3-Dichloropropene, Total	U		30	81	µg/Kg-dry	1	1/20/2022 16:17
Xylenes, Total	U		54	120	µg/Kg-dry	1	1/20/2022 16:17
Surr: 1,2-Dichloroethane-d4	*105*			*70-130*	*%REC*	1	1/20/2022 16:17
Surr: 4-Bromofluorobenzene	*96.0*			*70-130*	*%REC*	1	1/20/2022 16:17
Surr: Dibromofluoromethane	*96.4*			*70-130*	*%REC*	1	1/20/2022 16:17
Surr: Toluene-d8	*90.4*			*70-130*	*%REC*	1	1/20/2022 16:17
MOISTURE		Method: **SW3550C**					Analyst: **ALG**
Moisture	**20**		**0.10**	**0.10**	**% of sample**	1	1/18/2022 12:07
SOIL PH MEASURED IN WATER AT NOTED TEMP.		Method: **SW9045D**			Prep: SW9045D / 1/18/22		Analyst: **KNC**
pH	**8.11**		**0.10**	**0.10**	**s.u.**	1	1/19/2022 08:48
Temperature	**21.0**		**0.10**	**0.10**	**°C**	1	1/19/2022 08:48

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *24-Jan-22*

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-04-B01 (5-10)
Collection Date: 1/12/2022 11:20 AM

Work Order: 22010880
Lab ID: 22010880-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 1/19/22		Analyst: **EJC**
Mercury	**3.9**		**0.32**	**0.47**	**mg/Kg-dry**	20	1/21/2022 13:31
METALS BY ICP-MS		Method: **SW6020B**			Prep: SW3050B / 1/17/22		Analyst: **STP**
Antimony	**0.42**		**0.11**	**0.41**	**mg/Kg-dry**	1	1/18/2022 23:10
Arsenic	**8.3**		**0.050**	**0.41**	**mg/Kg-dry**	1	1/18/2022 23:10
Barium	**67**		**0.38**	**0.41**	**mg/Kg-dry**	1	1/18/2022 23:10
Beryllium	**0.64**		**0.028**	**0.17**	**mg/Kg-dry**	1	1/18/2022 23:10
Boron	**8.3**		**1.6**	**1.7**	**mg/Kg-dry**	1	1/18/2022 23:10
Cadmium	**0.059**	J	**0.025**	**0.17**	**mg/Kg-dry**	1	1/18/2022 23:10
Calcium	**36,000**		**200**	**410**	**mg/Kg-dry**	10	1/19/2022 14:05
Chromium	**15**		**0.18**	**0.41**	**mg/Kg-dry**	1	1/18/2022 23:10
Cobalt	**9.8**		**0.068**	**0.41**	**mg/Kg-dry**	1	1/18/2022 23:10
Copper	**32**		**4.1**	**4.1**	**mg/Kg-dry**	10	1/19/2022 14:05
Iron	**24,000**		**130**	**170**	**mg/Kg-dry**	10	1/19/2022 14:05
Lead	**19**		**0.20**	**0.41**	**mg/Kg-dry**	1	1/18/2022 23:10
Magnesium	**22,000**		**120**	**170**	**mg/Kg-dry**	10	1/19/2022 14:05
Manganese	**470**		**3.5**	**4.1**	**mg/Kg-dry**	10	1/19/2022 14:05
Nickel	**33**		**2.2**	**4.1**	**mg/Kg-dry**	10	1/19/2022 14:05
Potassium	**1,400**		**6.9**	**17**	**mg/Kg-dry**	1	1/18/2022 23:10
Selenium	**0.42**		**0.38**	**0.41**	**mg/Kg-dry**	1	1/18/2022 23:10
Silver	U		0.055	0.41	mg/Kg-dry	1	1/18/2022 23:10
Sodium	**430**		**22**	**25**	**mg/Kg-dry**	1	1/18/2022 23:10
Thallium	**0.45**		**0.065**	**0.41**	**mg/Kg-dry**	1	1/18/2022 23:10
Vanadium	**22**		**0.11**	**0.41**	**mg/Kg-dry**	1	1/18/2022 23:10
Zinc	**45**		**0.81**	**0.83**	**mg/Kg-dry**	1	1/18/2022 23:10
SEMI-VOLATILE ORGANIC COMPOUNDS		Method: **SW846 8270D**			Prep: SW3546 / 1/19/22		Analyst: **EEW**
1,2,4-Trichlorobenzene	U		21	40	µg/Kg-dry	1	1/20/2022 19:53
1,2-Dichlorobenzene	U		26	40	µg/Kg-dry	1	1/20/2022 19:53
1,3-Dichlorobenzene	U		27	40	µg/Kg-dry	1	1/20/2022 19:53
1,4-Dichlorobenzene	U		25	40	µg/Kg-dry	1	1/20/2022 19:53
2,2`-Oxybis(1-chloropropane)	U		27	40	µg/Kg-dry	1	1/20/2022 19:53
2,4,5-Trichlorophenol	U		24	40	µg/Kg-dry	1	1/20/2022 19:53
2,4,6-Trichlorophenol	U		11	40	µg/Kg-dry	1	1/20/2022 19:53
2,4-Dichlorophenol	U		22	40	µg/Kg-dry	1	1/20/2022 19:53
2,4-Dimethylphenol	U		21	40	µg/Kg-dry	1	1/20/2022 19:53
2,4-Dinitrophenol	U		72	800	µg/Kg-dry	1	1/20/2022 19:53
2,4-Dinitrotoluene	U		26	40	µg/Kg-dry	1	1/20/2022 19:53
2,6-Dinitrotoluene	U		26	40	µg/Kg-dry	1	1/20/2022 19:53

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-04-B01 (5-10)
Collection Date: 1/12/2022 11:20 AM

Work Order: 22010880
Lab ID: 22010880-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2-Chloronaphthalene	U		5.6	8.0	µg/Kg-dry	1	1/20/2022 19:53
2-Chlorophenol	U		27	40	µg/Kg-dry	1	1/20/2022 19:53
2-Methylnaphthalene	U		4.1	8.0	µg/Kg-dry	1	1/20/2022 19:53
2-Methylphenol	U		25	40	µg/Kg-dry	1	1/20/2022 19:53
2-Nitroaniline	U		22	40	µg/Kg-dry	1	1/20/2022 19:53
2-Nitrophenol	U		25	40	µg/Kg-dry	1	1/20/2022 19:53
3&4-Methylphenol	U		22	40	µg/Kg-dry	1	1/20/2022 19:53
3,3´-Dichlorobenzidine	U		19	200	µg/Kg-dry	1	1/20/2022 19:53
3-Nitroaniline	U		23	40	µg/Kg-dry	1	1/20/2022 19:53
4,6-Dinitro-2-methylphenol	U		34	40	µg/Kg-dry	1	1/20/2022 19:53
4-Bromophenyl phenyl ether	U		22	40	µg/Kg-dry	1	1/20/2022 19:53
4-Chloro-3-methylphenol	U		30	40	µg/Kg-dry	1	1/20/2022 19:53
4-Chloroaniline	U		20	81	µg/Kg-dry	1	1/20/2022 19:53
4-Chlorophenyl phenyl ether	U		26	40	µg/Kg-dry	1	1/20/2022 19:53
4-Nitroaniline	U		62	200	µg/Kg-dry	1	1/20/2022 19:53
4-Nitrophenol	U		19	200	µg/Kg-dry	1	1/20/2022 19:53
Acenaphthene	U		5.8	8.0	µg/Kg-dry	1	1/20/2022 19:53
Acenaphthylene	U		5.2	8.0	µg/Kg-dry	1	1/20/2022 19:53
Anthracene	U		5.7	8.0	µg/Kg-dry	1	1/20/2022 19:53
Benzo(a)anthracene	**14**		**6.9**	**8.0**	**µg/Kg-dry**	1	1/20/2022 19:53
Benzo(a)pyrene	**12**		**4.9**	**8.0**	**µg/Kg-dry**	1	1/20/2022 19:53
Benzo(b)fluoranthene	**22**		**6.0**	**8.0**	**µg/Kg-dry**	1	1/20/2022 19:53
Benzo(g,h,i)perylene	**10**		**6.2**	**8.0**	**µg/Kg-dry**	1	1/20/2022 19:53
Benzo(k)fluoranthene	**10**		**6.1**	**8.0**	**µg/Kg-dry**	1	1/20/2022 19:53
Bis(2-chloroethoxy)methane	U		25	40	µg/Kg-dry	1	1/20/2022 19:53
Bis(2-chloroethyl)ether	U		28	40	µg/Kg-dry	1	1/20/2022 19:53
Bis(2-ethylhexyl)phthalate	U		33	40	µg/Kg-dry	1	1/20/2022 19:53
Butyl benzyl phthalate	U		50	81	µg/Kg-dry	1	1/20/2022 19:53
Carbazole	U		29	40	µg/Kg-dry	1	1/20/2022 19:53
Chrysene	**16**		**6.5**	**8.0**	**µg/Kg-dry**	1	1/20/2022 19:53
Dibenzo(a,h)anthracene	U		4.3	8.0	µg/Kg-dry	1	1/20/2022 19:53
Dibenzofuran	U		25	40	µg/Kg-dry	1	1/20/2022 19:53
Diethyl phthalate	U		32	40	µg/Kg-dry	1	1/20/2022 19:53
Dimethyl phthalate	U		31	40	µg/Kg-dry	1	1/20/2022 19:53
Di-n-butyl phthalate	U		25	40	µg/Kg-dry	1	1/20/2022 19:53
Di-n-octyl phthalate	U		35	40	µg/Kg-dry	1	1/20/2022 19:53
Fluoranthene	**23**		**3.9**	**8.0**	**µg/Kg-dry**	1	1/20/2022 19:53
Fluorene	U		5.8	8.0	µg/Kg-dry	1	1/20/2022 19:53
Hexachlorobenzene	U		25	40	µg/Kg-dry	1	1/20/2022 19:53
Hexachlorobutadiene	U		31	40	µg/Kg-dry	1	1/20/2022 19:53

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-04-B01 (5-10)
Collection Date: 1/12/2022 11:20 AM

Work Order: 22010880
Lab ID: 22010880-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorocyclopentadiene	U		38	40	µg/Kg-dry	1	1/20/2022 19:53
Hexachloroethane	U		17	40	µg/Kg-dry	1	1/20/2022 19:53
Indeno(1,2,3-cd)pyrene	**14**		**5.6**	**8.0**	**µg/Kg-dry**	1	1/20/2022 19:53
Isophorone	U		29	200	µg/Kg-dry	1	1/20/2022 19:53
Naphthalene	U		5.1	8.0	µg/Kg-dry	1	1/20/2022 19:53
Nitrobenzene	U		30	200	µg/Kg-dry	1	1/20/2022 19:53
N-Nitrosodi-n-propylamine	U		39	40	µg/Kg-dry	1	1/20/2022 19:53
N-Nitrosodiphenylamine	U		23	40	µg/Kg-dry	1	1/20/2022 19:53
Pentachlorophenol	U		32	40	µg/Kg-dry	1	1/20/2022 19:53
Phenanthrene	**22**		**3.7**	**8.0**	**µg/Kg-dry**	1	1/20/2022 19:53
Phenol	U		20	40	µg/Kg-dry	1	1/20/2022 19:53
Pyrene	**19**		**7.6**	**8.0**	**µg/Kg-dry**	1	1/20/2022 19:53
Surr: 2,4,6-Tribromophenol	*67.8*			*38-92*	*%REC*	1	1/20/2022 19:53
Surr: 2-Fluorobiphenyl	*62.6*			*44-107*	*%REC*	1	1/20/2022 19:53
Surr: 2-Fluorophenol	*75.0*			*37-109*	*%REC*	1	1/20/2022 19:53
Surr: 4-Terphenyl-d14	*67.7*			*52-123*	*%REC*	1	1/20/2022 19:53
Surr: Nitrobenzene-d5	*67.8*			*41-94*	*%REC*	1	1/20/2022 19:53
Surr: Phenol-d6	*75.6*			*28-111*	*%REC*	1	1/20/2022 19:53
VOLATILE ORGANIC COMPOUNDS - LOW LEVEL		Method: **SW8260C**					Analyst: **MF**
1,1,1-Trichloroethane	U		0.80	5.1	µg/Kg-dry	0.821	1/20/2022 13:22
1,1,2,2-Tetrachloroethane	U		0.65	5.1	µg/Kg-dry	0.821	1/20/2022 13:22
1,1,2-Trichloroethane	U		0.68	5.1	µg/Kg-dry	0.821	1/20/2022 13:22
1,1-Dichloroethane	U		0.63	5.1	µg/Kg-dry	0.821	1/20/2022 13:22
1,1-Dichloroethene	U		0.99	5.1	µg/Kg-dry	0.821	1/20/2022 13:22
1,2-Dichloroethane	U		0.57	5.1	µg/Kg-dry	0.821	1/20/2022 13:22
1,2-Dichloropropane	U		0.45	5.1	µg/Kg-dry	0.821	1/20/2022 13:22
2-Butanone	**15**		**5.2**	**10**	**µg/Kg-dry**	0.821	1/20/2022 13:22
2-Hexanone	U		1.8	5.1	µg/Kg-dry	0.821	1/20/2022 13:22
4-Methyl-2-pentanone	U		1.8	5.1	µg/Kg-dry	0.821	1/20/2022 13:22
Acetone	**53**		**4.7**	**10**	**µg/Kg-dry**	0.821	1/20/2022 13:22
Benzene	**0.56**	J	**0.53**	**5.1**	**µg/Kg-dry**	0.821	1/20/2022 13:22
Bromodichloromethane	U		0.61	5.1	µg/Kg-dry	0.821	1/20/2022 13:22
Bromoform	U		0.51	5.1	µg/Kg-dry	0.821	1/20/2022 13:22
Bromomethane	U		2.5	10	µg/Kg-dry	0.821	1/20/2022 13:22
Carbon disulfide	**1.3**	J	**0.60**	**5.1**	**µg/Kg-dry**	0.821	1/20/2022 13:22
Carbon tetrachloride	U		1.0	5.1	µg/Kg-dry	0.821	1/20/2022 13:22
Chlorobenzene	U		0.64	5.1	µg/Kg-dry	0.821	1/20/2022 13:22
Chloroethane	U		1.9	5.1	µg/Kg-dry	0.821	1/20/2022 13:22
Chloroform	U		0.83	5.1	µg/Kg-dry	0.821	1/20/2022 13:22

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-04-B01 (5-10)
Collection Date: 1/12/2022 11:20 AM

Work Order: 22010880
Lab ID: 22010880-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		1.0	10	µg/Kg-dry	0.821	1/20/2022 13:22
cis-1,2-Dichloroethene	U		0.55	5.1	µg/Kg-dry	0.821	1/20/2022 13:22
cis-1,3-Dichloropropene	U		0.61	5.1	µg/Kg-dry	0.821	1/20/2022 13:22
Dibromochloromethane	U		0.52	5.1	µg/Kg-dry	0.821	1/20/2022 13:22
Ethylbenzene	U		0.88	5.1	µg/Kg-dry	0.821	1/20/2022 13:22
Methyl tert-butyl ether	U		0.62	5.1	µg/Kg-dry	0.821	1/20/2022 13:22
Methylene chloride	U		6.3	10	µg/Kg-dry	0.821	1/20/2022 13:22
Styrene	U		0.76	5.1	µg/Kg-dry	0.821	1/20/2022 13:22
Tetrachloroethene	U		0.90	5.1	µg/Kg-dry	0.821	1/20/2022 13:22
Toluene	U		0.87	5.1	µg/Kg-dry	0.821	1/20/2022 13:22
trans-1,2-Dichloroethene	U		0.51	5.1	µg/Kg-dry	0.821	1/20/2022 13:22
trans-1,3-Dichloropropene	U		0.49	5.1	µg/Kg-dry	0.821	1/20/2022 13:22
Trichloroethene	U		0.73	5.1	µg/Kg-dry	0.821	1/20/2022 13:22
Vinyl acetate	U		3.4	20	µg/Kg-dry	0.821	1/20/2022 13:22
Vinyl chloride	U		0.71	5.1	µg/Kg-dry	0.821	1/20/2022 13:22
1,3-Dichloropropene, Total	U		0.61	15	µg/Kg-dry	0.821	1/20/2022 13:22
Xylenes, Total	U		2.2	5.1	µg/Kg-dry	0.821	1/20/2022 13:22
Surr: 1,2-Dichloroethane-d4	*121*			*83-132*	*%REC*	0.821	1/20/2022 13:22
Surr: 4-Bromofluorobenzene	*103*			*83-111*	*%REC*	0.821	1/20/2022 13:22
Surr: Dibromofluoromethane	*107*			*77-125*	*%REC*	0.821	1/20/2022 13:22
Surr: Toluene-d8	*93.6*			*86-108*	*%REC*	0.821	1/20/2022 13:22
MOISTURE		Method:	**SW3550C**				Analyst: **ALG**
Moisture	**19**		**0.10**	**0.10**	**% of sample**	1	1/18/2022 12:07
SOIL PH MEASURED IN WATER AT NOTED TEMP.		Method:	**SW9045D**		Prep: SW9045D / 1/18/22		Analyst: **KNC**
pH	**7.40**		**0.10**	**0.10**	**s.u.**	1	1/19/2022 08:48
Temperature	**21.0**		**0.10**	**0.10**	**°C**	1	1/19/2022 08:48

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *24-Jan-22*

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-04-B01 (10-15)
Collection Date: 1/12/2022 11:25 AM

Work Order: 22010880
Lab ID: 22010880-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 1/19/22		Analyst: **EJC**
Mercury	**0.027**		**0.014**	**0.021**	**mg/Kg-dry**	1	1/19/2022 16:22
METALS BY ICP-MS		Method: **SW6020B**			Prep: SW3050B / 1/17/22		Analyst: **STP**
Antimony	**0.37**	J	**0.10**	**0.39**	**mg/Kg-dry**	1	1/18/2022 23:12
Arsenic	**7.8**		**0.046**	**0.39**	**mg/Kg-dry**	1	1/18/2022 23:12
Barium	**48**		**0.36**	**0.39**	**mg/Kg-dry**	1	1/18/2022 23:12
Beryllium	**0.50**		**0.026**	**0.15**	**mg/Kg-dry**	1	1/18/2022 23:12
Boron	**11**		**1.5**	**1.5**	**mg/Kg-dry**	1	1/18/2022 23:12
Cadmium	**0.054**	J	**0.023**	**0.15**	**mg/Kg-dry**	1	1/18/2022 23:12
Calcium	**56,000**		**190**	**390**	**mg/Kg-dry**	10	1/19/2022 14:07
Chromium	**15**		**0.17**	**0.39**	**mg/Kg-dry**	1	1/18/2022 23:12
Cobalt	**12**		**0.063**	**0.39**	**mg/Kg-dry**	1	1/18/2022 23:12
Copper	**29**		**3.9**	**3.9**	**mg/Kg-dry**	10	1/19/2022 14:07
Iron	**23,000**		**120**	**150**	**mg/Kg-dry**	10	1/19/2022 14:07
Lead	**14**		**0.19**	**0.39**	**mg/Kg-dry**	1	1/18/2022 23:12
Magnesium	**32,000**		**110**	**150**	**mg/Kg-dry**	10	1/19/2022 14:07
Manganese	**460**		**3.2**	**3.9**	**mg/Kg-dry**	10	1/19/2022 14:07
Nickel	**34**		**2.0**	**3.9**	**mg/Kg-dry**	10	1/19/2022 14:07
Potassium	**1,700**		**6.5**	**15**	**mg/Kg-dry**	1	1/18/2022 23:12
Selenium	U		0.36	0.39	mg/Kg-dry	1	1/18/2022 23:12
Silver	U		0.051	0.39	mg/Kg-dry	1	1/18/2022 23:12
Sodium	**490**		**21**	**23**	**mg/Kg-dry**	1	1/18/2022 23:12
Thallium	**0.65**		**0.060**	**0.39**	**mg/Kg-dry**	1	1/18/2022 23:12
Vanadium	**18**		**0.099**	**0.39**	**mg/Kg-dry**	1	1/18/2022 23:12
Zinc	**42**		**0.76**	**0.77**	**mg/Kg-dry**	1	1/18/2022 23:12
SEMI-VOLATILE ORGANIC COMPOUNDS		Method: **SW846 8270D**			Prep: SW3546 / 1/19/22		Analyst: **EEW**
1,2,4-Trichlorobenzene	U		21	39	µg/Kg-dry	1	1/20/2022 20:17
1,2-Dichlorobenzene	U		26	39	µg/Kg-dry	1	1/20/2022 20:17
1,3-Dichlorobenzene	U		26	39	µg/Kg-dry	1	1/20/2022 20:17
1,4-Dichlorobenzene	U		24	39	µg/Kg-dry	1	1/20/2022 20:17
2,2`-Oxybis(1-chloropropane)	U		27	39	µg/Kg-dry	1	1/20/2022 20:17
2,4,5-Trichlorophenol	U		23	39	µg/Kg-dry	1	1/20/2022 20:17
2,4,6-Trichlorophenol	U		10	39	µg/Kg-dry	1	1/20/2022 20:17
2,4-Dichlorophenol	U		21	39	µg/Kg-dry	1	1/20/2022 20:17
2,4-Dimethylphenol	U		20	39	µg/Kg-dry	1	1/20/2022 20:17
2,4-Dinitrophenol	U		70	780	µg/Kg-dry	1	1/20/2022 20:17
2,4-Dinitrotoluene	U		25	39	µg/Kg-dry	1	1/20/2022 20:17
2,6-Dinitrotoluene	U		26	39	µg/Kg-dry	1	1/20/2022 20:17

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-04-B01 (10-15)
Collection Date: 1/12/2022 11:25 AM

Work Order: 22010880
Lab ID: 22010880-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2-Chloronaphthalene	U		5.5	7.8	µg/Kg-dry	1	1/20/2022 20:17
2-Chlorophenol	U		26	39	µg/Kg-dry	1	1/20/2022 20:17
2-Methylnaphthalene	**22**		**4.0**	**7.8**	**µg/Kg-dry**	1	1/20/2022 20:17
2-Methylphenol	U		24	39	µg/Kg-dry	1	1/20/2022 20:17
2-Nitroaniline	U		22	39	µg/Kg-dry	1	1/20/2022 20:17
2-Nitrophenol	U		25	39	µg/Kg-dry	1	1/20/2022 20:17
3&4-Methylphenol	U		21	39	µg/Kg-dry	1	1/20/2022 20:17
3,3´-Dichlorobenzidine	U		18	200	µg/Kg-dry	1	1/20/2022 20:17
3-Nitroaniline	U		23	39	µg/Kg-dry	1	1/20/2022 20:17
4,6-Dinitro-2-methylphenol	U		33	39	µg/Kg-dry	1	1/20/2022 20:17
4-Bromophenyl phenyl ether	U		21	39	µg/Kg-dry	1	1/20/2022 20:17
4-Chloro-3-methylphenol	U		29	39	µg/Kg-dry	1	1/20/2022 20:17
4-Chloroaniline	U		20	78	µg/Kg-dry	1	1/20/2022 20:17
4-Chlorophenyl phenyl ether	U		25	39	µg/Kg-dry	1	1/20/2022 20:17
4-Nitroaniline	U		61	200	µg/Kg-dry	1	1/20/2022 20:17
4-Nitrophenol	U		19	200	µg/Kg-dry	1	1/20/2022 20:17
Acenaphthene	**20**		**5.6**	**7.8**	**µg/Kg-dry**	1	1/20/2022 20:17
Acenaphthylene	U		5.1	7.8	µg/Kg-dry	1	1/20/2022 20:17
Anthracene	**57**		**5.5**	**7.8**	**µg/Kg-dry**	1	1/20/2022 20:17
Benzo(a)anthracene	**98**		**6.7**	**7.8**	**µg/Kg-dry**	1	1/20/2022 20:17
Benzo(a)pyrene	**81**		**4.8**	**7.8**	**µg/Kg-dry**	1	1/20/2022 20:17
Benzo(b)fluoranthene	**110**		**5.8**	**7.8**	**µg/Kg-dry**	1	1/20/2022 20:17
Benzo(g,h,i)perylene	**42**		**6.0**	**7.8**	**µg/Kg-dry**	1	1/20/2022 20:17
Benzo(k)fluoranthene	**40**		**5.9**	**7.8**	**µg/Kg-dry**	1	1/20/2022 20:17
Bis(2-chloroethoxy)methane	U		25	39	µg/Kg-dry	1	1/20/2022 20:17
Bis(2-chloroethyl)ether	U		28	39	µg/Kg-dry	1	1/20/2022 20:17
Bis(2-ethylhexyl)phthalate	U		32	39	µg/Kg-dry	1	1/20/2022 20:17
Butyl benzyl phthalate	U		49	78	µg/Kg-dry	1	1/20/2022 20:17
Carbazole	U		28	39	µg/Kg-dry	1	1/20/2022 20:17
Chrysene	**100**		**6.3**	**7.8**	**µg/Kg-dry**	1	1/20/2022 20:17
Dibenzo(a,h)anthracene	**10**		**4.2**	**7.8**	**µg/Kg-dry**	1	1/20/2022 20:17
Dibenzofuran	U		24	39	µg/Kg-dry	1	1/20/2022 20:17
Diethyl phthalate	U		31	39	µg/Kg-dry	1	1/20/2022 20:17
Dimethyl phthalate	U		30	39	µg/Kg-dry	1	1/20/2022 20:17
Di-n-butyl phthalate	U		24	39	µg/Kg-dry	1	1/20/2022 20:17
Di-n-octyl phthalate	U		34	39	µg/Kg-dry	1	1/20/2022 20:17
Fluoranthene	**250**		**3.7**	**7.8**	**µg/Kg-dry**	1	1/20/2022 20:17
Fluorene	**25**		**5.7**	**7.8**	**µg/Kg-dry**	1	1/20/2022 20:17
Hexachlorobenzene	U		24	39	µg/Kg-dry	1	1/20/2022 20:17
Hexachlorobutadiene	U		30	39	µg/Kg-dry	1	1/20/2022 20:17

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-04-B01 (10-15)
Collection Date: 1/12/2022 11:25 AM

Work Order: 22010880
Lab ID: 22010880-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorocyclopentadiene	U		37	39	µg/Kg-dry	1	1/20/2022 20:17
Hexachloroethane	U		16	39	µg/Kg-dry	1	1/20/2022 20:17
Indeno(1,2,3-cd)pyrene	**48**		**5.4**	**7.8**	**µg/Kg-dry**	1	1/20/2022 20:17
Isophorone	U		28	200	µg/Kg-dry	1	1/20/2022 20:17
Naphthalene	**12**		**5.0**	**7.8**	**µg/Kg-dry**	1	1/20/2022 20:17
Nitrobenzene	U		29	200	µg/Kg-dry	1	1/20/2022 20:17
N-Nitrosodi-n-propylamine	U		38	39	µg/Kg-dry	1	1/20/2022 20:17
N-Nitrosodiphenylamine	U		22	39	µg/Kg-dry	1	1/20/2022 20:17
Pentachlorophenol	U		31	39	µg/Kg-dry	1	1/20/2022 20:17
Phenanthrene	**220**		**3.6**	**7.8**	**µg/Kg-dry**	1	1/20/2022 20:17
Phenol	U		20	39	µg/Kg-dry	1	1/20/2022 20:17
Pyrene	**180**		**7.4**	**7.8**	**µg/Kg-dry**	1	1/20/2022 20:17
Surr: 2,4,6-Tribromophenol	*61.7*			*38-92*	*%REC*	1	1/20/2022 20:17
Surr: 2-Fluorobiphenyl	*67.5*			*44-107*	*%REC*	1	1/20/2022 20:17
Surr: 2-Fluorophenol	*76.1*			*37-109*	*%REC*	1	1/20/2022 20:17
Surr: 4-Terphenyl-d14	*60.7*			*52-123*	*%REC*	1	1/20/2022 20:17
Surr: Nitrobenzene-d5	*69.3*			*41-94*	*%REC*	1	1/20/2022 20:17
Surr: Phenol-d6	*72.2*			*28-111*	*%REC*	1	1/20/2022 20:17
VOLATILE ORGANIC COMPOUNDS - LOW LEVEL		Method: **SW8260C**					Analyst: **MF**
1,1,1-Trichloroethane	U		0.70	4.5	µg/Kg-dry	0.744	1/20/2022 13:40
1,1,2,2-Tetrachloroethane	U		0.57	4.5	µg/Kg-dry	0.744	1/20/2022 13:40
1,1,2-Trichloroethane	U		0.60	4.5	µg/Kg-dry	0.744	1/20/2022 13:40
1,1-Dichloroethane	U		0.55	4.5	µg/Kg-dry	0.744	1/20/2022 13:40
1,1-Dichloroethene	U		0.87	4.5	µg/Kg-dry	0.744	1/20/2022 13:40
1,2-Dichloroethane	U		0.50	4.5	µg/Kg-dry	0.744	1/20/2022 13:40
1,2-Dichloropropane	U		0.39	4.5	µg/Kg-dry	0.744	1/20/2022 13:40
2-Butanone	U		4.5	8.9	µg/Kg-dry	0.744	1/20/2022 13:40
2-Hexanone	U		1.6	4.5	µg/Kg-dry	0.744	1/20/2022 13:40
4-Methyl-2-pentanone	U		1.6	4.5	µg/Kg-dry	0.744	1/20/2022 13:40
Acetone	**27**		**4.1**	**8.9**	**µg/Kg-dry**	0.744	1/20/2022 13:40
Benzene	**0.65**	J	**0.46**	**4.5**	**µg/Kg-dry**	0.744	1/20/2022 13:40
Bromodichloromethane	U		0.53	4.5	µg/Kg-dry	0.744	1/20/2022 13:40
Bromoform	U		0.45	4.5	µg/Kg-dry	0.744	1/20/2022 13:40
Bromomethane	U		2.2	8.9	µg/Kg-dry	0.744	1/20/2022 13:40
Carbon disulfide	U		0.53	4.5	µg/Kg-dry	0.744	1/20/2022 13:40
Carbon tetrachloride	U		0.89	4.5	µg/Kg-dry	0.744	1/20/2022 13:40
Chlorobenzene	U		0.56	4.5	µg/Kg-dry	0.744	1/20/2022 13:40
Chloroethane	U		1.7	4.5	µg/Kg-dry	0.744	1/20/2022 13:40
Chloroform	U		0.73	4.5	µg/Kg-dry	0.744	1/20/2022 13:40

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-04-B01 (10-15)
Collection Date: 1/12/2022 11:25 AM

Work Order: 22010880
Lab ID: 22010880-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.89	8.9	µg/Kg-dry	0.744	1/20/2022 13:40
cis-1,2-Dichloroethene	U		0.48	4.5	µg/Kg-dry	0.744	1/20/2022 13:40
cis-1,3-Dichloropropene	U		0.53	4.5	µg/Kg-dry	0.744	1/20/2022 13:40
Dibromochloromethane	U		0.45	4.5	µg/Kg-dry	0.744	1/20/2022 13:40
Ethylbenzene	U		0.78	4.5	µg/Kg-dry	0.744	1/20/2022 13:40
Methyl tert-butyl ether	U		0.54	4.5	µg/Kg-dry	0.744	1/20/2022 13:40
Methylene chloride	U		5.5	8.9	µg/Kg-dry	0.744	1/20/2022 13:40
Styrene	U		0.67	4.5	µg/Kg-dry	0.744	1/20/2022 13:40
Tetrachloroethene	U		0.79	4.5	µg/Kg-dry	0.744	1/20/2022 13:40
Toluene	U		0.77	4.5	µg/Kg-dry	0.744	1/20/2022 13:40
trans-1,2-Dichloroethene	U		0.45	4.5	µg/Kg-dry	0.744	1/20/2022 13:40
trans-1,3-Dichloropropene	U		0.43	4.5	µg/Kg-dry	0.744	1/20/2022 13:40
Trichloroethene	U		0.64	4.5	µg/Kg-dry	0.744	1/20/2022 13:40
Vinyl acetate	U		3.0	18	µg/Kg-dry	0.744	1/20/2022 13:40
Vinyl chloride	U		0.62	4.5	µg/Kg-dry	0.744	1/20/2022 13:40
1,3-Dichloropropene, Total	U		0.53	13	µg/Kg-dry	0.744	1/20/2022 13:40
Xylenes, Total	U		2.0	4.5	µg/Kg-dry	0.744	1/20/2022 13:40
Surr: 1,2-Dichloroethane-d4	*121*			*83-132*	*%REC*	0.744	1/20/2022 13:40
Surr: 4-Bromofluorobenzene	*99.3*			*83-111*	*%REC*	0.744	1/20/2022 13:40
Surr: Dibromofluoromethane	*105*			*77-125*	*%REC*	0.744	1/20/2022 13:40
Surr: Toluene-d8	*96.1*			*86-108*	*%REC*	0.744	1/20/2022 13:40
MOISTURE		Method: **SW3550C**					Analyst: **ALG**
Moisture	**17**		**0.10**	**0.10**	**% of sample**	1	1/18/2022 12:07
SOIL PH MEASURED IN WATER AT NOTED TEMP.		Method: **SW9045D**			Prep: SW9045D / 1/18/22		Analyst: **KNC**
pH	**7.66**		**0.10**	**0.10**	**s.u.**	1	1/19/2022 08:48
Temperature	**20.9**		**0.10**	**0.10**	**°C**	1	1/19/2022 08:48

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-04-B01 (15-21)
Collection Date: 1/12/2022 11:40 AM

Work Order: 22010880
Lab ID: 22010880-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 1/19/22		Analyst: **EJC**
Mercury	**0.028**		**0.016**	**0.023**	**mg/Kg-dry**	1	1/19/2022 16:23
METALS BY ICP-MS		Method: **SW6020B**			Prep: SW3050B / 1/17/22		Analyst: **STP**
Antimony	**0.36**	J	**0.12**	**0.46**	**mg/Kg-dry**	1	1/18/2022 23:15
Arsenic	**10**		**0.055**	**0.46**	**mg/Kg-dry**	1	1/18/2022 23:15
Barium	**42**		**0.42**	**0.46**	**mg/Kg-dry**	1	1/18/2022 23:15
Beryllium	**0.44**		**0.031**	**0.18**	**mg/Kg-dry**	1	1/18/2022 23:15
Boron	**8.7**		**1.7**	**1.8**	**mg/Kg-dry**	1	1/18/2022 23:15
Cadmium	U		0.027	0.18	mg/Kg-dry	1	1/18/2022 23:15
Calcium	**61,000**		**220**	**460**	**mg/Kg-dry**	10	1/19/2022 14:08
Chromium	**13**		**0.20**	**0.46**	**mg/Kg-dry**	1	1/18/2022 23:15
Cobalt	**11**		**0.075**	**0.46**	**mg/Kg-dry**	1	1/18/2022 23:15
Copper	**25**		**4.6**	**4.6**	**mg/Kg-dry**	10	1/19/2022 14:08
Iron	**23,000**		**150**	**180**	**mg/Kg-dry**	10	1/19/2022 14:08
Lead	**15**		**0.22**	**0.46**	**mg/Kg-dry**	1	1/18/2022 23:15
Magnesium	**35,000**		**130**	**180**	**mg/Kg-dry**	10	1/19/2022 14:08
Manganese	**420**		**3.8**	**4.6**	**mg/Kg-dry**	10	1/19/2022 14:08
Nickel	**29**		**2.4**	**4.6**	**mg/Kg-dry**	10	1/19/2022 14:08
Potassium	**1,500**		**7.6**	**18**	**mg/Kg-dry**	1	1/18/2022 23:15
Selenium	U		0.42	0.46	mg/Kg-dry	1	1/18/2022 23:15
Silver	U		0.060	0.46	mg/Kg-dry	1	1/18/2022 23:15
Sodium	**930**		**24**	**27**	**mg/Kg-dry**	1	1/18/2022 23:15
Thallium	**0.46**		**0.071**	**0.46**	**mg/Kg-dry**	1	1/18/2022 23:15
Vanadium	**16**		**0.12**	**0.46**	**mg/Kg-dry**	1	1/18/2022 23:15
Zinc	**45**		**0.89**	**0.91**	**mg/Kg-dry**	1	1/18/2022 23:15
SEMI-VOLATILE ORGANIC COMPOUNDS		Method: **SW846 8270D**			Prep: SW3546 / 1/19/22		Analyst: **EEW**
1,2,4-Trichlorobenzene	U		100	190	µg/Kg-dry	5	1/20/2022 20:41
1,2-Dichlorobenzene	U		130	190	µg/Kg-dry	5	1/20/2022 20:41
1,3-Dichlorobenzene	U		130	190	µg/Kg-dry	5	1/20/2022 20:41
1,4-Dichlorobenzene	U		120	190	µg/Kg-dry	5	1/20/2022 20:41
2,2`-Oxybis(1-chloropropane)	U		130	190	µg/Kg-dry	5	1/20/2022 20:41
2,4,5-Trichlorophenol	U		120	190	µg/Kg-dry	5	1/20/2022 20:41
2,4,6-Trichlorophenol	U		52	190	µg/Kg-dry	5	1/20/2022 20:41
2,4-Dichlorophenol	U		110	190	µg/Kg-dry	5	1/20/2022 20:41
2,4-Dimethylphenol	U		100	190	µg/Kg-dry	5	1/20/2022 20:41
2,4-Dinitrophenol	U		350	3,900	µg/Kg-dry	5	1/20/2022 20:41
2,4-Dinitrotoluene	U		130	190	µg/Kg-dry	5	1/20/2022 20:41
2,6-Dinitrotoluene	U		130	190	µg/Kg-dry	5	1/20/2022 20:41

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-04-B01 (15-21)
Collection Date: 1/12/2022 11:40 AM

Work Order: 22010880
Lab ID: 22010880-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2-Chloronaphthalene	U		27	39	µg/Kg-dry	5	1/20/2022 20:41
2-Chlorophenol	U		130	190	µg/Kg-dry	5	1/20/2022 20:41
2-Methylnaphthalene	U		20	39	µg/Kg-dry	5	1/20/2022 20:41
2-Methylphenol	U		120	190	µg/Kg-dry	5	1/20/2022 20:41
2-Nitroaniline	U		110	190	µg/Kg-dry	5	1/20/2022 20:41
2-Nitrophenol	U		120	190	µg/Kg-dry	5	1/20/2022 20:41
3&4-Methylphenol	U		110	190	µg/Kg-dry	5	1/20/2022 20:41
3,3´-Dichlorobenzidine	U		91	980	µg/Kg-dry	5	1/20/2022 20:41
3-Nitroaniline	U		110	190	µg/Kg-dry	5	1/20/2022 20:41
4,6-Dinitro-2-methylphenol	U		160	190	µg/Kg-dry	5	1/20/2022 20:41
4-Bromophenyl phenyl ether	U		110	190	µg/Kg-dry	5	1/20/2022 20:41
4-Chloro-3-methylphenol	U		140	190	µg/Kg-dry	5	1/20/2022 20:41
4-Chloroaniline	U		100	390	µg/Kg-dry	5	1/20/2022 20:41
4-Chlorophenyl phenyl ether	U		130	190	µg/Kg-dry	5	1/20/2022 20:41
4-Nitroaniline	U		300	980	µg/Kg-dry	5	1/20/2022 20:41
4-Nitrophenol	U		95	980	µg/Kg-dry	5	1/20/2022 20:41
Acenaphthene	U		28	39	µg/Kg-dry	5	1/20/2022 20:41
Acenaphthylene	U		25	39	µg/Kg-dry	5	1/20/2022 20:41
Anthracene	U		28	39	µg/Kg-dry	5	1/20/2022 20:41
Benzo(a)anthracene	**39**	J	**34**	**39**	**µg/Kg-dry**	5	1/20/2022 20:41
Benzo(a)pyrene	**43**		**24**	**39**	**µg/Kg-dry**	5	1/20/2022 20:41
Benzo(b)fluoranthene	**59**		**29**	**39**	**µg/Kg-dry**	5	1/20/2022 20:41
Benzo(g,h,i)perylene	**35**	J	**30**	**39**	**µg/Kg-dry**	5	1/20/2022 20:41
Benzo(k)fluoranthene	U		30	39	µg/Kg-dry	5	1/20/2022 20:41
Bis(2-chloroethoxy)methane	U		120	190	µg/Kg-dry	5	1/20/2022 20:41
Bis(2-chloroethyl)ether	U		140	190	µg/Kg-dry	5	1/20/2022 20:41
Bis(2-ethylhexyl)phthalate	U		160	190	µg/Kg-dry	5	1/20/2022 20:41
Butyl benzyl phthalate	U		250	390	µg/Kg-dry	5	1/20/2022 20:41
Carbazole	U		140	190	µg/Kg-dry	5	1/20/2022 20:41
Chrysene	**39**	J	**32**	**39**	**µg/Kg-dry**	5	1/20/2022 20:41
Dibenzo(a,h)anthracene	U		21	39	µg/Kg-dry	5	1/20/2022 20:41
Dibenzofuran	U		120	190	µg/Kg-dry	5	1/20/2022 20:41
Diethyl phthalate	U		150	190	µg/Kg-dry	5	1/20/2022 20:41
Dimethyl phthalate	U		150	190	µg/Kg-dry	5	1/20/2022 20:41
Di-n-butyl phthalate	U		120	190	µg/Kg-dry	5	1/20/2022 20:41
Di-n-octyl phthalate	U		170	190	µg/Kg-dry	5	1/20/2022 20:41
Fluoranthene	**82**		**19**	**39**	**µg/Kg-dry**	5	1/20/2022 20:41
Fluorene	U		28	39	µg/Kg-dry	5	1/20/2022 20:41
Hexachlorobenzene	U		120	190	µg/Kg-dry	5	1/20/2022 20:41
Hexachlorobutadiene	U		150	190	µg/Kg-dry	5	1/20/2022 20:41

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-04-B01 (15-21)
Collection Date: 1/12/2022 11:40 AM

Work Order: 22010880
Lab ID: 22010880-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorocyclopentadiene	U		190	190	µg/Kg-dry	5	1/20/2022 20:41
Hexachloroethane	U		81	190	µg/Kg-dry	5	1/20/2022 20:41
Indeno(1,2,3-cd)pyrene	**39**	J	**27**	**39**	**µg/Kg-dry**	5	1/20/2022 20:41
Isophorone	U		140	980	µg/Kg-dry	5	1/20/2022 20:41
Naphthalene	U		25	39	µg/Kg-dry	5	1/20/2022 20:41
Nitrobenzene	U		150	980	µg/Kg-dry	5	1/20/2022 20:41
N-Nitrosodi-n-propylamine	U		190	190	µg/Kg-dry	5	1/20/2022 20:41
N-Nitrosodiphenylamine	U		110	190	µg/Kg-dry	5	1/20/2022 20:41
Pentachlorophenol	U		160	190	µg/Kg-dry	5	1/20/2022 20:41
Phenanthrene	**43**		**18**	**39**	**µg/Kg-dry**	5	1/20/2022 20:41
Phenol	U		98	190	µg/Kg-dry	5	1/20/2022 20:41
Pyrene	**55**		**37**	**39**	**µg/Kg-dry**	5	1/20/2022 20:41
Surr: 2,4,6-Tribromophenol	*69.4*			*38-92*	*%REC*	5	1/20/2022 20:41
Surr: 2-Fluorobiphenyl	*73.2*			*44-107*	*%REC*	5	1/20/2022 20:41
Surr: 2-Fluorophenol	*73.4*			*37-109*	*%REC*	5	1/20/2022 20:41
Surr: 4-Terphenyl-d14	*76.6*			*52-123*	*%REC*	5	1/20/2022 20:41
Surr: Nitrobenzene-d5	*71.7*			*41-94*	*%REC*	5	1/20/2022 20:41
Surr: Phenol-d6	*73.0*			*28-111*	*%REC*	5	1/20/2022 20:41
VOLATILE ORGANIC COMPOUNDS - LOW LEVEL		Method: **SW8260C**					Analyst: **MF**
1,1,1-Trichloroethane	U		0.86	5.4	µg/Kg-dry	0.901	1/20/2022 13:58
1,1,2,2-Tetrachloroethane	U		0.69	5.4	µg/Kg-dry	0.901	1/20/2022 13:58
1,1,2-Trichloroethane	U		0.73	5.4	µg/Kg-dry	0.901	1/20/2022 13:58
1,1-Dichloroethane	U		0.67	5.4	µg/Kg-dry	0.901	1/20/2022 13:58
1,1-Dichloroethene	U		1.1	5.4	µg/Kg-dry	0.901	1/20/2022 13:58
1,2-Dichloroethane	U		0.61	5.4	µg/Kg-dry	0.901	1/20/2022 13:58
1,2-Dichloropropane	U		0.48	5.4	µg/Kg-dry	0.901	1/20/2022 13:58
2-Butanone	U		5.5	11	µg/Kg-dry	0.901	1/20/2022 13:58
2-Hexanone	U		1.9	5.4	µg/Kg-dry	0.901	1/20/2022 13:58
4-Methyl-2-pentanone	U		1.9	5.4	µg/Kg-dry	0.901	1/20/2022 13:58
Acetone	**14**		**5.0**	**11**	**µg/Kg-dry**	0.901	1/20/2022 13:58
Benzene	U		0.56	5.4	µg/Kg-dry	0.901	1/20/2022 13:58
Bromodichloromethane	U		0.65	5.4	µg/Kg-dry	0.901	1/20/2022 13:58
Bromoform	U		0.54	5.4	µg/Kg-dry	0.901	1/20/2022 13:58
Bromomethane	U		2.7	11	µg/Kg-dry	0.901	1/20/2022 13:58
Carbon disulfide	U		0.64	5.4	µg/Kg-dry	0.901	1/20/2022 13:58
Carbon tetrachloride	U		1.1	5.4	µg/Kg-dry	0.901	1/20/2022 13:58
Chlorobenzene	U		0.68	5.4	µg/Kg-dry	0.901	1/20/2022 13:58
Chloroethane	U		2.1	5.4	µg/Kg-dry	0.901	1/20/2022 13:58
Chloroform	U		0.89	5.4	µg/Kg-dry	0.901	1/20/2022 13:58

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-04-B01 (15-21)
Collection Date: 1/12/2022 11:40 AM

Work Order: 22010880
Lab ID: 22010880-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		1.1	11	µg/Kg-dry	0.901	1/20/2022 13:58
cis-1,2-Dichloroethene	U		0.58	5.4	µg/Kg-dry	0.901	1/20/2022 13:58
cis-1,3-Dichloropropene	U		0.65	5.4	µg/Kg-dry	0.901	1/20/2022 13:58
Dibromochloromethane	U		0.55	5.4	µg/Kg-dry	0.901	1/20/2022 13:58
Ethylbenzene	U		0.94	5.4	µg/Kg-dry	0.901	1/20/2022 13:58
Methyl tert-butyl ether	U		0.66	5.4	µg/Kg-dry	0.901	1/20/2022 13:58
Methylene chloride	U		6.7	11	µg/Kg-dry	0.901	1/20/2022 13:58
Styrene	U		0.81	5.4	µg/Kg-dry	0.901	1/20/2022 13:58
Tetrachloroethene	U		0.96	5.4	µg/Kg-dry	0.901	1/20/2022 13:58
Toluene	U		0.93	5.4	µg/Kg-dry	0.901	1/20/2022 13:58
trans-1,2-Dichloroethene	U		0.54	5.4	µg/Kg-dry	0.901	1/20/2022 13:58
trans-1,3-Dichloropropene	U		0.52	5.4	µg/Kg-dry	0.901	1/20/2022 13:58
Trichloroethene	U		0.78	5.4	µg/Kg-dry	0.901	1/20/2022 13:58
Vinyl acetate	U		3.7	22	µg/Kg-dry	0.901	1/20/2022 13:58
Vinyl chloride	U		0.76	5.4	µg/Kg-dry	0.901	1/20/2022 13:58
1,3-Dichloropropene, Total	U		0.65	16	µg/Kg-dry	0.901	1/20/2022 13:58
Xylenes, Total	U		2.4	5.4	µg/Kg-dry	0.901	1/20/2022 13:58
Surr: 1,2-Dichloroethane-d4	*118*			*83-132*	*%REC*	0.901	1/20/2022 13:58
Surr: 4-Bromofluorobenzene	*101*			*83-111*	*%REC*	0.901	1/20/2022 13:58
Surr: Dibromofluoromethane	*106*			*77-125*	*%REC*	0.901	1/20/2022 13:58
Surr: Toluene-d8	*91.7*			*86-108*	*%REC*	0.901	1/20/2022 13:58
MOISTURE		Method: **SW3550C**					Analyst: **ALG**
Moisture	**17**		**0.10**	**0.10**	**% of sample**	1	1/18/2022 12:07
SOIL PH MEASURED IN WATER AT NOTED TEMP.		Method: **SW9045D**			Prep: SW9045D / 1/18/22		Analyst: **KNC**
pH	**7.77**		**0.10**	**0.10**	**s.u.**	1	1/19/2022 08:48
Temperature	**21.0**		**0.10**	**0.10**	**°C**	1	1/19/2022 08:48

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *24-Jan-22*

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-04-B02 (0-3)
Collection Date: 1/12/2022 01:30 PM

Work Order: 22010880
Lab ID: 22010880-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 1/19/22		Analyst: **EJC**
Mercury	**0.031**		**0.014**	**0.020**	**mg/Kg-dry**	1	1/19/2022 16:38
METALS BY ICP-MS		Method: **SW6020B**			Prep: SW3050B / 1/17/22		Analyst: **STP**
Antimony	**0.39**	J	**0.11**	**0.41**	**mg/Kg-dry**	1	1/18/2022 23:31
Arsenic	**8.7**		**0.050**	**0.41**	**mg/Kg-dry**	1	1/18/2022 23:31
Barium	**61**		**0.38**	**0.41**	**mg/Kg-dry**	1	1/18/2022 23:31
Beryllium	**0.58**		**0.028**	**0.17**	**mg/Kg-dry**	1	1/18/2022 23:31
Boron	**7.7**		**1.6**	**1.7**	**mg/Kg-dry**	1	1/18/2022 23:31
Cadmium	**0.052**	J	**0.025**	**0.17**	**mg/Kg-dry**	1	1/18/2022 23:31
Calcium	**49,000**		**200**	**410**	**mg/Kg-dry**	10	1/19/2022 14:20
Chromium	**15**		**0.18**	**0.41**	**mg/Kg-dry**	1	1/18/2022 23:31
Cobalt	**11**		**0.068**	**0.41**	**mg/Kg-dry**	1	1/18/2022 23:31
Copper	**34**		**4.1**	**4.1**	**mg/Kg-dry**	10	1/19/2022 14:20
Iron	**29,000**		**130**	**170**	**mg/Kg-dry**	10	1/19/2022 14:20
Lead	**19**		**0.20**	**0.41**	**mg/Kg-dry**	1	1/18/2022 23:31
Magnesium	**30,000**		**120**	**170**	**mg/Kg-dry**	10	1/19/2022 14:20
Manganese	**530**		**3.5**	**4.1**	**mg/Kg-dry**	10	1/19/2022 14:20
Nickel	**36**		**2.2**	**4.1**	**mg/Kg-dry**	10	1/19/2022 14:20
Potassium	**1,500**		**7.0**	**17**	**mg/Kg-dry**	1	1/18/2022 23:31
Selenium	U		0.38	0.41	mg/Kg-dry	1	1/18/2022 23:31
Silver	U		0.055	0.41	mg/Kg-dry	1	1/18/2022 23:31
Sodium	**970**		**22**	**25**	**mg/Kg-dry**	1	1/18/2022 23:31
Thallium	**0.50**		**0.065**	**0.41**	**mg/Kg-dry**	1	1/18/2022 23:31
Vanadium	**21**		**0.11**	**0.41**	**mg/Kg-dry**	1	1/18/2022 23:31
Zinc	**48**		**0.81**	**0.83**	**mg/Kg-dry**	1	1/18/2022 23:31
SEMI-VOLATILE ORGANIC COMPOUNDS		Method: **SW846 8270D**			Prep: SW3546 / 1/21/22		Analyst: **EEW**
1,2,4-Trichlorobenzene	U		20	38	µg/Kg-dry	1	1/21/2022 17:53
1,2-Dichlorobenzene	U		25	38	µg/Kg-dry	1	1/21/2022 17:53
1,3-Dichlorobenzene	U		26	38	µg/Kg-dry	1	1/21/2022 17:53
1,4-Dichlorobenzene	U		24	38	µg/Kg-dry	1	1/21/2022 17:53
2,2`-Oxybis(1-chloropropane)	U		26	38	µg/Kg-dry	1	1/21/2022 17:53
2,4,5-Trichlorophenol	U		23	38	µg/Kg-dry	1	1/21/2022 17:53
2,4,6-Trichlorophenol	U		10	38	µg/Kg-dry	1	1/21/2022 17:53
2,4-Dichlorophenol	U		21	38	µg/Kg-dry	1	1/21/2022 17:53
2,4-Dimethylphenol	U		20	38	µg/Kg-dry	1	1/21/2022 17:53
2,4-Dinitrophenol	U		68	770	µg/Kg-dry	1	1/21/2022 17:53
2,4-Dinitrotoluene	U		25	38	µg/Kg-dry	1	1/21/2022 17:53
2,6-Dinitrotoluene	U		25	38	µg/Kg-dry	1	1/21/2022 17:53

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-04-B02 (0-3)
Collection Date: 1/12/2022 01:30 PM

Work Order: 22010880
Lab ID: 22010880-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2-Chloronaphthalene	U		5.4	7.7	µg/Kg-dry	1	1/21/2022 17:53
2-Chlorophenol	U		26	38	µg/Kg-dry	1	1/21/2022 17:53
2-Methylnaphthalene	U		3.9	7.7	µg/Kg-dry	1	1/21/2022 17:53
2-Methylphenol	U		24	38	µg/Kg-dry	1	1/21/2022 17:53
2-Nitroaniline	U		21	38	µg/Kg-dry	1	1/21/2022 17:53
2-Nitrophenol	U		24	38	µg/Kg-dry	1	1/21/2022 17:53
3&4-Methylphenol	U		21	38	µg/Kg-dry	1	1/21/2022 17:53
3,3´-Dichlorobenzidine	U		18	190	µg/Kg-dry	1	1/21/2022 17:53
3-Nitroaniline	U		22	38	µg/Kg-dry	1	1/21/2022 17:53
4,6-Dinitro-2-methylphenol	U		32	38	µg/Kg-dry	1	1/21/2022 17:53
4-Bromophenyl phenyl ether	U		21	38	µg/Kg-dry	1	1/21/2022 17:53
4-Chloro-3-methylphenol	U		28	38	µg/Kg-dry	1	1/21/2022 17:53
4-Chloroaniline	U		19	77	µg/Kg-dry	1	1/21/2022 17:53
4-Chlorophenyl phenyl ether	U		25	38	µg/Kg-dry	1	1/21/2022 17:53
4-Nitroaniline	U		60	190	µg/Kg-dry	1	1/21/2022 17:53
4-Nitrophenol	U		19	190	µg/Kg-dry	1	1/21/2022 17:53
Acenaphthene	**6.1**	J	**5.5**	**7.7**	**µg/Kg-dry**	1	1/21/2022 17:53
Acenaphthylene	U		5.0	7.7	µg/Kg-dry	1	1/21/2022 17:53
Anthracene	**18**		**5.4**	**7.7**	**µg/Kg-dry**	1	1/21/2022 17:53
Benzo(a)anthracene	**35**		**6.6**	**7.7**	**µg/Kg-dry**	1	1/21/2022 17:53
Benzo(a)pyrene	**26**		**4.7**	**7.7**	**µg/Kg-dry**	1	1/21/2022 17:53
Benzo(b)fluoranthene	**38**		**5.7**	**7.7**	**µg/Kg-dry**	1	1/21/2022 17:53
Benzo(g,h,i)perylene	**21**		**5.9**	**7.7**	**µg/Kg-dry**	1	1/21/2022 17:53
Benzo(k)fluoranthene	**18**		**5.8**	**7.7**	**µg/Kg-dry**	1	1/21/2022 17:53
Bis(2-chloroethoxy)methane	U		24	38	µg/Kg-dry	1	1/21/2022 17:53
Bis(2-chloroethyl)ether	U		27	38	µg/Kg-dry	1	1/21/2022 17:53
Bis(2-ethylhexyl)phthalate	U		32	38	µg/Kg-dry	1	1/21/2022 17:53
Butyl benzyl phthalate	U		48	77	µg/Kg-dry	1	1/21/2022 17:53
Carbazole	U		28	38	µg/Kg-dry	1	1/21/2022 17:53
Chrysene	**36**		**6.2**	**7.7**	**µg/Kg-dry**	1	1/21/2022 17:53
Dibenzo(a,h)anthracene	U		4.1	7.7	µg/Kg-dry	1	1/21/2022 17:53
Dibenzofuran	U		24	38	µg/Kg-dry	1	1/21/2022 17:53
Diethyl phthalate	U		30	38	µg/Kg-dry	1	1/21/2022 17:53
Dimethyl phthalate	U		29	38	µg/Kg-dry	1	1/21/2022 17:53
Di-n-butyl phthalate	U		24	38	µg/Kg-dry	1	1/21/2022 17:53
Di-n-octyl phthalate	U		33	38	µg/Kg-dry	1	1/21/2022 17:53
Fluoranthene	**89**		**3.7**	**7.7**	**µg/Kg-dry**	1	1/21/2022 17:53
Fluorene	**11**		**5.6**	**7.7**	**µg/Kg-dry**	1	1/21/2022 17:53
Hexachlorobenzene	U		24	38	µg/Kg-dry	1	1/21/2022 17:53
Hexachlorobutadiene	U		30	38	µg/Kg-dry	1	1/21/2022 17:53

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-04-B02 (0-3)
Collection Date: 1/12/2022 01:30 PM

Work Order: 22010880
Lab ID: 22010880-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorocyclopentadiene	U		36	38	µg/Kg-dry	1	1/21/2022 17:53
Hexachloroethane	U		16	38	µg/Kg-dry	1	1/21/2022 17:53
Indeno(1,2,3-cd)pyrene	**18**		**5.3**	**7.7**	**µg/Kg-dry**	1	1/21/2022 17:53
Isophorone	U		27	190	µg/Kg-dry	1	1/21/2022 17:53
Naphthalene	U		4.9	7.7	µg/Kg-dry	1	1/21/2022 17:53
Nitrobenzene	U		29	190	µg/Kg-dry	1	1/21/2022 17:53
N-Nitrosodi-n-propylamine	U		37	38	µg/Kg-dry	1	1/21/2022 17:53
N-Nitrosodiphenylamine	U		22	38	µg/Kg-dry	1	1/21/2022 17:53
Pentachlorophenol	U		30	38	µg/Kg-dry	1	1/21/2022 17:53
Phenanthrene	**110**		**3.6**	**7.7**	**µg/Kg-dry**	1	1/21/2022 17:53
Phenol	U		19	38	µg/Kg-dry	1	1/21/2022 17:53
Pyrene	**84**		**7.3**	**7.7**	**µg/Kg-dry**	1	1/21/2022 17:53
Surr: 2,4,6-Tribromophenol	*49.5*			*38-92*	*%REC*	1	1/21/2022 17:53
Surr: 2-Fluorobiphenyl	*64.2*			*44-107*	*%REC*	1	1/21/2022 17:53
Surr: 2-Fluorophenol	*61.1*			*37-109*	*%REC*	1	1/21/2022 17:53
Surr: 4-Terphenyl-d14	*68.6*			*52-123*	*%REC*	1	1/21/2022 17:53
Surr: Nitrobenzene-d5	*69.2*			*41-94*	*%REC*	1	1/21/2022 17:53
Surr: Phenol-d6	*63.4*			*28-111*	*%REC*	1	1/21/2022 17:53
VOLATILE ORGANIC COMPOUNDS - LOW LEVEL		Method: **SW8260C**					Analyst: **MF**
1,1,1-Trichloroethane	U		0.78	4.9	µg/Kg-dry	0.855	1/20/2022 14:53
1,1,2,2-Tetrachloroethane	U		0.63	4.9	µg/Kg-dry	0.855	1/20/2022 14:53
1,1,2-Trichloroethane	U		0.66	4.9	µg/Kg-dry	0.855	1/20/2022 14:53
1,1-Dichloroethane	U		0.61	4.9	µg/Kg-dry	0.855	1/20/2022 14:53
1,1-Dichloroethene	U		0.97	4.9	µg/Kg-dry	0.855	1/20/2022 14:53
1,2-Dichloroethane	U		0.55	4.9	µg/Kg-dry	0.855	1/20/2022 14:53
1,2-Dichloropropane	U		0.44	4.9	µg/Kg-dry	0.855	1/20/2022 14:53
2-Butanone	U		5.0	9.9	µg/Kg-dry	0.855	1/20/2022 14:53
2-Hexanone	U		1.8	4.9	µg/Kg-dry	0.855	1/20/2022 14:53
4-Methyl-2-pentanone	U		1.8	4.9	µg/Kg-dry	0.855	1/20/2022 14:53
Acetone	U		4.6	9.9	µg/Kg-dry	0.855	1/20/2022 14:53
Benzene	U		0.51	4.9	µg/Kg-dry	0.855	1/20/2022 14:53
Bromodichloromethane	U		0.59	4.9	µg/Kg-dry	0.855	1/20/2022 14:53
Bromoform	U		0.49	4.9	µg/Kg-dry	0.855	1/20/2022 14:53
Bromomethane	U		2.5	9.9	µg/Kg-dry	0.855	1/20/2022 14:53
Carbon disulfide	U		0.58	4.9	µg/Kg-dry	0.855	1/20/2022 14:53
Carbon tetrachloride	U		0.99	4.9	µg/Kg-dry	0.855	1/20/2022 14:53
Chlorobenzene	U		0.62	4.9	µg/Kg-dry	0.855	1/20/2022 14:53
Chloroethane	U		1.9	4.9	µg/Kg-dry	0.855	1/20/2022 14:53
Chloroform	U		0.81	4.9	µg/Kg-dry	0.855	1/20/2022 14:53

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-04-B02 (0-3)
Collection Date: 1/12/2022 01:30 PM

Work Order: 22010880
Lab ID: 22010880-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.99	9.9	µg/Kg-dry	0.855	1/20/2022 14:53
cis-1,2-Dichloroethene	U		0.53	4.9	µg/Kg-dry	0.855	1/20/2022 14:53
cis-1,3-Dichloropropene	U		0.59	4.9	µg/Kg-dry	0.855	1/20/2022 14:53
Dibromochloromethane	U		0.50	4.9	µg/Kg-dry	0.855	1/20/2022 14:53
Ethylbenzene	U		0.86	4.9	µg/Kg-dry	0.855	1/20/2022 14:53
Methyl tert-butyl ether	U		0.60	4.9	µg/Kg-dry	0.855	1/20/2022 14:53
Methylene chloride	U		6.1	9.9	µg/Kg-dry	0.855	1/20/2022 14:53
Styrene	U		0.74	4.9	µg/Kg-dry	0.855	1/20/2022 14:53
Tetrachloroethene	U		0.88	4.9	µg/Kg-dry	0.855	1/20/2022 14:53
Toluene	U		0.85	4.9	µg/Kg-dry	0.855	1/20/2022 14:53
trans-1,2-Dichloroethene	U		0.49	4.9	µg/Kg-dry	0.855	1/20/2022 14:53
trans-1,3-Dichloropropene	U		0.48	4.9	µg/Kg-dry	0.855	1/20/2022 14:53
Trichloroethene	U		0.71	4.9	µg/Kg-dry	0.855	1/20/2022 14:53
Vinyl acetate	U		3.4	20	µg/Kg-dry	0.855	1/20/2022 14:53
Vinyl chloride	U		0.69	4.9	µg/Kg-dry	0.855	1/20/2022 14:53
1,3-Dichloropropene, Total	U		0.59	15	µg/Kg-dry	0.855	1/20/2022 14:53
Xylenes, Total	U		2.2	4.9	µg/Kg-dry	0.855	1/20/2022 14:53
Surr: 1,2-Dichloroethane-d4	*87.1*			*83-132*	*%REC*	0.855	1/20/2022 14:53
Surr: 4-Bromofluorobenzene	*93.1*			*83-111*	*%REC*	0.855	1/20/2022 14:53
Surr: Dibromofluoromethane	*96.7*			*77-125*	*%REC*	0.855	1/20/2022 14:53
Surr: Toluene-d8	*99.9*			*86-108*	*%REC*	0.855	1/20/2022 14:53
MOISTURE		Method: **SW3550C**					Analyst: **ALG**
Moisture	**14**		**0.10**	**0.10**	**% of sample**	1	1/18/2022 12:07
SOIL PH MEASURED IN WATER AT NOTED TEMP.		Method: **SW9045D**			Prep: SW9045D / 1/18/22		Analyst: **KNC**
pH	**8.19**		**0.10**	**0.10**	**s.u.**	1	1/19/2022 08:48
Temperature	**20.7**		**0.10**	**0.10**	**°C**	1	1/19/2022 08:48

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *24-Jan-22*

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-04-B01 (0-5)
Collection Date: 1/12/2022 11:00 AM

Work Order: 22010880
Lab ID: 22010880-13
Matrix: TCLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY BY CVAA		Method:	**SW7470A**		Prep: SW7470 / 1/21/22		Analyst: **EJC**
Mercury	U		0.0016	0.0020	mg/L	1	1/21/2022 12:54
TCLP METALS ANALYSIS BY ICP-MS		Method:	**SW6020B**		Prep: SW3015A / 1/20/22		Analyst: **STP**
Antimony	U		0.020	0.050	mg/L	1	1/20/2022 18:41
Barium	**0.62**		**0.020**	**0.050**	**mg/L**	1	1/20/2022 18:41
Beryllium	U		0.0013	0.020	mg/L	1	1/20/2022 18:41
Boron	**0.17**	J	**0.16**	**0.20**	**mg/L**	1	1/20/2022 18:41
Cadmium	**0.0028**	J	**0.0015**	**0.020**	**mg/L**	1	1/20/2022 18:41
Chromium	U		0.012	0.050	mg/L	1	1/20/2022 18:41
Cobalt	**0.095**		**0.0013**	**0.050**	**mg/L**	1	1/20/2022 18:41
Iron	**0.54**	J	**0.50**	**0.80**	**mg/L**	1	1/20/2022 18:41
Lead	**0.0087**	J	**0.0072**	**0.050**	**mg/L**	1	1/20/2022 18:41
Manganese	**13**		**0.025**	**0.050**	**mg/L**	1	1/20/2022 18:41
Nickel	**0.099**		**0.0090**	**0.050**	**mg/L**	1	1/20/2022 18:41
Selenium	U		0.0048	0.050	mg/L	1	1/20/2022 18:41
Silver	U		0.0084	0.050	mg/L	1	1/20/2022 18:41
Thallium	U		0.0015	0.050	mg/L	1	1/20/2022 18:41
Zinc	**0.12**		**0.047**	**0.10**	**mg/L**	1	1/20/2022 18:41

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *24-Jan-22*

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-04-B01 (5-10)
Collection Date: 1/12/2022 11:20 AM

Work Order: 22010880
Lab ID: 22010880-14
Matrix: TCLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY BY CVAA		Method:	**SW7470A**		Prep: SW7470 / 1/21/22		Analyst: **EJC**
Mercury	U		0.0016	0.0020	mg/L	1	1/21/2022 13:04
TCLP METALS ANALYSIS BY ICP-MS		Method:	**SW6020B**		Prep: SW3015A / 1/20/22		Analyst: **STP**
Antimony	U		0.020	0.050	mg/L	1	1/20/2022 18:46
Barium	**0.64**		**0.020**	**0.050**	**mg/L**	1	1/20/2022 18:46
Beryllium	U		0.0013	0.020	mg/L	1	1/20/2022 18:46
Boron	**0.16**	J	**0.16**	**0.20**	**mg/L**	1	1/20/2022 18:46
Cadmium	**0.0016**	J	**0.0015**	**0.020**	**mg/L**	1	1/20/2022 18:46
Chromium	U		0.012	0.050	mg/L	1	1/20/2022 18:46
Cobalt	**0.013**	J	**0.0013**	**0.050**	**mg/L**	1	1/20/2022 18:46
Iron	U		0.50	0.80	mg/L	1	1/20/2022 18:46
Lead	U		0.0072	0.050	mg/L	1	1/20/2022 18:46
Manganese	**4.4**		**0.025**	**0.050**	**mg/L**	1	1/20/2022 18:46
Nickel	**0.018**	J	**0.0090**	**0.050**	**mg/L**	1	1/20/2022 18:46
Selenium	**0.0057**	J	**0.0048**	**0.050**	**mg/L**	1	1/20/2022 18:46
Silver	U		0.0084	0.050	mg/L	1	1/20/2022 18:46
Thallium	**0.0022**	J	**0.0015**	**0.050**	**mg/L**	1	1/20/2022 18:46
Zinc	U		0.047	0.10	mg/L	1	1/20/2022 18:46

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *24-Jan-22*

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-04-B01 (10-15)
Collection Date: 1/12/2022 11:25 AM

Work Order: 22010880
Lab ID: 22010880-15
Matrix: TCLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY BY CVAA		Method: **SW7470A**			Prep: SW7470 / 1/21/22		Analyst: **EJC**
Mercury	U		0.0016	0.0020	mg/L	1	1/21/2022 13:06
TCLP METALS ANALYSIS BY ICP-MS		Method: **SW6020B**			Prep: SW3015A / 1/20/22		Analyst: **STP**
Antimony	U		0.020	0.050	mg/L	1	1/20/2022 18:48
Barium	**0.63**		**0.020**	**0.050**	**mg/L**	1	1/20/2022 18:48
Beryllium	U		0.0013	0.020	mg/L	1	1/20/2022 18:48
Boron	U		0.16	0.20	mg/L	1	1/20/2022 18:48
Cadmium	U		0.0015	0.020	mg/L	1	1/20/2022 18:48
Chromium	U		0.012	0.050	mg/L	1	1/20/2022 18:48
Cobalt	**0.021**	J	**0.0013**	**0.050**	**mg/L**	1	1/20/2022 18:48
Iron	U		0.50	0.80	mg/L	1	1/20/2022 18:48
Lead	U		0.0072	0.050	mg/L	1	1/20/2022 18:48
Manganese	**6.2**		**0.025**	**0.050**	**mg/L**	1	1/20/2022 18:48
Nickel	**0.026**	J	**0.0090**	**0.050**	**mg/L**	1	1/20/2022 18:48
Selenium	U		0.0048	0.050	mg/L	1	1/20/2022 18:48
Silver	U		0.0084	0.050	mg/L	1	1/20/2022 18:48
Thallium	U		0.0015	0.050	mg/L	1	1/20/2022 18:48
Zinc	**0.081**	J	**0.047**	**0.10**	**mg/L**	1	1/20/2022 18:48

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *24-Jan-22*

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-04-B01 (15-21)
Collection Date: 1/12/2022 11:40 AM

Work Order: 22010880
Lab ID: 22010880-16
Matrix: TCLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY BY CVAA		Method: **SW7470A**			Prep: SW7470 / 1/21/22		Analyst: **EJC**
Mercury	U		0.0016	0.0020	mg/L	1	1/21/2022 13:08
TCLP METALS ANALYSIS BY ICP-MS		Method: **SW6020B**			Prep: SW3015A / 1/20/22		Analyst: **STP**
Antimony	U		0.020	0.050	mg/L	1	1/20/2022 18:49
Barium	**0.54**		**0.020**	**0.050**	**mg/L**	1	1/20/2022 18:49
Beryllium	U		0.0013	0.020	mg/L	1	1/20/2022 18:49
Boron	U		0.16	0.20	mg/L	1	1/20/2022 18:49
Cadmium	U		0.0015	0.020	mg/L	1	1/20/2022 18:49
Chromium	U		0.012	0.050	mg/L	1	1/20/2022 18:49
Cobalt	**0.019**	J	**0.0013**	**0.050**	**mg/L**	1	1/20/2022 18:49
Iron	U		0.50	0.80	mg/L	1	1/20/2022 18:49
Lead	U		0.0072	0.050	mg/L	1	1/20/2022 18:49
Manganese	**4.7**		**0.025**	**0.050**	**mg/L**	1	1/20/2022 18:49
Nickel	**0.021**	J	**0.0090**	**0.050**	**mg/L**	1	1/20/2022 18:49
Selenium	U		0.0048	0.050	mg/L	1	1/20/2022 18:49
Silver	U		0.0084	0.050	mg/L	1	1/20/2022 18:49
Thallium	U		0.0015	0.050	mg/L	1	1/20/2022 18:49
Zinc	U		0.047	0.10	mg/L	1	1/20/2022 18:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *24-Jan-22*

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-04-B02 (0-3)
Collection Date: 1/12/2022 01:30 PM

Work Order: 22010880
Lab ID: 22010880-21
Matrix: TCLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY BY CVAA		Method:	**SW7470A**		Prep: SW7470 / 1/21/22		Analyst: **EJC**
Mercury	U		0.0016	0.0020	mg/L	1	1/21/2022 13:17
TCLP METALS ANALYSIS BY ICP-MS		Method:	**SW6020B**		Prep: SW3015A / 1/20/22		Analyst: **STP**
Antimony	U		0.020	0.050	mg/L	1	1/20/2022 19:01
Barium	**0.55**		**0.020**	**0.050**	**mg/L**	1	1/20/2022 19:01
Beryllium	U		0.0013	0.020	mg/L	1	1/20/2022 19:01
Boron	**0.89**		**0.16**	**0.20**	**mg/L**	1	1/20/2022 19:01
Cadmium	**0.0027**	J	**0.0015**	**0.020**	**mg/L**	1	1/20/2022 19:01
Chromium	U		0.012	0.050	mg/L	1	1/20/2022 19:01
Cobalt	**0.080**		**0.0013**	**0.050**	**mg/L**	1	1/20/2022 19:01
Iron	U		0.50	0.80	mg/L	1	1/20/2022 19:01
Lead	U		0.0072	0.050	mg/L	1	1/20/2022 19:01
Manganese	**7.6**		**0.025**	**0.050**	**mg/L**	1	1/20/2022 19:01
Nickel	**0.082**		**0.0090**	**0.050**	**mg/L**	1	1/20/2022 19:01
Selenium	U		0.0048	0.050	mg/L	1	1/20/2022 19:01
Silver	U		0.0084	0.050	mg/L	1	1/20/2022 19:01
Thallium	U		0.0015	0.050	mg/L	1	1/20/2022 19:01
Zinc	U		0.047	0.10	mg/L	1	1/20/2022 19:01

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *24-Jan-22*

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: Trip Blank #1
Collection Date: 1/12/2022

Work Order: 22010880
Lab ID: 22010880-25
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS - LOW LEVEL	Method: **SW8260C**						Analyst: **MF**
1,1,1-Trichloroethane	U		0.79	5.0	µg/Kg	1	1/20/2022 12:46
1,1,2,2-Tetrachloroethane	U		0.64	5.0	µg/Kg	1	1/20/2022 12:46
1,1,2-Trichloroethane	U		0.67	5.0	µg/Kg	1	1/20/2022 12:46
1,1-Dichloroethane	U		0.62	5.0	µg/Kg	1	1/20/2022 12:46
1,1-Dichloroethene	U		0.98	5.0	µg/Kg	1	1/20/2022 12:46
1,2-Dichloroethane	U		0.56	5.0	µg/Kg	1	1/20/2022 12:46
1,2-Dichloropropane	U		0.44	5.0	µg/Kg	1	1/20/2022 12:46
2-Butanone	U		5.1	10	µg/Kg	1	1/20/2022 12:46
2-Hexanone	U		1.8	5.0	µg/Kg	1	1/20/2022 12:46
4-Methyl-2-pentanone	U		1.8	5.0	µg/Kg	1	1/20/2022 12:46
Acetone	U		4.6	10	µg/Kg	1	1/20/2022 12:46
Benzene	U		0.52	5.0	µg/Kg	1	1/20/2022 12:46
Bromodichloromethane	U		0.60	5.0	µg/Kg	1	1/20/2022 12:46
Bromoform	U		0.50	5.0	µg/Kg	1	1/20/2022 12:46
Bromomethane	U		2.5	10	µg/Kg	1	1/20/2022 12:46
Carbon disulfide	U		0.59	5.0	µg/Kg	1	1/20/2022 12:46
Carbon tetrachloride	U		1.0	5.0	µg/Kg	1	1/20/2022 12:46
Chlorobenzene	U		0.63	5.0	µg/Kg	1	1/20/2022 12:46
Chloroethane	U		1.9	5.0	µg/Kg	1	1/20/2022 12:46
Chloroform	U		0.82	5.0	µg/Kg	1	1/20/2022 12:46
Chloromethane	U		1.0	10	µg/Kg	1	1/20/2022 12:46
cis-1,2-Dichloroethene	U		0.54	5.0	µg/Kg	1	1/20/2022 12:46
cis-1,3-Dichloropropene	U		0.60	5.0	µg/Kg	1	1/20/2022 12:46
Dibromochloromethane	U		0.51	5.0	µg/Kg	1	1/20/2022 12:46
Ethylbenzene	U		0.87	5.0	µg/Kg	1	1/20/2022 12:46
Methyl tert-butyl ether	U		0.61	5.0	µg/Kg	1	1/20/2022 12:46
Methylene chloride	U		6.2	10	µg/Kg	1	1/20/2022 12:46
Styrene	U		0.75	5.0	µg/Kg	1	1/20/2022 12:46
Tetrachloroethene	U		0.89	5.0	µg/Kg	1	1/20/2022 12:46
Toluene	U		0.86	5.0	µg/Kg	1	1/20/2022 12:46
trans-1,2-Dichloroethene	U		0.50	5.0	µg/Kg	1	1/20/2022 12:46
trans-1,3-Dichloropropene	U		0.48	5.0	µg/Kg	1	1/20/2022 12:46
Trichloroethene	U		0.72	5.0	µg/Kg	1	1/20/2022 12:46
Vinyl acetate	U		3.4	20	µg/Kg	1	1/20/2022 12:46
Vinyl chloride	U		0.70	5.0	µg/Kg	1	1/20/2022 12:46
1,3-Dichloropropene, Total	U		0.60	15	µg/Kg	1	1/20/2022 12:46
Xylenes, Total	U		2.2	5.0	µg/Kg	1	1/20/2022 12:46
Surr: 1,2-Dichloroethane-d4	*109*			*83-132*	*%REC*	1	1/20/2022 12:46

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *24-Jan-22*

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: Trip Blank #1
Collection Date: 1/12/2022

Work Order: 22010880
Lab ID: 22010880-25
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 4-Bromofluorobenzene	*102*			*83-111*	*%REC*	1	1/20/2022 12:46
Surr: Dibromofluoromethane	*100*			*77-125*	*%REC*	1	1/20/2022 12:46
Surr: Toluene-d8	*95.8*			*86-108*	*%REC*	1	1/20/2022 12:46

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *24-Jan-22*

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: Trip Blank #2
Collection Date: 1/12/2022

Work Order: 22010880
Lab ID: 22010880-26
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS - LOW LEVEL	Method: **SW8260C**						Analyst: **MF**
1,1,1-Trichloroethane	U		0.79	5.0	µg/Kg	1	1/20/2022 13:04
1,1,2,2-Tetrachloroethane	U		0.64	5.0	µg/Kg	1	1/20/2022 13:04
1,1,2-Trichloroethane	U		0.67	5.0	µg/Kg	1	1/20/2022 13:04
1,1-Dichloroethane	U		0.62	5.0	µg/Kg	1	1/20/2022 13:04
1,1-Dichloroethene	U		0.98	5.0	µg/Kg	1	1/20/2022 13:04
1,2-Dichloroethane	U		0.56	5.0	µg/Kg	1	1/20/2022 13:04
1,2-Dichloropropane	U		0.44	5.0	µg/Kg	1	1/20/2022 13:04
2-Butanone	U		5.1	10	µg/Kg	1	1/20/2022 13:04
2-Hexanone	U		1.8	5.0	µg/Kg	1	1/20/2022 13:04
4-Methyl-2-pentanone	U		1.8	5.0	µg/Kg	1	1/20/2022 13:04
Acetone	U		4.6	10	µg/Kg	1	1/20/2022 13:04
Benzene	U		0.52	5.0	µg/Kg	1	1/20/2022 13:04
Bromodichloromethane	U		0.60	5.0	µg/Kg	1	1/20/2022 13:04
Bromoform	U		0.50	5.0	µg/Kg	1	1/20/2022 13:04
Bromomethane	U		2.5	10	µg/Kg	1	1/20/2022 13:04
Carbon disulfide	U		0.59	5.0	µg/Kg	1	1/20/2022 13:04
Carbon tetrachloride	U		1.0	5.0	µg/Kg	1	1/20/2022 13:04
Chlorobenzene	U		0.63	5.0	µg/Kg	1	1/20/2022 13:04
Chloroethane	U		1.9	5.0	µg/Kg	1	1/20/2022 13:04
Chloroform	U		0.82	5.0	µg/Kg	1	1/20/2022 13:04
Chloromethane	U		1.0	10	µg/Kg	1	1/20/2022 13:04
cis-1,2-Dichloroethene	U		0.54	5.0	µg/Kg	1	1/20/2022 13:04
cis-1,3-Dichloropropene	U		0.60	5.0	µg/Kg	1	1/20/2022 13:04
Dibromochloromethane	U		0.51	5.0	µg/Kg	1	1/20/2022 13:04
Ethylbenzene	U		0.87	5.0	µg/Kg	1	1/20/2022 13:04
Methyl tert-butyl ether	U		0.61	5.0	µg/Kg	1	1/20/2022 13:04
Methylene chloride	U		6.2	10	µg/Kg	1	1/20/2022 13:04
Styrene	U		0.75	5.0	µg/Kg	1	1/20/2022 13:04
Tetrachloroethene	U		0.89	5.0	µg/Kg	1	1/20/2022 13:04
Toluene	U		0.86	5.0	µg/Kg	1	1/20/2022 13:04
trans-1,2-Dichloroethene	U		0.50	5.0	µg/Kg	1	1/20/2022 13:04
trans-1,3-Dichloropropene	U		0.48	5.0	µg/Kg	1	1/20/2022 13:04
Trichloroethene	U		0.72	5.0	µg/Kg	1	1/20/2022 13:04
Vinyl acetate	U		3.4	20	µg/Kg	1	1/20/2022 13:04
Vinyl chloride	U		0.70	5.0	µg/Kg	1	1/20/2022 13:04
1,3-Dichloropropene, Total	U		0.60	15	µg/Kg	1	1/20/2022 13:04
Xylenes, Total	U		2.2	5.0	µg/Kg	1	1/20/2022 13:04
Surr: 1,2-Dichloroethane-d4	*102*			*83-132*	*%REC*	1	1/20/2022 13:04

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *24-Jan-22*

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: Trip Blank #2
Collection Date: 1/12/2022

Work Order: 22010880
Lab ID: 22010880-26
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 4-Bromofluorobenzene	*95.5*			*83-111*	*%REC*	1	1/20/2022 13:04
Surr: Dibromofluoromethane	*100*			*77-125*	*%REC*	1	1/20/2022 13:04
Surr: Toluene-d8	*93.9*			*86-108*	*%REC*	1	1/20/2022 13:04

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 24-Jan-22

Client: WSP USA Corp.

Work Order: 22010880

Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190556** Instrument ID **HG4** Method: **SW7471B**

MBLK Sample ID: **MBLK-190556-190556** Units: **mg/Kg** Analysis Date: **1/19/2022 03:50 PM**

Client ID: Run ID: **HG4_220119A** SeqNo: **8118554** Prep Date: **1/19/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.020								

LCS Sample ID: **LCS-190556-190556** Units: **mg/Kg** Analysis Date: **1/19/2022 03:52 PM**

Client ID: Run ID: **HG4_220119A** SeqNo: **8118555** Prep Date: **1/19/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1767	0.020	0.1665	0	106	80-120	0			

MS Sample ID: **22010913-06BMS** Units: **mg/Kg** Analysis Date: **1/19/2022 04:41 PM**

Client ID: Run ID: **HG4_220119A** SeqNo: **8118582** Prep Date: **1/19/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1727	0.019	0.1561	0.00456	108	75-125	0			

MSD Sample ID: **22010913-06BMSD** Units: **mg/Kg** Analysis Date: **1/19/2022 04:43 PM**

Client ID: Run ID: **HG4_220119A** SeqNo: **8118583** Prep Date: **1/19/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1749	0.019	0.1546	0.00456	110	75-125	0.1727	1.3	35	

The following samples were analyzed in this batch:

22010880-01B	22010880-02B	22010880-03B
22010880-04B	22010880-05B	22010880-06B
22010880-07B	22010880-08B	22010880-09B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190557** Instrument ID **HG4** Method: **SW7471B**

MBLK Sample ID: **MBLK-190557-190557** Units: **mg/Kg** Analysis Date: **1/19/2022 04:45 PM**
Client ID: Run ID: **HG4_220119A** SeqNo: **8118584** Prep Date: **1/19/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.020								

LCS Sample ID: **LCS-190557-190557** Units: **mg/Kg** Analysis Date: **1/19/2022 04:47 PM**
Client ID: Run ID: **HG4_220119A** SeqNo: **8118585** Prep Date: **1/19/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1775	0.020	0.1665	0	107	80-120	0			

MS Sample ID: **22011024-12AMS** Units: **mg/Kg** Analysis Date: **1/19/2022 05:26 PM**
Client ID: Run ID: **HG4_220119A** SeqNo: **8118607** Prep Date: **1/19/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1729	0.019	0.1556	0.004317	108	75-125	0			

MSD Sample ID: **22011024-12AMSD** Units: **mg/Kg** Analysis Date: **1/19/2022 05:28 PM**
Client ID: Run ID: **HG4_220119A** SeqNo: **8118608** Prep Date: **1/19/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1674	0.019	0.1556	0.004317	105	75-125	0.1729	3.2	35	

The following samples were analyzed in this batch: 22010880-10B 22010880-11B 22010880-12B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190688** Instrument ID **HG4** Method: **SW7470A**

MBLK Sample ID: **MBLK-190688-190688** Units: **mg/L** Analysis Date: **1/21/2022 12:40 PM**
Client ID: Run ID: **HG4_220121A** SeqNo: **8124558** Prep Date: **1/21/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00020								

LCS Sample ID: **LCS-190688-190688** Units: **mg/L** Analysis Date: **1/21/2022 12:41 PM**
Client ID: Run ID: **HG4_220121A** SeqNo: **8124559** Prep Date: **1/21/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.002025	0.00020	0.002	0	101	80-120	0			

MS Sample ID: **22010880-13AMS** Units: **mg/L** Analysis Date: **1/21/2022 01:01 PM**
Client ID: **3608-04-B01 (0-5)** Run ID: **HG4_220121A** SeqNo: **8124570** Prep Date: **1/21/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.02085	0.0020	0.02	0.00018	103	75-125	0			

MSD Sample ID: **22010880-13AMSD** Units: **mg/L** Analysis Date: **1/21/2022 01:03 PM**
Client ID: **3608-04-B01 (0-5)** Run ID: **HG4_220121A** SeqNo: **8124571** Prep Date: **1/21/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.0204	0.0020	0.02	0.00018	101	75-125	0.02085	2.18	20	

The following samples were analyzed in this batch:

22010880-13A	22010880-14A	22010880-15A
22010880-16A	22010880-17A	22010880-18A
22010880-19A	22010880-20A	22010880-21A
22010880-22A	22010880-23A	22010880-24A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190452** Instrument ID **ICPMS4** Method: **SW6020B**

MBLK	Sample ID: **MBLK-190452-190452**				Units: **mg/Kg**			Analysis Date: **1/18/2022 11:03 PM**		
Client ID:	Run ID: **ICPMS4_220118B**				SeqNo: **8115697**		Prep Date: **1/17/2022**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.25								
Arsenic	U	0.25								
Barium	U	0.25								
Beryllium	U	0.10								
Boron	U	1.0								
Cadmium	U	0.10								
Calcium	U	25								
Chromium	U	0.25								
Cobalt	U	0.25								
Copper	U	0.25								
Iron	U	10								
Lead	U	0.25								
Magnesium	U	10								
Manganese	U	0.25								
Nickel	U	0.25								
Potassium	U	10								
Selenium	U	0.25								
Silver	U	0.25								
Sodium	U	15								
Thallium	U	0.25								
Vanadium	U	0.25								
Zinc	U	0.50								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190452** Instrument ID **ICPMS4** Method: **SW6020B**

LCS	Sample ID: **LCS-190452-190452**				Units: **mg/Kg**			Analysis Date: **1/18/2022 11:05 PM**			
Client ID:		Run ID: **ICPMS4_220118B**			SeqNo: **8115698**			Prep Date: **1/17/2022**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	4.656	0.25	5	0	93.1	80-120	0			
Arsenic	4.478	0.25	5	0	89.6	80-120	0			
Barium	4.605	0.25	5	0	92.1	80-120	0			
Beryllium	4.644	0.10	5	0	92.9	80-120	0			
Boron	22.83	1.0	25	0	91.3	80-120	0			
Cadmium	4.607	0.10	5	0	92.1	80-120	0			
Calcium	460.2	25	500	0	92	80-120	0			
Chromium	4.567	0.25	5	0	91.3	80-120	0			
Cobalt	4.594	0.25	5	0	91.9	80-120	0			
Copper	4.647	0.25	5	0	92.9	80-120	0			
Iron	452.8	10	500	0	90.6	80-120	0			
Lead	4.568	0.25	5	0	91.4	80-120	0			
Magnesium	465.4	10	500	0	93.1	80-120	0			
Manganese	4.471	0.25	5	0	89.4	80-120	0			
Nickel	4.578	0.25	5	0	91.6	80-120	0			
Potassium	475.9	10	500	0	95.2	80-120	0			
Selenium	4.631	0.25	5	0	92.6	80-120	0			
Silver	4.346	0.25	5	0	86.9	80-120	0			
Sodium	462.1	15	500	0	92.4	80-120	0			
Thallium	4.434	0.25	5	0	88.7	80-120	0			
Vanadium	4.649	0.25	5	0	93	80-120	0			
Zinc	4.581	0.50	5	0	91.6	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190452** Instrument ID **ICPMS4** Method: **SW6020B**

MS Sample ID: **22010913-02BMS** Units: **mg/Kg** Analysis Date: **1/18/2022 11:43 PM**
Client ID: Run ID: **ICPMS4_220118B** SeqNo: **8115714** Prep Date: **1/17/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	6.309	0.36	7.153	0.07182	87.2	75-125	0			
Arsenic	7.029	0.36	7.153	0.8889	85.8	75-125	0			
Barium	11.14	0.36	7.153	4.234	96.5	75-125	0			
Beryllium	6.368	0.14	7.153	0.04173	88.4	75-125	0			
Boron	32.1	1.4	35.77	1.22	86.3	75-125	0			
Cadmium	5.906	0.14	7.153	-0.008576	82.7	75-125	0			
Calcium	23110	36	715.3	16220	964	75-125	0			SEO
Chromium	13.23	0.36	7.153	6.052	100	75-125	0			
Cobalt	6.767	0.36	7.153	0.5603	86.8	75-125	0			
Copper	8.18	0.36	7.153	2.204	83.5	75-125	0			
Iron	2678	14	715.3	2264	57.8	75-125	0			S
Lead	7.28	0.36	7.153	0.9214	88.9	75-125	0			
Magnesium	8635	14	715.3	5534	434	75-125	0			SO
Manganese	57.75	0.36	7.153	52.26	76.8	75-125	0			O
Nickel	7.802	0.36	7.153	1.585	86.9	75-125	0			
Potassium	991.1	14	715.3	129.8	120	75-125	0			
Selenium	5.959	0.36	7.153	0.07404	82.3	75-125	0			
Silver	5.622	0.36	7.153	0.003369	78.6	75-125	0			
Sodium	680.4	21	715.3	27.46	91.3	75-125	0			
Thallium	6.441	0.36	7.153	0.02182	89.7	75-125	0			
Vanadium	9.994	0.36	7.153	3.492	90.9	75-125	0			
Zinc	10.34	0.72	7.153	4.716	78.6	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190452** Instrument ID **ICPMS4** Method: **SW6020B**

MSD	Sample ID: **22010913-02BMSD**				Units: **mg/Kg**		Analysis Date: **1/18/2022 11:46 PM**			
Client ID:		Run ID: **ICPMS4_220118B**			SeqNo: **8115715**		Prep Date: **1/17/2022**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	6.411	0.36	7.205	0.07182	88	75-125	6.309	1.61	20	
Arsenic	6.958	0.36	7.205	0.8889	84.2	75-125	7.029	1.02	20	
Barium	10.83	0.36	7.205	4.234	91.5	75-125	11.14	2.85	20	
Beryllium	6.457	0.14	7.205	0.04173	89	75-125	6.368	1.39	20	
Boron	32.62	1.4	36.02	1.22	87.2	75-125	32.1	1.61	20	
Cadmium	6.083	0.14	7.205	-0.008576	84.5	75-125	5.906	2.95	20	
Calcium	22890	36	720.5	16220	926	75-125	23110	0.972	20	SEO
Chromium	11.94	0.36	7.205	6.052	81.7	75-125	13.23	10.2	20	
Cobalt	6.732	0.36	7.205	0.5603	85.7	75-125	6.767	0.524	20	
Copper	7.765	0.36	7.205	2.204	77.2	75-125	8.18	5.2	20	
Iron	2273	14	720.5	2264	1.15	75-125	2678	16.4	20	S
Lead	7.302	0.36	7.205	0.9214	88.6	75-125	7.28	0.298	20	
Magnesium	7565	14	720.5	5534	282	75-125	8635	13.2	20	SO
Manganese	42.71	0.36	7.205	52.26	-133	75-125	57.75	29.9	20	SRO
Nickel	7.621	0.36	7.205	1.585	83.8	75-125	7.802	2.34	20	
Potassium	934.5	14	720.5	129.8	112	75-125	991.1	5.88	20	
Selenium	5.988	0.36	7.205	0.07404	82.1	75-125	5.959	0.47	20	
Silver	5.764	0.36	7.205	0.003369	80	75-125	5.622	2.49	20	
Sodium	693.8	22	720.5	27.46	92.5	75-125	680.4	1.95	20	
Thallium	6.572	0.36	7.205	0.02182	90.9	75-125	6.441	2.01	20	
Vanadium	9.776	0.36	7.205	3.492	87.2	75-125	9.994	2.21	20	
Zinc	9.518	0.72	7.205	4.716	66.6	75-125	10.34	8.27	20	S

The following samples were analyzed in this batch:

22010880-01B	22010880-02B	22010880-03B
22010880-04B	22010880-05B	22010880-06B
22010880-07B	22010880-08B	22010880-09B
22010880-10B	22010880-11B	22010880-12B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190662** Instrument ID **ICPMS4** Method: **SW6020B**

MBLK Sample ID: **MBLK-190662-190662** Units: **mg/L** Analysis Date: **1/20/2022 06:31 PM**
Client ID: Run ID: **ICPMS4_220120A** SeqNo: **8122636** Prep Date: **1/20/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.0050								
Barium	U	0.0050								
Beryllium	U	0.0020								
Boron	U	0.020								
Cadmium	U	0.0020								
Chromium	U	0.0050								
Cobalt	U	0.0050								
Iron	U	0.080								
Lead	U	0.0050								
Manganese	U	0.0050								
Nickel	U	0.0050								
Selenium	U	0.0050								
Silver	U	0.0050								
Thallium	U	0.0050								
Zinc	U	0.010								

LCS Sample ID: **LCS-190662-190662** Units: **mg/L** Analysis Date: **1/20/2022 06:33 PM**
Client ID: Run ID: **ICPMS4_220120A** SeqNo: **8122637** Prep Date: **1/20/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.09651	0.0050	0.1	0	96.5	80-120	0			
Barium	0.09837	0.0050	0.1	0	98.4	80-120	0			
Beryllium	0.09499	0.0020	0.1	0	95	80-120	0			
Boron	0.5159	0.020	0.5	0	103	80-120	0			
Cadmium	0.09805	0.0020	0.1	0	98.1	80-120	0			
Chromium	0.09879	0.0050	0.1	0	98.8	80-120	0			
Cobalt	0.09702	0.0050	0.1	0	97	80-120	0			
Iron	9.638	0.080	10	0	96.4	80-120	0			
Lead	0.09649	0.0050	0.1	0	96.5	80-120	0			
Manganese	0.09414	0.0050	0.1	0	94.1	80-120	0			
Nickel	0.09848	0.0050	0.1	0	98.5	80-120	0			
Selenium	0.09261	0.0050	0.1	0	92.6	80-120	0			
Silver	0.09545	0.0050	0.1	0	95.4	80-120	0			
Thallium	0.09418	0.0050	0.1	0	94.2	80-120	0			
Zinc	0.1011	0.010	0.1	0	101	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190662** Instrument ID **ICPMS4** Method: **SW6020B**

MS Sample ID: **22010880-13AMS** Units: **mg/L** Analysis Date: **1/20/2022 06:42 PM**

Client ID: **3608-04-B01 (0-5)** Run ID: **ICPMS4_220120A** SeqNo: **8122643** Prep Date: **1/20/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.9765	0.050	1	0.000715	97.6	80-120	0			
Barium	1.632	0.050	1	0.6215	101	80-120	0			
Beryllium	0.9782	0.020	1	0.000495	97.8	80-120	0			
Boron	5.444	0.20	5	0.17	105	80-120	0			
Cadmium	0.9895	0.020	1	0.00275	98.7	80-120	0			
Chromium	1.001	0.050	1	0.007194	99.3	80-120	0			
Cobalt	1.068	0.050	1	0.0946	97.4	80-120	0			
Iron	98.54	0.80	100	0.5445	98	80-120	0			
Lead	0.9936	0.050	1	0.008734	98.5	80-120	0			
Manganese	13.8	0.050	1	13.18	62.7	80-120	0			SO
Nickel	1.068	0.050	1	0.09877	96.9	80-120	0			
Selenium	0.9746	0.050	1	0.004664	97	80-120	0			
Silver	0.952	0.050	1	0.003212	94.9	80-120	0			
Thallium	0.9716	0.050	1	0.000297	97.1	80-120	0			
Zinc	1.055	0.10	1	0.1186	93.6	80-120	0			

MSD Sample ID: **22010880-13AMSD** Units: **mg/L** Analysis Date: **1/20/2022 06:44 PM**

Client ID: **3608-04-B01 (0-5)** Run ID: **ICPMS4_220120A** SeqNo: **8122644** Prep Date: **1/20/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.9658	0.050	1	0.000715	96.5	80-120	0.9765	1.1	20	
Barium	1.606	0.050	1	0.6215	98.5	80-120	1.632	1.6	20	
Beryllium	0.9774	0.020	1	0.000495	97.7	80-120	0.9782	0.0866	20	
Boron	5.489	0.20	5	0.17	106	80-120	5.444	0.824	20	
Cadmium	0.9771	0.020	1	0.00275	97.4	80-120	0.9895	1.26	20	
Chromium	0.9927	0.050	1	0.007194	98.6	80-120	1.001	0.79	20	
Cobalt	1.052	0.050	1	0.0946	95.7	80-120	1.068	1.54	20	
Iron	96.88	0.80	100	0.5445	96.3	80-120	98.54	1.69	20	
Lead	0.9819	0.050	1	0.008734	97.3	80-120	0.9936	1.18	20	
Manganese	13.58	0.050	1	13.18	40.8	80-120	13.8	1.6	20	SO
Nickel	1.069	0.050	1	0.09877	97.1	80-120	1.068	0.126	20	
Selenium	0.9555	0.050	1	0.004664	95.1	80-120	0.9746	1.98	20	
Silver	0.9256	0.050	1	0.003212	92.2	80-120	0.952	2.81	20	
Thallium	0.959	0.050	1	0.000297	95.9	80-120	0.9716	1.3	20	
Zinc	1.025	0.10	1	0.1186	90.7	80-120	1.055	2.85	20	

The following samples were analyzed in this batch:

22010880-13A	22010880-14A	22010880-15A
22010880-16A	22010880-17A	22010880-18A
22010880-19A	22010880-20A	22010880-21A
22010880-22A	22010880-23A	22010880-24A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **190590** Instrument ID **SVMS10** Method: **SW846 8270D**

MBLK	Sample ID: **SBLKS1-190590-190590**				Units: **µg/Kg**		Analysis Date: **1/20/2022 05:07 PM**			
Client ID:	Run ID: **SVMS10_220120A**				SeqNo: **8123940**		Prep Date: **1/19/2022**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	U	33								
1,2-Dichlorobenzene	U	33								
1,3-Dichlorobenzene	U	33								
1,4-Dichlorobenzene	U	33								
2,2`-Oxybis(1-chloropropane)	U	33								
2,4,5-Trichlorophenol	U	33								
2,4,6-Trichlorophenol	U	33								
2,4-Dichlorophenol	U	33								
2,4-Dimethylphenol	U	33								
2,4-Dinitrophenol	U	670								
2,4-Dinitrotoluene	U	33								
2,6-Dinitrotoluene	U	33								
2-Chloronaphthalene	U	6.7								
2-Chlorophenol	U	33								
2-Methylnaphthalene	U	6.7								
2-Methylphenol	U	33								
2-Nitroaniline	U	33								
2-Nitrophenol	U	33								
3&4-Methylphenol	U	33								
3,3´-Dichlorobenzidine	U	170								
3-Nitroaniline	U	33								
4,6-Dinitro-2-methylphenol	U	33								
4-Bromophenyl phenyl ether	U	33								
4-Chloro-3-methylphenol	U	33								
4-Chloroaniline	U	67								
4-Chlorophenyl phenyl ether	U	33								
4-Nitroaniline	U	170								
4-Nitrophenol	U	170								
Acenaphthene	U	6.7								
Acenaphthylene	U	6.7								
Anthracene	U	6.7								
Benzo(a)anthracene	U	6.7								
Benzo(a)pyrene	U	6.7								
Benzo(b)fluoranthene	U	6.7								
Benzo(g,h,i)perylene	U	6.7								
Benzo(k)fluoranthene	U	6.7								
Bis(2-chloroethoxy)methane	U	33								
Bis(2-chloroethyl)ether	U	33								
Bis(2-ethylhexyl)phthalate	U	33								
Butyl benzyl phthalate	U	67								
Carbazole	U	33								
Chrysene	U	6.7								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **190590** Instrument ID **SVMS10** Method: **SW846 8270D**

Dibenzo(a,h)anthracene	U	6.7					
Dibenzofuran	U	33					
Diethyl phthalate	U	33					
Dimethyl phthalate	U	33					
Di-n-butyl phthalate	U	33					
Di-n-octyl phthalate	U	33					
Fluoranthene	U	6.7					
Fluorene	U	6.7					
Hexachlorobenzene	U	33					
Hexachlorobutadiene	U	33					
Hexachlorocyclopentadiene	U	33					
Hexachloroethane	U	33					
Indeno(1,2,3-cd)pyrene	U	6.7					
Isophorone	U	170					
Naphthalene	U	6.7					
Nitrobenzene	U	170					
N-Nitrosodi-n-propylamine	U	33					
N-Nitrosodiphenylamine	U	33					
Pentachlorophenol	U	33					
Phenanthrene	U	6.7					
Phenol	U	33					
Pyrene	U	6.7					
Surr: 2,4,6-Tribromophenol	*2260*	0	*3333*	0	*67.8*	*38-92*	0
Surr: 2-Fluorobiphenyl	*2725*	0	*3333*	0	*81.7*	*44-107*	0
Surr: 2-Fluorophenol	*2512*	0	*3333*	0	*75.4*	*37-109*	0
Surr: 4-Terphenyl-d14	*2894*	0	*3333*	0	*86.8*	*52-123*	0
Surr: Nitrobenzene-d5	*2418*	0	*3333*	0	*72.5*	*41-94*	0
Surr: Phenol-d6	*2689*	0	*3333*	0	*80.7*	*28-111*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190590** Instrument ID **SVMS10** Method: **SW846 8270D**

LCS	Sample ID: **SLCSS1-190590-190590**				Units: **µg/Kg**		Analysis Date: **1/20/2022 05:34 PM**			
Client ID:		Run ID: **SVMS10_220120A**			SeqNo: **8123941**		Prep Date: **1/19/2022**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1115	33	1333	0	83.7	40-93	0			
1,2-Dichlorobenzene	1063	33	1333	0	79.7	42-94	0			
1,3-Dichlorobenzene	1044	33	1333	0	78.3	41-94	0			
1,4-Dichlorobenzene	1065	33	1333	0	79.9	42-94	0			
2,2`-Oxybis(1-chloropropane)	903.3	33	1333	0	67.8	47-107	0			
2,4,5-Trichlorophenol	1113	33	1333	0	83.5	52-111	0			
2,4,6-Trichlorophenol	1091	33	1333	0	81.9	46-105	0			
2,4-Dichlorophenol	1159	33	1333	0	86.9	47-96	0			
2,4-Dimethylphenol	1121	33	1333	0	84.1	49-97	0			
2,4-Dinitrophenol	936.7	670	1333	0	70.3	10-106	0			
2,4-Dinitrotoluene	1161	33	1333	0	87.1	58-110	0			
2,6-Dinitrotoluene	1129	33	1333	0	84.7	59-108	0			
2-Chloronaphthalene	1139	6.7	1333	0	85.4	56-104	0			
2-Chlorophenol	1189	33	1333	0	89.2	50-104	0			
2-Methylnaphthalene	1111	6.7	1333	0	83.4	54-96	0			
2-Methylphenol	1145	33	1333	0	85.9	49-105	0			
2-Nitroaniline	989.3	33	1333	0	74.2	54-107	0			
2-Nitrophenol	1133	33	1333	0	85	51-94	0			
3&4-Methylphenol	1151	33	1333	0	86.3	48-105	0			
3,3´-Dichlorobenzidine	862.7	170	1333	0	64.7	39-99	0			
3-Nitroaniline	958.7	33	1333	0	71.9	17-92	0			
4,6-Dinitro-2-methylphenol	1063	33	1333	0	79.8	32-103	0			
4-Bromophenyl phenyl ether	1163	33	1333	0	87.3	60-106	0			
4-Chloro-3-methylphenol	1165	33	1333	0	87.4	51-101	0			
4-Chloroaniline	738.7	67	1333	0	55.4	27-110	0			
4-Chlorophenyl phenyl ether	1105	33	1333	0	82.9	58-106	0			
4-Nitroaniline	1043	170	1333	0	78.2	21-100	0			
4-Nitrophenol	912.7	170	1333	0	68.5	29-120	0			
Acenaphthene	1117	6.7	1333	0	83.8	55-101	0			
Acenaphthylene	1133	6.7	1333	0	85	59-106	0			
Anthracene	1201	6.7	1333	0	90.1	67-105	0			
Benzo(a)anthracene	1149	6.7	1333	0	86.2	68-105	0			
Benzo(a)pyrene	1219	6.7	1333	0	91.5	68-110	0			
Benzo(b)fluoranthene	1201	6.7	1333	0	90.1	65-110	0			
Benzo(g,h,i)perylene	1117	6.7	1333	0	83.8	60-120	0			
Benzo(k)fluoranthene	1179	6.7	1333	0	88.4	66-113	0			
Bis(2-chloroethoxy)methane	1068	33	1333	0	80.1	53-96	0			
Bis(2-chloroethyl)ether	1077	33	1333	0	80.8	47-108	0			
Bis(2-ethylhexyl)phthalate	1145	33	1333	0	85.9	59-117	0			
Butyl benzyl phthalate	1035	67	1333	0	77.6	59-106	0			
Carbazole	1143	33	1333	0	85.7	67-108	0			
Chrysene	1177	6.7	1333	0	88.3	68-108	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **190590** Instrument ID **SVMS10** Method: **SW846 8270D**

Dibenzo(a,h)anthracene	1114	6.7	1333	0	83.6	62-119	0
Dibenzofuran	1138	33	1333	0	85.4	60-104	0
Diethyl phthalate	1114	33	1333	0	83.6	62-111	0
Dimethyl phthalate	1205	33	1333	0	90.4	62-106	0
Di-n-butyl phthalate	1205	33	1333	0	90.4	59-105	0
Di-n-octyl phthalate	1258	33	1333	0	94.4	51-123	0
Fluoranthene	1196	6.7	1333	0	89.7	67-106	0
Fluorene	1115	6.7	1333	0	83.6	59-107	0
Hexachlorobenzene	1122	33	1333	0	84.2	62-103	0
Hexachlorobutadiene	1077	33	1333	0	80.8	51-94	0
Hexachlorocyclopentadiene	1289	33	1333	0	96.7	25-120	0
Hexachloroethane	1185	33	1333	0	88.9	55-93	0
Indeno(1,2,3-cd)pyrene	1224	6.7	1333	0	91.8	56-120	0
Isophorone	1024	170	1333	0	76.8	52-99	0
Naphthalene	1094	6.7	1333	0	82.1	46-98	0
Nitrobenzene	1040	170	1333	0	78	53-95	0
N-Nitrosodi-n-propylamine	1048	33	1333	0	78.6	50-104	0
N-Nitrosodiphenylamine	1136	33	1333	0	85.2	63-107	0
Pentachlorophenol	1134	33	1333	0	85.1	34-106	0
Phenanthrene	1181	6.7	1333	0	88.6	66-101	0
Phenol	1087	33	1333	0	81.5	44-109	0
Pyrene	1135	6.7	1333	0	85.2	60-119	0
Surr: 2,4,6-Tribromophenol	*2729*	0	*3333*	0	*81.9*	*38-92*	0
Surr: 2-Fluorobiphenyl	*2664*	0	*3333*	0	*79.9*	*44-107*	0
Surr: 2-Fluorophenol	*2538*	0	*3333*	0	*76.1*	*37-109*	0
Surr: 4-Terphenyl-d14	*2768*	0	*3333*	0	*83*	*52-123*	0
Surr: Nitrobenzene-d5	*2423*	0	*3333*	0	*72.7*	*41-94*	0
Surr: Phenol-d6	*2642*	0	*3333*	0	*79.3*	*28-111*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190590** Instrument ID **SVMS10** Method: **SW846 8270D**

MS Sample ID: **22010570-07A MS** Units: **µg/Kg** Analysis Date: **1/21/2022 12:49 AM**
Client ID: Run ID: **SVMS10_220120A** SeqNo: **8123942** Prep Date: **1/19/2022** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1179	160	1317	0	89.5	40-93	0			
1,2-Dichlorobenzene	1080	160	1317	0	82	42-94	0			
1,3-Dichlorobenzene	1050	160	1317	0	79.8	41-94	0			
1,4-Dichlorobenzene	1027	160	1317	0	78	42-94	0			
2,2`-Oxybis(1-chloropropane)	1077	160	1317	0	81.8	47-107	0			
2,4,5-Trichlorophenol	1057	160	1317	0	80.3	52-111	0			
2,4,6-Trichlorophenol	1093	160	1317	0	83	46-105	0			
2,4-Dichlorophenol	1143	160	1317	0	86.8	47-96	0			
2,4-Dimethylphenol	862.8	160	1317	0	65.5	49-97	0			
2,4-Dinitrophenol	U	3,300	1317	0	0	10-106	0			S
2,4-Dinitrotoluene	931.9	160	1317	0	70.8	58-110	0			
2,6-Dinitrotoluene	1014	160	1317	0	77	59-108	0			
2-Chloronaphthalene	1031	33	1317	0	78.3	56-104	0			
2-Chlorophenol	1192	160	1317	0	90.5	50-104	0			
2-Methylnaphthalene	1070	33	1317	0	81.3	54-96	0			
2-Methylphenol	1067	160	1317	0	81	49-105	0			
2-Nitroaniline	1008	160	1317	0	76.5	54-107	0			
2-Nitrophenol	1209	160	1317	0	91.8	51-94	0			
3&4-Methylphenol	1087	160	1317	0	82.5	48-105	0			
3,3´-Dichlorobenzidine	549.9	820	1317	0	41.8	39-99	0			J
3-Nitroaniline	948.4	160	1317	0	72	17-92	0			
4,6-Dinitro-2-methylphenol	335.9	160	1317	0	25.5	32-103	0			S
4-Bromophenyl phenyl ether	1027	160	1317	0	78	60-106	0			
4-Chloro-3-methylphenol	1057	160	1317	0	80.3	51-101	0			
4-Chloroaniline	931.9	330	1317	0	70.8	27-110	0			
4-Chlorophenyl phenyl ether	915.4	160	1317	0	69.5	58-106	0			
4-Nitroaniline	948.4	820	1317	0	72	21-100	0			
4-Nitrophenol	688.2	820	1317	0	52.3	29-120	0			J
Acenaphthene	987.9	33	1317	0	75	55-101	0			
Acenaphthylene	1057	33	1317	43.07	77	59-106	0			
Anthracene	951.7	33	1317	26.51	70.3	67-105	0			
Benzo(a)anthracene	885.8	33	1317	106	59.2	68-105	0			S
Benzo(a)pyrene	974.7	33	1317	149.1	62.7	68-110	0			S
Benzo(b)fluoranthene	968.1	33	1317	198.8	58.4	65-110	0			S
Benzo(g,h,i)perylene	1034	33	1317	155.7	66.7	60-120	0			
Benzo(k)fluoranthene	892.4	33	1317	76.21	62	66-113	0			S
Bis(2-chloroethoxy)methane	1182	160	1317	0	89.8	53-96	0			
Bis(2-chloroethyl)ether	1097	160	1317	0	83.3	47-108	0			
Bis(2-ethylhexyl)phthalate	899	160	1317	0	68.3	59-117	0			
Butyl benzyl phthalate	889.1	330	1317	0	67.5	59-106	0			
Carbazole	1034	160	1317	0	78.5	67-108	0			
Chrysene	931.9	33	1317	109.3	62.5	68-108	0			S

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **190590** Instrument ID **SVMS10** Method: **SW846 8270D**

Dibenzo(a,h)anthracene	918.7	33	1317	49.7	66	62-119	0	
Dibenzofuran	987.9	160	1317	0	75	60-104	0	
Diethyl phthalate	1031	160	1317	0	78.3	62-111	0	
Dimethyl phthalate	1162	160	1317	0	88.3	62-106	0	
Di-n-butyl phthalate	931.9	160	1317	0	70.8	59-105	0	
Di-n-octyl phthalate	1004	160	1317	0	76.3	51-123	0	
Fluoranthene	1011	33	1317	175.6	63.4	67-106	0	S
Fluorene	968.1	33	1317	6.627	73	59-107	0	
Hexachlorobenzene	994.5	160	1317	0	75.5	62-103	0	
Hexachlorobutadiene	948.4	160	1317	0	72	51-94	0	
Hexachlorocyclopentadiene	645.4	160	1317	0	49	25-120	0	
Hexachloroethane	1149	160	1317	0	87.3	55-93	0	
Indeno(1,2,3-cd)pyrene	1143	33	1317	178.9	73.2	56-120	0	
Isophorone	1083	820	1317	0	82.3	52-99	0	
Naphthalene	1100	33	1317	0	83.5	46-98	0	
Nitrobenzene	1153	820	1317	0	87.5	53-95	0	
N-Nitrosodi-n-propylamine	1176	160	1317	0	89.3	50-104	0	
N-Nitrosodiphenylamine	997.8	160	1317	0	75.8	63-107	0	
Pentachlorophenol	358.9	160	1317	0	27.3	34-106	0	S
Phenanthrene	991.2	33	1317	59.64	70.7	66-101	0	
Phenol	1129	160	1317	0	85.8	44-109	0	
Pyrene	1031	33	1317	172.3	65.2	60-119	0	
Surr: 2,4,6-Tribromophenol	*2536*	0	*3293*	0	*77*	*38-92*	0	
Surr: 2-Fluorobiphenyl	*2447*	0	*3293*	0	*74.3*	*44-107*	0	
Surr: 2-Fluorophenol	*2694*	0	*3293*	0	*81.8*	*37-109*	0	
Surr: 4-Terphenyl-d14	*2424*	0	*3293*	0	*73.6*	*52-123*	0	
Surr: Nitrobenzene-d5	*2608*	0	*3293*	0	*79.2*	*41-94*	0	
Surr: Phenol-d6	*2888*	0	*3293*	0	*87.7*	*28-111*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190590** Instrument ID **SVMS10** Method: **SW846 8270D**

MSD	Sample ID: **22010570-07A MSD**				Units: **µg/Kg**			Analysis Date: **1/21/2022 01:16 AM**			
Client ID:		Run ID: **SVMS10_220120A**			SeqNo: **8123943**			Prep Date: **1/19/2022**		DF: **5**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1128	160	1323	0	85.3	40-93	1179	4.38	30	
1,2-Dichlorobenzene	1095	160	1323	0	82.8	42-94	1080	1.39	30	
1,3-Dichlorobenzene	1065	160	1323	0	80.5	41-94	1050	1.42	30	
1,4-Dichlorobenzene	1049	160	1323	0	79.3	42-94	1027	2.07	30	
2,2`-Oxybis(1-chloropropane)	1112	160	1323	0	84	47-107	1077	3.2	30	
2,4,5-Trichlorophenol	1132	160	1323	0	85.5	52-111	1057	6.82	30	
2,4,6-Trichlorophenol	1165	160	1323	0	88	46-105	1093	6.33	30	
2,4-Dichlorophenol	1221	160	1323	0	92.3	47-96	1143	6.63	30	
2,4-Dimethylphenol	966.2	160	1323	0	73	49-97	862.8	11.3	30	
2,4-Dinitrophenol	U	3,300	1323	0	0	10-106	0	0	30	S
2,4-Dinitrotoluene	1056	160	1323	0	79.8	58-110	931.9	12.4	30	
2,6-Dinitrotoluene	1079	160	1323	0	81.5	59-108	1014	6.16	30	
2-Chloronaphthalene	1052	33	1323	0	79.5	56-104	1031	2.07	30	
2-Chlorophenol	1271	160	1323	0	96	50-104	1192	6.38	30	
2-Methylnaphthalene	1118	33	1323	0	84.5	54-96	1070	4.4	30	
2-Methylphenol	1191	160	1323	0	90	49-105	1067	11	30	
2-Nitroaniline	1069	160	1323	0	80.8	54-107	1008	5.89	30	
2-Nitrophenol	1208	160	1323	0	91.3	51-94	1209	0.0646	30	
3&4-Methylphenol	1214	160	1323	0	91.8	48-105	1087	11.1	30	
3,3´-Dichlorobenzidine	625.4	830	1323	0	47.3	39-99	549.9	0	30	J
3-Nitroaniline	1052	160	1323	0	79.5	17-92	948.4	10.4	30	
4,6-Dinitro-2-methylphenol	317.6	160	1323	0	24	32-103	335.9	5.58	30	S
4-Bromophenyl phenyl ether	1095	160	1323	0	82.8	60-106	1027	6.39	30	
4-Chloro-3-methylphenol	1145	160	1323	0	86.5	51-101	1057	7.98	30	
4-Chloroaniline	996	330	1323	0	75.3	27-110	931.9	6.65	30	
4-Chlorophenyl phenyl ether	1032	160	1323	0	78	58-106	915.4	12	30	
4-Nitroaniline	1089	830	1323	0	82.3	21-100	948.4	13.8	30	
4-Nitrophenol	810.7	830	1323	0	61.3	29-120	688.2	0	30	J
Acenaphthene	1065	33	1323	0	80.5	55-101	987.9	7.56	30	
Acenaphthylene	1165	33	1323	43.07	84.8	59-106	1057	9.69	30	
Anthracene	1082	33	1323	26.51	79.8	67-105	951.7	12.8	30	
Benzo(a)anthracene	1079	33	1323	106	73.5	68-105	885.8	19.6	30	
Benzo(a)pyrene	1175	33	1323	149.1	77.5	68-110	974.7	18.6	30	
Benzo(b)fluoranthene	1257	33	1323	198.8	80	65-110	968.1	26	30	
Benzo(g,h,i)perylene	1065	33	1323	155.7	68.8	60-120	1034	3	30	
Benzo(k)fluoranthene	1075	33	1323	76.21	75.5	66-113	892.4	18.6	30	
Bis(2-chloroethoxy)methane	1188	160	1323	0	89.8	53-96	1182	0.482	30	
Bis(2-chloroethyl)ether	1125	160	1323	0	85	47-108	1097	2.56	30	
Bis(2-ethylhexyl)phthalate	1042	160	1323	0	78.8	59-117	899	14.8	30	
Butyl benzyl phthalate	1099	330	1323	0	83	59-106	889.1	21.1	30	
Carbazole	1201	160	1323	0	90.8	67-108	1034	15	30	
Chrysene	1112	33	1323	109.3	75.8	68-108	931.9	17.6	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **190590** Instrument ID **SVMS10** Method: **SW846 8270D**

Dibenzo(a,h)anthracene	916.6	33	1323	49.7	65.5	62-119	918.7	0.237	30	
Dibenzofuran	1092	160	1323	0	82.5	60-104	987.9	10	30	
Diethyl phthalate	1148	160	1323	0	86.8	62-111	1031	10.8	30	
Dimethyl phthalate	1238	160	1323	0	93.5	62-106	1162	6.26	30	
Di-n-butyl phthalate	1059	160	1323	0	80	59-105	931.9	12.8	30	
Di-n-octyl phthalate	1327	160	1323	0	100	51-123	1004	27.7	30	
Fluoranthene	1426	33	1323	175.6	94.5	67-106	1011	34.1	30	R
Fluorene	1079	33	1323	6.627	81	59-107	968.1	10.8	30	
Hexachlorobenzene	1079	160	1323	0	81.5	62-103	994.5	8.12	30	
Hexachlorobutadiene	1022	160	1323	0	77.3	51-94	948.4	7.52	30	
Hexachlorocyclopentadiene	595.6	160	1323	0	45	25-120	645.4	8.03	30	
Hexachloroethane	1191	160	1323	0	90	55-93	1149	3.58	30	
Indeno(1,2,3-cd)pyrene	1191	33	1323	178.9	76.5	56-120	1143	4.16	30	
Isophorone	1132	830	1323	0	85.5	52-99	1083	4.36	30	
Naphthalene	1142	33	1323	0	86.3	46-98	1100	3.72	30	
Nitrobenzene	1148	830	1323	0	86.8	53-95	1153	0.379	30	
N-Nitrosodi-n-propylamine	1264	160	1323	0	95.5	50-104	1176	7.25	30	
N-Nitrosodiphenylamine	1059	160	1323	0	80	63-107	997.8	5.94	30	
Pentachlorophenol	423.5	160	1323	0	32	34-106	358.9	16.5	30	S
Phenanthrene	1221	33	1323	59.64	87.8	66-101	991.2	20.8	30	
Phenol	1247	160	1323	0	94.3	44-109	1129	9.93	30	
Pyrene	1274	33	1323	172.3	83.3	60-119	1031	21.1	30	
Surr: 2,4,6-Tribromophenol	*2789*	0	*3309*	0	*84.3*	*38-92*	2536	*9.53*	*40*	
Surr: 2-Fluorobiphenyl	*2597*	0	*3309*	0	*78.5*	*44-107*	2447	*5.98*	*40*	
Surr: 2-Fluorophenol	*2882*	0	*3309*	0	*87.1*	*37-109*	2694	*6.76*	*40*	
Surr: 4-Terphenyl-d14	*2640*	0	*3309*	0	*79.8*	*52-123*	2424	*8.56*	*40*	
Surr: Nitrobenzene-d5	*2561*	0	*3309*	0	*77.4*	*41-94*	2608	*1.82*	*40*	
Surr: Phenol-d6	*3147*	0	*3309*	0	*95.1*	*28-111*	2888	*8.58*	*40*	

The following samples were analyzed in this batch:

22010880-01B	22010880-02B	22010880-03B
22010880-04B	22010880-05B	22010880-06B
22010880-07B	22010880-08B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **190670** Instrument ID **SVMS9** Method: **SW846 8270D**

MBLK	Sample ID: **SBLKS1-190670-190670**				Units: **µg/Kg**		Analysis Date: **1/21/2022 02:41 PM**			
Client ID:		Run ID: **SVMS9_220121A**			SeqNo: **8127114**		Prep Date: **1/21/2022**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	U	33	0	0	0	0-0	0			
1,2-Dichlorobenzene	U	33	0	0	0	0-0	0			
1,3-Dichlorobenzene	U	33	0	0	0	0-0	0			
1,4-Dichlorobenzene	U	33	0	0	0	0-0	0			
2,2`-Oxybis(1-chloropropane)	U	33	0	0	0		0			
2,4,5-Trichlorophenol	U	33	0	0	0	0-0	0			
2,4,6-Trichlorophenol	U	33	0	0	0	0-0	0			
2,4-Dichlorophenol	U	33	0	0	0	0-0	0			
2,4-Dimethylphenol	U	33	0	0	0	0-0	0			
2,4-Dinitrophenol	U	670	0	0	0	0-0	0			
2,4-Dinitrotoluene	U	33	0	0	0	0-0	0			
2,6-Dinitrotoluene	U	33	0	0	0	0-0	0			
2-Chloronaphthalene	U	6.7	0	0	0	0-0	0			
2-Chlorophenol	U	33	0	0	0	0-0	0			
2-Methylnaphthalene	U	6.7	0	0	0	0-0	0			
2-Methylphenol	U	33	0	0	0	0-0	0			
2-Nitroaniline	U	33	0	0	0	0-0	0			
2-Nitrophenol	U	33	0	0	0	0-0	0			
3&4-Methylphenol	U	33	0	0	0		0			
3,3´-Dichlorobenzidine	U	170	0	0	0	0-0	0			
3-Nitroaniline	U	33	0	0	0	0-0	0			
4,6-Dinitro-2-methylphenol	U	33	0	0	0	0-0	0			
4-Bromophenyl phenyl ether	U	33	0	0	0	0-0	0			
4-Chloro-3-methylphenol	U	33	0	0	0	0-0	0			
4-Chloroaniline	U	67	0	0	0	0-0	0			
4-Chlorophenyl phenyl ether	U	33	0	0	0	0-0	0			
4-Nitroaniline	U	170	0	0	0	0-0	0			
4-Nitrophenol	U	170	0	0	0	0-0	0			
Acenaphthene	U	6.7	0	0	0	0-0	0			
Acenaphthylene	U	6.7	0	0	0	0-0	0			
Anthracene	U	6.7	0	0	0	0-0	0			
Benzo(a)anthracene	U	6.7	0	0	0	0-0	0			
Benzo(a)pyrene	U	6.7	0	0	0	0-0	0			
Benzo(b)fluoranthene	U	6.7	0	0	0	0-0	0			
Benzo(g,h,i)perylene	U	6.7	0	0	0	0-0	0			
Benzo(k)fluoranthene	U	6.7	0	0	0	0-0	0			
Bis(2-chloroethoxy)methane	U	33	0	0	0	0-0	0			
Bis(2-chloroethyl)ether	U	33	0	0	0	0-0	0			
Bis(2-ethylhexyl)phthalate	U	33	0	0	0	0-0	0			
Butyl benzyl phthalate	U	67	0	0	0	0-0	0			
Carbazole	U	33	0	0	0	0-0	0			
Chrysene	U	6.7	0	0	0	0-0	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **190670** Instrument ID **SVMS9** Method: **SW846 8270D**

Dibenzo(a,h)anthracene	U	6.7	0	0	0	0-0	0
Dibenzofuran	U	33	0	0	0	0-0	0
Diethyl phthalate	U	33	0	0	0	0-0	0
Dimethyl phthalate	U	33	0	0	0	0-0	0
Di-n-butyl phthalate	U	33	0	0	0	0-0	0
Di-n-octyl phthalate	U	33	0	0	0	0-0	0
Fluoranthene	U	6.7	0	0	0	0-0	0
Fluorene	U	6.7	0	0	0	0-0	0
Hexachlorobenzene	U	33	0	0	0	0-0	0
Hexachlorobutadiene	U	33	0	0	0	0-0	0
Hexachlorocyclopentadiene	U	33	0	0	0	0-0	0
Hexachloroethane	U	33	0	0	0	0-0	0
Indeno(1,2,3-cd)pyrene	U	6.7	0	0	0	0-0	0
Isophorone	U	170	0	0	0	0-0	0
Naphthalene	U	6.7	0	0	0	0-0	0
Nitrobenzene	U	170	0	0	0	0-0	0
N-Nitrosodi-n-propylamine	U	33	0	0	0	0-0	0
N-Nitrosodiphenylamine	U	33	0	0	0	0-0	0
Pentachlorophenol	U	33	0	0	0	0-0	0
Phenanthrene	U	6.7	0	0	0	0-0	0
Phenol	U	33	0	0	0	0-0	0
Pyrene	U	6.7	0	0	0	0-0	0
Surr: 2,4,6-Tribromophenol	*2551*	0	*3333*	0	*76.5*	*38-92*	0
Surr: 2-Fluorobiphenyl	*2549*	0	*3333*	0	*76.5*	*44-107*	0
Surr: 2-Fluorophenol	*2538*	0	*3333*	0	*76.1*	*37-109*	0
Surr: 4-Terphenyl-d14	*2851*	0	*3333*	0	*85.5*	*52-123*	0
Surr: Nitrobenzene-d5	*2540*	0	*3333*	0	*76.2*	*41-94*	0
Surr: Phenol-d6	*2639*	0	*3333*	0	*79.2*	*28-111*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190670** Instrument ID **SVMS9** Method: **SW846 8270D**

LCS	Sample ID: **SLCSS1-190670-190670**				Units: **µg/Kg**		Analysis Date: **1/21/2022 03:05 PM**			
Client ID:	Run ID: **SVMS9_220121A**				SeqNo: **8127115**		Prep Date: **1/21/2022**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1117	33	1333	0	83.8	40-93	0			
1,2-Dichlorobenzene	1117	33	1333	0	83.8	42-94	0			
1,3-Dichlorobenzene	1096	33	1333	0	82.2	41-94	0			
1,4-Dichlorobenzene	1073	33	1333	0	80.5	42-94	0			
2,2`-Oxybis(1-chloropropane)	1074	33	1333	0	80.6	47-107	0			
2,4,5-Trichlorophenol	1064	33	1333	0	79.8	52-111	0			
2,4,6-Trichlorophenol	1098	33	1333	0	82.4	46-105	0			
2,4-Dichlorophenol	1113	33	1333	0	83.5	47-96	0			
2,4-Dimethylphenol	1094	33	1333	0	82.1	49-97	0			
2,4-Dinitrophenol	797.3	670	1333	0	59.8	10-106	0			
2,4-Dinitrotoluene	1226	33	1333	0	92	58-110	0			
2,6-Dinitrotoluene	1201	33	1333	0	90.1	59-108	0			
2-Chloronaphthalene	1165	6.7	1333	0	87.4	56-104	0			
2-Chlorophenol	1156	33	1333	0	86.7	50-104	0			
2-Methylnaphthalene	1167	6.7	1333	0	87.5	54-96	0			
2-Methylphenol	1123	33	1333	0	84.3	49-105	0			
2-Nitroaniline	1163	33	1333	0	87.3	54-107	0			
2-Nitrophenol	1137	33	1333	0	85.3	51-94	0			
3&4-Methylphenol	1121	33	1333	0	84.1	48-105	0			
3,3´-Dichlorobenzidine	906.7	170	1333	0	68	39-99	0			
3-Nitroaniline	1121	33	1333	0	84.1	17-92	0			
4,6-Dinitro-2-methylphenol	1107	33	1333	0	83.1	32-103	0			
4-Bromophenyl phenyl ether	1029	33	1333	0	77.2	60-106	0			
4-Chloro-3-methylphenol	1102	33	1333	0	82.7	51-101	0			
4-Chloroaniline	612.7	67	1333	0	46	27-110	0			
4-Chlorophenyl phenyl ether	1127	33	1333	0	84.6	58-106	0			
4-Nitroaniline	1223	170	1333	0	91.8	21-100	0			
4-Nitrophenol	1045	170	1333	0	78.4	29-120	0			
Acenaphthene	1119	6.7	1333	0	83.9	55-101	0			
Acenaphthylene	1157	6.7	1333	0	86.8	59-106	0			
Anthracene	1250	6.7	1333	0	93.8	67-105	0			
Benzo(a)anthracene	1193	6.7	1333	0	89.5	68-105	0			
Benzo(a)pyrene	1269	6.7	1333	0	95.2	68-110	0			
Benzo(b)fluoranthene	1244	6.7	1333	0	93.3	65-110	0			
Benzo(g,h,i)perylene	1131	6.7	1333	0	84.8	60-120	0			
Benzo(k)fluoranthene	1287	6.7	1333	0	96.6	66-113	0			
Bis(2-chloroethoxy)methane	1109	33	1333	0	83.2	53-96	0			
Bis(2-chloroethyl)ether	1157	33	1333	0	86.8	47-108	0			
Bis(2-ethylhexyl)phthalate	1255	33	1333	0	94.1	59-117	0			
Butyl benzyl phthalate	1176	67	1333	0	88.2	59-106	0			
Carbazole	1263	33	1333	0	94.7	67-108	0			
Chrysene	1303	6.7	1333	0	97.8	68-108	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **190670** Instrument ID **SVMS9** Method: **SW846 8270D**

Dibenzo(a,h)anthracene	1119	6.7	1333	0	83.9	62-119	0
Dibenzofuran	1187	33	1333	0	89	60-104	0
Diethyl phthalate	1153	33	1333	0	86.5	62-111	0
Dimethyl phthalate	1183	33	1333	0	88.7	62-106	0
Di-n-butyl phthalate	1181	33	1333	0	88.6	59-105	0
Di-n-octyl phthalate	1293	33	1333	0	97	51-123	0
Fluoranthene	1255	6.7	1333	0	94.2	67-106	0
Fluorene	1188	6.7	1333	0	89.1	59-107	0
Hexachlorobenzene	1071	33	1333	0	80.3	62-103	0
Hexachlorobutadiene	1004	33	1333	0	75.3	51-94	0
Hexachlorocyclopentadiene	922.7	33	1333	0	69.2	25-120	0
Hexachloroethane	1019	33	1333	0	76.5	55-93	0
Indeno(1,2,3-cd)pyrene	1178	6.7	1333	0	88.4	56-120	0
Isophorone	1147	170	1333	0	86.1	52-99	0
Naphthalene	1121	6.7	1333	0	84.1	46-98	0
Nitrobenzene	1144	170	1333	0	85.8	53-95	0
N-Nitrosodi-n-propylamine	1124	33	1333	0	84.3	50-104	0
N-Nitrosodiphenylamine	1209	33	1333	0	90.7	63-107	0
Pentachlorophenol	862	33	1333	0	64.7	34-106	0
Phenanthrene	1237	6.7	1333	0	92.8	66-101	0
Phenol	1145	33	1333	0	85.9	44-109	0
Pyrene	1309	6.7	1333	0	98.2	60-119	0
Surr: 2,4,6-Tribromophenol	*2971*	0	*3333*	0	*89.1*	*38-92*	0
Surr: 2-Fluorobiphenyl	*2619*	0	*3333*	0	*78.6*	*44-107*	0
Surr: 2-Fluorophenol	*2721*	0	*3333*	0	*81.6*	*37-109*	0
Surr: 4-Terphenyl-d14	*2865*	0	*3333*	0	*85.9*	*52-123*	0
Surr: Nitrobenzene-d5	*2727*	0	*3333*	0	*81.8*	*41-94*	0
Surr: Phenol-d6	*2773*	0	*3333*	0	*83.2*	*28-111*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **190670** Instrument ID **SVMS9** Method: **SW846 8270D**

MS Sample ID: **22011041-01B MS** Units: **µg/Kg** Analysis Date: **1/21/2022 03:29 PM**

Client ID: Run ID: **SVMS9_220121A** SeqNo: **8127116** Prep Date: **1/21/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	957.3	33	1323	0	72.4	40-93	0			
1,2-Dichlorobenzene	943.4	33	1323	0	71.3	42-94	0			
1,3-Dichlorobenzene	938.1	33	1323	0	70.9	41-94	0			
1,4-Dichlorobenzene	917.6	33	1323	0	69.4	42-94	0			
2,2`-Oxybis(1-chloropropane)	911	33	1323	0	68.9	47-107	0			
2,4,5-Trichlorophenol	1094	33	1323	0	82.7	52-111	0			
2,4,6-Trichlorophenol	1063	33	1323	0	80.4	46-105	0			
2,4-Dichlorophenol	1020	33	1323	0	77.1	47-96	0			
2,4-Dimethylphenol	1025	33	1323	0	77.5	49-97	0			
2,4-Dinitrophenol	408.2	660	1323	0	30.9	10-106	0			J
2,4-Dinitrotoluene	1238	33	1323	0	93.6	58-110	0			
2,6-Dinitrotoluene	1153	33	1323	0	87.2	59-108	0			
2-Chloronaphthalene	1042	6.6	1323	0	78.8	56-104	0			
2-Chlorophenol	1005	33	1323	0	76	50-104	0			
2-Methylnaphthalene	1035	6.6	1323	0	78.2	54-96	0			
2-Methylphenol	993.1	33	1323	0	75.1	49-105	0			
2-Nitroaniline	1100	33	1323	0	83.1	54-107	0			
2-Nitrophenol	1021	33	1323	0	77.2	51-94	0			
3&4-Methylphenol	998.3	33	1323	0	75.5	48-105	0			
3,3´-Dichlorobenzidine	904.4	170	1323	0	68.4	39-99	0			
3-Nitroaniline	1098	33	1323	0	83	17-92	0			
4,6-Dinitro-2-methylphenol	1097	33	1323	0	82.9	32-103	0			
4-Bromophenyl phenyl ether	1011	33	1323	0	76.4	60-106	0			
4-Chloro-3-methylphenol	1030	33	1323	0	77.9	51-101	0			
4-Chloroaniline	719.8	66	1323	0	54.4	27-110	0			
4-Chlorophenyl phenyl ether	1059	33	1323	0	80	58-106	0			
4-Nitroaniline	1156	170	1323	0	87.4	21-100	0			
4-Nitrophenol	1041	170	1323	0	78.7	29-120	0			
Acenaphthene	1006	6.6	1323	0	76.1	55-101	0			
Acenaphthylene	1068	6.6	1323	0	80.8	59-106	0			
Anthracene	1213	6.6	1323	0	91.7	67-105	0			
Benzo(a)anthracene	1154	6.6	1323	0	87.3	68-105	0			
Benzo(a)pyrene	1214	6.6	1323	0	91.8	68-110	0			
Benzo(b)fluoranthene	1180	6.6	1323	0	89.2	65-110	0			
Benzo(g,h,i)perylene	1063	6.6	1323	0	80.4	60-120	0			
Benzo(k)fluoranthene	1220	6.6	1323	0	92.2	66-113	0			
Bis(2-chloroethoxy)methane	959.3	33	1323	0	72.5	53-96	0			
Bis(2-chloroethyl)ether	1011	33	1323	0	76.4	47-108	0			
Bis(2-ethylhexyl)phthalate	1189	33	1323	0	89.9	59-117	0			
Butyl benzyl phthalate	1140	66	1323	0	86.2	59-106	0			
Carbazole	1211	33	1323	0	91.5	67-108	0			
Chrysene	1256	6.6	1323	0	94.9	68-108	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **190670** Instrument ID **SVMS9** Method: **SW846 8270D**

Dibenzo(a,h)anthracene	1053	6.6	1323	0	79.6	62-119	0
Dibenzofuran	1100	33	1323	0	83.2	60-104	0
Diethyl phthalate	1104	33	1323	0	83.4	62-111	0
Dimethyl phthalate	1130	33	1323	0	85.4	62-106	0
Di-n-butyl phthalate	1133	33	1323	0	85.6	59-105	0
Di-n-octyl phthalate	1238	33	1323	0	93.6	51-123	0
Fluoranthene	1195	6.6	1323	0	90.3	67-106	0
Fluorene	1128	6.6	1323	0	85.3	59-107	0
Hexachlorobenzene	1012	33	1323	0	76.5	62-103	0
Hexachlorobutadiene	836.3	33	1323	0	63.2	51-94	0
Hexachlorocyclopentadiene	786.6	33	1323	0	59.5	25-120	0
Hexachloroethane	866	33	1323	0	65.5	55-93	0
Indeno(1,2,3-cd)pyrene	1124	6.6	1323	0	85	56-120	0
Isophorone	1003	170	1323	0	75.8	52-99	0
Naphthalene	965.9	6.6	1323	0	73	46-98	0
Nitrobenzene	991.7	170	1323	0	75	53-95	0
N-Nitrosodi-n-propylamine	979.8	33	1323	0	74.1	50-104	0
N-Nitrosodiphenylamine	1190	33	1323	0	89.9	63-107	0
Pentachlorophenol	965.9	33	1323	0	73	34-106	0
Phenanthrene	1214	6.6	1323	0	91.8	66-101	0
Phenol	1006	33	1323	0	76	44-109	0
Pyrene	1288	6.6	1323	0	97.4	60-119	0
Surr: 2,4,6-Tribromophenol	*3010*	0	*3308*	0	*91*	*38-92*	0
Surr: 2-Fluorobiphenyl	*2383*	0	*3308*	0	*72*	*44-107*	0
Surr: 2-Fluorophenol	*2397*	0	*3308*	0	*72.5*	*37-109*	0
Surr: 4-Terphenyl-d14	*2816*	0	*3308*	0	*85.1*	*52-123*	0
Surr: Nitrobenzene-d5	*2320*	0	*3308*	0	*70.1*	*41-94*	0
Surr: Phenol-d6	*2438*	0	*3308*	0	*73.7*	*28-111*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190670** Instrument ID **SVMS9** Method: **SW846 8270D**

MSD	Sample ID: **22011041-01B MSD**				Units: **µg/Kg**			Analysis Date: **1/21/2022 03:53 PM**			
Client ID:		Run ID: **SVMS9_220121A**			SeqNo: **8127117**			Prep Date: **1/21/2022**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	874.6	32	1309	0	66.8	40-93	957.3	9.03	30	
1,2-Dichlorobenzene	858.3	32	1309	0	65.6	42-94	943.4	9.45	30	
1,3-Dichlorobenzene	847.8	32	1309	0	64.8	41-94	938.1	10.1	30	
1,4-Dichlorobenzene	843.9	32	1309	0	64.5	42-94	917.6	8.38	30	
2,2`-Oxybis(1-chloropropane)	854.3	32	1309	0	65.3	47-107	911	6.42	30	
2,4,5-Trichlorophenol	991.8	32	1309	0	75.8	52-111	1094	9.76	30	
2,4,6-Trichlorophenol	993.8	32	1309	0	75.9	46-105	1063	6.75	30	
2,4-Dichlorophenol	937.5	32	1309	0	71.6	47-96	1020	8.38	30	
2,4-Dimethylphenol	974.1	32	1309	0	74.4	49-97	1025	5.13	30	
2,4-Dinitrophenol	360.7	650	1309	0	27.6	10-106	408.2	0	30	J
2,4-Dinitrotoluene	1128	32	1309	0	86.2	58-110	1238	9.34	30	
2,6-Dinitrotoluene	1115	32	1309	0	85.2	59-108	1153	3.37	30	
2-Chloronaphthalene	985.9	6.5	1309	0	75.3	56-104	1042	5.53	30	
2-Chlorophenol	923.7	32	1309	0	70.6	50-104	1005	8.42	30	
2-Methylnaphthalene	959.7	6.5	1309	0	73.3	54-96	1035	7.52	30	
2-Methylphenol	933.6	32	1309	0	71.3	49-105	993.1	6.18	30	
2-Nitroaniline	1042	32	1309	0	79.6	54-107	1100	5.35	30	
2-Nitrophenol	904.1	32	1309	0	69.1	51-94	1021	12.1	30	
3&4-Methylphenol	933.6	32	1309	0	71.3	48-105	998.3	6.71	30	
3,3´-Dichlorobenzidine	895.6	160	1309	0	68.4	39-99	904.4	0.98	30	
3-Nitroaniline	1079	32	1309	0	82.4	17-92	1098	1.72	30	
4,6-Dinitro-2-methylphenol	1046	32	1309	0	79.9	32-103	1097	4.8	30	
4-Bromophenyl phenyl ether	973.5	32	1309	0	74.4	60-106	1011	3.77	30	
4-Chloro-3-methylphenol	981.3	32	1309	0	75	51-101	1030	4.85	30	
4-Chloroaniline	676.9	66	1309	0	51.7	27-110	719.8	6.14	30	
4-Chlorophenyl phenyl ether	994.4	32	1309	0	76	58-106	1059	6.25	30	
4-Nitroaniline	1126	160	1309	0	86	21-100	1156	2.67	30	
4-Nitrophenol	955.2	160	1309	0	73	29-120	1041	8.57	30	
Acenaphthene	953.8	6.5	1309	0	72.9	55-101	1006	5.35	30	
Acenaphthylene	998.4	6.5	1309	0	76.3	59-106	1068	6.78	30	
Anthracene	1196	6.5	1309	0	91.4	67-105	1213	1.44	30	
Benzo(a)anthracene	1125	6.5	1309	0	86	68-105	1154	2.55	30	
Benzo(a)pyrene	1207	6.5	1309	0	92.2	68-110	1214	0.617	30	
Benzo(b)fluoranthene	1174	6.5	1309	0	89.7	65-110	1180	0.55	30	
Benzo(g,h,i)perylene	1042	6.5	1309	0	79.6	60-120	1063	2.05	30	
Benzo(k)fluoranthene	1196	6.5	1309	0	91.4	66-113	1220	1.98	30	
Bis(2-chloroethoxy)methane	887.7	32	1309	0	67.8	53-96	959.3	7.75	30	
Bis(2-chloroethyl)ether	885.1	32	1309	0	67.6	47-108	1011	13.3	30	
Bis(2-ethylhexyl)phthalate	1180	32	1309	0	90.2	59-117	1189	0.719	30	
Butyl benzyl phthalate	1133	66	1309	0	86.6	59-106	1140	0.59	30	
Carbazole	1177	32	1309	0	89.9	67-108	1211	2.82	30	
Chrysene	1224	6.5	1309	0	93.5	68-108	1256	2.54	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **190670** Instrument ID **SVMS9** Method: **SW846 8270D**

Dibenzo(a,h)anthracene	1050	6.5	1309	0	80.2	62-119	1053	0.302	30
Dibenzofuran	1053	32	1309	0	80.4	60-104	1100	4.42	30
Diethyl phthalate	1059	32	1309	0	80.9	62-111	1104	4.1	30
Dimethyl phthalate	1086	32	1309	0	83	62-106	1130	3.96	30
Di-n-butyl phthalate	1099	32	1309	0	83.9	59-105	1133	3.06	30
Di-n-octyl phthalate	1232	32	1309	0	94.1	51-123	1238	0.52	30
Fluoranthene	1172	6.5	1309	0	89.5	67-106	1195	1.94	30
Fluorene	1043	6.5	1309	0	79.7	59-107	1128	7.84	30
Hexachlorobenzene	993.1	32	1309	0	75.9	62-103	1012	1.84	30
Hexachlorobutadiene	772.5	32	1309	0	59	51-94	836.3	7.93	30
Hexachlorocyclopentadiene	718.8	32	1309	0	54.9	25-120	786.6	9.01	30
Hexachloroethane	813.1	32	1309	0	62.1	55-93	866	6.3	30
Indeno(1,2,3-cd)pyrene	1103	6.5	1309	0	84.3	56-120	1124	1.88	30
Isophorone	961	160	1309	0	73.4	52-99	1003	4.27	30
Naphthalene	886.4	6.5	1309	0	67.7	46-98	965.9	8.59	30
Nitrobenzene	903.4	160	1309	0	69	53-95	991.7	9.32	30
N-Nitrosodi-n-propylamine	914.6	32	1309	0	69.9	50-104	979.8	6.89	30
N-Nitrosodiphenylamine	1167	32	1309	0	89.1	63-107	1190	1.95	30
Pentachlorophenol	905.4	32	1309	0	69.2	34-106	965.9	6.47	30
Phenanthrene	1178	6.5	1309	0	90	66-101	1214	2.98	30
Phenol	938.1	32	1309	0	71.7	44-109	1006	6.94	30
Pyrene	1256	6.5	1309	0	95.9	60-119	1288	2.55	30
Surr: 2,4,6-Tribromophenol	*2846*	0	*3273*	0	*87*	*38-92*	3010	*5.57*	*40*
Surr: 2-Fluorobiphenyl	*2208*	0	*3273*	0	*67.4*	*44-107*	2383	*7.65*	*40*
Surr: 2-Fluorophenol	*2156*	0	*3273*	0	*65.9*	*37-109*	2397	*10.6*	*40*
Surr: 4-Terphenyl-d14	*2704*	0	*3273*	0	*82.6*	*52-123*	2816	*4.08*	*40*
Surr: Nitrobenzene-d5	*2120*	0	*3273*	0	*64.8*	*41-94*	2320	*9.03*	*40*
Surr: Phenol-d6	*2235*	0	*3273*	0	*68.3*	*28-111*	2438	*8.69*	*40*

The following samples were analyzed in this batch: 22010880-09B 22010880-10B 22010880-11B 22010880-12B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **190390** Instrument ID **VMS8** Method: **SW8260C**

MBLK	Sample ID: **MBLK-190390-190390**				Units: **µg/Kg-dry**		Analysis Date: **1/19/2022 11:53 AM**			
Client ID:		Run ID: **VMS8_220119A**			SeqNo: **8119941**		Prep Date: **1/14/2022**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2-Dichloroethane	U	100								
1,2-Dichloropropane	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	U	100								
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	100								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Dibromochloromethane	U	30								
Ethylbenzene	U	30								
Methyl tert-butyl ether	U	30								
Methylene chloride	U	250								
Styrene	U	30								
Tetrachloroethene	U	30								
Toluene	U	30								
trans-1,2-Dichloroethene	U	30								
trans-1,3-Dichloropropene	U	30								
Trichloroethene	U	30								
Vinyl acetate	U	250								
Vinyl chloride	U	30								
1,3-Dichloropropene, Total	U	60								
Xylenes, Total	U	90								
Surr: 1,2-Dichloroethane-d4	*984.5*	0	*1000*	0	*98.4*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1076*	0	*1000*	0	*108*	*70-130*	0			
Surr: Dibromofluoromethane	*1014*	0	*1000*	0	*101*	*70-130*	0			
Surr: Toluene-d8	*943.5*	0	*1000*	0	*94.4*	*70-130*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190390** Instrument ID **VMS8** Method: **SW8260C**

LCS	Sample ID: **LCS-190390-190390**				Units: **µg/Kg-dry**		Analysis Date: **1/19/2022 10:59 AM**			
Client ID:		Run ID: **VMS8_220119A**			SeqNo: **8119939**		Prep Date: **1/14/2022**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1008	30	1000	0	101	70-135	0			
1,1,2,2-Tetrachloroethane	1078	30	1000	0	108	55-130	0			
1,1,2-Trichloroethane	1002	30	1000	0	100	60-125	0			
1,1-Dichloroethane	996.5	30	1000	0	99.6	75-125	0			
1,1-Dichloroethene	982	30	1000	0	98.2	76-148	0			
1,2-Dichloroethane	1018	100	1000	0	102	70-135	0			
1,2-Dichloropropane	1018	30	1000	0	102	70-120	0			
2-Butanone	1038	200	1000	0	104	30-160	0			
2-Hexanone	1016	30	1000	0	102	45-145	0			
4-Methyl-2-pentanone	1452	30	1000	0	145	74-176	0			
Acetone	1058	100	1000	0	106	20-160	0			
Benzene	968.5	30	1000	0	96.8	75-125	0			
Bromodichloromethane	997.5	30	1000	0	99.8	70-130	0			
Bromoform	934.5	30	1000	0	93.4	55-135	0			
Bromomethane	1056	100	1000	0	106	50-170	0			
Carbon disulfide	1112	30	1000	0	111	45-160	0			
Carbon tetrachloride	967.5	30	1000	0	96.8	65-135	0			
Chlorobenzene	953	30	1000	0	95.3	75-125	0			
Chloroethane	956.5	100	1000	0	95.6	40-155	0			
Chloroform	961.5	30	1000	0	96.2	66-140	0			
Chloromethane	607.5	100	1000	0	60.8	50-144	0			
cis-1,2-Dichloroethene	956.5	30	1000	0	95.6	65-125	0			
cis-1,3-Dichloropropene	967.5	30	1000	0	96.8	70-125	0			
Dibromochloromethane	965	30	1000	0	96.5	65-135	0			
Ethylbenzene	1003	30	1000	0	100	75-125	0			
Methyl tert-butyl ether	1044	30	1000	0	104	75-125	0			
Methylene chloride	945	250	1000	0	94.5	55-145	0			
Styrene	1060	30	1000	0	106	80-138	0			
Tetrachloroethene	1040	30	1000	0	104	67-167	0			
Toluene	955.5	30	1000	0	95.6	70-125	0			
trans-1,2-Dichloroethene	976	30	1000	0	97.6	65-135	0			
trans-1,3-Dichloropropene	948	30	1000	0	94.8	59-129	0			
Trichloroethene	981.5	30	1000	0	98.2	75-125	0			
Vinyl chloride	863	30	1000	0	86.3	60-125	0			
1,3-Dichloropropene, Total	1916	60	2000	0	95.8	59-129	0			
Xylenes, Total	2920	90	3000	0	97.3	75-125	0			
Surr: 1,2-Dichloroethane-d4	*1014*	0	*1000*	0	*101*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1006*	0	*1000*	0	*101*	*70-130*	0			
Surr: Dibromofluoromethane	*1006*	0	*1000*	0	*101*	*70-130*	0			
Surr: Toluene-d8	*975.5*	0	*1000*	0	*97.6*	*70-130*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190390** Instrument ID **VMS8** Method: **SW8260C**

MS	Sample ID: **22010926-01A MS**				Units: **µg/Kg-dry**		Analysis Date: **1/19/2022 06:52 PM**			
Client ID:		Run ID: **VMS8_220119A**			SeqNo: **8119964**		Prep Date: **1/14/2022**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1154	34	1123	0	103	70-135	0			
1,1,2,2-Tetrachloroethane	1105	34	1123	0	98.4	55-130	0			
1,1,2-Trichloroethane	1083	34	1123	0	96.4	60-125	0			
1,1-Dichloroethane	1086	34	1123	0	96.7	75-125	0			
1,1-Dichloroethene	1136	34	1123	0	101	76-148	0			
1,2-Dichloroethane	1104	110	1123	0	98.3	70-135	0			
1,2-Dichloropropane	1111	34	1123	0	99	70-120	0			
2-Butanone	1149	220	1123	0	102	30-160	0			
2-Hexanone	1218	34	1123	0	108	45-145	0			
4-Methyl-2-pentanone	1019	34	1123	0	90.8	74-176	0			
Acetone	1536	110	1123	0	137	20-160	0			
Benzene	1081	34	1123	0	96.3	75-125	0			
Bromodichloromethane	1084	34	1123	0	96.5	70-130	0			
Bromoform	998.9	34	1123	0	89	55-135	0			
Bromomethane	987.7	110	1123	0	88	50-170	0			
Carbon disulfide	1273	34	1123	0	113	45-160	0			
Carbon tetrachloride	1074	34	1123	0	95.6	65-135	0			
Chlorobenzene	1076	34	1123	0	95.9	75-125	0			
Chloroethane	478.4	110	1123	0	42.6	40-155	0			
Chloroform	1060	34	1123	0	94.4	66-140	0			
Chloromethane	646.8	110	1123	0	57.6	50-144	0			
cis-1,2-Dichloroethene	1072	34	1123	0	95.5	65-125	0			
cis-1,3-Dichloropropene	1019	34	1123	0	90.8	70-125	0			
Dibromochloromethane	1016	34	1123	0	90.5	65-135	0			
Ethylbenzene	1140	34	1123	0	102	75-125	0			
Methyl tert-butyl ether	1212	34	1123	0	108	75-125	0			
Methylene chloride	1034	280	1123	14.6	90.7	55-145	0			
Styrene	1176	34	1123	0	105	80-138	0			
Tetrachloroethene	1729	34	1123	0	154	67-167	0			
Toluene	1089	34	1123	0	97	70-125	0			
trans-1,2-Dichloroethene	1086	34	1123	0	96.7	65-135	0			
trans-1,3-Dichloropropene	996.1	34	1123	0	88.7	59-129	0			
Trichloroethene	1165	34	1123	0	104	75-125	0			
Vinyl chloride	933.8	34	1123	0	83.2	60-125	0			
1,3-Dichloropropene, Total	2015	67	2246	0	89.7	59-129	0			
Xylenes, Total	3250	100	3369	0	96.5	75-125	0			
Surr: 1,2-Dichloroethane-d4	*1094*	0	*1123*	0	*97.4*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1143*	0	*1123*	0	*102*	*70-130*	0			
Surr: Dibromofluoromethane	*1133*	0	*1123*	0	*101*	*70-130*	0			
Surr: Toluene-d8	*1093*	0	*1123*	0	*97.3*	*70-130*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190390** Instrument ID **VMS8** Method: **SW8260C**

MSD	Sample ID: **22010926-01A MSD**				Units: **µg/Kg-dry**		Analysis Date: **1/19/2022 07:10 PM**			
Client ID:		Run ID: **VMS8_220119A**			SeqNo: **8119965**		Prep Date: **1/14/2022**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1099	34	1123	0	97.9	70-135	1154	4.93	30	
1,1,2,2-Tetrachloroethane	1110	34	1123	0	98.8	55-130	1105	0.406	30	
1,1,2-Trichloroethane	1135	34	1123	0	101	60-125	1083	4.76	30	
1,1-Dichloroethane	1068	34	1123	0	95.1	75-125	1086	1.67	30	
1,1-Dichloroethene	1084	34	1123	0	96.5	76-148	1136	4.75	30	
1,2-Dichloroethane	1071	110	1123	0	95.4	70-135	1104	3.05	30	
1,2-Dichloropropane	1063	34	1123	0	94.6	70-120	1111	4.44	30	
2-Butanone	1499	220	1123	0	133	30-160	1149	26.4	30	
2-Hexanone	1421	34	1123	0	127	45-145	1218	15.3	30	
4-Methyl-2-pentanone	1519	34	1123	0	135	74-176	1019	39.4	30	R
Acetone	2331	110	1123	0	208	20-160	1536	41.1	30	SR
Benzene	1049	34	1123	0	93.4	75-125	1081	3.06	30	
Bromodichloromethane	1041	34	1123	0	92.7	70-130	1084	4.02	30	
Bromoform	969.7	34	1123	0	86.4	55-135	998.9	2.97	30	
Bromomethane	1062	110	1123	0	94.6	50-170	987.7	7.23	30	
Carbon disulfide	1207	34	1123	0	107	45-160	1273	5.39	30	
Carbon tetrachloride	1078	34	1123	0	96	65-135	1074	0.417	30	
Chlorobenzene	1048	34	1123	0	93.3	75-125	1076	2.64	30	
Chloroethane	491.9	110	1123	0	43.8	40-155	478.4	2.78	30	
Chloroform	1047	34	1123	0	93.3	66-140	1060	1.23	30	
Chloromethane	695.7	110	1123	0	62	50-144	646.8	7.28	30	
cis-1,2-Dichloroethene	1042	34	1123	0	92.8	65-125	1072	2.92	30	
cis-1,3-Dichloropropene	985.4	34	1123	0	87.8	70-125	1019	3.36	30	
Dibromochloromethane	1030	34	1123	0	91.8	65-135	1016	1.43	30	
Ethylbenzene	1091	34	1123	0	97.2	75-125	1140	4.43	30	
Methyl tert-butyl ether	1085	34	1123	0	96.6	75-125	1212	11	30	
Methylene chloride	994.4	280	1123	14.6	87.3	55-145	1034	3.88	30	
Styrene	1186	34	1123	0	106	80-138	1176	0.903	30	
Tetrachloroethene	1943	34	1123	0	173	67-167	1729	11.6	30	S
Toluene	1065	34	1123	0	94.9	70-125	1089	2.24	30	
trans-1,2-Dichloroethene	1074	34	1123	0	95.6	65-135	1086	1.14	30	
trans-1,3-Dichloropropene	996.6	34	1123	0	88.8	59-129	996.1	0.0564	30	
Trichloroethene	1142	34	1123	0	102	75-125	1165	2.04	30	
Vinyl chloride	973.1	34	1123	0	86.7	60-125	933.8	4.12	30	
1,3-Dichloropropene, Total	1982	67	2246	0	88.3	59-129	2015	1.66	30	
Xylenes, Total	3188	100	3369	0	94.6	75-125	3250	1.94	30	
Surr: 1,2-Dichloroethane-d4	*1093*	0	*1123*	0	*97.3*	*70-130*	1094	*0.102*	*30*	
Surr: 4-Bromofluorobenzene	*1175*	0	*1123*	0	*105*	*70-130*	1143	*2.76*	*30*	
Surr: Dibromofluoromethane	*1116*	0	*1123*	0	*99.3*	*70-130*	1133	*1.55*	*30*	
Surr: Toluene-d8	*1118*	0	*1123*	0	*99.6*	*70-130*	1093	*2.34*	*30*	

The following samples were analyzed in this batch: 22010880-01A 22010880-06A 22010880-08A 22010880-10A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R336706** Instrument ID **VMS8** Method: **SW8260C**

MBLK Sample ID: **8V-BLKS1-220120-R336706** Units: **µg/Kg** Analysis Date: **1/20/2022 11:53 AM**

Client ID: Run ID: **VMS8_220120A** SeqNo: **8122982** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.0								
1,1,2,2-Tetrachloroethane	U	5.0								
1,1,2-Trichloroethane	U	5.0								
1,1-Dichloroethane	U	5.0								
1,1-Dichloroethene	U	5.0								
1,2-Dichloroethane	U	5.0								
1,2-Dichloropropane	U	5.0								
2-Butanone	U	10								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	5.0								
Acetone	U	10								
Benzene	U	5.0								
Bromodichloromethane	U	5.0								
Bromoform	U	5.0								
Bromomethane	U	10								
Carbon disulfide	U	5.0								
Carbon tetrachloride	U	5.0								
Chlorobenzene	U	5.0								
Chloroethane	U	5.0								
Chloroform	U	5.0								
Chloromethane	U	10								
cis-1,2-Dichloroethene	U	5.0								
cis-1,3-Dichloropropene	U	5.0								
Dibromochloromethane	U	5.0								
Ethylbenzene	U	5.0								
Methyl tert-butyl ether	U	5.0								
Methylene chloride	U	10								
Styrene	U	5.0								
Tetrachloroethene	U	5.0								
Toluene	U	5.0								
trans-1,2-Dichloroethene	U	5.0								
trans-1,3-Dichloropropene	U	5.0								
Trichloroethene	U	5.0								
Vinyl acetate	U	20								
Vinyl chloride	U	5.0								
1,3-Dichloropropene, Total	U	15								
Xylenes, Total	U	5.0								
Surr: 1,2-Dichloroethane-d4	*18.43*	0	*20*	0	*92.2*	*83-132*	0			
Surr: 4-Bromofluorobenzene	*19.43*	0	*20*	0	*97.2*	*83-111*	0			
Surr: Dibromofluoromethane	*19.28*	0	*20*	0	*96.4*	*77-125*	0			
Surr: Toluene-d8	*19.45*	0	*20*	0	*97.2*	*86-108*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **R336706** Instrument ID **VMS8** Method: **SW8260C**

LCS	Sample ID: **8V-LCSS1-220120-R336706**				Units: **µg/Kg**			Analysis Date: **1/20/2022 11:08 AM**		
Client ID:	Run ID: **VMS8_220120A**				SeqNo: **8122981**		Prep Date:		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	18.72	5.0	20	0	93.6	73-138	0			
1,1,2,2-Tetrachloroethane	18.73	5.0	20	0	93.6	71-126	0			
1,1,2-Trichloroethane	18.8	5.0	20	0	94	77-123	0			
1,1-Dichloroethane	18.38	5.0	20	0	91.9	63-148	0			
1,1-Dichloroethene	16.31	5.0	20	0	81.6	67-156	0			
1,2-Dichloroethane	19.11	5.0	20	0	95.6	77-127	0			
1,2-Dichloropropane	19.33	5.0	20	0	96.6	74-130	0			
2-Butanone	16.63	10	20	0	83.2	55-132	0			
2-Hexanone	15.99	5.0	20	0	80	55-124	0			
4-Methyl-2-pentanone	21.63	5.0	20	0	108	67-159	0			
Acetone	15.57	10	20	0	77.8	31-156	0			
Benzene	19.34	5.0	20	0	96.7	77-133	0			
Bromodichloromethane	18.91	5.0	20	0	94.6	69-133	0			
Bromoform	16.88	5.0	20	0	84.4	55-126	0			
Bromomethane	17.01	10	20	0	85	31-174	0			
Carbon disulfide	18.3	5.0	20	0	91.5	45-160	0			
Carbon tetrachloride	18.64	5.0	20	0	93.2	69-140	0			
Chlorobenzene	19.1	5.0	20	0	95.5	76-130	0			
Chloroethane	13.49	5.0	20	0	67.4	53-150	0			
Chloroform	17.63	5.0	20	0	88.2	72-132	0			
Chloromethane	12.33	10	20	0	61.6	43-150	0			
cis-1,2-Dichloroethene	18.29	5.0	20	0	91.4	74-134	0			
cis-1,3-Dichloropropene	18.44	5.0	20	0	92.2	62-134	0			
Dibromochloromethane	17	5.0	20	0	85	57-118	0			
Ethylbenzene	18.81	5.0	20	0	94	75-133	0			
Methyl tert-butyl ether	17.35	5.0	20	0	86.8	62-136	0			
Methylene chloride	13.78	10	20	0	68.9	55-157	0			
Styrene	19.51	5.0	20	0	97.6	72-138	0			
Tetrachloroethene	18.91	5.0	20	0	94.6	70-171	0			
Toluene	19.08	5.0	20	0	95.4	76-130	0			
trans-1,2-Dichloroethene	16.72	5.0	20	0	83.6	65-137	0			
trans-1,3-Dichloropropene	17.81	5.0	20	0	89	58-126	0			
Trichloroethene	19.49	5.0	20	0	97.4	75-135	0			
Vinyl chloride	16.23	5.0	20	0	81.2	57-143	0			
1,3-Dichloropropene, Total	36.25	15	40	0	90.6	70-130	0			
Xylenes, Total	58.74	5.0	60	0	97.9	75-132	0			
Surr: 1,2-Dichloroethane-d4	*19.76*	0	*20*	0	*98.8*	*83-132*	0			
Surr: 4-Bromofluorobenzene	*20.21*	0	*20*	0	*101*	*83-111*	0			
Surr: Dibromofluoromethane	*19.65*	0	*20*	0	*98.2*	*77-125*	0			
Surr: Toluene-d8	*20.16*	0	*20*	0	*101*	*86-108*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **R336706** Instrument ID **VMS8** Method: **SW8260C**

MS	Sample ID: **22011048-01A MS**				Units: **µg/Kg**		Analysis Date: **1/20/2022 04:48 PM**			
Client ID:		Run ID: **VMS8_220120A**			SeqNo: **8122996**		Prep Date:		DF: **0.982**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	15.35	4.9	19.64	0	78.2	73-138	0			
1,1,2,2-Tetrachloroethane	15.98	4.9	19.64	0	81.3	71-126	0			
1,1,2-Trichloroethane	15.89	4.9	19.64	0	80.9	77-123	0			
1,1-Dichloroethane	14.77	4.9	19.64	0	75.2	63-148	0			
1,1-Dichloroethene	13.63	4.9	19.64	0	69.4	67-156	0			
1,2-Dichloroethane	15.94	4.9	19.64	0	81.2	77-127	0			
1,2-Dichloropropane	16.06	4.9	19.64	0	81.8	74-130	0			
2-Butanone	28.22	9.8	19.64	0	144	55-132	0			S
2-Hexanone	24.84	4.9	19.64	0	126	55-124	0			S
4-Methyl-2-pentanone	21.09	4.9	19.64	0	107	67-159	0			
Acetone	38.62	9.8	19.64	6.771	162	31-156	0			S
Benzene	15.02	4.9	19.64	0.3932	74.5	77-133	0			S
Bromodichloromethane	15.92	4.9	19.64	0	81	69-133	0			
Bromoform	13.69	4.9	19.64	0	69.7	55-126	0			
Bromomethane	13.03	9.8	19.64	0	66.3	31-174	0			
Carbon disulfide	14.23	4.9	19.64	0	72.5	45-160	0			
Carbon tetrachloride	15.25	4.9	19.64	0	77.7	69-140	0			
Chlorobenzene	14.88	4.9	19.64	0	75.8	76-130	0			S
Chloroethane	10.66	4.9	19.64	0	54.3	53-150	0			
Chloroform	14.94	4.9	19.64	0	76	72-132	0			
Chloromethane	8.622	9.8	19.64	0	43.9	43-150	0			J
cis-1,2-Dichloroethene	15.37	4.9	19.64	0	78.2	74-134	0			
cis-1,3-Dichloropropene	15.11	4.9	19.64	0	77	62-134	0			
Dibromochloromethane	14.57	4.9	19.64	0	74.2	57-118	0			
Ethylbenzene	14.8	4.9	19.64	0	75.3	75-133	0			
Methyl tert-butyl ether	15.15	4.9	19.64	0	77.2	62-136	0			
Methylene chloride	13	9.8	19.64	0	66.2	55-157	0			
Styrene	15.22	4.9	19.64	0	77.5	72-138	0			
Tetrachloroethene	15.67	4.9	19.64	0	79.8	70-171	0			
Toluene	15.06	4.9	19.64	0.3146	75.1	76-130	0			S
trans-1,2-Dichloroethene	13.63	4.9	19.64	0	69.4	65-137	0			
trans-1,3-Dichloropropene	14.9	4.9	19.64	0	75.8	58-126	0			
Trichloroethene	15.18	4.9	19.64	0	77.3	75-135	0			
Vinyl chloride	12.61	4.9	19.64	0	64.2	57-143	0			
1,3-Dichloropropene, Total	30.01	15	39.28	0	76.4	70-130	0			
Xylenes, Total	46.43	4.9	58.92	0	78.8	75-132	0			
Surr: 1,2-Dichloroethane-d4	*19.65*	0	*19.64*	0	*100*	*83-132*	0			
Surr: 4-Bromofluorobenzene	*19.79*	0	*19.64*	0	*101*	*83-111*	0			
Surr: Dibromofluoromethane	*19.39*	0	*19.64*	0	*98.8*	*77-125*	0			
Surr: Toluene-d8	*18.82*	0	*19.64*	0	*95.8*	*86-108*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **R336706** Instrument ID **VMS8** Method: **SW8260C**

MSD	Sample ID: **22011048-01A MSD**				Units: **µg/Kg**			Analysis Date: **1/20/2022 05:07 PM**			
Client ID:		Run ID: **VMS8_220120A**			SeqNo: **8122997**		Prep Date:		DF: **0.992**		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	17.04	5.0	19.84	0	85.9	73-138	15.35	10.5	30	
1,1,2,2-Tetrachloroethane	17.04	5.0	19.84	0	85.9	71-126	15.98	6.45	30	
1,1,2-Trichloroethane	17.11	5.0	19.84	0	86.2	77-123	15.89	7.41	30	
1,1-Dichloroethane	16.84	5.0	19.84	0	84.9	63-148	14.77	13.1	30	
1,1-Dichloroethene	14.84	5.0	19.84	0	74.8	67-156	13.63	8.5	30	
1,2-Dichloroethane	16.94	5.0	19.84	0	85.4	77-127	15.94	6.12	30	
1,2-Dichloropropane	17.15	5.0	19.84	0	86.5	74-130	16.06	6.6	30	
2-Butanone	34.12	9.9	19.84	0	172	55-132	28.22	18.9	30	S
2-Hexanone	28.48	5.0	19.84	0	144	55-124	24.84	13.6	30	S
4-Methyl-2-pentanone	25.13	5.0	19.84	0	127	67-159	21.09	17.5	30	
Acetone	43.73	9.9	19.84	6.771	186	31-156	38.62	12.4	30	S
Benzene	16.42	5.0	19.84	0.3932	80.8	77-133	15.02	8.86	30	
Bromodichloromethane	16.49	5.0	19.84	0	83.1	69-133	15.92	3.51	30	
Bromoform	15.33	5.0	19.84	0	77.2	55-126	13.69	11.3	30	
Bromomethane	14.1	9.9	19.84	0	71	31-174	13.03	7.85	30	
Carbon disulfide	15.25	5.0	19.84	0	76.8	45-160	14.23	6.91	30	
Carbon tetrachloride	16.81	5.0	19.84	0	84.8	69-140	15.25	9.75	30	
Chlorobenzene	15	5.0	19.84	0	75.6	76-130	14.88	0.815	30	S
Chloroethane	12.99	5.0	19.84	0	65.5	53-150	10.66	19.6	30	
Chloroform	16.67	5.0	19.84	0	84	72-132	14.94	10.9	30	
Chloromethane	9.86	9.9	19.84	0	49.7	43-150	8.622	0	30	J
cis-1,2-Dichloroethene	16.37	5.0	19.84	0	82.5	74-134	15.37	6.3	30	
cis-1,3-Dichloropropene	15.6	5.0	19.84	0	78.7	62-134	15.11	3.2	30	
Dibromochloromethane	14.94	5.0	19.84	0	75.3	57-118	14.57	2.48	30	
Ethylbenzene	15.03	5.0	19.84	0	75.8	75-133	14.8	1.54	30	
Methyl tert-butyl ether	18.22	5.0	19.84	0	91.8	62-136	15.15	18.4	30	
Methylene chloride	15.13	9.9	19.84	0	76.2	55-157	13	15.1	30	
Styrene	14.91	5.0	19.84	0	75.2	72-138	15.22	2.07	30	
Tetrachloroethene	15.92	5.0	19.84	0	80.2	70-171	15.67	1.58	30	
Toluene	15.8	5.0	19.84	0.3146	78.1	76-130	15.06	4.79	30	
trans-1,2-Dichloroethene	14.93	5.0	19.84	0	75.2	65-137	13.63	9.1	30	
trans-1,3-Dichloropropene	15.34	5.0	19.84	0	77.3	58-126	14.9	2.91	30	
Trichloroethene	15.95	5.0	19.84	0	80.4	75-135	15.18	4.94	30	
Vinyl chloride	13.92	5.0	19.84	0	70.2	57-143	12.61	9.87	30	
1,3-Dichloropropene, Total	30.94	15	39.68	0	78	70-130	30.01	3.05	30	
Xylenes, Total	47.47	5.0	59.52	0	79.8	75-132	46.43	2.21	30	
Surr: 1,2-Dichloroethane-d4	*20.53*	0	*19.84*	0	*104*	*83-132*	19.65	*4.4*	*30*	
Surr: 4-Bromofluorobenzene	*20.15*	0	*19.84*	0	*102*	*83-111*	19.79	*1.8*	*30*	
Surr: Dibromofluoromethane	*19.56*	0	*19.84*	0	*98.6*	*77-125*	19.39	*0.861*	*30*	
Surr: Toluene-d8	*19.68*	0	*19.84*	0	*99.2*	*86-108*	18.82	*4.45*	*30*	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **R336706** Instrument ID **VMS8** Method: **SW8260C**

The following samples were analyzed in this batch:

22010880-02A	22010880-03A	22010880-04A
22010880-05A	22010880-07A	22010880-09A
22010880-11A	22010880-12A	22010880-25A
22010880-26A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190518** Instrument ID **WETCHEM** Method: **SW9045D**

LCS Sample ID: **LCS-190518-190518** Units: **s.u.** Analysis Date: **1/19/2022 08:48 AM**
Client ID: Run ID: **WETCHEM_220119F** SeqNo: **8118385** Prep Date: **1/18/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	4.03	0.10	4	0	101	90-110	0			

DUP Sample ID: **22010965-01A DUP** Units: **s.u.** Analysis Date: **1/19/2022 08:48 AM**
Client ID: Run ID: **WETCHEM_220119F** SeqNo: **8118400** Prep Date: **1/18/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.6	0.10	0	0	0	0-0	7.58	0.264	20	
Temperature	21.4	0.10	0	0	0		21.4	0		

DUP Sample ID: **22011031-01A DUP** Units: **s.u.** Analysis Date: **1/19/2022 08:48 AM**
Client ID: Run ID: **WETCHEM_220119F** SeqNo: **8118402** Prep Date: **1/18/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.26	0.10	0	0	0	0-0	7.14	1.67	20	
Temperature	21.2	0.10	0	0	0		21.3	0.471		

The following samples were analyzed in this batch:

22010880-01B	22010880-02B	22010880-03B
22010880-04B	22010880-05B	22010880-06B
22010880-07B	22010880-08B	22010880-09B
22010880-10B	22010880-11B	22010880-12B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.
Work Order: 22010880
Project: WSP11/W007

QC BATCH REPORT

Batch ID: **R336590** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R336590** Units: **% of sample** Analysis Date: **1/18/2022 12:07 PM**
Client ID: Run ID: **MOIST_220118A** SeqNo: **8115994** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.10								

LCS Sample ID: **LCS-R336590** Units: **% of sample** Analysis Date: **1/18/2022 12:07 PM**
Client ID: Run ID: **MOIST_220118A** SeqNo: **8115993** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	99.99	0.10	100	0	100	98-102	0			

DUP Sample ID: **22010874-01A DUP** Units: **% of sample** Analysis Date: **1/18/2022 12:07 PM**
Client ID: Run ID: **MOIST_220118A** SeqNo: **8115969** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	92.98	0.10	0	0	0	0-0	93.05	0.0753	10	

DUP Sample ID: **22010933-01A DUP** Units: **% of sample** Analysis Date: **1/18/2022 12:07 PM**
Client ID: Run ID: **MOIST_220118A** SeqNo: **8115987** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	14.63	0.10	0	0	0	0-0	14.52	0.755	10	

The following samples were analyzed in this batch:

22010880-01B	22010880-02B	22010880-03B
22010880-04B	22010880-05B	22010880-06B
22010880-07B	22010880-08B	22010880-09B
22010880-10B	22010880-11B	22010880-12B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

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South Charleston, WV +1 304 356 3168
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Chain of Custody Form

Page ____ of ____

COC ID: 249947

ALS Project Manager: | ALS Work Order #: 22010880

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	WSP11/W007	A	PH
Work Order		Project Number		B	%Solids
Company Name	WSP	Bill To Company	WSP	C	VOCs (8260B/5035)
Send Report To	D. Trebout	Invoice Attn		D	SVOCs (8270D)
Address	30 N. LaSalle St	Address		E	Total Metals (6010B/6020A/7471B)
				F	TCLP Metals (1311/6010B/6020A/7470A)*
City/State/Zip	Chicago, IL	City/State/Zip		G	
Phone		Phone		H	
Fax		Fax		I	
e-Mail Address	Dean.Trebout@wsp.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	36008-04-B01 (0-5)	1/12/22	1100	S	-	5	X	X	X	X	X	X					
2	36008-04-B01 (5-10)	1/12/22	1120	S	-	5	X	X	X	X	X	X					
3	36008-04-B01 (10-15)	1/12/22	1125	S	-	5	X	X	X	X	X	X					
4	36008-04-B01 (15-21)	1/12/22	1140	S	-	5	X	X	X	X	X	X					
5	36008-04-B03 (0-5)	1/12/22	1220	S	-	5	X	X	X	X	X	X					
6	36008-04-B03 (5-10)	1/12/22	1230	S	-	5	X	X	X	X	X	X					
7	36008-04-B03 (10-15)	1/12/22	1235	S	-	5	X	X	X	X	X	X					
8	36008-04-B03 (15-21)	1/12/22	1245	S	-	5	X	X	X	X	X	X					
9	36008-04-B02 (0-3)	1/12/22	1330	S	-	5	X	X	X	X	X	X					
10																	

Sampler(s) Please Print & Sign	Shipment Method	Required Turnaround Time: (Check Box)	Results Due Date:
		~~5 days~~ 10 days	

Relinquished by: Cindy Hoyal	Date: 1/12/2022	Time: 1400	Received by:	Notes: *TCLP Analysis based on TCLP Results (CHM)*	
Relinquished by: FedEx	Date: 1/13/22	Time: 1630	Received by (Laboratory): 1/12/2022	Cooler ID	Cooler Temp.
Logged by (Laboratory): KW	Date: 1/14/22	Time: 1220	Checked by (Laboratory):	1R3	3.8°C
					3.1°C

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

QC Package: (Check One Box Below)

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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Chain of Custody Form

Page ____ of ____

COC ID: 249948

ALS Project Manager: | ALS Work Order #: 22010880

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	WSP11/W0007 IDOT	A	PH
Work Order		Project Number		B	%Solid
Company Name	WSP	Bill To Company	WSP	C	VOCs (8260B/5035)
Send Report To	D. Tiebout	Invoice Attn		D	SVOCs (8270D)
Address	30 N. LaSalle St	Address		E	Total Metals (6010B/6020A/7471B)
				F	TCLP Metals (1311/6010B/6020A/7470B)*
City/State/Zip	Chicago, IL	City/State/Zip		G	
Phone		Phone		H	
Fax		Fax		I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	3608-03-BD1(0-3)	1/12/2022	1005	S	-	5	X	X	X	X	X	X					
2	3608-03-BD2(0-3)	1/12/2022	1025	S	-	5	X	X	X	X	X	X					
3	3608-03-BD2(0-3)-DUP	1/12/2022	1030	S	-	5	X	X	X	X	X	X					
4	TRIP BLANK #1								X								
5	↓ #2								X								
6																	
7																	
8																	
9																	
10																	

PH

Sampler(s) Please Print & Sign	Shipment Method	Required Turnaround Time: (Check Box)	Results Due Date:

Relinquished by: Cindy Hoppe	Date: 1/12/22	Time: 1400	Received by: [signature]	1/12/22 (1400)	Notes: *Step analysis based on TCLP Results (NOTE CHAD)
Relinquished by: FedEx	Date: 1/13/22	Time: 1630	Received by (Laboratory): [signature]		
Logged by (Laboratory): KEJ	Date: 1/14/22	Time: 1220	Checked by (Laboratory): [signature]		

Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note:
1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

ALS Group, USA

Sample Receipt Checklist

Client Name: **WSP - CHI** Date/Time Received: **13-Jan-22 16:30**

Work Order: **22010880** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 14-Jan-22 (Date) Reviewed by: Chad Whelton (eSignature) 14-Jan-22 (Date)

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.8/4.8, 3.1/4.1 C	IR3	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	1/14/2022 12:36:06 PM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

27-Jan-2022

Dean Tiebout
WSP USA Corp.
30 N. LaSalle Street
Suite 4200
Chicago, IL 60602

Re: **WSP11/W007** Work Order: **22011473**

Dear Dean,

ALS Environmental received 12 samples on 13-Jan-2022 04:30 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 20.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: IL: 200076

ALS Group, USA

Date: 27-Jan-22

Client: WSP USA Corp.
Project: WSP11/W007
Work Order: **22011473**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
22011473-01	3608-04-B01 (0-5)	Splp Extract		1/12/2022 11:00	1/13/2022 16:30	☐
22011473-02	3608-04-B01 (5-10)	Splp Extract		1/12/2022 11:20	1/13/2022 16:30	☐
22011473-03	3608-04-B01 (10-15)	Splp Extract		1/12/2022 11:25	1/13/2022 16:30	☐
22011473-04	3608-04-B01 (15-21)	Splp Extract		1/12/2022 11:40	1/13/2022 16:30	☐
22011473-05	3608-04-B03 (0-5)	Splp Extract		1/12/2022 12:20	1/13/2022 16:30	☐
22011473-06	3608-04-B03 (5-10)	Splp Extract		1/12/2022 12:30	1/13/2022 16:30	☐
22011473-07	3608-04-B03 (10-15)	Splp Extract		1/12/2022 12:35	1/13/2022 16:30	☐
22011473-08	3608-04-B03 (15-21)	Splp Extract		1/12/2022 12:45	1/13/2022 16:30	☐
22011473-09	3608-04-B02 (0-3)	Splp Extract		1/12/2022 13:30	1/13/2022 16:30	☐
22011473-10	3608-03-B01 (0-3)	Splp Extract		1/12/2022 10:05	1/13/2022 16:30	☐
22011473-11	3608-03-B02 (0-3)	Splp Extract		1/12/2022 10:25	1/13/2022 16:30	☐
22011473-12	3608-03-B02 (0-3) - DUP	Splp Extract		1/12/2022 10:30	1/13/2022 16:30	☐

ALS Group, USA

Date: 27-Jan-22

Client: WSP USA Corp.
Project: WSP11/W007
Work Order: 22011473

Case Narrative

Samples for the above noted Work Order were received on 01/13/2022. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Metals:
No other deviations or anomalies were noted.

ALS Group, USA

Date: 27-Jan-22

Client: WSP USA Corp.
Project: WSP11/W007
WorkOrder: **22011473**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
mg/L	Milligrams per Liter

ALS Group, USA

Date: *27-Jan-22*

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-04-B01 (0-5)
Collection Date: 1/12/2022 11:00 AM

Work Order: 22011473
Lab ID: 22011473-01
Matrix: SPLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method: **SW6020B**			Prep: SW3015A / 1/26/22		Analyst: **STP**
Lead	**0.0014**	J	**0.00072**	**0.0050**	**mg/L**	1	1/26/2022 17:49
Manganese	**0.018**		**0.0025**	**0.0050**	**mg/L**	1	1/26/2022 17:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *27-Jan-22*

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-04-B01 (5-10)
Collection Date: 1/12/2022 11:20 AM

Work Order: 22011473
Lab ID: 22011473-02
Matrix: SPLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method: **SW6020B**			Prep: SW3015A / 1/26/22		Analyst: **STP**
Manganese	**0.029**		**0.0025**	**0.0050**	**mg/L**	1	1/26/2022 17:51
Thallium	U		0.00015	0.0050	mg/L	1	1/26/2022 17:51

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *27-Jan-22*

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-04-B01 (10-15)
Collection Date: 1/12/2022 11:25 AM

Work Order: 22011473
Lab ID: 22011473-03
Matrix: SPLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method:	**SW6020B**		Prep: SW3015A / 1/26/22		Analyst: **STP**
Manganese	**0.019**		**0.0025**	**0.0050**	**mg/L**	1	1/26/2022 17:52

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-04-B01 (15-21)
Collection Date: 1/12/2022 11:40 AM

Work Order: 22011473
Lab ID: 22011473-04
Matrix: SPLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method: **SW6020B**			Prep: SW3015A / 1/26/22		Analyst: **STP**
Manganese	**0.019**		**0.0025**	**0.0050**	**mg/L**	1	1/26/2022 17:54

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *27-Jan-22*

Client: WSP USA Corp.
Project: WSP11/W007
Sample ID: 3608-04-B02 (0-3)
Collection Date: 1/12/2022 01:30 PM

Work Order: 22011473
Lab ID: 22011473-09
Matrix: SPLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method:	**SW6020B**		Prep: SW3015A / 1/26/22		Analyst: **STP**
Manganese	**0.18**		**0.0025**	**0.0050**	**mg/L**	1	1/26/2022 18:02

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 27-Jan-22

Client: WSP USA Corp.

Work Order: 22011473

Project: WSP11/W007

QC BATCH REPORT

Batch ID: **190928** Instrument ID **ICPMS4** Method: **SW6020B**

MBLK Sample ID: **MBLK-190928-190928** Units: **mg/L** Analysis Date: **1/26/2022 05:23 PM**

Client ID: Run ID: **ICPMS4_220126A** SeqNo: **8133728** Prep Date: **1/26/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	U	0.080								
Lead	U	0.0050								
Manganese	U	0.0050								
Thallium	U	0.0050								

LCS Sample ID: **LCS-190928-190928** Units: **mg/L** Analysis Date: **1/26/2022 05:25 PM**

Client ID: Run ID: **ICPMS4_220126A** SeqNo: **8133729** Prep Date: **1/26/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	9.994	0.080	10	0	99.9	80-120	0			
Lead	0.1015	0.0050	0.1	0	101	80-120	0			
Manganese	0.09745	0.0050	0.1	0	97.5	80-120	0			
Thallium	0.09912	0.0050	0.1	0	99.1	80-120	0			

MS Sample ID: **22011322-02AMS** Units: **mg/L** Analysis Date: **1/26/2022 05:31 PM**

Client ID: Run ID: **ICPMS4_220126A** SeqNo: **8133733** Prep Date: **1/26/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	1.382	0.050	1	0.4025	98	80-120	0			
Manganese	2.41	0.050	1	1.547	86.3	80-120	0			
Thallium	0.9642	0.050	1	0.000572	96.4	80-120	0			

MSD Sample ID: **22011322-02AMSD** Units: **mg/L** Analysis Date: **1/26/2022 05:33 PM**

Client ID: Run ID: **ICPMS4_220126A** SeqNo: **8133734** Prep Date: **1/26/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	1.393	0.050	1	0.4025	99	80-120	1.382	0.751	20	
Manganese	2.443	0.050	1	1.547	89.6	80-120	2.41	1.36	20	
Thallium	0.9782	0.050	1	0.000572	97.8	80-120	0.9642	1.44	20	

The following samples were analyzed in this batch:

22011473-01A	22011473-02A	22011473-03A
22011473-04A	22011473-05A	22011473-06A
22011473-07A	22011473-08A	22011473-09A
22011473-10A	22011473-11A	22011473-12A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

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Salt Lake City, UT +1 801 266 7700
South Charleston, WV +1 304 356 3168
York, PA +1 717 505 5280

Chain of Custody Form

Page ____ of ____

COC ID: 249947

ALS Project Manager: | ALS Work Order #: 22010880

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	WSP11/W007	A	PH
Work Order		Project Number		B	%Solids
Company Name	WSP	Bill To Company	WSP	C	VOCs (8260B/5035)
Send Report To	D. Trebout	Invoice Attn		D	SVOCs (8270D)
Address	30 N. LaSalle St	Address		E	Total Metals (6010B/6020A/7471B)
				F	TCLP Metals (1311/6010B/6020A/7470A)*
City/State/Zip	Chicago, IL	City/State/Zip		G	
Phone		Phone		H	
Fax		Fax		I	
e-Mail Address	Dean.Trebout@wsp.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	36008-04-B01 (0-5)	1/12/22	1100	S	-	5	X	X	X	X	X	X					
2	36008-04-B01 (5-10)	1/12/22	1120	S	-	5	X	X	X	X	X	X					
3	36008-04-B01 (10-15)	1/12/22	1125	S	-	5	X	X	X	X	X	X					
4	36008-04-B01 (15-21)	1/12/22	1140	S	-	5	X	X	X	X	X	X					
5	36008-04-B03 (0-5)	1/12/22	1220	S	-	5	X	X	X	X	X	X					
6	36008-04-B03 (5-10)	1/12/22	1230	S	-	5	X	X	X	X	X	X					
7	36008-04-B03 (10-15)	1/12/22	1235	S	-	5	X	X	X	X	X	X					
8	36008-04-B03 (15-21)	1/12/22	1245	S	-	5	X	X	X	X	X	X					
9	36008-04-B02 (0-3)	1/12/22	1330	S	-	5	X	X	X	X	X	X					
10																	

Sampler(s) Please Print & Sign	Shipment Method	Required Turnaround Time: (Check Box)	Results Due Date:
		~~5 days~~ 10 days	

Relinquished by: Cindy Hoyal	Date: 1/12/2022	Time: 1400	Received by:	Notes: *TCLP Analysis based on TCLP Results (CHM)*	
Relinquished by: FedEx	Date: 1/13/22	Time: 1630	Received by (Laboratory): 1/12/2022	Cooler ID	Cooler Temp.
Logged by (Laboratory): KW	Date: 1/14/22	Time: 1220	Checked by (Laboratory):	1R3	3.8°C
					3.1°C

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

QC Package: (Check One Box Below)

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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South Charleston, WV +1 304 356 3168
Middletown, PA +1 717 944 5541
Salt Lake City, UT +1 801 266 7700
York, PA +1 717 505 5280

Chain of Custody Form

Page ____ of ____

COC ID: 249948

ALS Project Manager: | ALS Work Order #: 22010880

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	WSP11/W0007 IDOT	A	PH
Work Order		Project Number		B	%Solid
Company Name	WSP	Bill To Company	WSP	C	VOCs (8260B/5035)
Send Report To	D. Tiebout	Invoice Attn		D	SVOCs (8270D)
Address	30 N. LaSalle St	Address		E	Total Metals (6010B/6020A/7471B)
				F	TCLP Metals (1311/6010B/6020A/7470B)*
City/State/Zip	Chicago, IL	City/State/Zip		G	
Phone		Phone		H	
Fax		Fax		I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	3608-03-BD1(0-3)	1/12/2022	1005	S	-	5	X	X	X	X	X	X					
2	3608-03-BD2(0-3)	1/12/2022	1025	S	-	5	X	X	X	X	X	X					
3	3608-03-BD2(0-3)-DUP	1/12/2022	1030	S	-	5	X	X	X	X	X	X					
4	TRIP BLANK #1								X								
5	↓ #2								X								
6																	
7																	
8																	
9																	
10																	

PH

Sampler(s) Please Print & Sign	Shipment Method	Required Turnaround Time: (Check Box)	Results Due Date:

Relinquished by: Cindy Hoppe	Date: 1/12/22	Time: 1400	Received by: [signature]	1/12/22 (1400)	Notes: *Step analysis based on TCLP Results (NOTE CHAD)
Relinquished by: FedEx	Date: 1/13/22	Time: 1630	Received by (Laboratory): [signature]		
Logged by (Laboratory): KEJ	Date: 1/14/22	Time: 1220	Checked by (Laboratory): [signature]		

Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note:
1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

ALS Group, USA

Sample Receipt Checklist

Client Name: **WSP - CHI** Date/Time Received: **13-Jan-22 16:30**

Work Order: **22011473** Received by: **KRW**

Checklist completed by Chad Whelton 25-Jan-22 Reviewed by: Chad Whelton 25-Jan-22

eSignature Date eSignature Date

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.8/4.8, 3.1/4.1 C	IR3	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	1/14/2022 12:36:06 PM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction: