State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

Site Investigation Sample Results Notification

Form 4400-249 (R 03/14)

Notice: This form may be used to comply with the requirements of s. NR 716.14 (2), Wis. Adm. Code; however, use of this form is not required. An alternate format may be used. The rule requires that notification be provided to 1) property owners when someone else is conducting the sampling, 2) to occupants of property belonging to the responsible person, and 3) to owners and occupants of property that does not belong to the responsible person but has been affected by contamination arising on his or her property. Notification is required within 10 business days of receiving the sample results. Personal information collected will be used for program administration and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.].

NOTE: Under s. NR 716.14, Wis. Adm. Code, the responsible party must also submit sample results and other required information to the DNR. We recommend that copies of the sample results notifications be included with that submittal, along with all attachments. Using the same format used for data presentation for a closure request may be helpful to all parties. See s. NR 716.14, Wis. Adm. Code for the full list of information to be submitted to the DNR.

Notification of Property Owners and Occupants:

This notification form has been provided to you in order to provide the results of environmental sampling that has been conducted on property that you own or occupy. Samples were collected in accordance with the methods identified in the site investigation work plan, in accordance with s. NR. 716.09 and 716.13, Wis. Adm. Code. This sampling was conducted as a result of contamination originating at the following location.

Site Information

Site Name			DNR ID # (BRRTS #)
Former Koppers Tar Plant and Wabash Alloys Site			02-41-553761
Address	**City**	**State**	**ZIP Code**
9100 South 5th Avenue	Oak Creek	WI	53154

Responsible Party

The person(s) responsible for completing this environmental investigation is:

Property Owner			
Connell Aluminum Properties			
Address	**City**	**State**	**ZIP Code**
One International Place	Boston	MA	02110
Contact Person		**Phone Number (include area code)**	
Michael Kellogg		(919) 744-7522	

Person or company that collected samples

Tetra Tech Inc. (on behalf of Beazer East)

Sample Results (Results Attached)

Reason for Sampling: ○ Routine ◉ Other (define) Pre-Design Investigation ISS Treatability Study Samples

The contaminants that have been identified at this time on property that you own or occupy include:

Contaminant	In Soil? Yes	In Soil? No	In Groundwater? Yes	In Groundwater? No
Gasoline	○	◉	○	◉
Diesel or Fuel Oil	○	◉	○	◉
Solvents	○	◉	○	◉
Heavy Metals	○	◉	○	◉
Pesticides	○	◉	○	◉
Other: Coal Tar	◉	○	◉	○

This sampling event included sampling of a drinking water well.
○ Yes ◉ No

If yes, the sampled drinking water well had detectable contaminants.
○ Yes ○ No

Contaminants in Vapor	Yes	No
Indoor Air	○	◉
Sub-slab	○	◉
Exterior Soil Gas	○	◉

Attached are:

- A map that shows the locations from which samples were collected. (The map needs to meet the requirements of s. NR 716.15 (4), Wis. Adm. Code.)
- A data table with specific contaminant levels at each sample location and whether or not the sample results exceed state standards.
- A copy of the laboratory results.

You are not identified as the person that is responsible for this contamination. However, your cooperation is important. Property owners may become legally responsible for contamination if they do not allow access to the person that is responsible so that person may complete the environmental investigation and clean up activities.

Option for written exemption: You have the option of requesting a written liability exemption from the DNR for contamination that originated on another property, or on property that you lease. To do this, you must present an adequate environmental assessment of your property and pay a $700 fee for review of this information. If you are interested in this option, please see DNR publication # RR 589, "When Contamination Crosses a Property Line - Rights and Responsibilities of Property Owners", available at: dnr.wi.gov/files/PDF/pubs/rr/rr589.pdf.

Contact Information

Please address questions regarding this notification, or requests for additional information to the contact person listed above, or to one of the following contacts:

Environmental Consultant

Company Name	Contact Person Last Name	First Name
Tetra Tech Inc.	Noel	Michael

Address	City	State	ZIP Code
13555 Bishops Court, Suite 201	Brookfield	WI	53005

Phone # (inc. area code)	Email
(262) 792-1282	mike.noel@tetratech.com

Select which agency: (●) Natural Resources ( ) Agriculture, Trade and Consumer Protection

State of Wisconsin Department of Natural Resources

Contact Person Last Name	First Name	Phone # (inc. area code)
Mulcahy	Connor	(414) 704-4348

Address	City	State	ZIP Code
1027 West St. Paul Ave	Milwaukee	WI	53233

Email

connor.mulcahy@wisconsin.gov

CONFIDENTIAL SETTLEMENT COMMUNICATION
SUBJECT TO FRE 408 AND WIS. STAT. § 904.08

TETRA TECH

November 16, 2023

Mr. Connor P. Mulcahy
Hydrogeologist – Southeast Region
Remediation and Redevelopment Program
Department of Natural Resources
1027 W. Saint Paul Avenue
Milwaukee, WI 53233

Subject: Data Submittal for ISS Treatability Study Test Pit Soil Sampling Analytical Results

Former Koppers Tar Plant and Wabash Alloys Site
9100 South 5th Avenue, Oak Creek, WI 53154
FID #: 241379050; BRRTS # 02-41-553761
Connell VPLE BRRTS #: 06-41-560068

City of Oak Creek Utility Corridor Lot 1
9170 South 5th Avenue, Oak Creek, WI 53154
FID #: 341074470; BRRTS #: 02-41-561425

Dear Mr. Mulcahy:

On behalf of Beazer East, Inc., and in accordance with NR 716.14(2), enclosed are the soil sampling results from the ISS Treatability Study test pit locations. In accordance with the approved July 21, 2023 Remedial Action Plan (RAP), soil samples were collected from six test pit locations (TP-1 to TP-6). Bulk composite soil samples from each test pit were submitted for laboratory analyses of volatile organic compounds (VOCs, by Method 8260D), semi-volatile organic compounds (SVOCs, by Method 8270E), polychlorinated biphenyls (PCBs, by Method 8082A), SPLP VOCs (EPA Method 1312 / 8260D), SPLP SVOCs (EPA Method 1312 / 8270E), and SPLP PCBs (EPA Method 1312 / 8082A). The lab report is attached along with summary tables of results.

If you have any questions, please feel free to contact us.

Sincerely,

Tetra Tech, Inc.

Michael R. Noel, P.G.
Principal Hydrogeologist

TETRA TECH
13555 Bishops Court, Suite 220, Brookfield, WI 53005
Tel 262.792.1282 www.tetratech.com

(262) 853-4983
Mike.Noel@tetratech.com

Attachments

cc: Judy Fassbender, DNR – judy.fassbender@wisconsin.gov
Michele Norman, DNR – michele.norman@wisconsin.gov
Angela Carey, DNR – angela.carey@wisconsin.gov
Brian Waite, DNR – brian.waite@wisconsin.gov
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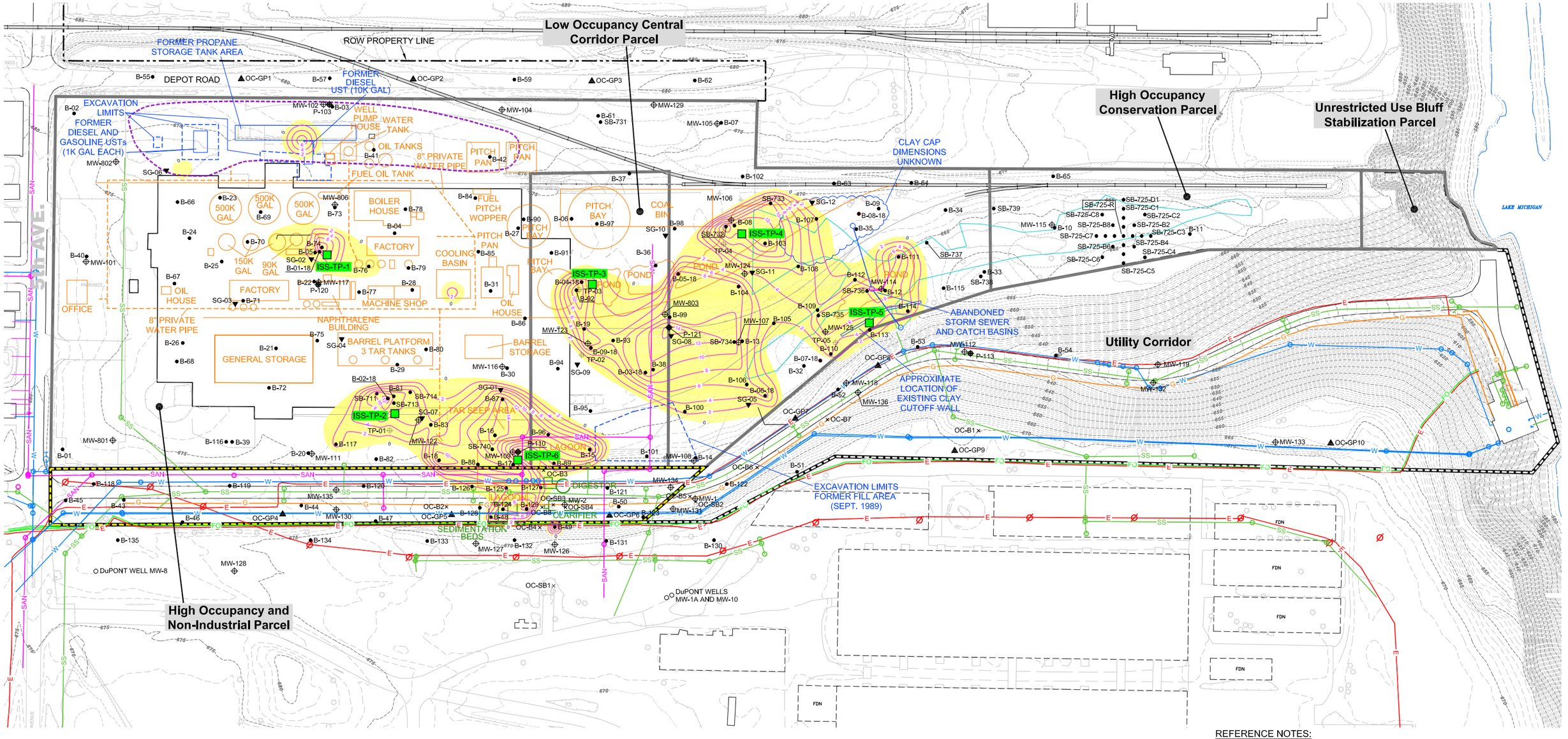
Art Harrington, Godfrey & Kahn/City of Oak Creek - ajharrin@gklaw.com
Scott Tarmann, Ramboll – starmann@ramboll.com



EXPLANATION

- ISS-TP-4 — TEST PIT
- MW-101 — WATER TABLE WELL
- P-103 — NESTED PIEZOMETER
- B-01 — SOIL BORING
- OC-SB1 — SOIL BORING (CITY OF OAK CREEK)
- OC-GP1 — GEOPROBE (CITY OF OAK CREEK)
- TP-01 — TEST PIT
- SG-07 — SOIL GAS PROBE

- APPROXIMATE WABASH PARCEL BOUNDARY (VPLE 06-41-560068)
- APPROXIMATE CITY PARCEL BOUNDARY (VPLE # TBD)
- FORMER TAR PLANT STRUCTURES
- PAST REMEDIAL ACTIVITIES
- FORMER WASTEWATER TREATMENT PLANT STRUCTURES
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE CITY UTILITY CORRIDOR PROPERTY BOUNDARY
- 4 — THICKNESS CONTOUR (FT) OF SOIL WITH OBSERVED DNAPL
- CLEAN SOIL STOCKPILE
- E — ELECTRICAL
- G — NATURAL GAS
- W — RAW WATER
- SAN — SANITARY
- SS — STORM SEWER
- FO — FIBER OPTIC

N

0 160 320

SCALE IN FEET

REFERENCE NOTES:

1. EXISTING TOPOGRAPHY AND SITE FEATURES FROM LAND INFORMATION SERVICES, INC. - ENVIRONMENTAL SURVEY, 12/21/2001.
2. FORMER TAR PLANT STRUCTURES FROM THE SANBORN LIBRARY - EDR INQUIRY 2284158.1s, ©1950.
3. FORMER POND AND LAGOON LOCATIONS FROM 1937-1968 AERIAL PHOTOGRAPHY - COMPILED BY AERO-DATA CORPORATION, APRIL 2013.
4. FORMER WASTEWATER TREATMENT PLANT STRUCTURES FROM HARTMAN-STRASS, INC. - FILE NO. 72051-C-303, 12/1/1971.

TITLE: FORMER KOPPERS TAR PLANT AND WABASH ALLOYS SITE
ISS TREATABILITY STUDY TEST PIT SAMPLING LOCATIONS

LOCATION: OAK CREEK, WISCONSIN

TETRA TECH

CHECKED	MRN
DRAFTED	CMP
PROJECT	117-2201534
DATE	11/15/23

FIGURE: 14

S:\BEAZER\WABASH\APRIL 2023\ISS TREATABILITY STUDY TEST PIT SAMPLING LOCATIONS_04-20-23.DWG

ISS Treatability Study Bulk Sample Analyses - VOCs

VOCs	Units	TP-1		TP-2		TP-3		TP-4		TP-5		TP-6	
1,1,1-Trichloroethane	ug/Kg	<3900		<1.6		<1.7		<1.7		<4100		<4500	
1,1,2,2-Tetrachloroethane	ug/Kg	<3500		<1.5		<1.5		<1.5		<3700		<4100	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/Kg	<4600		<1.9		<2.0	^c	<2.0		<4900		<5400	
1,1,2-Trichloroethane	ug/Kg	<2300		<0.95		<0.99		<0.98		<2400		<2600	
1,1-Dichloroethane	ug/Kg	<3700		<1.5		<1.6		<1.6		<3900		<4300	
1,1-Dichloroethene	ug/Kg	<5200		<2.2		<2.3		<2.2		<5600		<6000	
1,2,4-Trichlorobenzene	ug/Kg	<5900	^c	<2.4		<2.5		<2.5		<6300	^c	<6800	^c
1,2-Dibromo-3-Chloropropane	ug/Kg	<7500		<3.1	^c	<3.2		<3.2	^c	<8000		<8700	
1,2-Dibromoethane	ug/Kg	<3200		<1.3		<1.4		<1.4		<3400		<3700	
1,2-Dichlorobenzene	ug/Kg	<3900		<1.6		<1.7		<1.7		<4100		<4500	
1,2-Dichloroethane	ug/Kg	<3300		<1.4		<1.4		<1.4		<3500		<3900	
1,2-Dichloropropane	ug/Kg	<3100		<1.3		<1.3		<1.3		<3300		<3600	
1,3-Dichlorobenzene	ug/Kg	<7100		<2.9		<3.1		<3.0		<7600		<8200	
1,4-Dichlorobenzene	ug/Kg	<3500		<1.4		<1.5		<1.5		<3700		<4000	
2-Butanone (MEK)	ug/Kg	<5900		<2.4		<2.5	^c	<2.5		<6300		<6800	
2-Hexanone	ug/Kg	<3600	^c	<1.5		<1.6		<1.6		<3900	^c	<4200	^c
4-Methyl-2-pentanone (MIBK)	ug/Kg	<4200	^c	<1.7		<1.8		<1.8		<4500	^c	<4900	^c
Acetone	ug/Kg	<9000		<3.7		<3.9		11	J	<9600		<10000	
Benzene	ug/Kg	<3300		<1.3		<1.4		60		<3500		<3800	
Bromoform	ug/Kg	<5800		<2.4		<2.5		<2.5		<6200		<6700	
Bromomethane	ug/Kg	<5300		<2.2		<2.3		<2.3		<5600		<6100	
Carbon disulfide	ug/Kg	<9200		<3.8		<4.0		<4.0		<9900		<11000	
Carbon tetrachloride	ug/Kg	<4700		<1.9		<2.0		<2.0		<5000		<5500	
Chlorobenzene	ug/Kg	<3000		<1.2		<1.3		<1.3		<3200		<3500	
Chlorodibromomethane	ug/Kg	<5700		<2.4		<2.5		<2.5		<6100		<6600	
Chloroethane	ug/Kg	<6700		<2.8		<2.9		<2.9		<7200		<7800	
Chloroform	ug/Kg	<7800		<3.2		<3.3		<3.3		<8300		<9000	
Chloromethane	ug/Kg	<4600		<1.9		<2.0		<2.0		<4900		<5300	
cis-1,2-Dichloroethene	ug/Kg	<3500		<1.4		<1.5		<1.5		<3700		<4000	
cis-1,3-Dichloropropene	ug/Kg	<5100		<2.1		<2.2		<2.2		<5500		<5900	
Cyclohexane	ug/Kg	<5500		<2.3		<2.4		<2.4		<5900		<6400	
Dichlorobromomethane	ug/Kg	<5400		<2.2		<2.3		<2.3		<5800		<6300	
Dichlorodifluoromethane	ug/Kg	<5800	^c	<2.4		<2.5		<2.5		<6200	^c	<6700	^c
Ethylbenzene	ug/Kg	<4300		<1.8		7.9		95		19,000		9,700	J
Isopropylbenzene	ug/Kg	<6000		<2.5		<2.6		7.7		<6400		<7000	
Methyl acetate	ug/Kg	<17000		<7.0		<7.4	^c	<7.3		<18000		<20000	
Methyl tert-butyl ether	ug/Kg	<3400		<1.4		<1.5		<1.5		<3600		<3900	
Methylcyclohexane	ug/Kg	<5600		<2.3		<2.4		<2.4		<6000		<6500	
Methylene Chloride	ug/Kg	<10000		<4.3		<4.5		<4.5		<11000		<12000	
Styrene	ug/Kg	<3500		<1.4		<1.5		39		<3700		<4000	
Tetrachloroethene	ug/Kg	<4700		<1.9		<2.0		<2.0		<5000		<5400	
Toluene	ug/Kg	<3300		<1.4		<1.4		160		6,600	J	8,000	J
trans-1,2-Dichloroethene	ug/Kg	<4000		<1.7		<1.7		<1.7		<4300		<4700	
trans-1,3-Dichloropropene	ug/Kg	<5200		<2.1		<2.2		<2.2		<5600		<6000	
Trichloroethene	ug/Kg	<3600		<1.5		<1.6		<1.6		<3900		<4200	
Trichlorofluoromethane	ug/Kg	<9600		<4.0		<4.1		<4.1		<10000		<11000	
Vinyl chloride	ug/Kg	<8300		<3.4		<3.6		<3.6		<8900		<9600	
Xylenes, Total	ug/Kg	<17000		<6.9		30		470	*	95,000		36,000	
Total VOCs	ug/Kg	0.0		0.0		37.9		842.7		120,600		53,700	

^c = CCV Recovery is outside acceptance limits

J = Reported value was between the limit of detection and the limit of quantitation

* = LCS or LCSD is outside acceptance limits; RPD of the LCS and LCSD exceeds the control limits

ISS Treatability Study Bulk Sample Analyses - TCLP VOCs

TCLP VOC	Units	TP-1		TP-2		TP-3		TP-4		TP-5		TP-6	
1,1,1-Trichloroethane	ug/L	<3.0		<3.0		<3.0		<3.0		<3.0		<3.0	
1,1,2,2-Tetrachloroethane	ug/L	<3.0		<3.0		<3.0		<3.0		<3.0		<3.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	<4.3		<4.3		<4.3		<4.3		<4.3		<4.3	
1,1,2-Trichloroethane	ug/L	<2.3		<2.3		<2.3		<2.3		<2.3		<2.3	
1,1-Dichloroethane	ug/L	<3.1		<3.1		<3.1		<3.1		<3.1		<3.1	
1,1-Dichloroethene	ug/L	<2.8		<2.8		<2.8		<2.8		<2.8		<2.8	
1,2,4-Trichlorobenzene	ug/L	<3.9	^c	<3.9	^c	<3.9	^c	<3.9	^c	<3.9	^c	<3.9	^c
1,2-Dibromo-3-Chloropropane	ug/L	<4.4		<4.4		<4.4		<4.4		<4.4		<4.4	
1,2-Dibromoethane	ug/L	<2.5		<2.5		<2.5		<2.5		<2.5		<2.5	
1,2-Dichlorobenzene	ug/L	<1.8		<1.8		<1.8		<1.8		<1.8		<1.8	
1,2-Dichloroethane	ug/L	<2.9		<2.9		<2.9		<2.9		<2.9		<2.9	
1,2-Dichloropropane	ug/L	<3.3		<3.3		<3.3		<3.3		<3.3		<3.3	
1,3-Dichlorobenzene	ug/L	<2.5		<2.5		<2.5		<2.5		<2.5		<2.5	
1,4-Dichlorobenzene	ug/L	<2.7		<2.7		<2.7		<2.7		<2.7		<2.7	
2-Butanone (MEK)	ug/L	<13		<13		<13		<13		<13		<13	
2-Hexanone	ug/L	<16		<16		<16		<16		<16		<16	
4-Methyl-2-pentanone (MIBK)	ug/L	<15	^c	<15	^c	<15	^c	<15	^c	<15	^c	<15	^c
Acetone	ug/L	<17	^c	<17	^c	<17	^c	<17	^c	<17	^c	<17	^c
Benzene	ug/L	10		<3.0		<3.0		14		12		<180	
Bromoform	ug/L	<4.9		<4.9		<4.9		<4.9		<4.9		<4.9	
Bromomethane	ug/L	<4.4		<4.4		<4.4		<4.4		<4.4		<4.4	
Carbon disulfide	ug/L	<4.4		<4.4		<4.4		<4.4		<4.4		<4.4	
Carbon tetrachloride	ug/L	<4.4		<4.4		<4.4		<4.4		<4.4		<4.4	
Chlorobenzene	ug/L	<2.5		<2.5		<2.5		<2.5		<2.5		<2.5	
Chlorodibromomethane	ug/L	<4.2		<4.2		<4.2		<4.2		<4.2		<4.2	
Chloroethane	ug/L	<4.5		<4.5		<4.5		<4.5		<4.5		<4.5	
Chloroform	ug/L	<3.0		<3.0		<3.0		<3.0		<3.0		<3.0	
Chloromethane	ug/L	<4.5		<4.5		<4.5		<4.5		<4.5		<4.5	
cis-1,2-Dichloroethene	ug/L	<3.5		<3.5		<3.5		<3.5		<3.5		<3.5	
cis-1,3-Dichloropropene	ug/L	<3.0		<3.0		<3.0		<3.0		<3.0		<3.0	
Cyclohexane	ug/L	<3.2		<3.2		<3.2		<3.2		<3.2		<3.2	
Dichlorobromomethane	ug/L	<3.2		<3.2		<3.2		<3.2		<3.2		<3.2	
Dichlorodifluoromethane	ug/L	<4.2		<4.2		<4.2		<4.2		<4.2		<4.2	
Ethylbenzene	ug/L	23		<2.5		<2.5		<63		<190		<150	
Isopropylbenzene	ug/L	2.2	J	<1.7		<1.7		4.8	J	11		24	
Methyl acetate	ug/L	<8.4		<8.4		<8.4		<8.4		<8.4		<8.4	
Methyl tert-butyl ether	ug/L	<3.0		<3.0		<3.0		<3.0		<3.0		<3.0	
Methylcyclohexane	ug/L	<3.0		<3.0		<3.0		<3.0		<3.0		<3.0	
Methylene Chloride	ug/L	24		20		13		14		9		15	
Styrene	ug/L	<2.4		<2.4		<2.4		25		<2.4		<140	
Tetrachloroethene	ug/L	<2.3		<2.3		<2.3		<2.3		<2.3		<2.3	
Toluene	ug/L	49	J	<2.3		<2.3		91	J	<170		180	J
trans-1,2-Dichloroethene	ug/L	<3.4		<3.4		<3.4		<3.4		<3.4		<3.4	
trans-1,3-Dichloropropene	ug/L	<2.9		<2.9		<2.9		<2.9		<2.9		<2.9	
Trichloroethene	ug/L	<3.4		<3.4		<3.4		<3.4		<3.4		<3.4	
Trichlorofluoromethane	ug/L	<4.4	^c	<4.4	^c	<4.4	^c	<4.4	^c	<4.4	^c	<4.4	^c
Vinyl chloride	ug/L	<2.0	^c	<2.0	^c	<2.0	^c	<2.0	^c	<2.0	^c	<2.0	^c
Xylenes, Total	ug/L	130		<4.5		9.4	J	320		600	J	440	J
Total TCLP VOCs	ug/L	238.2		20		22.4		468.8		632		659	

^c = CCV Recovery is outside acceptance limits

J = Reported value was between the limit of detection and the limit of quantitation

ISS Treatability Study Bulk Sample Analyses - SVOCs

SVOC	Units	TP-1		TP-1 DL		TP-2		TP-3		TP-4		TP-4 DL		TP-5		TP-5 DL		TP-6		TP-6 DL	
1,1'-Biphenyl	ug/Kg	3,100		<5800		<150		820		17,000	E	14,000	J	26,000	E	20,000	J	9,600		38,000	J
2,2'-oxybis[1-chloropropane]	ug/Kg	<29		<1200		<31		<29		<29		<2900		<29		<2900		<30		<5900	
2,4,5-Trichlorophenol	ug/Kg	<140		<5500		<150		<130		<140		<14000		<130		<13000		<140		<28000	
2,4,6-Trichlorophenol	ug/Kg	<130		<5300		<140		<130		<130		<13000		<130		<13000		<130		<27000	
2,4-Dichlorophenol	ug/Kg	<30		<1200		<32		<30		<30		<3000		<30		<3000		<31		<6200	
2,4-Dimethylphenol	ug/Kg	3,900		<5300		<140		<130		<130		<13000		<130		<13000		830		<27000	
2,4-Dinitrophenol	ug/Kg	<2400		<98000		<2600		<2400		<2400		<240000		<2400		<240000		<2500		<500000	
2,4-Dinitrotoluene	ug/Kg	<240		<9400		<250		<230		<230		<23000		<230		<23000		<240		<48000	
2,6-Dinitrotoluene	ug/Kg	<150		<6200		<160		<150		<150		<15000		<150		<15000		<160		<31000	
2-Chloronaphthalene	ug/Kg	<18		<720		<19		<18		<18		<1800		<18		<1800		<18		<3700	
2-Chlorophenol	ug/Kg	<150		<5800		<160		<140		<150		<15000		<140		<14000		<150		<30000	
2-Methylnaphthalene	ug/Kg	15,000		11,000		<20		2,500		70,000	E	67,000		99,000	E	110,000		67,000	E	220,000	
2-Methylphenol	ug/Kg	5,400		<4500		<120		<110		<110		<11000		<110		<11000		<110		<23000	
2-Nitroaniline	ug/Kg	<180		<7200		<190		<180		<180		<18000		<180		<18000		<180		<36000	
2-Nitrophenol	ug/Kg	<150		<5800		<160		<140		<150		<15000		<140		<14000		<150		<30000	
3,3'-Dichlorobenzidine	ug/Kg	<370		<15000		<390		<360		<370		<37000		<360		<36000		470		<75000	
3-Nitroaniline	ug/Kg	<100		<4000		<110		<98		<100		<10000		<98		<9800		<100		<20000	
4,6-Dinitro-2-methylphenol	ug/Kg	<680		<27000		<730		<660		<680		<68000		<670		<67000		<690		<140000	
4-Bromophenyl phenyl ether	ug/Kg	<170		<6700		<180		<160		<170		<17000		<160		<16000		<170		<34000	
4-Chloro-3-methylphenol	ug/Kg	<140		<5500		<150		<140		<140		<14000		<140		<14000		<140		<28000	
4-Chloroaniline	ug/Kg	<100		<4100		<110		<100		<100		<10000		<100		<10000		<100		<21000	
4-Chlorophenyl phenyl ether	ug/Kg	<130		<5300		<140		<130		<130		<13000		<130		<13000		<130		<27000	
4-Nitroaniline	ug/Kg	<150		<5900		<160		<140		<150		<15000		<140		<14000		<150		<30000	
4-Nitrophenol	ug/Kg	<280		<11000		<300		<270		<280		<28000		<270		<27000		<280		<56000	
Acenaphthene	ug/Kg	9,900		7,300		610		2,400		46,000	E	33,000		69,000	E	58,000		50,000	E	140,000	
Acenaphthylene	ug/Kg	410		<690		<18		710		19,000	E	14,000		4,600		3,100	J	13,000		44,000	
Acetophenone	ug/Kg	<140		<5600		<150		<140		<140		<14000		<140		<14000		<140		<29000	
Anthracene	ug/Kg	7,500		5,200		280		2,400		45,000	E	44,000		32,000	E	25,000		51,000	E	200,000	
Atrazine	ug/Kg	<170		<6900		<180		<170		<170		<17000		<170		<17000		<180		<35000	
Benzaldehyde	ug/Kg	<49		<2000		<52		<48		<49		<4900		<48		<4800		<50		<9900	
Benzo[a]anthracene	ug/Kg	2,300		1,900	J	380		3,000		29,000	E	24,000		33,000	E	29,000		38,000	E	120,000	
Benzo[a]pyrene	ug/Kg	1,400		<1400		160		2,800		24,000	E	17,000		22,000	E	20,000		26,000	E	93,000	
Benzo[b]fluoranthene	ug/Kg	1,600		1,200	J	210		3,100		27,000	E	20,000		27,000	E	21,000		31,000	E	110,000	
Benzo[g,h,i]perylene	ug/Kg	540		<680		<18		1,500		13,000		8,900		11,000		7,000	J	15,000		47,000	
Benzo[k]fluoranthene	ug/Kg	680		<950		92		1,100		8,900		8,200		8,600		9,400		11,000		43,000	
Bis(2-chloroethoxy)methane	ug/Kg	<140	^c	<5800		<150	^c	<140	^c	<140	^c	<14000		<140	^c	<14000		<150	^c	<29000	
Bis(2-chloroethyl)ether	ug/Kg	<14		<570		<15		<14		<14		<1400		<14		<1400		<15		<2900	
Bis(2-ethylhexyl) phthalate	ug/Kg	<420		<17000		<450		<410		<420		<42000		<410		<41000		<430		<85000	
Butyl benzyl phthalate	ug/Kg	<270		<11000		<290		<260		<270		<27000		<270		<27000		<270		<55000	
Caprolactam	ug/Kg	<260		<10000		<270		<250		<260		<26000		<250		<25000		<260		<52000	
Carbazole	ug/Kg	5,000		3,400		50	J	1,000		21,000	E	15,000		9,800		7,700	J	34,000	E	110,000	
Chrysene	ug/Kg	2,900		2,600	J	310		2,800		48,000	E	41,000		26,000	E	23,000		42,000	E	150,000	
Dibenz(a,h)anthracene	ug/Kg	170		<2000		<54		430		3,400		<5000		3,400		<4900		4,700		13,000	J
Dibenzofuran	ug/Kg	9,200		7,000	J	320	J	1,900		42,000	E	33,000	J	46,000	E	44,000		37,000	E	130,000	
Diethyl phthalate	ug/Kg	<140		<5500		<150		<140		<140		<14000		<140		<14000		<140		<28000	
Dimethyl phthalate	ug/Kg	<160		<6200		<170		<150		<160		<16000		<150		<15000		<160		<32000	
Di-n-butyl phthalate	ug/Kg	<170		<6900		<180		<170		<170		<17000		<170		<17000		<180		<35000	
Di-n-octyl phthalate	ug/Kg	<230		<9200		<240		<220		<230		<23000		<220		<22000		<230		<47000	
Fluoranthene	ug/Kg	16,000	E	10,000		2,500		10,000		63,000	E	76,000		65,000	E	89,000		73,000	E	400,000	
Fluorene	ug/Kg	9,700		6,300		540		2,600		59,000	E	39,000		61,000	E	49,000		59,000	E	190,000	
Hexachlorobenzene	ug/Kg	<28		<1100		<30		<28		<28		<2800		<28		<2800		<29		<5700	
Hexachlorobutadiene	ug/Kg	<23		<920		<25		<23		<23		<2300		<23		<2300		<23		<4700	
Hexachlorocyclopentadiene	ug/Kg	<40		<1600		<43		<39		<40		<4000		<39		<3900		<41		<8200	
Hexachloroethane	ug/Kg	<140		<5600		<150		<140		<140		<14000		<140		<14000		<140		<28000	
Indeno[1,2,3-cd]pyrene	ug/Kg	450		<1600		<42		1,200		11,000		8,900		10,000		8,000		13,000		39,000	
Isophorone	ug/Kg	<150		<5900		<160		<140		<150		<15000		<140		<14000		<150		<30000	
Methylphenol, 3 & 4	ug/Kg	16,000	E	10,000	J	<120		<110		350	J	<12000		130	J	<11000		370	J	<23000	
Naphthalene	ug/Kg	79,000	E	84,000		83	J	7,900		130,000	E	630,000		100,000	E	280,000		120,000	E	1,400,000	
Nitrobenzene	ug/Kg	<140		<5800		<150		<140		<140		<14000		<140		<14000		<150		<29000	
N-Nitrosodi-n-propylamine	ug/Kg	<27		<1100		<29		<26		<27		<2700		<26		<2600		<27		<5400	
N-Nitrosodiphenylamine	ug/Kg	<130		<5300		<140		<130		<130		<13000		<130		<13000		<130		<27000	
Pentachlorophenol	ug/Kg	<630		<25000		<680		<620		<630		<63000		<620		<62000		<640		<130000	
Phenanthrene	ug/Kg	41,000	E	25,000		2,500		12,000		76,000	E	130,000		82,000	E	140,000		87,000	E	590,000	
Phenol	ug/Kg	10,000		6,300	J	<130		<120		<120		<12000		<120		<12000		<120		<24000	
Pyrene	ug/Kg	9,800		8,500		1,400		6,700		54,000	E	64,000		57,000	E	74,000		64,000	E	270,000	
Total SVOCs	ug/Kg	250,950		189,700		9,435		66,860		806,650		1,287,000		792,530		1,017,200		846,970		4,347,000	

^c = CCV Recovery is outside acceptance limits

J = Reported value was between the limit of detection and the limit of quantitation

E = Result exceeded calibration range.

DL = Sample diluted and re-analyzed to bring the concentration of target analytes within the calibration range

TCLP SVOCs	Units	TP-1		TP-1 DL		TP-2		TP-3		TP-3 DL		TP-4		TP-4 DL		TP-5		TP-5 DL		TP-6		TP-6 DL	
1,1'-Biphenyl	ug/L	110		<110		11		58		55	J	86		<110		120		100	J	55		<110	
2,2'-oxybis[1-chloropropane]	ug/L	<2.3		<44		<0.58		<0.58		<12		<2.3		<44		<2.3		<29		<2.3		<44	
2,4,5-Trichlorophenol	ug/L	<10		<190		<2.5		<2.5		<50		<10		<190		<10		<130		<10		<190	
2,4,6-Trichlorophenol	ug/L	<9.0		<170		<2.2		<2.2		<45		<9.0		<170		<9.0		<110		<9.0		<170	
2,4-Dichlorophenol	ug/L	<2.0		<38		<0.51		<0.51		<10		<2.0		<38		<2.0		<26		<2.0		<38	
2,4-Dimethylphenol	ug/L	330		270	J	<1.7		<1.7		<33		24	J	<130		33	J	<84		58		<130	
2,4-Dinitrophenol	ug/L	<61		<1100		<15		<15		<310		<61		<1100		<61		<770		<61		<1100	
2,4-Dinitrotoluene	ug/L	<14		<260		<3.5		<3.5		<71		<14		<260		<14		<180		<14		<260	
2,6-Dinitrotoluene	ug/L	<6.9		<130		<1.7		<1.7		<35		<6.9		<130		<6.9		<87		<6.9		<130	
2-Chloronaphthalene	ug/L	<2.4		<44		<0.59		<0.59		<12		<2.4		<44		<2.4		<30		<2.4		<44	
2-Chlorophenol	ug/L	<5.2		<97		<1.3		<1.3		<26		<5.2		<97		<5.2		<65		<5.2		<97	
2-Methylnaphthalene	ug/L	870		740		3.3		260		230		670		610		1,100		890		500		400	
2-Methylphenol	ug/L	430		350	J	<3.0		<3.0		<60		16	J	<230		<12		<150		17	J	<230	
2-Nitroaniline	ug/L	<22		<410		<5.5		<5.5		<110		<22		<410		<22		<270		<22		<410	
2-Nitrophenol	ug/L	<7.7		<140		<1.9		<1.9		<39		<7.7		<140		<7.7		<97		<7.7		<140	
3,3'-Dichlorobenzidine	ug/L	<23		<440		<5.8		<5.8		<120		<23		<440		<23		<290		<23		<440	
3-Nitroaniline	ug/L	<17		<330		<4.4		<4.4		<87		<17		<330		<17		<220		<17		<330	
4,6-Dinitro-2-methylphenol	ug/L	<59		<1100		<15		<15		<290		<59		<1100		<59		<740		<59		<1100	
4-Bromophenyl phenyl ether	ug/L	<13		<240		<3.2		<3.2		<64		<13		<240		<13		<160		<13		<240	
4-Chloro-3-methylphenol	ug/L	<11		<210		<2.8		<2.8		<56		<11		<210		<11		<140		<11		<210	
4-Chloroaniline	ug/L	<15		<280		<3.8		<3.8		<75		<15		<280		<15		<190		<15		<280	
4-Chlorophenyl phenyl ether	ug/L	<8.8		<170		<2.2		<2.2		<44		<8.8		<170		<8.8		<110		<8.8		<170	
4-Nitroaniline	ug/L	<15		<270		<3.6		<3.6		<73		<15		<270		<15		<180		<15		<270	
4-Nitrophenol	ug/L	<38		<710		<9.4		<9.4		<190		<38		<710		<38		<470		<38		<710	
Acenaphthene	ug/L	310		260		180		150		140		190		170		310		250		180		170	
Acenaphthylene	ug/L	6.4	J	<49		1.1	J	16		13	J	100		83	J	12		<33		81		<49	
Acetophenone	ug/L	<6.4		<120		<1.6		<1.6		<32		<6.4		<120		<6.4		<80		<6.4		<120	
Anthracene	ug/L	18		<37		10		15		12	J	18		<37		17		<25		19		<37	
Atrazine	ug/L	<25		<470		<6.3		<6.3		<130		<25		<470		<25		<320		<25		<470	
Benzaldehyde	ug/L	<22		<400		<5.4		<5.4		<110		<22		<400		<22		<270		<22		<400	
Benzo[a]anthracene	ug/L	<3.0		<56		<0.75		<0.75		<15		<3.0		<56		<3.0		<38		<3.0		<56	
Benzo[a]pyrene	ug/L	<2.1		<40		<0.53		<0.53		<11		<2.1		<40		<2.1		<27		<2.1		<40	
Benzo[b]fluoranthene	ug/L	<3.9		<73		<0.97		<0.97		<19		<3.9		<73		<3.9		<49		<3.9		<73	
Benzo[g,h,i]perylene	ug/L	<2.8		<52		<0.69		<0.69		<14		<2.8		<52		<2.8		<35		<2.8		<52	
Benzo[k]fluoranthene	ug/L	<3.5		<66		<0.88		<0.88		<18		<3.5		<66		<3.5		<44		<3.5		<66	
Bis(2-chloroethoxy)methane	ug/L	<6.1		<110		<1.5		<1.5		<30		<6.1		<110		<6.1		<76		<6.1		<110	
Bis(2-chloroethyl)ether	ug/L	<1.6		<30		<0.40		<0.40		<8.0		<1.6		<30		<1.6		<20		<1.6		<30	
Bis(2-ethylhexyl) phthalate	ug/L	<250		<4700		<62		<62		<1200		<250		<4700		<250		<3100		<250		<4700	
Butyl benzyl phthalate	ug/L	<18		<350		<4.6		<4.6		<92		<18		<350		<18		<230		<18		<350	
Caprolactam	ug/L	<19		<350		<4.7		<4.7		<94		<19		<350		<19		<240		<19		<350	
Carbazole	ug/L	270		210		12		110		94		290		230		200		150		340		270	
Chrysene	ug/L	<3.2		<61		<0.81		<0.81		<16		<3.2		<61		<3.2		<41		<3.2		<61	
Dibenz(a,h)anthracene	ug/L	<2.9		<54		<0.72		<0.72		<14		<2.9		<54		<2.9		<36		<2.9		<54	
Dibenzofuran	ug/L	220		180	J	71		96		92	J	150		<140		190		170	J	120		<140	
Diethyl phthalate	ug/L	<23		<430		<5.7		<5.7		<110		<23		<430		<23		<280		<23		<430	
Dimethyl phthalate	ug/L	<8.0		<150		<2.0		<2.0		<40		<8.0		<150		<8.0		<100		<8.0		<150	
Di-n-butyl phthalate	ug/L	<30		<560		<7.4		<7.4		<150		<30		<560		<30		<370		<30		<560	
Di-n-octyl phthalate	ug/L	<27		<510		<6.9		<6.9		<140		<27		<510		<27		<340		<27		<510	
Fluoranthene	ug/L	11		<45		23		13		<12		14		<45		17		<30		9.4		<45	
Fluorene	ug/L	170		140		96		100		92		130		120	J	150		150		110		91	J
Hexachlorobenzene	ug/L	<2.2		<42		<0.56		<0.56		<11		<2.2		<42		<2.2		<28		<2.2		<42	
Hexachlorobutadiene	ug/L	<2.8		<52		<0.69		<0.69		<14		<2.8		<52		<2.8		<35		<2.8		<52	
Hexachlorocyclopentadiene	ug/L	<20		<370		<5.0		<5.0		<99		<20		<370		<20		<250		<20		<370	
Hexachloroethane	ug/L	<5.3		<100		<1.3		<1.3		<27		<5.3		<100		<5.3		<67		<5.3		<100	
Indeno[1,2,3-cd]pyrene	ug/L	<3.4		<64		<0.85		<0.85		<17		<3.4		<64		<3.4		<43		<3.4		<64	
Isophorone	ug/L	<7.5		<140		<1.9		<1.9		<38		<7.5		<140		<7.5		<94		<7.5		<140	
Methylphenol, 3 & 4	ug/L	1,100		930		<3.7		<3.7		<74		29	J	<280		<15		<190		29	J	<280	
Naphthalene	ug/L	5,400	E	7,800		47		1,200	E	1,600		5,400	E	9,900		4,200	E	6,300		6,000	E	12,000	
Nitrobenzene	ug/L	<20		<380		<5.0		<5.0		<100		<20		<380		<20		<250		<20		<380	
N-Nitrosodi-n-propylamine	ug/L	<2.8		<53		<0.71		<0.71		<14		<2.8		<53		<2.8		<36		<2.8		<53	
N-Nitrosodiphenylamine	ug/L	<4.8		<89		<1.2		<1.2		<24		<4.8		<89		<4.8		<60		<4.8		<89	
Pentachlorophenol	ug/L	<34		<640		<8.5		<8.5		<170		<34		<640		<34		<420		<34		<640	
Phenanthrene	ug/L	160		140		140		100		94		130		130	J	140		120		95		79	J
Phenol	ug/L	590		500	J	<4.9		<4.9		<97		<19		<370		<19		<240		<19		<370	
Pyrene	ug/L	5.5	J	<41		12		8.1		<11		8.6		<41		11		<27		5.6	J	<41	
Total TCLP SVOCs	ug/L	10,000.9		11,520		606.4		2,126.1		2,422		7,255.6		11,243		6,500		8,130		7,619		13,010	

J = Reported value was between the limit of detection and the limit of quantitation

E = Result exceeded calibration range.

DL = Sample diluted and re-analyzed to bring the concentration of target analytes within the calibration range

ISS Treatability Study Bulk Sample Analyses - PCBs

PCBs	Units	TP-1	TP-2	TP-3	TP-4	TP-5	TP-6
PCB-1016	ug/Kg	<6.5	<7.0	<6.4	<6.5	<6.2	<6.5
PCB-1221	ug/Kg	<7.1	<7.6	<6.9	<7.1	<6.7	<7.1
PCB-1232	ug/Kg	<4.9	<5.2	<4.8	<4.9	<4.6	<4.9
PCB-1242	ug/Kg	<2.9	<3.1	<2.9	<2.9	<2.8	<2.9
PCB-1248	ug/Kg	<4.8	<5.2	960	260	<4.6	<4.8
PCB-1254	ug/Kg	<6.0	<6.4	<5.9	<6.0	<5.7	100
PCB-1260	ug/Kg	<5.7	<6.1	120	44	<5.4	<5.7
Total PCBs	ug/Kg	0.0	0.0	1,080	304	0.0	100

ISS Treatability Study Bulk Sample Analyses - TCLP PCBs

TCLP PCBs	Units	TP-1	TP-2	TP-3	TP-4	TP-5	TP-6
PCB-1016	ug/L	<0.19	<0.19	<0.18	<0.19	<0.19	<0.19
PCB-1221	ug/L	<0.22	<0.22	<0.22	<0.23	<0.23	<0.23
PCB-1232	ug/L	<0.20	<0.20	<0.20	<0.21	<0.21	<0.21
PCB-1242	ug/L	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
PCB-1248	ug/L	<0.31	<0.31	<0.31	<0.32	<0.32	<0.32
PCB-1254	ug/L	<0.18	<0.18	<0.17	<0.18	<0.18	<0.18
PCB-1260	ug/L	<0.15	<0.15	<0.15	<0.16	<0.16	<0.16
Total TCLP PCBs	ug/L	0.0	0.0	0.0	0.0	0.0	0.0

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ken Mika
Tetra Tech, Inc.
2679 Continental Drive
Green Bay, Wisconsin 54311-6627

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JOB DESCRIPTION

WI ISS Treatability Study REVISED

JOB NUMBER

180-163503-1

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh PA 15238

See page two for job notes and contact information.

my EOL

Job Notes

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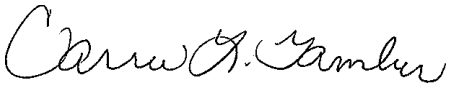
PA Lab ID: 02-00416

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

Authorization



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Authorized for release by
Carrie Gamber, Senior Project Manager
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Table of Contents

Job ID: 180-163503-1

Laboratory: Eurofins Pittsburgh

Narrative

CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: WI ISS Treatability Study REVISED

Report Number: 180-163503-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 10/06/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.3 C.

VOLATILES
Several samples were diluted to bring the concentration of target analytes within the calibration range. Elevated reporting limits (RLs) are provided.

Internal standard responses were outside of acceptance limits for the following sample: 20231005004 (180-163503-4). The sample shows evidence of matrix interference.

The laboratory control sample (LCS) for analytical batch 180-448507 recovered outside control limits for the following analyte: 1,1,2-Trichloro-1,2,2-trifluoroethane. A low-level LCS (LLCS), spiked at the reporting limit (RL), was prepared with this batch. The affected target analyte recovered within acceptance limits; therefore, the LLCS demonstrates the analytical system had sufficient sensitivity to detect the compounds had they been present. Since the affected target compounds were not detected in the samples, the data have been reported and qualified.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 180-448507 recovered outside control limits for the following analytes: Bromomethane, 1,1,2-Trichloro-1,2,2-trifluoroethane and Acetone.

The continuing calibration verification (CCV) analyzed in batch 180-448655 was outside the method criteria for the following analyte(s): 1,2,4-Trichlorobenzene, 2-Hexanone, 4-Methyl-2-pentanone and Dichloro-difluoromethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 180-448748 was outside the method criteria for the following analyte(s): 1,2-Dibromo-3-Chloropropane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 180-449023 was outside the method criteria for the following analyte(s): 1,2,4-Trichlorobenzene, 4-Methyl-2-pentanone and Trichlorofluoromethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Job ID: 180-163503-1 (Continued)

Laboratory: Eurofins Pittsburgh (Continued)

The continuing calibration verification (CCV) analyzed in 180-449023 was outside the method criteria for the following analyte(s): Acetone and Vinyl chloride. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in 180-449133 was outside the method criteria for the following analyte(s): Bromoform. indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 180-449021 was outside the method criteria for the following surrogate: 1,2-Dichloroethane-d4 (LOW). All samples recovered this surrogate within QC criteria.

The continuing calibration verification (CCV) analyzed in batch 180-449021 was outside the method criteria for the following analyte(s): 1,1,2-Trichloro-1,2,2-trifluoroethane and 2-Butanone .(LOW). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in 180-449021 was outside the method criteria for the following analyte(s): Methyl acetate. (HIGH). As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 180-449133 was outside the method criteria for the following analyte(s): Dichloro-difluoromethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 180-448507 was outside the method criteria for the following analyte(s): 1,2-Dibromo-3-Chloropropane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 2-Butanone and Acetone. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

SEMIVOLATILES

Several samples were diluted due to an abundance of target analytes. As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Several samples were diluted to bring the concentration of target analytes within the calibration range. Elevated reporting limits (RLs) are provided.

Surrogate recovery for the following sample was outside control limits: 20231005003 (180-163503-3). Evidence of matrix interference due to high target analytes is present and the undiluted analysis was within criteria; therefore, re-extraction and/or re-analysis was not performed.

The continuing calibration verification (CCV) associated with batch 180-449395 recovered outside acceptance criteria, low biased, for Bis(2-chloroethoxy)methane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

PCBS

Surrogate recovery for the following sample was outside control limits: 20231005004 (180-163503-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

The DCB Decachlorobiphenyl (Surr) surrogate recovery for the following samples was outside acceptance limits (low biased) on the primary column due to matrix interference: 20231005004 (180-163503-4). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

The continuing calibration verification (CCV) associated with batch 180-449277 recovered low and outside the control limits for PCB 1016

Job ID: 180-163503-1 (Continued)

Laboratory: Eurofins Pittsburgh (Continued)

on one column. Results are confirmed on both columns and reported from the passing column. The associated sample is: (CCVIS 180-449277/46).

PERCENT SOLIDS

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

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
^c	CCV Recovery is outside acceptance limits.
J	Reported value was between the limit of detection and the limit of quantitation.

GC/MS Semi VOA

Qualifier	Qualifier Description
^c	CCV Recovery is outside acceptance limits.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
E	Result exceeded calibration range.
J	Reported value was between the limit of detection and the limit of quantitation.
X	Surrogate recovery exceeds control limits

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate recovery exceeds control limits

Glossary

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Tetra Tech, Inc. Job ID: 180-163503-1
Project/Site: WI ISS Treatability Study REVISED

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998027800	08-31-24

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

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
8260D	5035	Solid	1,1,2-Trichloro-1,2,2-trifluoroethane
8260D	5035	Solid	Cyclohexane
8260D	5035	Solid	Methyl acetate
8260D	5035	Solid	Methylcyclohexane
EPA 8260D		Solid	1,1,2-Trichloro-1,2,2-trifluoroethane
EPA 8260D		Solid	Cyclohexane
EPA 8260D		Solid	Methyl acetate
EPA 8260D		Solid	Methylcyclohexane
EPA 8270E	3520C	Solid	Benzaldehyde
EPA 8270E	3520C	Solid	Caprolactam
EPA 8270E	3541	Solid	Benzaldehyde
EPA 8270E	3541	Solid	Caprolactam

Sample Summary

Client: Tetra Tech, Inc.
Job ID: 180-163503-1
Project/Site: WI ISS Treatability Study REVISED

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-163503-1	20231005001	Solid	10/05/23 12:04	10/06/23 08:00
180-163503-2	20231005002	Solid	10/05/23 12:31	10/06/23 08:00
180-163503-3	20231005003	Solid	10/05/23 12:55	10/06/23 08:00
180-163503-4	20231005004	Solid	10/05/23 13:20	10/06/23 08:00
180-163503-5	20231005005	Solid	10/05/23 13:36	10/06/23 08:00
180-163503-6	20231005006	Solid	10/05/23 13:52	10/06/23 08:00

Method Summary

Client: Tetra Tech, Inc.
Job ID: 180-163503-1
Project/Site: WI ISS Treatability Study REVISED

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET PIT
EPA 8260D	Volatile Organic Compounds by GC/MS	SW846	EET PIT
EPA 8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET PIT
EPA 8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET PIT
2540G	SM 2540G	SM22	EET PIT
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET PIT
3520C	Liquid-Liquid Extraction (Continuous)	SW846	EET PIT
3541	Automated Soxhlet Extraction	SW846	EET PIT
3660B	Sulfur Cleanup	SW846	EET PIT
3665A	Sulfuric Acid/Permanganate Cleanup	SW846	EET PIT
5030C	Purge and Trap	SW846	EET PIT
5035	Closed System Purge and Trap	SW846	EET PIT
EPA 1312	SPLP Extraction	SW846	EET PIT

Protocol References:

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

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

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 180-163503-1
Project/Site: WI ISS Treatability Study REVISED

Client Sample ID: 20231005001
Lab Sample ID: 180-163503-1
Date Collected: 10/05/23 12:04
Matrix: Solid
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8.1252 g	15 mL	448681	10/09/23 07:15	PJJ	EET PIT
Total/NA	Analysis	8260D		25	0.1 mL	5 mL	448655	10/09/23 15:08	PJJ	EET PIT
	Instrument ID: CHHP11									
SPLP	Leach	EPA 1312			25.51 g	500 mL	448928	10/11/23 14:30	CRL	EET PIT
SPLP	Analysis	EPA 8260D		1	5 mL	5 mL	449023	10/12/23 17:06	PJJ	EET PIT
	Instrument ID: CHHP11									
SPLP	Leach	EPA 1312	DL		25.51 g	500 mL	448928	10/11/23 14:30	CRL	EET PIT
SPLP	Analysis	EPA 8260D	DL	10	5 mL	5 mL	449133	10/13/23 19:51	C1K	EET PIT
	Instrument ID: CHHP11									
SPLP West	Leach	EPA 1312			100.65 g	2000 mL	448932	10/11/23 11:27	MTM	EET PIT
SPLP West	Prep	3520C			250 mL	2.5 mL	449682	10/19/23 11:02	BJT	EET PIT
SPLP West	Analysis	EPA 8270E		4	1 mL	1 mL	449989	10/24/23 09:48	VVP	EET PIT
	Instrument ID: CH71									
SPLP West	Leach	EPA 1312	DL		100.65 g	2000 mL	448932	10/11/23 11:27	MTM	EET PIT
SPLP West	Prep	3520C	DL		250 mL	2.5 mL	449682	10/19/23 11:02	BJT	EET PIT
SPLP West	Analysis	EPA 8270E	DL	75	1 mL	1 mL	450128	10/25/23 17:47	VVP	EET PIT
	Instrument ID: CH71									
SPLP West	Leach	EPA 1312			100.65 g	2000 mL	448932	10/11/23 11:27	MTM	EET PIT
SPLP West	Prep	3510C			1020 mL	40.0 mL	449103	10/13/23 00:15	CBY	EET PIT
SPLP West	Analysis	EPA 8082A		1	1 mL	1 mL	449277	10/16/23 07:01	JMO	EET PIT
	Instrument ID: CHGC20									
Total/NA	Analysis	2540G		1			448699	10/09/23 14:21	CMC	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: 20231005001
Lab Sample ID: 180-163503-1
Date Collected: 10/05/23 12:04
Matrix: Solid
Date Received: 10/06/23 08:00
Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	5.0 mL	449329	10/16/23 09:47	VJC	EET PIT
Total/NA	Analysis	EPA 8270E		1	1 mL	1 mL	449395	10/17/23 15:16	VVP	EET PIT
	Instrument ID: CH731									
Total/NA	Prep	3541	DL		15.5 g	5.0 mL	449329	10/16/23 09:47	VJC	EET PIT
Total/NA	Analysis	EPA 8270E	DL	40	1 mL	1 mL	449553	10/18/23 15:31	VVP	EET PIT
	Instrument ID: CH731									
Total/NA	Prep	3541			15.3 g	20.0 mL	448700	10/09/23 14:24	DVC	EET PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	448729	10/10/23 06:10	JMO	EET PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	448730	10/10/23 06:11	JMO	EET PIT
Total/NA	Analysis	EPA 8082A		1	1 mL	1 mL	448806	10/11/23 02:31	C1F	EET PIT
	Instrument ID: CHGC20									

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 180-163503-1
Project/Site: WI ISS Treatability Study REVISED

Client Sample ID: 20231005002
Lab Sample ID: 180-163503-2
Date Collected: 10/05/23 12:31
Matrix: Solid
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.2326 g	5 mL	448793	10/10/23 08:04	PJJ	EET PIT
Total/NA	Analysis	8260D		1	5 mL	5 mL	448748	10/10/23 17:06	PJJ	EET PIT
	Instrument ID: CHHP3									
SPLP	Leach	EPA 1312			24.89 g	500 mL	448928	10/11/23 14:30	CRL	EET PIT
SPLP	Analysis	EPA 8260D		1	5 mL	5 mL	449023	10/12/23 17:26	PJJ	EET PIT
	Instrument ID: CHHP11									
SPLP West	Leach	EPA 1312			100.52 g	2000 mL	448932	10/11/23 11:27	MTM	EET PIT
SPLP West	Prep	3520C			250 mL	2.5 mL	449682	10/19/23 11:02	BJT	EET PIT
SPLP West	Analysis	EPA 8270E		1	1 mL	1 mL	449989	10/24/23 15:56	VVP	EET PIT
	Instrument ID: CH71									
SPLP West	Leach	EPA 1312			100.52 g	2000 mL	448932	10/11/23 11:27	MTM	EET PIT
SPLP West	Prep	3510C			1020 mL	40.0 mL	449103	10/13/23 00:15	CBY	EET PIT
SPLP West	Analysis	EPA 8082A		1	1 mL	1 mL	449277	10/16/23 07:19	JMO	EET PIT
	Instrument ID: CHGC20									
Total/NA	Analysis	2540G		1			448699	10/09/23 14:21	CMC	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: 20231005002
Lab Sample ID: 180-163503-2
Date Collected: 10/05/23 12:31
Matrix: Solid
Date Received: 10/06/23 08:00
Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	5.0 mL	449329	10/16/23 09:47	VJC	EET PIT
Total/NA	Analysis	EPA 8270E		1	1 mL	1 mL	449395	10/17/23 15:37	VVP	EET PIT
	Instrument ID: CH731									
Total/NA	Prep	3541			15.1 g	20.0 mL	448700	10/09/23 14:24	DVC	EET PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	448729	10/10/23 06:10	JMO	EET PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	448730	10/10/23 06:11	JMO	EET PIT
Total/NA	Analysis	EPA 8082A		1	1 mL	1 mL	448806	10/11/23 02:48	C1F	EET PIT
	Instrument ID: CHGC20									

Client Sample ID: 20231005003
Lab Sample ID: 180-163503-3
Date Collected: 10/05/23 12:55
Matrix: Solid
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.0036 g	5 mL	449091	10/12/23 07:23	PJJ	EET PIT
Total/NA	Analysis	8260D		1	5 mL	5 mL	449021	10/12/23 15:53	PJJ	EET PIT
	Instrument ID: CHHP3									
SPLP	Leach	EPA 1312			25.42 g	500 mL	448928	10/11/23 14:30	CRL	EET PIT
SPLP	Analysis	EPA 8260D		1	5 mL	5 mL	449023	10/12/23 17:47	PJJ	EET PIT
	Instrument ID: CHHP11									
SPLP West	Leach	EPA 1312			100.96 g	2000 mL	448932	10/11/23 11:27	MTM	EET PIT
SPLP West	Prep	3520C			250 mL	2.5 mL	449682	10/19/23 11:02	BJT	EET PIT
SPLP West	Analysis	EPA 8270E		1	1 mL	1 mL	449989	10/24/23 16:17	VVP	EET PIT
	Instrument ID: CH71									

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 180-163503-1
Project/Site: WI ISS Treatability Study REVISED

Client Sample ID: 20231005003
Lab Sample ID: 180-163503-3
Date Collected: 10/05/23 12:55
Matrix: Solid
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP West	Leach	EPA 1312	DL		100.96 g	2000 mL	448932	10/11/23 11:27	MTM	EET PIT
SPLP West	Prep	3520C	DL		250 mL	2.5 mL	449682	10/19/23 11:02	BJT	EET PIT
SPLP West	Analysis	EPA 8270E	DL	20	1 mL	1 mL	450128	10/25/23 18:09	VVP	EET PIT
	Instrument ID: CH71									
SPLP West	Leach	EPA 1312			100.96 g	2000 mL	448932	10/11/23 11:27	MTM	EET PIT
SPLP West	Prep	3510C			1050 mL	40.0 mL	449103	10/13/23 00:15	CBY	EET PIT
SPLP West	Analysis	EPA 8082A		1	1 mL	1 mL	449277	10/16/23 07:36	JMO	EET PIT
	Instrument ID: CHGC20									
Total/NA	Analysis	2540G		1			448699	10/09/23 14:21	CMC	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: 20231005003
Lab Sample ID: 180-163503-3
Date Collected: 10/05/23 12:55
Matrix: Solid
Date Received: 10/06/23 08:00
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	5.0 mL	449329	10/16/23 09:47	VJC	EET PIT
Total/NA	Analysis	EPA 8270E		1	1 mL	1 mL	449395	10/17/23 15:59	VVP	EET PIT
	Instrument ID: CH731									
Total/NA	Prep	3541			15.0 g	20.0 mL	448700	10/09/23 14:24	DVC	EET PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	448729	10/10/23 06:10	JMO	EET PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	448730	10/10/23 06:11	JMO	EET PIT
Total/NA	Analysis	EPA 8082A		1	1 uL	1 uL	449111	10/13/23 23:44	JMO	EET PIT
	Instrument ID: CHGC16									

Client Sample ID: 20231005004
Lab Sample ID: 180-163503-4
Date Collected: 10/05/23 13:20
Matrix: Solid
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035	DL		2.5629 g	5 mL	448556	10/06/23 13:33	PJJ	EET PIT
Total/NA	Analysis	8260D	DL	1	5 mL	5 mL	448507	10/06/23 20:30	PJJ	EET PIT
	Instrument ID: CHHP3									
Total/NA	Prep	5035			5.0605 g	5 mL	448793	10/10/23 08:04	PJJ	EET PIT
Total/NA	Analysis	8260D		1	5 mL	5 mL	448748	10/10/23 20:12	PJJ	EET PIT
	Instrument ID: CHHP3									
SPLP	Leach	EPA 1312			24.75 g	500 mL	448928	10/11/23 14:30	CRL	EET PIT
SPLP	Analysis	EPA 8260D		1	5 mL	5 mL	449023	10/12/23 18:08	PJJ	EET PIT
	Instrument ID: CHHP11									
SPLP	Leach	EPA 1312	DL		24.75 g	500 mL	448928	10/11/23 14:30	CRL	EET PIT
SPLP	Analysis	EPA 8260D	DL	25	5 mL	5 mL	449133	10/13/23 20:12	C1K	EET PIT
	Instrument ID: CHHP11									
SPLP West	Leach	EPA 1312			100.00 g	2000 mL	448932	10/11/23 11:27	MTM	EET PIT
SPLP West	Prep	3520C			250 mL	2.5 mL	449682	10/19/23 11:02	BJT	EET PIT
SPLP West	Analysis	EPA 8270E		4	1 mL	1 mL	449989	10/24/23 10:10	VVP	EET PIT
	Instrument ID: CH71									

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 180-163503-1
Project/Site: WI ISS Treatability Study REVISED

Client Sample ID: 20231005004
Lab Sample ID: 180-163503-4
Date Collected: 10/05/23 13:20
Matrix: Solid
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP West	Leach	EPA 1312	DL		100.00 g	2000 mL	448932	10/11/23 11:27	MTM	EET PIT
SPLP West	Prep	3520C	DL		250 mL	2.5 mL	449682	10/19/23 11:02	BJT	EET PIT
SPLP West	Analysis	EPA 8270E	DL	75	1 mL	1 mL	450128	10/25/23 18:30	VVP	EET PIT
	Instrument ID: CH71									
SPLP West	Leach	EPA 1312			100.00 g	2000 mL	448932	10/11/23 11:27	MTM	EET PIT
SPLP West	Prep	3510C			1010 mL	40.0 mL	449103	10/13/23 00:15	CBY	EET PIT
SPLP West	Analysis	EPA 8082A		1	1 mL	1 mL	449277	10/16/23 07:54	JMO	EET PIT
	Instrument ID: CHGC20									
Total/NA	Analysis	2540G		1			448699	10/09/23 14:21	CMC	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: 20231005004
Lab Sample ID: 180-163503-4
Date Collected: 10/05/23 13:20
Matrix: Solid
Date Received: 10/06/23 08:00
Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	5.0 mL	449329	10/16/23 09:47	VJC	EET PIT
Total/NA	Analysis	EPA 8270E		1	1 mL	1 mL	449395	10/17/23 16:21	VVP	EET PIT
	Instrument ID: CH731									
Total/NA	Prep	3541	DL		15.3 g	5.0 mL	449329	10/16/23 09:47	VJC	EET PIT
Total/NA	Analysis	EPA 8270E	DL	100	1 mL	1 mL	449553	10/18/23 15:53	VVP	EET PIT
	Instrument ID: CH731									
Total/NA	Prep	3541			15.0 g	20.0 mL	448700	10/09/23 14:24	DVC	EET PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	448729	10/10/23 06:10	JMO	EET PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	448730	10/10/23 06:11	JMO	EET PIT
Total/NA	Analysis	EPA 8082A		1	1 uL	1 uL	449111	10/14/23 00:03	JMO	EET PIT
	Instrument ID: CHGC16									

Client Sample ID: 20231005005
Lab Sample ID: 180-163503-5
Date Collected: 10/05/23 13:36
Matrix: Solid
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.6073 g	15 mL	448681	10/09/23 07:15	PJJ	EET PIT
Total/NA	Analysis	8260D		25	0.1 mL	5 mL	448655	10/09/23 14:47	PJJ	EET PIT
	Instrument ID: CHHP11									
SPLP	Leach	EPA 1312			24.92 g	500 mL	448928	10/11/23 14:30	CRL	EET PIT
SPLP	Analysis	EPA 8260D		1	5 mL	5 mL	449023	10/12/23 18:28	PJJ	EET PIT
	Instrument ID: CHHP11									
SPLP	Leach	EPA 1312	DL		24.92 g	500 mL	448928	10/11/23 14:30	CRL	EET PIT
SPLP	Analysis	EPA 8260D	DL	75	5 mL	5 mL	449133	10/13/23 20:33	C1K	EET PIT
	Instrument ID: CHHP11									
SPLP West	Leach	EPA 1312			100.49 g	2000 mL	448932	10/11/23 11:27	MTM	EET PIT
SPLP West	Prep	3520C			250 mL	2.5 mL	449682	10/19/23 11:02	BJT	EET PIT
SPLP West	Analysis	EPA 8270E		4	1 mL	1 mL	449989	10/24/23 10:31	VVP	EET PIT
	Instrument ID: CH71									

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 180-163503-1
Project/Site: WI ISS Treatability Study REVISED

Client Sample ID: 20231005005
Lab Sample ID: 180-163503-5
Date Collected: 10/05/23 13:36
Matrix: Solid
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP West	Leach	EPA 1312	DL		100.49 g	2000 mL	448932	10/11/23 11:27	MTM	EET PIT
SPLP West	Prep	3520C	DL		250 mL	2.5 mL	449682	10/19/23 11:02	BJT	EET PIT
SPLP West	Analysis	EPA 8270E	DL	50	1 mL	1 mL	450165	10/25/23 20:25	VVP	EET PIT
	Instrument ID: CH731									
SPLP West	Leach	EPA 1312			100.49 g	2000 mL	448932	10/11/23 11:27	MTM	EET PIT
SPLP West	Prep	3510C			1010 mL	40.0 mL	449103	10/13/23 00:15	CBY	EET PIT
SPLP West	Analysis	EPA 8082A		1	1 mL	1 mL	449277	10/16/23 08:11	JMO	EET PIT
	Instrument ID: CHGC20									
Total/NA	Analysis	2540G		1			448699	10/09/23 14:21	CMC	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: 20231005005
Lab Sample ID: 180-163503-5
Date Collected: 10/05/23 13:36
Matrix: Solid
Date Received: 10/06/23 08:00
Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	5.0 mL	449329	10/16/23 09:47	VJC	EET PIT
Total/NA	Analysis	EPA 8270E		1	1 mL	1 mL	449395	10/17/23 16:43	VVP	EET PIT
	Instrument ID: CH731									
Total/NA	Prep	3541	DL		15.1 g	5.0 mL	449329	10/16/23 09:47	VJC	EET PIT
Total/NA	Analysis	EPA 8270E	DL	100	1 mL	1 mL	449553	10/18/23 16:14	VVP	EET PIT
	Instrument ID: CH731									
Total/NA	Prep	3541			15.3 g	20.0 mL	448700	10/09/23 14:24	DVC	EET PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	448729	10/10/23 06:10	JMO	EET PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	448730	10/10/23 06:11	JMO	EET PIT
Total/NA	Analysis	EPA 8082A		1	1 mL	1 mL	448806	10/11/23 03:42	C1F	EET PIT
	Instrument ID: CHGC20									

Client Sample ID: 20231005006
Lab Sample ID: 180-163503-6
Date Collected: 10/05/23 13:52
Matrix: Solid
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.0071 g	15 mL	448681	10/09/23 07:15	PJJ	EET PIT
Total/NA	Analysis	8260D		25	0.1 mL	5 mL	448655	10/09/23 14:26	PJJ	EET PIT
	Instrument ID: CHHP11									
SPLP	Leach	EPA 1312			25.54 g	500 mL	448928	10/11/23 14:30	CRL	EET PIT
SPLP	Analysis	EPA 8260D		1	5 mL	5 mL	449023	10/12/23 18:49	PJJ	EET PIT
	Instrument ID: CHHP11									
SPLP	Leach	EPA 1312	DL		25.54 g	500 mL	448928	10/11/23 14:30	CRL	EET PIT
SPLP	Analysis	EPA 8260D	DL	60	5 mL	5 mL	449133	10/13/23 20:54	C1K	EET PIT
	Instrument ID: CHHP11									
SPLP West	Leach	EPA 1312			100.27 g	2000 mL	448932	10/11/23 11:27	MTM	EET PIT
SPLP West	Prep	3520C			250 mL	2.5 mL	449682	10/19/23 11:02	BJT	EET PIT
SPLP West	Analysis	EPA 8270E		4	1 mL	1 mL	449989	10/24/23 10:53	VVP	EET PIT
	Instrument ID: CH71									

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 180-163503-1
Project/Site: WI ISS Treatability Study REVISED

Client Sample ID: 20231005006
Lab Sample ID: 180-163503-6
Date Collected: 10/05/23 13:52
Matrix: Solid
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP West	Leach	EPA 1312	DL		100.27 g	2000 mL	448932	10/11/23 11:27	MTM	EET PIT
SPLP West	Prep	3520C	DL		250 mL	2.5 mL	449682	10/19/23 11:02	BJT	EET PIT
SPLP West	Analysis	EPA 8270E	DL	75	1 mL	1 mL	450165	10/25/23 20:48	VVP	EET PIT
	Instrument ID: CH731									
SPLP West	Leach	EPA 1312			100.27 g	2000 mL	448932	10/11/23 11:27	MTM	EET PIT
SPLP West	Prep	3510C			1000 mL	40.0 mL	449103	10/13/23 00:15	CBY	EET PIT
SPLP West	Analysis	EPA 8082A		1	1 mL	1 mL	449277	10/16/23 08:29	JMO	EET PIT
	Instrument ID: CHGC20									
Total/NA	Analysis	2540G		1			448699	10/09/23 14:21	CMC	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: 20231005006
Lab Sample ID: 180-163503-6
Date Collected: 10/05/23 13:52
Matrix: Solid
Date Received: 10/06/23 08:00
Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	5.0 mL	449329	10/16/23 09:47	VJC	EET PIT
Total/NA	Analysis	EPA 8270E		1	1 mL	1 mL	449395	10/17/23 17:05	VVP	EET PIT
	Instrument ID: CH731									
Total/NA	Prep	3541	DL		15.1 g	5.0 mL	449329	10/16/23 09:47	VJC	EET PIT
Total/NA	Analysis	EPA 8270E	DL	200	1 mL	1 mL	449634	10/19/23 10:31	VVP	EET PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.1 g	20.0 mL	448700	10/09/23 14:24	DVC	EET PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	448729	10/10/23 06:10	JMO	EET PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	448730	10/10/23 06:11	JMO	EET PIT
Total/NA	Analysis	EPA 8082A		1	1 mL	1 mL	448806	10/11/23 03:59	C1F	EET PIT
	Instrument ID: CHGC20									

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:
EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Client: Tetra Tech, Inc.
Job ID: 180-163503-1
Project/Site: WI ISS Treatability Study REVISED

Analyst References:

Lab: EET PIT

- Batch Type: Leach
  - CRL = Craig Tronzo
  - JMO = John Oravec
  - MTM = Matthew McGhee
- Batch Type: Prep
  - BJT = Bill Trout
  - CBY = Charles Yushinski
  - DVC = Daniel Capodanno
  - PJJ = Patrick Journet
  - VJC = Vincent Cervone
- Batch Type: Analysis
  - C1F = Courtney Fenk
  - C1K = Chamaiporn Krisorn
  - CMC = Candace California
  - JMO = John Oravec
  - PJJ = Patrick Journet
  - VVP = Vincent Piccolino

Client: Tetra Tech, Inc.
Job ID: 180-163503-1
Project/Site: WI ISS Treatability Study REVISED

Client Sample ID: 20231005001
Lab Sample ID: 180-163503-1
Date Collected: 10/05/23 12:04
Matrix: Solid
Date Received: 10/06/23 08:00

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<3900		12000	3900	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
1,1,2,2-Tetrachloroethane	<3500		12000	3500	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
1,1,2-Trichloro-1,2,2-trifluoroethane	<4600		12000	4600	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
1,1,2-Trichloroethane	<2300		12000	2300	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
1,1-Dichloroethane	<3700		12000	3700	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
1,1-Dichloroethene	<5200		12000	5200	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
1,2-Dibromo-3-Chloropropane	<7500		12000	7500	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
1,2-Dichlorobenzene	<3900		12000	3900	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
1,2-Dichloroethane	<3300		12000	3300	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
1,2-Dichloropropane	<3100		12000	3100	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
1,2,4-Trichlorobenzene	<5900	^c	12000	5900	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
1,3-Dichlorobenzene	<7100		12000	7100	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
1,4-Dichlorobenzene	<3500		12000	3500	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
2-Butanone (MEK)	<5900		58000	5900	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
2-Hexanone	<3600	^c	58000	3600	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
4-Methyl-2-pentanone (MIBK)	<4200	^c	58000	4200	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
Acetone	<9000		58000	9000	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
Benzene	<3300		12000	3300	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
Bromoform	<5800		12000	5800	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
Bromomethane	<5300		12000	5300	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
Carbon disulfide	<9200		12000	9200	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
Carbon tetrachloride	<4700		12000	4700	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
Chlorobenzene	<3000		12000	3000	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
Chlorodibromomethane	<5700		12000	5700	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
Chloroform	<7800		12000	7800	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
Chloromethane	<4600		12000	4600	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
Chloroethane	<6700		12000	6700	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
cis-1,2-Dichloroethene	<3500		12000	3500	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
cis-1,3-Dichloropropene	<5100		12000	5100	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
Dichlorobromomethane	<5400		12000	5400	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
Dichlorodifluoromethane	<5800	^c	12000	5800	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
Ethylbenzene	<4300		12000	4300	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
1,2-Dibromoethane	<3200		12000	3200	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
Cyclohexane	<5500		12000	5500	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
Isopropylbenzene	<6000		12000	6000	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
Methyl acetate	<17000		58000	17000	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
Methyl tert-butyl ether	<3400		12000	3400	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
Methylcyclohexane	<5600		12000	5600	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
Methylene Chloride	<10000		12000	10000	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
Styrene	<3500		12000	3500	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
Tetrachloroethene	<4700		12000	4700	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
Toluene	<3300		12000	3300	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
trans-1,2-Dichloroethene	<4000		12000	4000	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
trans-1,3-Dichloropropene	<5200		12000	5200	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
Trichloroethene	<3600		12000	3600	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
Trichlorofluoromethane	<9600		12000	9600	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
Vinyl chloride	<8300		12000	8300	ug/Kg		10/09/23 07:15	10/09/23 15:08	25
Xylenes, Total	<17000		23000	17000	ug/Kg		10/09/23 07:15	10/09/23 15:08	25

Client Sample ID: 20231005001
Lab Sample ID: 180-163503-1
Date Collected: 10/05/23 12:04
Matrix: Solid
Date Received: 10/06/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*49 - 147*	*10/09/23 07:15*	*10/09/23 15:08*	*25*
4-Bromofluorobenzene (Surr)	*78*		*54 - 119*	*10/09/23 07:15*	*10/09/23 15:08*	*25*
Dibromofluoromethane (Surr)	*84*		*57 - 126*	*10/09/23 07:15*	*10/09/23 15:08*	*25*
Toluene-d8 (Surr)	*83*		*55 - 118*	*10/09/23 07:15*	*10/09/23 15:08*	*25*

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<3.0		5.0	3.0	ug/L			10/12/23 17:06	1
1,1,2,2-Tetrachloroethane	<3.0		5.0	3.0	ug/L			10/12/23 17:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<4.3		5.0	4.3	ug/L			10/12/23 17:06	1
1,1,2-Trichloroethane	<2.3		5.0	2.3	ug/L			10/12/23 17:06	1
1,1-Dichloroethane	<3.1		5.0	3.1	ug/L			10/12/23 17:06	1
1,1-Dichloroethene	<2.8		5.0	2.8	ug/L			10/12/23 17:06	1
1,2-Dibromo-3-Chloropropane	<4.4		5.0	4.4	ug/L			10/12/23 17:06	1
1,2-Dichlorobenzene	<1.8		5.0	1.8	ug/L			10/12/23 17:06	1
1,2-Dichloroethane	<2.9		5.0	2.9	ug/L			10/12/23 17:06	1
1,2-Dichloropropane	<3.3		5.0	3.3	ug/L			10/12/23 17:06	1
1,2,4-Trichlorobenzene	<3.9	^c	5.0	3.9	ug/L			10/12/23 17:06	1
1,3-Dichlorobenzene	<2.5		5.0	2.5	ug/L			10/12/23 17:06	1
1,4-Dichlorobenzene	<2.7		5.0	2.7	ug/L			10/12/23 17:06	1
2-Butanone (MEK)	<13		25	13	ug/L			10/12/23 17:06	1
2-Hexanone	<16		25	16	ug/L			10/12/23 17:06	1
4-Methyl-2-pentanone (MIBK)	<15	^c	25	15	ug/L			10/12/23 17:06	1
Acetone	<17	^c	25	17	ug/L			10/12/23 17:06	1
Benzene	**10**		5.0	3.0	ug/L			10/12/23 17:06	1
Bromoform	<4.9		5.0	4.9	ug/L			10/12/23 17:06	1
Bromomethane	<4.4		5.0	4.4	ug/L			10/12/23 17:06	1
Carbon disulfide	<4.4		5.0	4.4	ug/L			10/12/23 17:06	1
Carbon tetrachloride	<4.4		5.0	4.4	ug/L			10/12/23 17:06	1
Chlorobenzene	<2.5		5.0	2.5	ug/L			10/12/23 17:06	1
Chlorodibromomethane	<4.2		5.0	4.2	ug/L			10/12/23 17:06	1
Chloroform	<3.0		5.0	3.0	ug/L			10/12/23 17:06	1
Chloromethane	<4.5		5.0	4.5	ug/L			10/12/23 17:06	1
Chloroethane	<4.5		5.0	4.5	ug/L			10/12/23 17:06	1
cis-1,2-Dichloroethene	<3.5		5.0	3.5	ug/L			10/12/23 17:06	1
cis-1,3-Dichloropropene	<3.0		5.0	3.0	ug/L			10/12/23 17:06	1
Dichlorobromomethane	<3.2		5.0	3.2	ug/L			10/12/23 17:06	1
Dichlorodifluoromethane	<4.2		5.0	4.2	ug/L			10/12/23 17:06	1
Ethylbenzene	**23**		5.0	2.5	ug/L			10/12/23 17:06	1
1,2-Dibromoethane	<2.5		5.0	2.5	ug/L			10/12/23 17:06	1
Cyclohexane	<3.2		5.0	3.2	ug/L			10/12/23 17:06	1
Isopropylbenzene	**2.2**	**J**	5.0	1.7	ug/L			10/12/23 17:06	1
Methyl acetate	<8.4		25	8.4	ug/L			10/12/23 17:06	1
Methyl tert-butyl ether	<3.0		5.0	3.0	ug/L			10/12/23 17:06	1
Methylcyclohexane	<3.0		5.0	3.0	ug/L			10/12/23 17:06	1
Methylene Chloride	**24**		5.0	4.4	ug/L			10/12/23 17:06	1
Styrene	<2.4		5.0	2.4	ug/L			10/12/23 17:06	1
Tetrachloroethene	<2.3		5.0	2.3	ug/L			10/12/23 17:06	1
trans-1,2-Dichloroethene	<3.4		5.0	3.4	ug/L			10/12/23 17:06	1
trans-1,3-Dichloropropene	<2.9		5.0	2.9	ug/L			10/12/23 17:06	1

Client Sample ID: 20231005001
Lab Sample ID: 180-163503-1
Date Collected: 10/05/23 12:04
Matrix: Solid
Date Received: 10/06/23 08:00

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS - SPLP (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<3.4		5.0	3.4	ug/L			10/12/23 17:06	1
Trichlorofluoromethane	<4.4	^c	5.0	4.4	ug/L			10/12/23 17:06	1
Vinyl chloride	<2.0	^c	5.0	2.0	ug/L			10/12/23 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*78*		*52 - 151*		*10/12/23 17:06*	*1*
4-Bromofluorobenzene (Surr)	*80*		*49 - 118*		*10/12/23 17:06*	*1*
Dibromofluoromethane (Surr)	*84*		*60 - 132*		*10/12/23 17:06*	*1*
Toluene-d8 (Surr)	*80*		*53 - 124*		*10/12/23 17:06*	*1*

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS - SPLP - DL

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	**49**	**J**	50	23	ug/L			10/13/23 19:51	10
Xylenes, Total	**130**		100	45	ug/L			10/13/23 19:51	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*52 - 151*		*10/13/23 19:51*	*10*
4-Bromofluorobenzene (Surr)	*82*		*49 - 118*		*10/13/23 19:51*	*10*
Dibromofluoromethane (Surr)	*102*		*60 - 132*		*10/13/23 19:51*	*10*
Toluene-d8 (Surr)	*87*		*53 - 124*		*10/13/23 19:51*	*10*

Method: SW846 EPA 8270E - Semivolatile Organic Compounds (GC/MS) - SPLP West

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	**110**		40	5.7	ug/L		10/19/23 11:02	10/24/23 09:48	4
2,4,5-Trichlorophenol	<10		40	10	ug/L		10/19/23 11:02	10/24/23 09:48	4
2,4,6-Trichlorophenol	<9.0		40	9.0	ug/L		10/19/23 11:02	10/24/23 09:48	4
2,4-Dichlorophenol	<2.0		7.6	2.0	ug/L		10/19/23 11:02	10/24/23 09:48	4
2,4-Dimethylphenol	**330**		40	6.7	ug/L		10/19/23 11:02	10/24/23 09:48	4
2,4-Dinitrophenol	<61		400	61	ug/L		10/19/23 11:02	10/24/23 09:48	4
2,4-Dinitrotoluene	<14		40	14	ug/L		10/19/23 11:02	10/24/23 09:48	4
2,6-Dinitrotoluene	<6.9		40	6.9	ug/L		10/19/23 11:02	10/24/23 09:48	4
2-Chloronaphthalene	<2.4		7.6	2.4	ug/L		10/19/23 11:02	10/24/23 09:48	4
2-Chlorophenol	<5.2		40	5.2	ug/L		10/19/23 11:02	10/24/23 09:48	4
2-Methylnaphthalene	**870**		7.6	2.5	ug/L		10/19/23 11:02	10/24/23 09:48	4
2-Methylphenol	**430**		40	12	ug/L		10/19/23 11:02	10/24/23 09:48	4
2-Nitroaniline	<22		200	22	ug/L		10/19/23 11:02	10/24/23 09:48	4
2-Nitrophenol	<7.7		40	7.7	ug/L		10/19/23 11:02	10/24/23 09:48	4
3,3'-Dichlorobenzidine	<23		40	23	ug/L		10/19/23 11:02	10/24/23 09:48	4
3-Nitroaniline	<17		200	17	ug/L		10/19/23 11:02	10/24/23 09:48	4
4-Chlorophenyl phenyl ether	<8.8		40	8.8	ug/L		10/19/23 11:02	10/24/23 09:48	4
4,6-Dinitro-2-methylphenol	<59		200	59	ug/L		10/19/23 11:02	10/24/23 09:48	4
4-Chloro-3-methylphenol	<11		40	11	ug/L		10/19/23 11:02	10/24/23 09:48	4
4-Chloroaniline	<15		40	15	ug/L		10/19/23 11:02	10/24/23 09:48	4
Methylphenol, 3 & 4	**1100**		40	15	ug/L		10/19/23 11:02	10/24/23 09:48	4
4-Nitroaniline	<15		200	15	ug/L		10/19/23 11:02	10/24/23 09:48	4
4-Nitrophenol	<38		200	38	ug/L		10/19/23 11:02	10/24/23 09:48	4
Acenaphthene	**310**		7.6	2.6	ug/L		10/19/23 11:02	10/24/23 09:48	4
Acenaphthylene	**6.4**	**J**	7.6	2.6	ug/L		10/19/23 11:02	10/24/23 09:48	4
Acetophenone	<6.4		40	6.4	ug/L		10/19/23 11:02	10/24/23 09:48	4
Anthracene	**18**		7.6	2.0	ug/L		10/19/23 11:02	10/24/23 09:48	4

Client Sample ID: 20231005001
Lab Sample ID: 180-163503-1
Date Collected: 10/05/23 12:04
Matrix: Solid
Date Received: 10/06/23 08:00

Method: SW846 EPA 8270E - Semivolatile Organic Compounds (GC/MS) - SPLP West (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	<25		40	25	ug/L		10/19/23 11:02	10/24/23 09:48	4
Benzaldehyde	<22		40	22	ug/L		10/19/23 11:02	10/24/23 09:48	4
Benzo[a]anthracene	<3.0		7.6	3.0	ug/L		10/19/23 11:02	10/24/23 09:48	4
Benzo[a]pyrene	<2.1		7.6	2.1	ug/L		10/19/23 11:02	10/24/23 09:48	4
Benzo[b]fluoranthene	<3.9		7.6	3.9	ug/L		10/19/23 11:02	10/24/23 09:48	4
Benzo[g,h,i]perylene	<2.8		7.6	2.8	ug/L		10/19/23 11:02	10/24/23 09:48	4
Benzo[k]fluoranthene	<3.5		7.6	3.5	ug/L		10/19/23 11:02	10/24/23 09:48	4
Bis(2-chloroethoxy)methane	<6.1		40	6.1	ug/L		10/19/23 11:02	10/24/23 09:48	4
Bis(2-chloroethyl)ether	<1.6		7.6	1.6	ug/L		10/19/23 11:02	10/24/23 09:48	4
Bis(2-ethylhexyl) phthalate	<250		400	250	ug/L		10/19/23 11:02	10/24/23 09:48	4
Butyl benzyl phthalate	<18		40	18	ug/L		10/19/23 11:02	10/24/23 09:48	4
Caprolactam	<19		200	19	ug/L		10/19/23 11:02	10/24/23 09:48	4
Carbazole	**270**		7.6	2.0	ug/L		10/19/23 11:02	10/24/23 09:48	4
Chrysene	<3.2		7.6	3.2	ug/L		10/19/23 11:02	10/24/23 09:48	4
Dibenz(a,h)anthracene	<2.9		7.6	2.9	ug/L		10/19/23 11:02	10/24/23 09:48	4
Dibenzofuran	**220**		40	7.6	ug/L		10/19/23 11:02	10/24/23 09:48	4
Diethyl phthalate	<23		40	23	ug/L		10/19/23 11:02	10/24/23 09:48	4
Dimethyl phthalate	<8.0		40	8.0	ug/L		10/19/23 11:02	10/24/23 09:48	4
Di-n-butyl phthalate	<30		40	30	ug/L		10/19/23 11:02	10/24/23 09:48	4
Di-n-octyl phthalate	<27		40	27	ug/L		10/19/23 11:02	10/24/23 09:48	4
Fluoranthene	**11**		7.6	2.4	ug/L		10/19/23 11:02	10/24/23 09:48	4
Fluorene	**170**		7.6	2.8	ug/L		10/19/23 11:02	10/24/23 09:48	4
Hexachlorobenzene	<2.2		7.6	2.2	ug/L		10/19/23 11:02	10/24/23 09:48	4
Hexachlorobutadiene	<2.8		7.6	2.8	ug/L		10/19/23 11:02	10/24/23 09:48	4
Hexachlorocyclopentadiene	<20		40	20	ug/L		10/19/23 11:02	10/24/23 09:48	4
Hexachloroethane	<5.3		40	5.3	ug/L		10/19/23 11:02	10/24/23 09:48	4
Indeno[1,2,3-cd]pyrene	<3.4		7.6	3.4	ug/L		10/19/23 11:02	10/24/23 09:48	4
Isophorone	<7.5		40	7.5	ug/L		10/19/23 11:02	10/24/23 09:48	4
Naphthalene	**5400**	**E**	7.6	2.4	ug/L		10/19/23 11:02	10/24/23 09:48	4
Nitrobenzene	<20		80	20	ug/L		10/19/23 11:02	10/24/23 09:48	4
N-Nitrosodi-n-propylamine	<2.8		7.6	2.8	ug/L		10/19/23 11:02	10/24/23 09:48	4
N-Nitrosodiphenylamine	<4.8		40	4.8	ug/L		10/19/23 11:02	10/24/23 09:48	4
Pentachlorophenol	<34		200	34	ug/L		10/19/23 11:02	10/24/23 09:48	4
Phenanthrene	**160**		7.6	2.2	ug/L		10/19/23 11:02	10/24/23 09:48	4
Phenol	**590**		40	19	ug/L		10/19/23 11:02	10/24/23 09:48	4
Pyrene	**5.5**	**J**	7.6	2.2	ug/L		10/19/23 11:02	10/24/23 09:48	4
2,2'-oxybis[1-chloropropane]	<2.3		7.6	2.3	ug/L		10/19/23 11:02	10/24/23 09:48	4
4-Bromophenyl phenyl ether	<13		40	13	ug/L		10/19/23 11:02	10/24/23 09:48	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*78*		*39 - 121*	*10/19/23 11:02*	*10/24/23 09:48*	*4*
2-Fluorobiphenyl	*85*		*45 - 105*	*10/19/23 11:02*	*10/24/23 09:48*	*4*
2-Fluorophenol (Surr)	*82*		*38 - 105*	*10/19/23 11:02*	*10/24/23 09:48*	*4*
Nitrobenzene-d5 (Surr)	*90*		*45 - 106*	*10/19/23 11:02*	*10/24/23 09:48*	*4*
Phenol-d5 (Surr)	*90*		*38 - 105*	*10/19/23 11:02*	*10/24/23 09:48*	*4*
Terphenyl-d14 (Surr)	*72*		*28 - 125*	*10/19/23 11:02*	*10/24/23 09:48*	*4*

Method: SW846 EPA 8270E - Semivolatile Organic Compounds (GC/MS) - SPLP West - DL

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<110		750	110	ug/L		10/19/23 11:02	10/25/23 17:47	75

Client: Tetra Tech, Inc.
Job ID: 180-163503-1
Project/Site: WI ISS Treatability Study REVISED

Client Sample ID: 20231005001
Lab Sample ID: 180-163503-1
Date Collected: 10/05/23 12:04
Matrix: Solid
Date Received: 10/06/23 08:00

Method: SW846 EPA 8270E - Semivolatile Organic Compounds (GC/MS) - SPLP West - DL (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<190		750	190	ug/L		10/19/23 11:02	10/25/23 17:47	75
2,4,6-Trichlorophenol	<170		750	170	ug/L		10/19/23 11:02	10/25/23 17:47	75
2,4-Dichlorophenol	<38		140	38	ug/L		10/19/23 11:02	10/25/23 17:47	75
2,4-Dimethylphenol	**270**	**J**	750	130	ug/L		10/19/23 11:02	10/25/23 17:47	75
2,4-Dinitrophenol	<1100		7500	1100	ug/L		10/19/23 11:02	10/25/23 17:47	75
2,4-Dinitrotoluene	<260		750	260	ug/L		10/19/23 11:02	10/25/23 17:47	75
2,6-Dinitrotoluene	<130		750	130	ug/L		10/19/23 11:02	10/25/23 17:47	75
2-Chloronaphthalene	<44		140	44	ug/L		10/19/23 11:02	10/25/23 17:47	75
2-Chlorophenol	<97		750	97	ug/L		10/19/23 11:02	10/25/23 17:47	75
2-Methylnaphthalene	**740**		140	47	ug/L		10/19/23 11:02	10/25/23 17:47	75
2-Methylphenol	**350**	**J**	750	230	ug/L		10/19/23 11:02	10/25/23 17:47	75
2-Nitroaniline	<410		3800	410	ug/L		10/19/23 11:02	10/25/23 17:47	75
2-Nitrophenol	<140		750	140	ug/L		10/19/23 11:02	10/25/23 17:47	75
3,3'-Dichlorobenzidine	<440		750	440	ug/L		10/19/23 11:02	10/25/23 17:47	75
3-Nitroaniline	<330		3800	330	ug/L		10/19/23 11:02	10/25/23 17:47	75
4-Chlorophenyl phenyl ether	<170		750	170	ug/L		10/19/23 11:02	10/25/23 17:47	75
4,6-Dinitro-2-methylphenol	<1100		3800	1100	ug/L		10/19/23 11:02	10/25/23 17:47	75
4-Chloro-3-methylphenol	<210		750	210	ug/L		10/19/23 11:02	10/25/23 17:47	75
4-Chloroaniline	<280		750	280	ug/L		10/19/23 11:02	10/25/23 17:47	75
Methylphenol, 3 & 4	**930**		750	280	ug/L		10/19/23 11:02	10/25/23 17:47	75
4-Nitroaniline	<270		3800	270	ug/L		10/19/23 11:02	10/25/23 17:47	75
4-Nitrophenol	<710		3800	710	ug/L		10/19/23 11:02	10/25/23 17:47	75
Acenaphthene	**260**		140	49	ug/L		10/19/23 11:02	10/25/23 17:47	75
Acenaphthylene	<49		140	49	ug/L		10/19/23 11:02	10/25/23 17:47	75
Acetophenone	<120		750	120	ug/L		10/19/23 11:02	10/25/23 17:47	75
Anthracene	<37		140	37	ug/L		10/19/23 11:02	10/25/23 17:47	75
Atrazine	<470		750	470	ug/L		10/19/23 11:02	10/25/23 17:47	75
Benzaldehyde	<400		750	400	ug/L		10/19/23 11:02	10/25/23 17:47	75
Benzo[a]anthracene	<56		140	56	ug/L		10/19/23 11:02	10/25/23 17:47	75
Benzo[a]pyrene	<40		140	40	ug/L		10/19/23 11:02	10/25/23 17:47	75
Benzo[b]fluoranthene	<73		140	73	ug/L		10/19/23 11:02	10/25/23 17:47	75
Benzo[g,h,i]perylene	<52		140	52	ug/L		10/19/23 11:02	10/25/23 17:47	75
Benzo[k]fluoranthene	<66		140	66	ug/L		10/19/23 11:02	10/25/23 17:47	75
Bis(2-chloroethoxy)methane	<110		750	110	ug/L		10/19/23 11:02	10/25/23 17:47	75
Bis(2-chloroethyl)ether	<30		140	30	ug/L		10/19/23 11:02	10/25/23 17:47	75
Bis(2-ethylhexyl) phthalate	<4700		7500	4700	ug/L		10/19/23 11:02	10/25/23 17:47	75
Butyl benzyl phthalate	<350		750	350	ug/L		10/19/23 11:02	10/25/23 17:47	75
Caprolactam	<350		3800	350	ug/L		10/19/23 11:02	10/25/23 17:47	75
Carbazole	**210**		140	38	ug/L		10/19/23 11:02	10/25/23 17:47	75
Chrysene	<61		140	61	ug/L		10/19/23 11:02	10/25/23 17:47	75
Dibenz(a,h)anthracene	<54		140	54	ug/L		10/19/23 11:02	10/25/23 17:47	75
Dibenzofuran	**180**	**J**	750	140	ug/L		10/19/23 11:02	10/25/23 17:47	75
Diethyl phthalate	<430		750	430	ug/L		10/19/23 11:02	10/25/23 17:47	75
Dimethyl phthalate	<150		750	150	ug/L		10/19/23 11:02	10/25/23 17:47	75
Di-n-butyl phthalate	<560		750	560	ug/L		10/19/23 11:02	10/25/23 17:47	75
Di-n-octyl phthalate	<510		750	510	ug/L		10/19/23 11:02	10/25/23 17:47	75
Fluoranthene	<45		140	45	ug/L		10/19/23 11:02	10/25/23 17:47	75
Fluorene	**140**		140	52	ug/L		10/19/23 11:02	10/25/23 17:47	75
Hexachlorobenzene	<42		140	42	ug/L		10/19/23 11:02	10/25/23 17:47	75

Client Sample ID: 20231005001 — **Lab Sample ID: 180-163503-1**
Date Collected: 10/05/23 12:04 — **Matrix: Solid**
Date Received: 10/06/23 08:00

Method: SW846 EPA 8270E - Semivolatile Organic Compounds (GC/MS) - SPLP West - DL (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	<52		140	52	ug/L		10/19/23 11:02	10/25/23 17:47	75
Hexachlorocyclopentadiene	<370		750	370	ug/L		10/19/23 11:02	10/25/23 17:47	75
Hexachloroethane	<100		750	100	ug/L		10/19/23 11:02	10/25/23 17:47	75
Indeno[1,2,3-cd]pyrene	<64		140	64	ug/L		10/19/23 11:02	10/25/23 17:47	75
Isophorone	<140		750	140	ug/L		10/19/23 11:02	10/25/23 17:47	75
Naphthalene	**7800**		140	44	ug/L		10/19/23 11:02	10/25/23 17:47	75
Nitrobenzene	<380		1500	380	ug/L		10/19/23 11:02	10/25/23 17:47	75
N-Nitrosodi-n-propylamine	<53		140	53	ug/L		10/19/23 11:02	10/25/23 17:47	75
N-Nitrosodiphenylamine	<89		750	89	ug/L		10/19/23 11:02	10/25/23 17:47	75
Pentachlorophenol	<640		3800	640	ug/L		10/19/23 11:02	10/25/23 17:47	75
Phenanthrene	**140**		140	41	ug/L		10/19/23 11:02	10/25/23 17:47	75
Phenol	**500**	**J**	750	370	ug/L		10/19/23 11:02	10/25/23 17:47	75
Pyrene	<41		140	41	ug/L		10/19/23 11:02	10/25/23 17:47	75
2,2'-oxybis[1-chloropropane]	<44		140	44	ug/L		10/19/23 11:02	10/25/23 17:47	75
4-Bromophenyl phenyl ether	<240		750	240	ug/L		10/19/23 11:02	10/25/23 17:47	75

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*0*	*D X*	*39 - 121*	*10/19/23 11:02*	*10/25/23 17:47*	*75*
2-Fluorobiphenyl	*0*	*D X*	*45 - 105*	*10/19/23 11:02*	*10/25/23 17:47*	*75*
2-Fluorophenol (Surr)	*0*	*D X*	*38 - 105*	*10/19/23 11:02*	*10/25/23 17:47*	*75*
Nitrobenzene-d5 (Surr)	*0*	*D X*	*45 - 106*	*10/19/23 11:02*	*10/25/23 17:47*	*75*
Phenol-d5 (Surr)	*0*	*D X*	*38 - 105*	*10/19/23 11:02*	*10/25/23 17:47*	*75*
Terphenyl-d14 (Surr)	*0*	*D X*	*28 - 125*	*10/19/23 11:02*	*10/25/23 17:47*	*75*

Method: SW846 EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - SPLP West

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.19		0.39	0.19	ug/L		10/13/23 00:15	10/16/23 07:01	1
PCB-1221	<0.22		0.39	0.22	ug/L		10/13/23 00:15	10/16/23 07:01	1
PCB-1232	<0.20		0.39	0.20	ug/L		10/13/23 00:15	10/16/23 07:01	1
PCB-1242	<0.14		0.39	0.14	ug/L		10/13/23 00:15	10/16/23 07:01	1
PCB-1248	<0.31		0.39	0.31	ug/L		10/13/23 00:15	10/16/23 07:01	1
PCB-1254	<0.18		0.39	0.18	ug/L		10/13/23 00:15	10/16/23 07:01	1
PCB-1260	<0.15		0.39	0.15	ug/L		10/13/23 00:15	10/16/23 07:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*102*		*57 - 134*	*10/13/23 00:15*	*10/16/23 07:01*	*1*
Tetrachloro-m-xylene (Surr)	*93*		*57 - 134*	*10/13/23 00:15*	*10/16/23 07:01*	*1*
DCB Decachlorobiphenyl (Surr)	*118*		*68 - 150*	*10/13/23 00:15*	*10/16/23 07:01*	*1*
DCB Decachlorobiphenyl (Surr)	*106*		*68 - 150*	*10/13/23 00:15*	*10/16/23 07:01*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM22 2540G)	**18.2**		0.1	0.1	%			10/09/23 14:21	1

Client Sample ID: 20231005001 — **Lab Sample ID: 180-163503-1**
Date Collected: 10/05/23 12:04 — **Matrix: Solid**
Date Received: 10/06/23 08:00 — **Percent Solids: 81.8**

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	**3100**		390	140	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1

Client: Tetra Tech, Inc.
Job ID: 180-163503-1
Project/Site: WI ISS Treatability Study REVISED

Client Sample ID: 20231005001
Lab Sample ID: 180-163503-1
Date Collected: 10/05/23 12:04
Matrix: Solid
Date Received: 10/06/23 08:00
Percent Solids: 81.8

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-oxybis[1-chloropropane]	<29		79	29	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
2,4,5-Trichlorophenol	<140		390	140	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
2,4,6-Trichlorophenol	<130		390	130	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
2,4-Dichlorophenol	<30		79	30	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
2,4-Dimethylphenol	**3900**		390	130	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
2,4-Dinitrophenol	<2400		3900	2400	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
2,4-Dinitrotoluene	<240		390	240	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
2,6-Dinitrotoluene	<150		390	150	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
2-Chloronaphthalene	<18		79	18	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
2-Chlorophenol	<150		390	150	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
2-Methylnaphthalene	**15000**		79	19	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
2-Methylphenol	**5400**		390	110	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
2-Nitroaniline	<180		2000	180	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
2-Nitrophenol	<150		390	150	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
3,3'-Dichlorobenzidine	<370		390	370	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
3-Nitroaniline	<100		2000	100	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
4,6-Dinitro-2-methylphenol	<680		2000	680	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
4-Bromophenyl phenyl ether	<170		390	170	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
4-Chloro-3-methylphenol	<140		390	140	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
4-Chloroaniline	<100		390	100	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
4-Chlorophenyl phenyl ether	<130		390	130	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Methylphenol, 3 & 4	**16000**	**E**	390	120	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
4-Nitroaniline	<150		2000	150	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
4-Nitrophenol	<280		2000	280	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Acenaphthene	**9900**		79	23	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Acenaphthylene	**410**		79	17	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Acetophenone	<140		790	140	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Anthracene	**7500**		79	20	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Atrazine	<170		790	170	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Benzaldehyde	<49		790	49	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Benzo[a]anthracene	**2300**		79	36	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Benzo[a]pyrene	**1400**		79	34	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Benzo[b]fluoranthene	**1600**		79	19	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Benzo[g,h,i]perylene	**540**		79	17	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Benzo[k]fluoranthene	**680**		79	24	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Bis(2-chloroethoxy)methane	<140	^c	390	140	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Bis(2-chloroethyl)ether	<14		79	14	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Bis(2-ethylhexyl) phthalate	<420		3900	420	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Butyl benzyl phthalate	<270		390	270	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Caprolactam	<260		2000	260	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Carbazole	**5000**		79	18	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Chrysene	**2900**		79	44	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Dibenz(a,h)anthracene	**170**		79	51	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Dibenzofuran	**9200**		390	150	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Diethyl phthalate	<140		390	140	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Dimethyl phthalate	<160		390	160	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Di-n-butyl phthalate	<170		390	170	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Di-n-octyl phthalate	<230		390	230	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Fluoranthene	**16000**	**E**	79	21	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1

Client Sample ID: 20231005001
Lab Sample ID: 180-163503-1
Date Collected: 10/05/23 12:04
Matrix: Solid
Date Received: 10/06/23 08:00
Percent Solids: 81.8

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	**9700**		79	15	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Hexachlorobenzene	<28		79	28	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Hexachlorobutadiene	<23		79	23	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Hexachlorocyclopentadiene	<40		390	40	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Hexachloroethane	<140		390	140	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Indeno[1,2,3-cd]pyrene	**450**		79	39	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Isophorone	<150		390	150	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Naphthalene	**79000**	**E**	79	15	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Nitrobenzene	<140		790	140	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
N-Nitrosodi-n-propylamine	<27		79	27	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
N-Nitrosodiphenylamine	<130		390	130	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Pentachlorophenol	<630		2000	630	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Phenanthrene	**41000**	**E**	79	21	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Phenol	**10000**		390	120	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1
Pyrene	**9800**		79	19	ug/Kg	☼	10/16/23 09:47	10/17/23 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*79*		*34 - 108*	*10/16/23 09:47*	*10/17/23 15:16*	*1*
2-Fluorobiphenyl	*82*		*44 - 105*	*10/16/23 09:47*	*10/17/23 15:16*	*1*
2-Fluorophenol (Surr)	*83*		*48 - 105*	*10/16/23 09:47*	*10/17/23 15:16*	*1*
Nitrobenzene-d5 (Surr)	*86*		*46 - 105*	*10/16/23 09:47*	*10/17/23 15:16*	*1*
Phenol-d5 (Surr)	*84*		*46 - 105*	*10/16/23 09:47*	*10/17/23 15:16*	*1*
Terphenyl-d14 (Surr)	*76*		*39 - 105*	*10/16/23 09:47*	*10/17/23 15:16*	*1*

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<5800		16000	5800	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
2,2'-oxybis[1-chloropropane]	<1200		3200	1200	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
2,4,5-Trichlorophenol	<5500		16000	5500	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
2,4,6-Trichlorophenol	<5300		16000	5300	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
2,4-Dichlorophenol	<1200		3200	1200	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
2,4-Dimethylphenol	<5300		16000	5300	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
2,4-Dinitrophenol	<98000		160000	98000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
2,4-Dinitrotoluene	<9400		16000	9400	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
2,6-Dinitrotoluene	<6200		16000	6200	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
2-Chloronaphthalene	<720		3200	720	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
2-Chlorophenol	<5800		16000	5800	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
2-Methylnaphthalene	**11000**		3200	760	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
2-Methylphenol	<4500		16000	4500	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
2-Nitroaniline	<7200		80000	7200	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
2-Nitrophenol	<5800		16000	5800	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
3,3'-Dichlorobenzidine	<15000		16000	15000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
3-Nitroaniline	<4000		80000	4000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
4,6-Dinitro-2-methylphenol	<27000		80000	27000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
4-Bromophenyl phenyl ether	<6700		16000	6700	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
4-Chloro-3-methylphenol	<5500		16000	5500	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
4-Chloroaniline	<4100		16000	4100	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
4-Chlorophenyl phenyl ether	<5300		16000	5300	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Methylphenol, 3 & 4	**10000**	**J**	16000	4600	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
4-Nitroaniline	<5900		80000	5900	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40

Client Sample ID: 20231005001
Lab Sample ID: 180-163503-1
Date Collected: 10/05/23 12:04
Matrix: Solid
Date Received: 10/06/23 08:00
Percent Solids: 81.8

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<11000		80000	11000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Acenaphthene	**7300**		3200	910	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Acenaphthylene	<690		3200	690	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Acetophenone	<5600		32000	5600	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Anthracene	**5200**		3200	820	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Atrazine	<6900		32000	6900	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Benzaldehyde	<2000		32000	2000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Benzo[a]anthracene	**1900**	**J**	3200	1400	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Benzo[a]pyrene	<1400		3200	1400	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Benzo[b]fluoranthene	**1200**	**J**	3200	780	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Benzo[g,h,i]perylene	<680		3200	680	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Benzo[k]fluoranthene	<950		3200	950	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Bis(2-chloroethoxy)methane	<5800		16000	5800	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Bis(2-chloroethyl)ether	<570		3200	570	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Bis(2-ethylhexyl) phthalate	<17000		160000	17000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Butyl benzyl phthalate	<11000		16000	11000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Caprolactam	<10000		80000	10000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Carbazole	**3400**		3200	740	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Chrysene	**2600**	**J**	3200	1800	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Dibenz(a,h)anthracene	<2000		3200	2000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Dibenzofuran	**7000**	**J**	16000	5800	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Diethyl phthalate	<5500		16000	5500	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Dimethyl phthalate	<6200		16000	6200	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Di-n-butyl phthalate	<6900		16000	6900	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Di-n-octyl phthalate	<9200		16000	9200	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Fluoranthene	**10000**		3200	830	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Fluorene	**6300**		3200	620	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Hexachlorobenzene	<1100		3200	1100	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Hexachlorobutadiene	<920		3200	920	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Hexachlorocyclopentadiene	<1600		16000	1600	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Hexachloroethane	<5600		16000	5600	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Indeno[1,2,3-cd]pyrene	<1600		3200	1600	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Isophorone	<5900		16000	5900	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Naphthalene	**84000**		3200	620	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Nitrobenzene	<5800		32000	5800	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
N-Nitrosodi-n-propylamine	<1100		3200	1100	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
N-Nitrosodiphenylamine	<5300		16000	5300	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Pentachlorophenol	<25000		80000	25000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Phenanthrene	**25000**		3200	850	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Phenol	**6300**	**J**	16000	4800	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40
Pyrene	**8500**		3200	750	ug/Kg	☼	10/16/23 09:47	10/18/23 15:31	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*0*	*X D*	*34 - 108*	*10/16/23 09:47*	*10/18/23 15:31*	*40*
2-Fluorobiphenyl	*0*	*X D*	*44 - 105*	*10/16/23 09:47*	*10/18/23 15:31*	*40*
2-Fluorophenol (Surr)	*0*	*X D*	*48 - 105*	*10/16/23 09:47*	*10/18/23 15:31*	*40*
Nitrobenzene-d5 (Surr)	*0*	*X D*	*46 - 105*	*10/16/23 09:47*	*10/18/23 15:31*	*40*
Phenol-d5 (Surr)	*0*	*X D*	*46 - 105*	*10/16/23 09:47*	*10/18/23 15:31*	*40*
Terphenyl-d14 (Surr)	*0*	*X D*	*39 - 105*	*10/16/23 09:47*	*10/18/23 15:31*	*40*

Client Sample ID: 20231005001
Lab Sample ID: 180-163503-1

Date Collected: 10/05/23 12:04
Matrix: Solid
Date Received: 10/06/23 08:00
Percent Solids: 81.8

Method: SW846 EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.5		20	6.5	ug/Kg	☼	10/09/23 14:24	10/11/23 02:31	1
PCB-1221	<7.1		20	7.1	ug/Kg	☼	10/09/23 14:24	10/11/23 02:31	1
PCB-1232	<4.9		20	4.9	ug/Kg	☼	10/09/23 14:24	10/11/23 02:31	1
PCB-1242	<2.9		20	2.9	ug/Kg	☼	10/09/23 14:24	10/11/23 02:31	1
PCB-1248	<4.8		20	4.8	ug/Kg	☼	10/09/23 14:24	10/11/23 02:31	1
PCB-1254	<6.0		20	6.0	ug/Kg	☼	10/09/23 14:24	10/11/23 02:31	1
PCB-1260	<5.7		20	5.7	ug/Kg	☼	10/09/23 14:24	10/11/23 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*83*		*55 - 135*	*10/09/23 14:24*	*10/11/23 02:31*	*1*
Tetrachloro-m-xylene (Surr)	*85*		*55 - 135*	*10/09/23 14:24*	*10/11/23 02:31*	*1*
DCB Decachlorobiphenyl (Surr)	*86*		*63 - 138*	*10/09/23 14:24*	*10/11/23 02:31*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*63 - 138*	*10/09/23 14:24*	*10/11/23 02:31*	*1*

Client Sample ID: 20231005002
Lab Sample ID: 180-163503-2

Date Collected: 10/05/23 12:31
Matrix: Solid
Date Received: 10/06/23 08:00

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.6		4.8	1.6	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
1,1,2,2-Tetrachloroethane	<1.5		4.8	1.5	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.9		4.8	1.9	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
1,1,2-Trichloroethane	<0.95		4.8	0.95	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
1,1-Dichloroethane	<1.5		4.8	1.5	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
1,1-Dichloroethene	<2.2		4.8	2.2	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
1,2-Dibromo-3-Chloropropane	<3.1	^c	4.8	3.1	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
1,2-Dichlorobenzene	<1.6		4.8	1.6	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
1,2-Dichloroethane	<1.4		4.8	1.4	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
1,2-Dichloropropane	<1.3		4.8	1.3	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
1,2,4-Trichlorobenzene	<2.4		4.8	2.4	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
1,3-Dichlorobenzene	<2.9		4.8	2.9	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
1,4-Dichlorobenzene	<1.4		4.8	1.4	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
2-Butanone (MEK)	<2.4		24	2.4	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
2-Hexanone	<1.5		24	1.5	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
4-Methyl-2-pentanone (MIBK)	<1.7		24	1.7	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
Acetone	<3.7		24	3.7	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
Benzene	<1.3		4.8	1.3	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
Bromoform	<2.4		4.8	2.4	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
Bromomethane	<2.2		4.8	2.2	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
Carbon disulfide	<3.8		4.8	3.8	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
Carbon tetrachloride	<1.9		4.8	1.9	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
Chlorobenzene	<1.2		4.8	1.2	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
Chlorodibromomethane	<2.4		4.8	2.4	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
Chloroform	<3.2		4.8	3.2	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
Chloromethane	<1.9		4.8	1.9	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
Chloroethane	<2.8		4.8	2.8	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
cis-1,2-Dichloroethene	<1.4		4.8	1.4	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
cis-1,3-Dichloropropene	<2.1		4.8	2.1	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
Dichlorobromomethane	<2.2		4.8	2.2	ug/Kg		10/10/23 08:04	10/10/23 17:06	1

Client: Tetra Tech, Inc.
Job ID: 180-163503-1
Project/Site: WI ISS Treatability Study REVISED

Client Sample ID: 20231005002
Lab Sample ID: 180-163503-2
Date Collected: 10/05/23 12:31
Matrix: Solid
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	<2.4		4.8	2.4	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
Ethylbenzene	<1.8		4.8	1.8	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
1,2-Dibromoethane	<1.3		4.8	1.3	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
Cyclohexane	<2.3		4.8	2.3	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
Isopropylbenzene	<2.5		4.8	2.5	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
Methyl acetate	<7.0		24	7.0	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
Methyl tert-butyl ether	<1.4		4.8	1.4	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
Methylcyclohexane	<2.3		4.8	2.3	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
Methylene Chloride	<4.3		4.8	4.3	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
Styrene	<1.4		4.8	1.4	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
Tetrachloroethene	<1.9		4.8	1.9	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
Toluene	<1.4		4.8	1.4	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
trans-1,2-Dichloroethene	<1.7		4.8	1.7	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
trans-1,3-Dichloropropene	<2.1		4.8	2.1	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
Trichloroethene	<1.5		4.8	1.5	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
Trichlorofluoromethane	<4.0		4.8	4.0	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
Vinyl chloride	<3.4		4.8	3.4	ug/Kg		10/10/23 08:04	10/10/23 17:06	1
Xylenes, Total	<6.9		9.6	6.9	ug/Kg		10/10/23 08:04	10/10/23 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 135*	*10/10/23 08:04*	*10/10/23 17:06*	*1*
4-Bromofluorobenzene (Surr)	*85*		*60 - 124*	*10/10/23 08:04*	*10/10/23 17:06*	*1*
Dibromofluoromethane (Surr)	*94*		*69 - 126*	*10/10/23 08:04*	*10/10/23 17:06*	*1*
Toluene-d8 (Surr)	*78*		*67 - 134*	*10/10/23 08:04*	*10/10/23 17:06*	*1*

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<3.0		5.0	3.0	ug/L			10/12/23 17:26	1
1,1,2,2-Tetrachloroethane	<3.0		5.0	3.0	ug/L			10/12/23 17:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<4.3		5.0	4.3	ug/L			10/12/23 17:26	1
1,1,2-Trichloroethane	<2.3		5.0	2.3	ug/L			10/12/23 17:26	1
1,1-Dichloroethane	<3.1		5.0	3.1	ug/L			10/12/23 17:26	1
1,1-Dichloroethene	<2.8		5.0	2.8	ug/L			10/12/23 17:26	1
1,2-Dibromo-3-Chloropropane	<4.4		5.0	4.4	ug/L			10/12/23 17:26	1
1,2-Dichlorobenzene	<1.8		5.0	1.8	ug/L			10/12/23 17:26	1
1,2-Dichloroethane	<2.9		5.0	2.9	ug/L			10/12/23 17:26	1
1,2-Dichloropropane	<3.3		5.0	3.3	ug/L			10/12/23 17:26	1
1,2,4-Trichlorobenzene	<3.9	^c	5.0	3.9	ug/L			10/12/23 17:26	1
1,3-Dichlorobenzene	<2.5		5.0	2.5	ug/L			10/12/23 17:26	1
1,4-Dichlorobenzene	<2.7		5.0	2.7	ug/L			10/12/23 17:26	1
2-Butanone (MEK)	<13		25	13	ug/L			10/12/23 17:26	1
2-Hexanone	<16		25	16	ug/L			10/12/23 17:26	1
4-Methyl-2-pentanone (MIBK)	<15	^c	25	15	ug/L			10/12/23 17:26	1
Acetone	<17	^c	25	17	ug/L			10/12/23 17:26	1
Benzene	<3.0		5.0	3.0	ug/L			10/12/23 17:26	1
Bromoform	<4.9		5.0	4.9	ug/L			10/12/23 17:26	1
Bromomethane	<4.4		5.0	4.4	ug/L			10/12/23 17:26	1
Carbon disulfide	<4.4		5.0	4.4	ug/L			10/12/23 17:26	1
Carbon tetrachloride	<4.4		5.0	4.4	ug/L			10/12/23 17:26	1
Chlorobenzene	<2.5		5.0	2.5	ug/L			10/12/23 17:26	1

Client: Tetra Tech, Inc.
Job ID: 180-163503-1
Project/Site: WI ISS Treatability Study REVISED

Client Sample ID: 20231005002
Lab Sample ID: 180-163503-2
Date Collected: 10/05/23 12:31
Matrix: Solid
Date Received: 10/06/23 08:00

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS - SPLP (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	<4.2		5.0	4.2	ug/L			10/12/23 17:26	1
Chloroform	<3.0		5.0	3.0	ug/L			10/12/23 17:26	1
Chloromethane	<4.5		5.0	4.5	ug/L			10/12/23 17:26	1
Chloroethane	<4.5		5.0	4.5	ug/L			10/12/23 17:26	1
cis-1,2-Dichloroethene	<3.5		5.0	3.5	ug/L			10/12/23 17:26	1
cis-1,3-Dichloropropene	<3.0		5.0	3.0	ug/L			10/12/23 17:26	1
Dichlorobromomethane	<3.2		5.0	3.2	ug/L			10/12/23 17:26	1
Dichlorodifluoromethane	<4.2		5.0	4.2	ug/L			10/12/23 17:26	1
Ethylbenzene	<2.5		5.0	2.5	ug/L			10/12/23 17:26	1
1,2-Dibromoethane	<2.5		5.0	2.5	ug/L			10/12/23 17:26	1
Cyclohexane	<3.2		5.0	3.2	ug/L			10/12/23 17:26	1
Isopropylbenzene	<1.7		5.0	1.7	ug/L			10/12/23 17:26	1
Methyl acetate	<8.4		25	8.4	ug/L			10/12/23 17:26	1
Methyl tert-butyl ether	<3.0		5.0	3.0	ug/L			10/12/23 17:26	1
Methylcyclohexane	<3.0		5.0	3.0	ug/L			10/12/23 17:26	1
Methylene Chloride	**20**		5.0	4.4	ug/L			10/12/23 17:26	1
Styrene	<2.4		5.0	2.4	ug/L			10/12/23 17:26	1
Tetrachloroethene	<2.3		5.0	2.3	ug/L			10/12/23 17:26	1
Toluene	<2.3		5.0	2.3	ug/L			10/12/23 17:26	1
trans-1,2-Dichloroethene	<3.4		5.0	3.4	ug/L			10/12/23 17:26	1
trans-1,3-Dichloropropene	<2.9		5.0	2.9	ug/L			10/12/23 17:26	1
Trichloroethene	<3.4		5.0	3.4	ug/L			10/12/23 17:26	1
Trichlorofluoromethane	<4.4	^c	5.0	4.4	ug/L			10/12/23 17:26	1
Vinyl chloride	<2.0	^c	5.0	2.0	ug/L			10/12/23 17:26	1
Xylenes, Total	<4.5		10	4.5	ug/L			10/12/23 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*71*		*52 - 151*		*10/12/23 17:26*	*1*
4-Bromofluorobenzene (Surr)	*67*		*49 - 118*		*10/12/23 17:26*	*1*
Dibromofluoromethane (Surr)	*77*		*60 - 132*		*10/12/23 17:26*	*1*
Toluene-d8 (Surr)	*73*		*53 - 124*		*10/12/23 17:26*	*1*

Method: SW846 EPA 8270E - Semivolatile Organic Compounds (GC/MS) - SPLP West

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	**11**		10	1.4	ug/L		10/19/23 11:02	10/24/23 15:56	1
2,4,5-Trichlorophenol	<2.5		10	2.5	ug/L		10/19/23 11:02	10/24/23 15:56	1
2,4,6-Trichlorophenol	<2.2		10	2.2	ug/L		10/19/23 11:02	10/24/23 15:56	1
2,4-Dichlorophenol	<0.51		1.9	0.51	ug/L		10/19/23 11:02	10/24/23 15:56	1
2,4-Dimethylphenol	<1.7		10	1.7	ug/L		10/19/23 11:02	10/24/23 15:56	1
2,4-Dinitrophenol	<15		100	15	ug/L		10/19/23 11:02	10/24/23 15:56	1
2,4-Dinitrotoluene	<3.5		10	3.5	ug/L		10/19/23 11:02	10/24/23 15:56	1
2,6-Dinitrotoluene	<1.7		10	1.7	ug/L		10/19/23 11:02	10/24/23 15:56	1
2-Chloronaphthalene	<0.59		1.9	0.59	ug/L		10/19/23 11:02	10/24/23 15:56	1
2-Chlorophenol	<1.3		10	1.3	ug/L		10/19/23 11:02	10/24/23 15:56	1
2-Methylnaphthalene	**3.3**		1.9	0.62	ug/L		10/19/23 11:02	10/24/23 15:56	1
2-Methylphenol	<3.0		10	3.0	ug/L		10/19/23 11:02	10/24/23 15:56	1
2-Nitroaniline	<5.5		50	5.5	ug/L		10/19/23 11:02	10/24/23 15:56	1
2-Nitrophenol	<1.9		10	1.9	ug/L		10/19/23 11:02	10/24/23 15:56	1
3,3'-Dichlorobenzidine	<5.8		10	5.8	ug/L		10/19/23 11:02	10/24/23 15:56	1
3-Nitroaniline	<4.4		50	4.4	ug/L		10/19/23 11:02	10/24/23 15:56	1

Client Sample ID: 20231005002
Lab Sample ID: 180-163503-2
Date Collected: 10/05/23 12:31
Matrix: Solid
Date Received: 10/06/23 08:00

Method: SW846 EPA 8270E - Semivolatile Organic Compounds (GC/MS) - SPLP West (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	<2.2		10	2.2	ug/L		10/19/23 11:02	10/24/23 15:56	1
4,6-Dinitro-2-methylphenol	<15		50	15	ug/L		10/19/23 11:02	10/24/23 15:56	1
4-Chloro-3-methylphenol	<2.8		10	2.8	ug/L		10/19/23 11:02	10/24/23 15:56	1
4-Chloroaniline	<3.8		10	3.8	ug/L		10/19/23 11:02	10/24/23 15:56	1
Methylphenol, 3 & 4	<3.7		10	3.7	ug/L		10/19/23 11:02	10/24/23 15:56	1
4-Nitroaniline	<3.6		50	3.6	ug/L		10/19/23 11:02	10/24/23 15:56	1
4-Nitrophenol	<9.4		50	9.4	ug/L		10/19/23 11:02	10/24/23 15:56	1
Acenaphthene	**180**		1.9	0.65	ug/L		10/19/23 11:02	10/24/23 15:56	1
Acenaphthylene	**1.1**	**J**	1.9	0.65	ug/L		10/19/23 11:02	10/24/23 15:56	1
Acetophenone	<1.6		10	1.6	ug/L		10/19/23 11:02	10/24/23 15:56	1
Anthracene	**10**		1.9	0.49	ug/L		10/19/23 11:02	10/24/23 15:56	1
Atrazine	<6.3		10	6.3	ug/L		10/19/23 11:02	10/24/23 15:56	1
Benzaldehyde	<5.4		10	5.4	ug/L		10/19/23 11:02	10/24/23 15:56	1
Benzo[a]anthracene	<0.75		1.9	0.75	ug/L		10/19/23 11:02	10/24/23 15:56	1
Benzo[a]pyrene	<0.53		1.9	0.53	ug/L		10/19/23 11:02	10/24/23 15:56	1
Benzo[b]fluoranthene	<0.97		1.9	0.97	ug/L		10/19/23 11:02	10/24/23 15:56	1
Benzo[g,h,i]perylene	<0.69		1.9	0.69	ug/L		10/19/23 11:02	10/24/23 15:56	1
Benzo[k]fluoranthene	<0.88		1.9	0.88	ug/L		10/19/23 11:02	10/24/23 15:56	1
Bis(2-chloroethoxy)methane	<1.5		10	1.5	ug/L		10/19/23 11:02	10/24/23 15:56	1
Bis(2-chloroethyl)ether	<0.40		1.9	0.40	ug/L		10/19/23 11:02	10/24/23 15:56	1
Bis(2-ethylhexyl) phthalate	<62		100	62	ug/L		10/19/23 11:02	10/24/23 15:56	1
Butyl benzyl phthalate	<4.6		10	4.6	ug/L		10/19/23 11:02	10/24/23 15:56	1
Caprolactam	<4.7		50	4.7	ug/L		10/19/23 11:02	10/24/23 15:56	1
Carbazole	**12**		1.9	0.51	ug/L		10/19/23 11:02	10/24/23 15:56	1
Chrysene	<0.81		1.9	0.81	ug/L		10/19/23 11:02	10/24/23 15:56	1
Dibenz(a,h)anthracene	<0.72		1.9	0.72	ug/L		10/19/23 11:02	10/24/23 15:56	1
Dibenzofuran	**71**		10	1.9	ug/L		10/19/23 11:02	10/24/23 15:56	1
Diethyl phthalate	<5.7		10	5.7	ug/L		10/19/23 11:02	10/24/23 15:56	1
Dimethyl phthalate	<2.0		10	2.0	ug/L		10/19/23 11:02	10/24/23 15:56	1
Di-n-butyl phthalate	<7.4		10	7.4	ug/L		10/19/23 11:02	10/24/23 15:56	1
Di-n-octyl phthalate	<6.9		10	6.9	ug/L		10/19/23 11:02	10/24/23 15:56	1
Fluoranthene	**23**		1.9	0.60	ug/L		10/19/23 11:02	10/24/23 15:56	1
Fluorene	**96**		1.9	0.69	ug/L		10/19/23 11:02	10/24/23 15:56	1
Hexachlorobenzene	<0.56		1.9	0.56	ug/L		10/19/23 11:02	10/24/23 15:56	1
Hexachlorobutadiene	<0.69		1.9	0.69	ug/L		10/19/23 11:02	10/24/23 15:56	1
Hexachlorocyclopentadiene	<5.0		10	5.0	ug/L		10/19/23 11:02	10/24/23 15:56	1
Hexachloroethane	<1.3		10	1.3	ug/L		10/19/23 11:02	10/24/23 15:56	1
Indeno[1,2,3-cd]pyrene	<0.85		1.9	0.85	ug/L		10/19/23 11:02	10/24/23 15:56	1
Isophorone	<1.9		10	1.9	ug/L		10/19/23 11:02	10/24/23 15:56	1
Naphthalene	**47**		1.9	0.59	ug/L		10/19/23 11:02	10/24/23 15:56	1
Nitrobenzene	<5.0		20	5.0	ug/L		10/19/23 11:02	10/24/23 15:56	1
N-Nitrosodi-n-propylamine	<0.71		1.9	0.71	ug/L		10/19/23 11:02	10/24/23 15:56	1
N-Nitrosodiphenylamine	<1.2		10	1.2	ug/L		10/19/23 11:02	10/24/23 15:56	1
Pentachlorophenol	<8.5		50	8.5	ug/L		10/19/23 11:02	10/24/23 15:56	1
Phenanthrene	**140**		1.9	0.55	ug/L		10/19/23 11:02	10/24/23 15:56	1
Phenol	<4.9		10	4.9	ug/L		10/19/23 11:02	10/24/23 15:56	1
Pyrene	**12**		1.9	0.54	ug/L		10/19/23 11:02	10/24/23 15:56	1
2,2'-oxybis[1-chloropropane]	<0.58		1.9	0.58	ug/L		10/19/23 11:02	10/24/23 15:56	1
4-Bromophenyl phenyl ether	<3.2		10	3.2	ug/L		10/19/23 11:02	10/24/23 15:56	1

Client Sample ID: 20231005002 — Lab Sample ID: 180-163503-2

Date Collected: 10/05/23 12:31 — **Matrix: Solid**
Date Received: 10/06/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*74*		*39 - 121*	*10/19/23 11:02*	*10/24/23 15:56*	*1*
2-Fluorobiphenyl	*75*		*45 - 105*	*10/19/23 11:02*	*10/24/23 15:56*	*1*
2-Fluorophenol (Surr)	*73*		*38 - 105*	*10/19/23 11:02*	*10/24/23 15:56*	*1*
Nitrobenzene-d5 (Surr)	*81*		*45 - 106*	*10/19/23 11:02*	*10/24/23 15:56*	*1*
Phenol-d5 (Surr)	*80*		*38 - 105*	*10/19/23 11:02*	*10/24/23 15:56*	*1*
Terphenyl-d14 (Surr)	*63*		*28 - 125*	*10/19/23 11:02*	*10/24/23 15:56*	*1*

Method: SW846 EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - SPLP West

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.19		0.39	0.19	ug/L		10/13/23 00:15	10/16/23 07:19	1
PCB-1221	<0.22		0.39	0.22	ug/L		10/13/23 00:15	10/16/23 07:19	1
PCB-1232	<0.20		0.39	0.20	ug/L		10/13/23 00:15	10/16/23 07:19	1
PCB-1242	<0.14		0.39	0.14	ug/L		10/13/23 00:15	10/16/23 07:19	1
PCB-1248	<0.31		0.39	0.31	ug/L		10/13/23 00:15	10/16/23 07:19	1
PCB-1254	<0.18		0.39	0.18	ug/L		10/13/23 00:15	10/16/23 07:19	1
PCB-1260	<0.15		0.39	0.15	ug/L		10/13/23 00:15	10/16/23 07:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	*100*		*57 - 134*	*10/13/23 00:15*	*10/16/23 07:19*	*1*
Tetrachloro-m-xylene (Surr)	*93*		*57 - 134*	*10/13/23 00:15*	*10/16/23 07:19*	*1*
DCB Decachlorobiphenyl (Surr)	*119*		*68 - 150*	*10/13/23 00:15*	*10/16/23 07:19*	*1*
DCB Decachlorobiphenyl (Surr)	*109*		*68 - 150*	*10/13/23 00:15*	*10/16/23 07:19*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM22 2540G)	**22.8**		0.1	0.1	%			10/09/23 14:21	1

Client Sample ID: 20231005002 — Lab Sample ID: 180-163503-2

Date Collected: 10/05/23 12:31 — **Matrix: Solid**
Date Received: 10/06/23 08:00 — **Percent Solids: 77.2**

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<150		420	150	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
2,2'-oxybis[1-chloropropane]	<31		85	31	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
2,4,5-Trichlorophenol	<150		420	150	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
2,4,6-Trichlorophenol	<140		420	140	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
2,4-Dichlorophenol	<32		85	32	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
2,4-Dimethylphenol	<140		420	140	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
2,4-Dinitrophenol	<2600		4200	2600	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
2,4-Dinitrotoluene	<250		420	250	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
2,6-Dinitrotoluene	<160		420	160	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
2-Chloronaphthalene	<19		85	19	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
2-Chlorophenol	<160		420	160	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
2-Methylnaphthalene	<20		85	20	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
2-Methylphenol	<120		420	120	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
2-Nitroaniline	<190		2100	190	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
2-Nitrophenol	<160		420	160	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
3,3'-Dichlorobenzidine	<390		420	390	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
3-Nitroaniline	<110		2100	110	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
4,6-Dinitro-2-methylphenol	<730		2100	730	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1

Client Sample ID: 20231005002
Lab Sample ID: 180-163503-2
Date Collected: 10/05/23 12:31
Matrix: Solid
Date Received: 10/06/23 08:00
Percent Solids: 77.2

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<180		420	180	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
4-Chloro-3-methylphenol	<150		420	150	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
4-Chloroaniline	<110		420	110	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
4-Chlorophenyl phenyl ether	<140		420	140	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Methylphenol, 3 & 4	<120		420	120	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
4-Nitroaniline	<160		2100	160	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
4-Nitrophenol	<300		2100	300	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Acenaphthene	**610**		85	24	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Acenaphthylene	<18		85	18	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Acetophenone	<150		850	150	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Anthracene	**280**		85	22	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Atrazine	<180		850	180	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Benzaldehyde	<52		850	52	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Benzo[a]anthracene	**380**		85	38	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Benzo[a]pyrene	**160**		85	36	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Benzo[b]fluoranthene	**210**		85	21	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Benzo[g,h,i]perylene	<18		85	18	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Benzo[k]fluoranthene	**92**		85	25	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Bis(2-chloroethoxy)methane	<150	^c	420	150	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Bis(2-chloroethyl)ether	<15		85	15	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Bis(2-ethylhexyl) phthalate	<450		4200	450	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Butyl benzyl phthalate	<290		420	290	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Caprolactam	<270		2100	270	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Carbazole	**50**	**J**	85	20	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Chrysene	**310**		85	47	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Dibenz(a,h)anthracene	<54		85	54	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Dibenzofuran	**320**	**J**	420	160	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Diethyl phthalate	<150		420	150	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Dimethyl phthalate	<170		420	170	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Di-n-butyl phthalate	<180		420	180	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Di-n-octyl phthalate	<240		420	240	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Fluoranthene	**2500**		85	22	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Fluorene	**540**		85	17	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Hexachlorobenzene	<30		85	30	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Hexachlorobutadiene	<25		85	25	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Hexachlorocyclopentadiene	<43		420	43	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Hexachloroethane	<150		420	150	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Indeno[1,2,3-cd]pyrene	<42		85	42	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Isophorone	<160		420	160	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Naphthalene	**83**	**J**	85	16	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Nitrobenzene	<150		850	150	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
N-Nitrosodi-n-propylamine	<29		85	29	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
N-Nitrosodiphenylamine	<140		420	140	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Pentachlorophenol	<680		2100	680	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Phenanthrene	**2500**		85	23	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Phenol	<130		420	130	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1
Pyrene	**1400**		85	20	ug/Kg	☼	10/16/23 09:47	10/17/23 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*81*		*34 - 108*	*10/16/23 09:47*	*10/17/23 15:37*	*1*

Client Sample ID: 20231005002
Lab Sample ID: 180-163503-2

Date Collected: 10/05/23 12:31
Matrix: Solid
Date Received: 10/06/23 08:00
Percent Solids: 77.2

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*44 - 105*	*10/16/23 09:47*	*10/17/23 15:37*	*1*
2-Fluorophenol (Surr)	*73*		*48 - 105*	*10/16/23 09:47*	*10/17/23 15:37*	*1*
Nitrobenzene-d5 (Surr)	*89*		*46 - 105*	*10/16/23 09:47*	*10/17/23 15:37*	*1*
Phenol-d5 (Surr)	*74*		*46 - 105*	*10/16/23 09:47*	*10/17/23 15:37*	*1*
Terphenyl-d14 (Surr)	*80*		*39 - 105*	*10/16/23 09:47*	*10/17/23 15:37*	*1*

Method: SW846 EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.0		21	7.0	ug/Kg	☼	10/09/23 14:24	10/11/23 02:48	1
PCB-1221	<7.6		21	7.6	ug/Kg	☼	10/09/23 14:24	10/11/23 02:48	1
PCB-1232	<5.2		21	5.2	ug/Kg	☼	10/09/23 14:24	10/11/23 02:48	1
PCB-1242	<3.1		21	3.1	ug/Kg	☼	10/09/23 14:24	10/11/23 02:48	1
PCB-1248	<5.2		21	5.2	ug/Kg	☼	10/09/23 14:24	10/11/23 02:48	1
PCB-1254	<6.4		21	6.4	ug/Kg	☼	10/09/23 14:24	10/11/23 02:48	1
PCB-1260	<6.1		21	6.1	ug/Kg	☼	10/09/23 14:24	10/11/23 02:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*88*		*55 - 135*	*10/09/23 14:24*	*10/11/23 02:48*	*1*
Tetrachloro-m-xylene (Surr)	*88*		*55 - 135*	*10/09/23 14:24*	*10/11/23 02:48*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*63 - 138*	*10/09/23 14:24*	*10/11/23 02:48*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*63 - 138*	*10/09/23 14:24*	*10/11/23 02:48*	*1*

Client Sample ID: 20231005003
Lab Sample ID: 180-163503-3

Date Collected: 10/05/23 12:55
Matrix: Solid
Date Received: 10/06/23 08:00

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.7		5.0	1.7	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
1,1,2,2-Tetrachloroethane	<1.5		5.0	1.5	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<2.0	^c	5.0	2.0	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
1,1,2-Trichloroethane	<0.99		5.0	0.99	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
1,1-Dichloroethane	<1.6		5.0	1.6	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
1,1-Dichloroethene	<2.3		5.0	2.3	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
1,2-Dibromo-3-Chloropropane	<3.2		5.0	3.2	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
1,2-Dichlorobenzene	<1.7		5.0	1.7	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
1,2-Dichloroethane	<1.4		5.0	1.4	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
1,2-Dichloropropane	<1.3		5.0	1.3	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
1,3-Dichlorobenzene	<3.1		5.0	3.1	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
1,4-Dichlorobenzene	<1.5		5.0	1.5	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
2-Butanone (MEK)	<2.5	^c	25	2.5	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
2-Hexanone	<1.6		25	1.6	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
4-Methyl-2-pentanone (MIBK)	<1.8		25	1.8	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
Acetone	<3.9		25	3.9	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
Benzene	<1.4		5.0	1.4	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
Bromoform	<2.5		5.0	2.5	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
Bromomethane	<2.3		5.0	2.3	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
Carbon disulfide	<4.0		5.0	4.0	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
Carbon tetrachloride	<2.0		5.0	2.0	ug/Kg		10/12/23 07:23	10/12/23 15:53	1

Client Sample ID: 20231005003
Lab Sample ID: 180-163503-3
Date Collected: 10/05/23 12:55
Matrix: Solid
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.3		5.0	1.3	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
Chlorodibromomethane	<2.5		5.0	2.5	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
Chloroform	<3.3		5.0	3.3	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
Chloromethane	<2.0		5.0	2.0	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
Chloroethane	<2.9		5.0	2.9	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
cis-1,2-Dichloroethene	<1.5		5.0	1.5	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
cis-1,3-Dichloropropene	<2.2		5.0	2.2	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
Dichlorobromomethane	<2.3		5.0	2.3	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
Dichlorodifluoromethane	<2.5		5.0	2.5	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
Ethylbenzene	**7.9**		5.0	1.8	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
1,2-Dibromoethane	<1.4		5.0	1.4	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
Cyclohexane	<2.4		5.0	2.4	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
Isopropylbenzene	<2.6		5.0	2.6	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
Methyl acetate	<7.4	^c	25	7.4	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
Methyl tert-butyl ether	<1.5		5.0	1.5	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
Methylcyclohexane	<2.4		5.0	2.4	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
Methylene Chloride	<4.5		5.0	4.5	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
Styrene	<1.5		5.0	1.5	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
Tetrachloroethene	<2.0		5.0	2.0	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
Toluene	<1.4		5.0	1.4	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
trans-1,2-Dichloroethene	<1.7		5.0	1.7	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
trans-1,3-Dichloropropene	<2.2		5.0	2.2	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
Trichloroethene	<1.6		5.0	1.6	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
Trichlorofluoromethane	<4.1		5.0	4.1	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
Vinyl chloride	<3.6		5.0	3.6	ug/Kg		10/12/23 07:23	10/12/23 15:53	1
Xylenes, Total	**30**		10	7.2	ug/Kg		10/12/23 07:23	10/12/23 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*73 - 135*	*10/12/23 07:23*	*10/12/23 15:53*	*1*
4-Bromofluorobenzene (Surr)	*79*		*60 - 124*	*10/12/23 07:23*	*10/12/23 15:53*	*1*
Dibromofluoromethane (Surr)	*88*	*^c*	*69 - 126*	*10/12/23 07:23*	*10/12/23 15:53*	*1*
Toluene-d8 (Surr)	*77*		*67 - 134*	*10/12/23 07:23*	*10/12/23 15:53*	*1*

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<3.0		5.0	3.0	ug/L			10/12/23 17:47	1
1,1,2,2-Tetrachloroethane	<3.0		5.0	3.0	ug/L			10/12/23 17:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<4.3		5.0	4.3	ug/L			10/12/23 17:47	1
1,1,2-Trichloroethane	<2.3		5.0	2.3	ug/L			10/12/23 17:47	1
1,1-Dichloroethane	<3.1		5.0	3.1	ug/L			10/12/23 17:47	1
1,1-Dichloroethene	<2.8		5.0	2.8	ug/L			10/12/23 17:47	1
1,2-Dibromo-3-Chloropropane	<4.4		5.0	4.4	ug/L			10/12/23 17:47	1
1,2-Dichlorobenzene	<1.8		5.0	1.8	ug/L			10/12/23 17:47	1
1,2-Dichloroethane	<2.9		5.0	2.9	ug/L			10/12/23 17:47	1
1,2-Dichloropropane	<3.3		5.0	3.3	ug/L			10/12/23 17:47	1
1,2,4-Trichlorobenzene	<3.9	^c	5.0	3.9	ug/L			10/12/23 17:47	1
1,3-Dichlorobenzene	<2.5		5.0	2.5	ug/L			10/12/23 17:47	1
1,4-Dichlorobenzene	<2.7		5.0	2.7	ug/L			10/12/23 17:47	1
2-Butanone (MEK)	<13		25	13	ug/L			10/12/23 17:47	1
2-Hexanone	<16		25	16	ug/L			10/12/23 17:47	1

Client Sample ID: 20231005003
Lab Sample ID: 180-163503-3
Date Collected: 10/05/23 12:55
Matrix: Solid
Date Received: 10/06/23 08:00

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS - SPLP (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	<15	^c	25	15	ug/L			10/12/23 17:47	1
Acetone	<17	^c	25	17	ug/L			10/12/23 17:47	1
Benzene	<3.0		5.0	3.0	ug/L			10/12/23 17:47	1
Bromoform	<4.9		5.0	4.9	ug/L			10/12/23 17:47	1
Bromomethane	<4.4		5.0	4.4	ug/L			10/12/23 17:47	1
Carbon disulfide	<4.4		5.0	4.4	ug/L			10/12/23 17:47	1
Carbon tetrachloride	<4.4		5.0	4.4	ug/L			10/12/23 17:47	1
Chlorobenzene	<2.5		5.0	2.5	ug/L			10/12/23 17:47	1
Chlorodibromomethane	<4.2		5.0	4.2	ug/L			10/12/23 17:47	1
Chloroform	<3.0		5.0	3.0	ug/L			10/12/23 17:47	1
Chloromethane	<4.5		5.0	4.5	ug/L			10/12/23 17:47	1
Chloroethane	<4.5		5.0	4.5	ug/L			10/12/23 17:47	1
cis-1,2-Dichloroethene	<3.5		5.0	3.5	ug/L			10/12/23 17:47	1
cis-1,3-Dichloropropene	<3.0		5.0	3.0	ug/L			10/12/23 17:47	1
Dichlorobromomethane	<3.2		5.0	3.2	ug/L			10/12/23 17:47	1
Dichlorodifluoromethane	<4.2		5.0	4.2	ug/L			10/12/23 17:47	1
Ethylbenzene	<2.5		5.0	2.5	ug/L			10/12/23 17:47	1
1,2-Dibromoethane	<2.5		5.0	2.5	ug/L			10/12/23 17:47	1
Cyclohexane	<3.2		5.0	3.2	ug/L			10/12/23 17:47	1
Isopropylbenzene	<1.7		5.0	1.7	ug/L			10/12/23 17:47	1
Methyl acetate	<8.4		25	8.4	ug/L			10/12/23 17:47	1
Methyl tert-butyl ether	<3.0		5.0	3.0	ug/L			10/12/23 17:47	1
Methylcyclohexane	<3.0		5.0	3.0	ug/L			10/12/23 17:47	1
Methylene Chloride	**13**		5.0	4.4	ug/L			10/12/23 17:47	1
Styrene	<2.4		5.0	2.4	ug/L			10/12/23 17:47	1
Tetrachloroethene	<2.3		5.0	2.3	ug/L			10/12/23 17:47	1
Toluene	<2.3		5.0	2.3	ug/L			10/12/23 17:47	1
trans-1,2-Dichloroethene	<3.4		5.0	3.4	ug/L			10/12/23 17:47	1
trans-1,3-Dichloropropene	<2.9		5.0	2.9	ug/L			10/12/23 17:47	1
Trichloroethene	<3.4		5.0	3.4	ug/L			10/12/23 17:47	1
Trichlorofluoromethane	<4.4	^c	5.0	4.4	ug/L			10/12/23 17:47	1
Vinyl chloride	<2.0	^c	5.0	2.0	ug/L			10/12/23 17:47	1
Xylenes, Total	**9.4**	**J**	10	4.5	ug/L			10/12/23 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*72*		*52 - 151*		*10/12/23 17:47*	*1*
4-Bromofluorobenzene (Surr)	*67*		*49 - 118*		*10/12/23 17:47*	*1*
Dibromofluoromethane (Surr)	*77*		*60 - 132*		*10/12/23 17:47*	*1*
Toluene-d8 (Surr)	*71*		*53 - 124*		*10/12/23 17:47*	*1*

Method: SW846 EPA 8270E - Semivolatile Organic Compounds (GC/MS) - SPLP West

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	**58**		10	1.4	ug/L		10/19/23 11:02	10/24/23 16:17	1
2,4,5-Trichlorophenol	<2.5		10	2.5	ug/L		10/19/23 11:02	10/24/23 16:17	1
2,4,6-Trichlorophenol	<2.2		10	2.2	ug/L		10/19/23 11:02	10/24/23 16:17	1
2,4-Dichlorophenol	<0.51		1.9	0.51	ug/L		10/19/23 11:02	10/24/23 16:17	1
2,4-Dimethylphenol	<1.7		10	1.7	ug/L		10/19/23 11:02	10/24/23 16:17	1
2,4-Dinitrophenol	<15		100	15	ug/L		10/19/23 11:02	10/24/23 16:17	1
2,4-Dinitrotoluene	<3.5		10	3.5	ug/L		10/19/23 11:02	10/24/23 16:17	1
2,6-Dinitrotoluene	<1.7		10	1.7	ug/L		10/19/23 11:02	10/24/23 16:17	1

Client: Tetra Tech, Inc.
Job ID: 180-163503-1
Project/Site: WI ISS Treatability Study REVISED

Client Sample ID: 20231005003
Lab Sample ID: 180-163503-3
Date Collected: 10/05/23 12:55
Matrix: Solid
Date Received: 10/06/23 08:00

Method: SW846 EPA 8270E - Semivolatile Organic Compounds (GC/MS) - SPLP West (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	<0.59		1.9	0.59	ug/L		10/19/23 11:02	10/24/23 16:17	1
2-Chlorophenol	<1.3		10	1.3	ug/L		10/19/23 11:02	10/24/23 16:17	1
2-Methylnaphthalene	**260**		1.9	0.62	ug/L		10/19/23 11:02	10/24/23 16:17	1
2-Methylphenol	<3.0		10	3.0	ug/L		10/19/23 11:02	10/24/23 16:17	1
2-Nitroaniline	<5.5		50	5.5	ug/L		10/19/23 11:02	10/24/23 16:17	1
2-Nitrophenol	<1.9		10	1.9	ug/L		10/19/23 11:02	10/24/23 16:17	1
3,3'-Dichlorobenzidine	<5.8		10	5.8	ug/L		10/19/23 11:02	10/24/23 16:17	1
3-Nitroaniline	<4.4		50	4.4	ug/L		10/19/23 11:02	10/24/23 16:17	1
4-Chlorophenyl phenyl ether	<2.2		10	2.2	ug/L		10/19/23 11:02	10/24/23 16:17	1
4,6-Dinitro-2-methylphenol	<15		50	15	ug/L		10/19/23 11:02	10/24/23 16:17	1
4-Chloro-3-methylphenol	<2.8		10	2.8	ug/L		10/19/23 11:02	10/24/23 16:17	1
4-Chloroaniline	<3.8		10	3.8	ug/L		10/19/23 11:02	10/24/23 16:17	1
Methylphenol, 3 & 4	<3.7		10	3.7	ug/L		10/19/23 11:02	10/24/23 16:17	1
4-Nitroaniline	<3.6		50	3.6	ug/L		10/19/23 11:02	10/24/23 16:17	1
4-Nitrophenol	<9.4		50	9.4	ug/L		10/19/23 11:02	10/24/23 16:17	1
Acenaphthene	**150**		1.9	0.65	ug/L		10/19/23 11:02	10/24/23 16:17	1
Acenaphthylene	**16**		1.9	0.65	ug/L		10/19/23 11:02	10/24/23 16:17	1
Acetophenone	<1.6		10	1.6	ug/L		10/19/23 11:02	10/24/23 16:17	1
Anthracene	**15**		1.9	0.49	ug/L		10/19/23 11:02	10/24/23 16:17	1
Atrazine	<6.3		10	6.3	ug/L		10/19/23 11:02	10/24/23 16:17	1
Benzaldehyde	<5.4		10	5.4	ug/L		10/19/23 11:02	10/24/23 16:17	1
Benzo[a]anthracene	<0.75		1.9	0.75	ug/L		10/19/23 11:02	10/24/23 16:17	1
Benzo[a]pyrene	<0.53		1.9	0.53	ug/L		10/19/23 11:02	10/24/23 16:17	1
Benzo[b]fluoranthene	<0.97		1.9	0.97	ug/L		10/19/23 11:02	10/24/23 16:17	1
Benzo[g,h,i]perylene	<0.69		1.9	0.69	ug/L		10/19/23 11:02	10/24/23 16:17	1
Benzo[k]fluoranthene	<0.88		1.9	0.88	ug/L		10/19/23 11:02	10/24/23 16:17	1
Bis(2-chloroethoxy)methane	<1.5		10	1.5	ug/L		10/19/23 11:02	10/24/23 16:17	1
Bis(2-chloroethyl)ether	<0.40		1.9	0.40	ug/L		10/19/23 11:02	10/24/23 16:17	1
Bis(2-ethylhexyl) phthalate	<62		100	62	ug/L		10/19/23 11:02	10/24/23 16:17	1
Butyl benzyl phthalate	<4.6		10	4.6	ug/L		10/19/23 11:02	10/24/23 16:17	1
Caprolactam	<4.7		50	4.7	ug/L		10/19/23 11:02	10/24/23 16:17	1
Carbazole	**110**		1.9	0.51	ug/L		10/19/23 11:02	10/24/23 16:17	1
Chrysene	<0.81		1.9	0.81	ug/L		10/19/23 11:02	10/24/23 16:17	1
Dibenz(a,h)anthracene	<0.72		1.9	0.72	ug/L		10/19/23 11:02	10/24/23 16:17	1
Dibenzofuran	**96**		10	1.9	ug/L		10/19/23 11:02	10/24/23 16:17	1
Diethyl phthalate	<5.7		10	5.7	ug/L		10/19/23 11:02	10/24/23 16:17	1
Dimethyl phthalate	<2.0		10	2.0	ug/L		10/19/23 11:02	10/24/23 16:17	1
Di-n-butyl phthalate	<7.4		10	7.4	ug/L		10/19/23 11:02	10/24/23 16:17	1
Di-n-octyl phthalate	<6.9		10	6.9	ug/L		10/19/23 11:02	10/24/23 16:17	1
Fluoranthene	**13**		1.9	0.60	ug/L		10/19/23 11:02	10/24/23 16:17	1
Fluorene	**100**		1.9	0.69	ug/L		10/19/23 11:02	10/24/23 16:17	1
Hexachlorobenzene	<0.56		1.9	0.56	ug/L		10/19/23 11:02	10/24/23 16:17	1
Hexachlorobutadiene	<0.69		1.9	0.69	ug/L		10/19/23 11:02	10/24/23 16:17	1
Hexachlorocyclopentadiene	<5.0		10	5.0	ug/L		10/19/23 11:02	10/24/23 16:17	1
Hexachloroethane	<1.3		10	1.3	ug/L		10/19/23 11:02	10/24/23 16:17	1
Indeno[1,2,3-cd]pyrene	<0.85		1.9	0.85	ug/L		10/19/23 11:02	10/24/23 16:17	1
Isophorone	<1.9		10	1.9	ug/L		10/19/23 11:02	10/24/23 16:17	1
Naphthalene	**1200**	**E**	1.9	0.59	ug/L		10/19/23 11:02	10/24/23 16:17	1
Nitrobenzene	<5.0		20	5.0	ug/L		10/19/23 11:02	10/24/23 16:17	1

Client Sample ID: 20231005003
Lab Sample ID: 180-163503-3
Date Collected: 10/05/23 12:55
Matrix: Solid
Date Received: 10/06/23 08:00

Method: SW846 EPA 8270E - Semivolatile Organic Compounds (GC/MS) - SPLP West (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.71		1.9	0.71	ug/L		10/19/23 11:02	10/24/23 16:17	1
N-Nitrosodiphenylamine	<1.2		10	1.2	ug/L		10/19/23 11:02	10/24/23 16:17	1
Pentachlorophenol	<8.5		50	8.5	ug/L		10/19/23 11:02	10/24/23 16:17	1
Phenanthrene	**100**		1.9	0.55	ug/L		10/19/23 11:02	10/24/23 16:17	1
Phenol	<4.9		10	4.9	ug/L		10/19/23 11:02	10/24/23 16:17	1
Pyrene	**8.1**		1.9	0.54	ug/L		10/19/23 11:02	10/24/23 16:17	1
2,2'-oxybis[1-chloropropane]	<0.58		1.9	0.58	ug/L		10/19/23 11:02	10/24/23 16:17	1
4-Bromophenyl phenyl ether	<3.2		10	3.2	ug/L		10/19/23 11:02	10/24/23 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*80*		*39 - 121*	*10/19/23 11:02*	*10/24/23 16:17*	*1*
2-Fluorobiphenyl	*79*		*45 - 105*	*10/19/23 11:02*	*10/24/23 16:17*	*1*
2-Fluorophenol (Surr)	*79*		*38 - 105*	*10/19/23 11:02*	*10/24/23 16:17*	*1*
Nitrobenzene-d5 (Surr)	*87*		*45 - 106*	*10/19/23 11:02*	*10/24/23 16:17*	*1*
Phenol-d5 (Surr)	*85*		*38 - 105*	*10/19/23 11:02*	*10/24/23 16:17*	*1*
Terphenyl-d14 (Surr)	*52*		*28 - 125*	*10/19/23 11:02*	*10/24/23 16:17*	*1*

Method: SW846 EPA 8270E - Semivolatile Organic Compounds (GC/MS) - SPLP West - DL

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	**55**	**J**	200	28	ug/L		10/19/23 11:02	10/25/23 18:09	20
2,4,5-Trichlorophenol	<50		200	50	ug/L		10/19/23 11:02	10/25/23 18:09	20
2,4,6-Trichlorophenol	<45		200	45	ug/L		10/19/23 11:02	10/25/23 18:09	20
2,4-Dichlorophenol	<10		38	10	ug/L		10/19/23 11:02	10/25/23 18:09	20
2,4-Dimethylphenol	<33		200	33	ug/L		10/19/23 11:02	10/25/23 18:09	20
2,4-Dinitrophenol	<310		2000	310	ug/L		10/19/23 11:02	10/25/23 18:09	20
2,4-Dinitrotoluene	<71		200	71	ug/L		10/19/23 11:02	10/25/23 18:09	20
2,6-Dinitrotoluene	<35		200	35	ug/L		10/19/23 11:02	10/25/23 18:09	20
2-Chloronaphthalene	<12		38	12	ug/L		10/19/23 11:02	10/25/23 18:09	20
2-Chlorophenol	<26		200	26	ug/L		10/19/23 11:02	10/25/23 18:09	20
2-Methylnaphthalene	**230**		38	12	ug/L		10/19/23 11:02	10/25/23 18:09	20
2-Methylphenol	<60		200	60	ug/L		10/19/23 11:02	10/25/23 18:09	20
2-Nitroaniline	<110		1000	110	ug/L		10/19/23 11:02	10/25/23 18:09	20
2-Nitrophenol	<39		200	39	ug/L		10/19/23 11:02	10/25/23 18:09	20
3,3'-Dichlorobenzidine	<120		200	120	ug/L		10/19/23 11:02	10/25/23 18:09	20
3-Nitroaniline	<87		1000	87	ug/L		10/19/23 11:02	10/25/23 18:09	20
4-Chlorophenyl phenyl ether	<44		200	44	ug/L		10/19/23 11:02	10/25/23 18:09	20
4,6-Dinitro-2-methylphenol	<290		1000	290	ug/L		10/19/23 11:02	10/25/23 18:09	20
4-Chloro-3-methylphenol	<56		200	56	ug/L		10/19/23 11:02	10/25/23 18:09	20
4-Chloroaniline	<75		200	75	ug/L		10/19/23 11:02	10/25/23 18:09	20
Methylphenol, 3 & 4	<74		200	74	ug/L		10/19/23 11:02	10/25/23 18:09	20
4-Nitroaniline	<73		1000	73	ug/L		10/19/23 11:02	10/25/23 18:09	20
4-Nitrophenol	<190		1000	190	ug/L		10/19/23 11:02	10/25/23 18:09	20
Acenaphthene	**140**		38	13	ug/L		10/19/23 11:02	10/25/23 18:09	20
Acenaphthylene	**13**	**J**	38	13	ug/L		10/19/23 11:02	10/25/23 18:09	20
Acetophenone	<32		200	32	ug/L		10/19/23 11:02	10/25/23 18:09	20
Anthracene	**12**	**J**	38	9.8	ug/L		10/19/23 11:02	10/25/23 18:09	20
Atrazine	<130		200	130	ug/L		10/19/23 11:02	10/25/23 18:09	20
Benzaldehyde	<110		200	110	ug/L		10/19/23 11:02	10/25/23 18:09	20
Benzo[a]anthracene	<15		38	15	ug/L		10/19/23 11:02	10/25/23 18:09	20
Benzo[a]pyrene	<11		38	11	ug/L		10/19/23 11:02	10/25/23 18:09	20

Client Sample ID: 20231005003
Lab Sample ID: 180-163503-3
Date Collected: 10/05/23 12:55
Matrix: Solid
Date Received: 10/06/23 08:00

Method: SW846 EPA 8270E - Semivolatile Organic Compounds (GC/MS) - SPLP West - DL (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<19		38	19	ug/L		10/19/23 11:02	10/25/23 18:09	20
Benzo[g,h,i]perylene	<14		38	14	ug/L		10/19/23 11:02	10/25/23 18:09	20
Benzo[k]fluoranthene	<18		38	18	ug/L		10/19/23 11:02	10/25/23 18:09	20
Bis(2-chloroethoxy)methane	<30		200	30	ug/L		10/19/23 11:02	10/25/23 18:09	20
Bis(2-chloroethyl)ether	<8.0		38	8.0	ug/L		10/19/23 11:02	10/25/23 18:09	20
Bis(2-ethylhexyl) phthalate	<1200		2000	1200	ug/L		10/19/23 11:02	10/25/23 18:09	20
Butyl benzyl phthalate	<92		200	92	ug/L		10/19/23 11:02	10/25/23 18:09	20
Caprolactam	<94		1000	94	ug/L		10/19/23 11:02	10/25/23 18:09	20
Carbazole	**94**		38	10	ug/L		10/19/23 11:02	10/25/23 18:09	20
Chrysene	<16		38	16	ug/L		10/19/23 11:02	10/25/23 18:09	20
Dibenz(a,h)anthracene	<14		38	14	ug/L		10/19/23 11:02	10/25/23 18:09	20
Dibenzofuran	**92**	**J**	200	38	ug/L		10/19/23 11:02	10/25/23 18:09	20
Diethyl phthalate	<110		200	110	ug/L		10/19/23 11:02	10/25/23 18:09	20
Dimethyl phthalate	<40		200	40	ug/L		10/19/23 11:02	10/25/23 18:09	20
Di-n-butyl phthalate	<150		200	150	ug/L		10/19/23 11:02	10/25/23 18:09	20
Di-n-octyl phthalate	<140		200	140	ug/L		10/19/23 11:02	10/25/23 18:09	20
Fluoranthene	<12		38	12	ug/L		10/19/23 11:02	10/25/23 18:09	20
Fluorene	**92**		38	14	ug/L		10/19/23 11:02	10/25/23 18:09	20
Hexachlorobenzene	<11		38	11	ug/L		10/19/23 11:02	10/25/23 18:09	20
Hexachlorobutadiene	<14		38	14	ug/L		10/19/23 11:02	10/25/23 18:09	20
Hexachlorocyclopentadiene	<99		200	99	ug/L		10/19/23 11:02	10/25/23 18:09	20
Hexachloroethane	<27		200	27	ug/L		10/19/23 11:02	10/25/23 18:09	20
Indeno[1,2,3-cd]pyrene	<17		38	17	ug/L		10/19/23 11:02	10/25/23 18:09	20
Isophorone	<38		200	38	ug/L		10/19/23 11:02	10/25/23 18:09	20
Naphthalene	**1600**		38	12	ug/L		10/19/23 11:02	10/25/23 18:09	20
Nitrobenzene	<100		400	100	ug/L		10/19/23 11:02	10/25/23 18:09	20
N-Nitrosodi-n-propylamine	<14		38	14	ug/L		10/19/23 11:02	10/25/23 18:09	20
N-Nitrosodiphenylamine	<24		200	24	ug/L		10/19/23 11:02	10/25/23 18:09	20
Pentachlorophenol	<170		1000	170	ug/L		10/19/23 11:02	10/25/23 18:09	20
Phenanthrene	**94**		38	11	ug/L		10/19/23 11:02	10/25/23 18:09	20
Phenol	<97		200	97	ug/L		10/19/23 11:02	10/25/23 18:09	20
Pyrene	<11		38	11	ug/L		10/19/23 11:02	10/25/23 18:09	20
2,2'-oxybis[1-chloropropane]	<12		38	12	ug/L		10/19/23 11:02	10/25/23 18:09	20
4-Bromophenyl phenyl ether	<64		200	64	ug/L		10/19/23 11:02	10/25/23 18:09	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*37*	*X*	*39 - 121*	*10/19/23 11:02*	*10/25/23 18:09*	*20*
2-Fluorobiphenyl	*56*		*45 - 105*	*10/19/23 11:02*	*10/25/23 18:09*	*20*
2-Fluorophenol (Surr)	*50*		*38 - 105*	*10/19/23 11:02*	*10/25/23 18:09*	*20*
Nitrobenzene-d5 (Surr)	*57*		*45 - 106*	*10/19/23 11:02*	*10/25/23 18:09*	*20*
Phenol-d5 (Surr)	*54*		*38 - 105*	*10/19/23 11:02*	*10/25/23 18:09*	*20*
Terphenyl-d14 (Surr)	*30*		*28 - 125*	*10/19/23 11:02*	*10/25/23 18:09*	*20*

Method: SW846 EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - SPLP West

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.38	0.18	ug/L		10/13/23 00:15	10/16/23 07:36	1
PCB-1221	<0.22		0.38	0.22	ug/L		10/13/23 00:15	10/16/23 07:36	1
PCB-1232	<0.20		0.38	0.20	ug/L		10/13/23 00:15	10/16/23 07:36	1
PCB-1242	<0.14		0.38	0.14	ug/L		10/13/23 00:15	10/16/23 07:36	1
PCB-1248	<0.31		0.38	0.31	ug/L		10/13/23 00:15	10/16/23 07:36	1

Client Sample ID: 20231005003 — Lab Sample ID: 180-163503-3

Date Collected: 10/05/23 12:55 — **Matrix: Solid**
Date Received: 10/06/23 08:00

Method: SW846 EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - SPLP West (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	<0.17		0.38	0.17	ug/L		10/13/23 00:15	10/16/23 07:36	1
PCB-1260	<0.15		0.38	0.15	ug/L		10/13/23 00:15	10/16/23 07:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*109*		*57 - 134*	*10/13/23 00:15*	*10/16/23 07:36*	*1*
Tetrachloro-m-xylene (Surr)	*95*		*57 - 134*	*10/13/23 00:15*	*10/16/23 07:36*	*1*
DCB Decachlorobiphenyl (Surr)	*118*		*68 - 150*	*10/13/23 00:15*	*10/16/23 07:36*	*1*
DCB Decachlorobiphenyl (Surr)	*109*		*68 - 150*	*10/13/23 00:15*	*10/16/23 07:36*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM22 2540G)	**15.1**		0.1	0.1	%			10/09/23 14:21	1

Client Sample ID: 20231005003 — Lab Sample ID: 180-163503-3

Date Collected: 10/05/23 12:55 — **Matrix: Solid**
Date Received: 10/06/23 08:00 — **Percent Solids: 84.9**

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	**820**		380	140	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
2,2'-oxybis[1-chloropropane]	<29		77	29	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
2,4,5-Trichlorophenol	<130		380	130	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
2,4,6-Trichlorophenol	<130		380	130	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
2,4-Dichlorophenol	<30		77	30	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
2,4-Dimethylphenol	<130		380	130	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
2,4-Dinitrophenol	<2400		3800	2400	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
2,4-Dinitrotoluene	<230		380	230	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
2,6-Dinitrotoluene	<150		380	150	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
2-Chloronaphthalene	<18		77	18	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
2-Chlorophenol	<140		380	140	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
2-Methylnaphthalene	**2500**		77	18	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
2-Methylphenol	<110		380	110	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
2-Nitroaniline	<180		2000	180	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
2-Nitrophenol	<140		380	140	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
3,3'-Dichlorobenzidine	<360		380	360	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
3-Nitroaniline	<98		2000	98	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
4,6-Dinitro-2-methylphenol	<660		2000	660	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
4-Bromophenyl phenyl ether	<160		380	160	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
4-Chloro-3-methylphenol	<140		380	140	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
4-Chloroaniline	<100		380	100	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
4-Chlorophenyl phenyl ether	<130		380	130	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Methylphenol, 3 & 4	<110		380	110	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
4-Nitroaniline	<140		2000	140	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
4-Nitrophenol	<270		2000	270	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Acenaphthene	**2400**		77	22	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Acenaphthylene	**710**		77	17	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Acetophenone	<140		770	140	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Anthracene	**2400**		77	20	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Atrazine	<170		770	170	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Benzaldehyde	<48		770	48	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1

Client Sample ID: 20231005003 **Lab Sample ID: 180-163503-3**
Date Collected: 10/05/23 12:55 **Matrix: Solid**
Date Received: 10/06/23 08:00 **Percent Solids: 84.9**

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**3000**		77	35	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Benzo[a]pyrene	**2800**		77	33	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Benzo[b]fluoranthene	**3100**		77	19	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Benzo[g,h,i]perylene	**1500**		77	17	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Benzo[k]fluoranthene	**1100**		77	23	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Bis(2-chloroethoxy)methane	<140	^c	380	140	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Bis(2-chloroethyl)ether	<14		77	14	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Bis(2-ethylhexyl) phthalate	<410		3800	410	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Butyl benzyl phthalate	<260		380	260	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Caprolactam	<250		2000	250	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Carbazole	**1000**		77	18	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Chrysene	**2800**		77	43	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Dibenz(a,h)anthracene	**430**		77	49	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Dibenzofuran	**1900**		380	140	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Diethyl phthalate	<140		380	140	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Dimethyl phthalate	<150		380	150	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Di-n-butyl phthalate	<170		380	170	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Di-n-octyl phthalate	<220		380	220	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Fluoranthene	**10000**		77	20	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Fluorene	**2600**		77	15	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Hexachlorobenzene	<28		77	28	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Hexachlorobutadiene	<23		77	23	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Hexachlorocyclopentadiene	<39		380	39	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Hexachloroethane	<140		380	140	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Indeno[1,2,3-cd]pyrene	**1200**		77	38	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Isophorone	<140		380	140	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Naphthalene	**7900**		77	15	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Nitrobenzene	<140		770	140	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
N-Nitrosodi-n-propylamine	<26		77	26	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
N-Nitrosodiphenylamine	<130		380	130	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Pentachlorophenol	<620		2000	620	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Phenanthrene	**12000**		77	21	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Phenol	<120		380	120	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1
Pyrene	**6700**		77	18	ug/Kg	☼	10/16/23 09:47	10/17/23 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*73*		*34 - 108*	*10/16/23 09:47*	*10/17/23 15:59*	*1*
2-Fluorobiphenyl	*74*		*44 - 105*	*10/16/23 09:47*	*10/17/23 15:59*	*1*
2-Fluorophenol (Surr)	*78*		*48 - 105*	*10/16/23 09:47*	*10/17/23 15:59*	*1*
Nitrobenzene-d5 (Surr)	*82*		*46 - 105*	*10/16/23 09:47*	*10/17/23 15:59*	*1*
Phenol-d5 (Surr)	*76*		*46 - 105*	*10/16/23 09:47*	*10/17/23 15:59*	*1*
Terphenyl-d14 (Surr)	*71*		*39 - 105*	*10/16/23 09:47*	*10/17/23 15:59*	*1*

Method: SW846 EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.4		20	6.4	ug/Kg	☼	10/09/23 14:24	10/13/23 23:44	1
PCB-1221	<6.9		20	6.9	ug/Kg	☼	10/09/23 14:24	10/13/23 23:44	1
PCB-1232	<4.8		20	4.8	ug/Kg	☼	10/09/23 14:24	10/13/23 23:44	1
PCB-1242	<2.9		20	2.9	ug/Kg	☼	10/09/23 14:24	10/13/23 23:44	1
PCB-1248	**960**		20	4.7	ug/Kg	☼	10/09/23 14:24	10/13/23 23:44	1

Client Sample ID: 20231005003 — Lab Sample ID: 180-163503-3

Date Collected: 10/05/23 12:55 — **Matrix: Solid**
Date Received: 10/06/23 08:00 — **Percent Solids: 84.9**

Method: SW846 EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	<5.9		20	5.9	ug/Kg	☼	10/09/23 14:24	10/13/23 23:44	1
PCB-1260	**120**		20	5.6	ug/Kg	☼	10/09/23 14:24	10/13/23 23:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*129*		*55 - 135*	*10/09/23 14:24*	*10/13/23 23:44*	*1*
Tetrachloro-m-xylene (Surr)	*103*		*55 - 135*	*10/09/23 14:24*	*10/13/23 23:44*	*1*
DCB Decachlorobiphenyl (Surr)	*106*		*63 - 138*	*10/09/23 14:24*	*10/13/23 23:44*	*1*
DCB Decachlorobiphenyl (Surr)	*114*		*63 - 138*	*10/09/23 14:24*	*10/13/23 23:44*	*1*

Client Sample ID: 20231005004 — Lab Sample ID: 180-163503-4

Date Collected: 10/05/23 13:20 — **Matrix: Solid**
Date Received: 10/06/23 08:00

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.7		4.9	1.7	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
1,1,2,2-Tetrachloroethane	<1.5		4.9	1.5	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<2.0		4.9	2.0	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
1,1,2-Trichloroethane	<0.98		4.9	0.98	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
1,1-Dichloroethane	<1.6		4.9	1.6	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
1,1-Dichloroethene	<2.2		4.9	2.2	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
1,2-Dibromo-3-Chloropropane	<3.2	^c	4.9	3.2	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
1,2-Dichlorobenzene	<1.7		4.9	1.7	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
1,2-Dichloroethane	<1.4		4.9	1.4	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
1,2-Dichloropropane	<1.3		4.9	1.3	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
1,2,4-Trichlorobenzene	<2.5		4.9	2.5	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
1,3-Dichlorobenzene	<3.0		4.9	3.0	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
1,4-Dichlorobenzene	<1.5		4.9	1.5	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
2-Butanone (MEK)	<2.5		25	2.5	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
2-Hexanone	<1.6		25	1.6	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
4-Methyl-2-pentanone (MIBK)	<1.8		25	1.8	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
Acetone	**11**	**J**	25	3.9	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
Benzene	**60**		4.9	1.4	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
Bromoform	<2.5		4.9	2.5	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
Bromomethane	<2.3		4.9	2.3	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
Carbon disulfide	<4.0		4.9	4.0	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
Carbon tetrachloride	<2.0		4.9	2.0	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
Chlorobenzene	<1.3		4.9	1.3	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
Chlorodibromomethane	<2.5		4.9	2.5	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
Chloroform	<3.3		4.9	3.3	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
Chloromethane	<2.0		4.9	2.0	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
Chloroethane	<2.9		4.9	2.9	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
cis-1,2-Dichloroethene	<1.5		4.9	1.5	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
cis-1,3-Dichloropropene	<2.2		4.9	2.2	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
Dichlorobromomethane	<2.3		4.9	2.3	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
Dichlorodifluoromethane	<2.5		4.9	2.5	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
Ethylbenzene	**95**		4.9	1.8	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
1,2-Dibromoethane	<1.4		4.9	1.4	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
Cyclohexane	<2.4		4.9	2.4	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
Isopropylbenzene	**7.7**		4.9	2.6	ug/Kg		10/10/23 08:04	10/10/23 20:12	1

Client Sample ID: 20231005004
Lab Sample ID: 180-163503-4
Date Collected: 10/05/23 13:20
Matrix: Solid
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	<7.3		25	7.3	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
Methyl tert-butyl ether	<1.5		4.9	1.5	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
Methylcyclohexane	<2.4		4.9	2.4	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
Methylene Chloride	<4.5		4.9	4.5	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
Styrene	**39**		4.9	1.5	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
Tetrachloroethene	<2.0		4.9	2.0	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
Toluene	**160**		4.9	1.4	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
trans-1,2-Dichloroethene	<1.7		4.9	1.7	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
trans-1,3-Dichloropropene	<2.2		4.9	2.2	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
Trichloroethene	<1.6		4.9	1.6	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
Trichlorofluoromethane	<4.1		4.9	4.1	ug/Kg		10/10/23 08:04	10/10/23 20:12	1
Vinyl chloride	<3.6		4.9	3.6	ug/Kg		10/10/23 08:04	10/10/23 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*73 - 135*	*10/10/23 08:04*	*10/10/23 20:12*	*1*
4-Bromofluorobenzene (Surr)	*72*		*60 - 124*	*10/10/23 08:04*	*10/10/23 20:12*	*1*
Dibromofluoromethane (Surr)	*96*		*69 - 126*	*10/10/23 08:04*	*10/10/23 20:12*	*1*
Toluene-d8 (Surr)	*83*		*67 - 134*	*10/10/23 08:04*	*10/10/23 20:12*	*1*

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	**470**	*	20	14	ug/Kg		10/06/23 13:33	10/06/23 20:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*	*	*73 - 135*	*10/06/23 13:33*	*10/06/23 20:30*	*1*
4-Bromofluorobenzene (Surr)	*81*	*	*60 - 124*	*10/06/23 13:33*	*10/06/23 20:30*	*1*
Dibromofluoromethane (Surr)	*93*	*	*69 - 126*	*10/06/23 13:33*	*10/06/23 20:30*	*1*
Toluene-d8 (Surr)	*80*	*	*67 - 134*	*10/06/23 13:33*	*10/06/23 20:30*	*1*

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<3.0		5.0	3.0	ug/L			10/12/23 18:08	1
1,1,2,2-Tetrachloroethane	<3.0		5.0	3.0	ug/L			10/12/23 18:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<4.3		5.0	4.3	ug/L			10/12/23 18:08	1
1,1,2-Trichloroethane	<2.3		5.0	2.3	ug/L			10/12/23 18:08	1
1,1-Dichloroethane	<3.1		5.0	3.1	ug/L			10/12/23 18:08	1
1,1-Dichloroethene	<2.8		5.0	2.8	ug/L			10/12/23 18:08	1
1,2-Dibromo-3-Chloropropane	<4.4		5.0	4.4	ug/L			10/12/23 18:08	1
1,2-Dichlorobenzene	<1.8		5.0	1.8	ug/L			10/12/23 18:08	1
1,2-Dichloroethane	<2.9		5.0	2.9	ug/L			10/12/23 18:08	1
1,2-Dichloropropane	<3.3		5.0	3.3	ug/L			10/12/23 18:08	1
1,2,4-Trichlorobenzene	<3.9	^c	5.0	3.9	ug/L			10/12/23 18:08	1
1,3-Dichlorobenzene	<2.5		5.0	2.5	ug/L			10/12/23 18:08	1
1,4-Dichlorobenzene	<2.7		5.0	2.7	ug/L			10/12/23 18:08	1
2-Butanone (MEK)	<13		25	13	ug/L			10/12/23 18:08	1
2-Hexanone	<16		25	16	ug/L			10/12/23 18:08	1
4-Methyl-2-pentanone (MIBK)	<15	^c	25	15	ug/L			10/12/23 18:08	1
Acetone	<17	^c	25	17	ug/L			10/12/23 18:08	1
Benzene	**14**		5.0	3.0	ug/L			10/12/23 18:08	1
Bromoform	<4.9		5.0	4.9	ug/L			10/12/23 18:08	1

Client Sample ID: 20231005004
Lab Sample ID: 180-163503-4
Date Collected: 10/05/23 13:20
Matrix: Solid
Date Received: 10/06/23 08:00

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS - SPLP (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<4.4		5.0	4.4	ug/L			10/12/23 18:08	1
Carbon disulfide	<4.4		5.0	4.4	ug/L			10/12/23 18:08	1
Carbon tetrachloride	<4.4		5.0	4.4	ug/L			10/12/23 18:08	1
Chlorobenzene	<2.5		5.0	2.5	ug/L			10/12/23 18:08	1
Chlorodibromomethane	<4.2		5.0	4.2	ug/L			10/12/23 18:08	1
Chloroform	<3.0		5.0	3.0	ug/L			10/12/23 18:08	1
Chloromethane	<4.5		5.0	4.5	ug/L			10/12/23 18:08	1
Chloroethane	<4.5		5.0	4.5	ug/L			10/12/23 18:08	1
cis-1,2-Dichloroethene	<3.5		5.0	3.5	ug/L			10/12/23 18:08	1
cis-1,3-Dichloropropene	<3.0		5.0	3.0	ug/L			10/12/23 18:08	1
Dichlorobromomethane	<3.2		5.0	3.2	ug/L			10/12/23 18:08	1
Dichlorodifluoromethane	<4.2		5.0	4.2	ug/L			10/12/23 18:08	1
1,2-Dibromoethane	<2.5		5.0	2.5	ug/L			10/12/23 18:08	1
Cyclohexane	<3.2		5.0	3.2	ug/L			10/12/23 18:08	1
Isopropylbenzene	**4.8**	**J**	5.0	1.7	ug/L			10/12/23 18:08	1
Methyl acetate	<8.4		25	8.4	ug/L			10/12/23 18:08	1
Methyl tert-butyl ether	<3.0		5.0	3.0	ug/L			10/12/23 18:08	1
Methylcyclohexane	<3.0		5.0	3.0	ug/L			10/12/23 18:08	1
Methylene Chloride	**14**		5.0	4.4	ug/L			10/12/23 18:08	1
Styrene	**25**		5.0	2.4	ug/L			10/12/23 18:08	1
Tetrachloroethene	<2.3		5.0	2.3	ug/L			10/12/23 18:08	1
trans-1,2-Dichloroethene	<3.4		5.0	3.4	ug/L			10/12/23 18:08	1
trans-1,3-Dichloropropene	<2.9		5.0	2.9	ug/L			10/12/23 18:08	1
Trichloroethene	<3.4		5.0	3.4	ug/L			10/12/23 18:08	1
Trichlorofluoromethane	<4.4	^c	5.0	4.4	ug/L			10/12/23 18:08	1
Vinyl chloride	<2.0	^c	5.0	2.0	ug/L			10/12/23 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*72*		*52 - 151*		*10/12/23 18:08*	*1*
4-Bromofluorobenzene (Surr)	*69*		*49 - 118*		*10/12/23 18:08*	*1*
Dibromofluoromethane (Surr)	*75*		*60 - 132*		*10/12/23 18:08*	*1*
Toluene-d8 (Surr)	*69*		*53 - 124*		*10/12/23 18:08*	*1*

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS - SPLP - DL

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<63		130	63	ug/L			10/13/23 20:12	25
Toluene	**91**	**J**	130	57	ug/L			10/13/23 20:12	25
Xylenes, Total	**320**		250	110	ug/L			10/13/23 20:12	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*52 - 151*		*10/13/23 20:12*	*25*
4-Bromofluorobenzene (Surr)	*86*		*49 - 118*		*10/13/23 20:12*	*25*
Dibromofluoromethane (Surr)	*109*		*60 - 132*		*10/13/23 20:12*	*25*
Toluene-d8 (Surr)	*88*		*53 - 124*		*10/13/23 20:12*	*25*

Method: SW846 EPA 8270E - Semivolatile Organic Compounds (GC/MS) - SPLP West

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	**86**		40	5.7	ug/L		10/19/23 11:02	10/24/23 10:10	4
2,4,5-Trichlorophenol	<10		40	10	ug/L		10/19/23 11:02	10/24/23 10:10	4
2,4,6-Trichlorophenol	<9.0		40	9.0	ug/L		10/19/23 11:02	10/24/23 10:10	4

Client: Tetra Tech, Inc.
Job ID: 180-163503-1
Project/Site: WI ISS Treatability Study REVISED

Client Sample ID: 20231005004
Lab Sample ID: 180-163503-4
Date Collected: 10/05/23 13:20
Matrix: Solid
Date Received: 10/06/23 08:00

Method: SW846 EPA 8270E - Semivolatile Organic Compounds (GC/MS) - SPLP West (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	<2.0		7.6	2.0	ug/L		10/19/23 11:02	10/24/23 10:10	4
2,4-Dimethylphenol	**24**	**J**	40	6.7	ug/L		10/19/23 11:02	10/24/23 10:10	4
2,4-Dinitrophenol	<61		400	61	ug/L		10/19/23 11:02	10/24/23 10:10	4
2,4-Dinitrotoluene	<14		40	14	ug/L		10/19/23 11:02	10/24/23 10:10	4
2,6-Dinitrotoluene	<6.9		40	6.9	ug/L		10/19/23 11:02	10/24/23 10:10	4
2-Chloronaphthalene	<2.4		7.6	2.4	ug/L		10/19/23 11:02	10/24/23 10:10	4
2-Chlorophenol	<5.2		40	5.2	ug/L		10/19/23 11:02	10/24/23 10:10	4
2-Methylnaphthalene	**670**		7.6	2.5	ug/L		10/19/23 11:02	10/24/23 10:10	4
2-Methylphenol	**16**	**J**	40	12	ug/L		10/19/23 11:02	10/24/23 10:10	4
2-Nitroaniline	<22		200	22	ug/L		10/19/23 11:02	10/24/23 10:10	4
2-Nitrophenol	<7.7		40	7.7	ug/L		10/19/23 11:02	10/24/23 10:10	4
3,3'-Dichlorobenzidine	<23		40	23	ug/L		10/19/23 11:02	10/24/23 10:10	4
3-Nitroaniline	<17		200	17	ug/L		10/19/23 11:02	10/24/23 10:10	4
4-Chlorophenyl phenyl ether	<8.8		40	8.8	ug/L		10/19/23 11:02	10/24/23 10:10	4
4,6-Dinitro-2-methylphenol	<59		200	59	ug/L		10/19/23 11:02	10/24/23 10:10	4
4-Chloro-3-methylphenol	<11		40	11	ug/L		10/19/23 11:02	10/24/23 10:10	4
4-Chloroaniline	<15		40	15	ug/L		10/19/23 11:02	10/24/23 10:10	4
Methylphenol, 3 & 4	**29**	**J**	40	15	ug/L		10/19/23 11:02	10/24/23 10:10	4
4-Nitroaniline	<15		200	15	ug/L		10/19/23 11:02	10/24/23 10:10	4
4-Nitrophenol	<38		200	38	ug/L		10/19/23 11:02	10/24/23 10:10	4
Acenaphthene	**190**		7.6	2.6	ug/L		10/19/23 11:02	10/24/23 10:10	4
Acenaphthylene	**100**		7.6	2.6	ug/L		10/19/23 11:02	10/24/23 10:10	4
Acetophenone	<6.4		40	6.4	ug/L		10/19/23 11:02	10/24/23 10:10	4
Anthracene	**18**		7.6	2.0	ug/L		10/19/23 11:02	10/24/23 10:10	4
Atrazine	<25		40	25	ug/L		10/19/23 11:02	10/24/23 10:10	4
Benzaldehyde	<22		40	22	ug/L		10/19/23 11:02	10/24/23 10:10	4
Benzo[a]anthracene	<3.0		7.6	3.0	ug/L		10/19/23 11:02	10/24/23 10:10	4
Benzo[a]pyrene	<2.1		7.6	2.1	ug/L		10/19/23 11:02	10/24/23 10:10	4
Benzo[b]fluoranthene	<3.9		7.6	3.9	ug/L		10/19/23 11:02	10/24/23 10:10	4
Benzo[g,h,i]perylene	<2.8		7.6	2.8	ug/L		10/19/23 11:02	10/24/23 10:10	4
Benzo[k]fluoranthene	<3.5		7.6	3.5	ug/L		10/19/23 11:02	10/24/23 10:10	4
Bis(2-chloroethoxy)methane	<6.1		40	6.1	ug/L		10/19/23 11:02	10/24/23 10:10	4
Bis(2-chloroethyl)ether	<1.6		7.6	1.6	ug/L		10/19/23 11:02	10/24/23 10:10	4
Bis(2-ethylhexyl) phthalate	<250		400	250	ug/L		10/19/23 11:02	10/24/23 10:10	4
Butyl benzyl phthalate	<18		40	18	ug/L		10/19/23 11:02	10/24/23 10:10	4
Caprolactam	<19		200	19	ug/L		10/19/23 11:02	10/24/23 10:10	4
Carbazole	**290**		7.6	2.0	ug/L		10/19/23 11:02	10/24/23 10:10	4
Chrysene	<3.2		7.6	3.2	ug/L		10/19/23 11:02	10/24/23 10:10	4
Dibenz(a,h)anthracene	<2.9		7.6	2.9	ug/L		10/19/23 11:02	10/24/23 10:10	4
Dibenzofuran	**150**		40	7.6	ug/L		10/19/23 11:02	10/24/23 10:10	4
Diethyl phthalate	<23		40	23	ug/L		10/19/23 11:02	10/24/23 10:10	4
Dimethyl phthalate	<8.0		40	8.0	ug/L		10/19/23 11:02	10/24/23 10:10	4
Di-n-butyl phthalate	<30		40	30	ug/L		10/19/23 11:02	10/24/23 10:10	4
Di-n-octyl phthalate	<27		40	27	ug/L		10/19/23 11:02	10/24/23 10:10	4
Fluoranthene	**14**		7.6	2.4	ug/L		10/19/23 11:02	10/24/23 10:10	4
Fluorene	**130**		7.6	2.8	ug/L		10/19/23 11:02	10/24/23 10:10	4
Hexachlorobenzene	<2.2		7.6	2.2	ug/L		10/19/23 11:02	10/24/23 10:10	4
Hexachlorobutadiene	<2.8		7.6	2.8	ug/L		10/19/23 11:02	10/24/23 10:10	4
Hexachlorocyclopentadiene	<20		40	20	ug/L		10/19/23 11:02	10/24/23 10:10	4

Client Sample ID: 20231005004
Lab Sample ID: 180-163503-4
Date Collected: 10/05/23 13:20
Matrix: Solid
Date Received: 10/06/23 08:00

Method: SW846 EPA 8270E - Semivolatile Organic Compounds (GC/MS) - SPLP West (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<5.3		40	5.3	ug/L		10/19/23 11:02	10/24/23 10:10	4
Indeno[1,2,3-cd]pyrene	<3.4		7.6	3.4	ug/L		10/19/23 11:02	10/24/23 10:10	4
Isophorone	<7.5		40	7.5	ug/L		10/19/23 11:02	10/24/23 10:10	4
Naphthalene	**5400**	**E**	7.6	2.4	ug/L		10/19/23 11:02	10/24/23 10:10	4
Nitrobenzene	<20		80	20	ug/L		10/19/23 11:02	10/24/23 10:10	4
N-Nitrosodi-n-propylamine	<2.8		7.6	2.8	ug/L		10/19/23 11:02	10/24/23 10:10	4
N-Nitrosodiphenylamine	<4.8		40	4.8	ug/L		10/19/23 11:02	10/24/23 10:10	4
Pentachlorophenol	<34		200	34	ug/L		10/19/23 11:02	10/24/23 10:10	4
Phenanthrene	**130**		7.6	2.2	ug/L		10/19/23 11:02	10/24/23 10:10	4
Phenol	<19		40	19	ug/L		10/19/23 11:02	10/24/23 10:10	4
Pyrene	**8.6**		7.6	2.2	ug/L		10/19/23 11:02	10/24/23 10:10	4
2,2'-oxybis[1-chloropropane]	<2.3		7.6	2.3	ug/L		10/19/23 11:02	10/24/23 10:10	4
4-Bromophenyl phenyl ether	<13		40	13	ug/L		10/19/23 11:02	10/24/23 10:10	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*60*		*39 - 121*	*10/19/23 11:02*	*10/24/23 10:10*	*4*
2-Fluorobiphenyl	*67*		*45 - 105*	*10/19/23 11:02*	*10/24/23 10:10*	*4*
2-Fluorophenol (Surr)	*62*		*38 - 105*	*10/19/23 11:02*	*10/24/23 10:10*	*4*
Nitrobenzene-d5 (Surr)	*71*		*45 - 106*	*10/19/23 11:02*	*10/24/23 10:10*	*4*
Phenol-d5 (Surr)	*70*		*38 - 105*	*10/19/23 11:02*	*10/24/23 10:10*	*4*
Terphenyl-d14 (Surr)	*74*		*28 - 125*	*10/19/23 11:02*	*10/24/23 10:10*	*4*

Method: SW846 EPA 8270E - Semivolatile Organic Compounds (GC/MS) - SPLP West - DL

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<110		750	110	ug/L		10/19/23 11:02	10/25/23 18:30	75
2,4,5-Trichlorophenol	<190		750	190	ug/L		10/19/23 11:02	10/25/23 18:30	75
2,4,6-Trichlorophenol	<170		750	170	ug/L		10/19/23 11:02	10/25/23 18:30	75
2,4-Dichlorophenol	<38		140	38	ug/L		10/19/23 11:02	10/25/23 18:30	75
2,4-Dimethylphenol	<130		750	130	ug/L		10/19/23 11:02	10/25/23 18:30	75
2,4-Dinitrophenol	<1100		7500	1100	ug/L		10/19/23 11:02	10/25/23 18:30	75
2,4-Dinitrotoluene	<260		750	260	ug/L		10/19/23 11:02	10/25/23 18:30	75
2,6-Dinitrotoluene	<130		750	130	ug/L		10/19/23 11:02	10/25/23 18:30	75
2-Chloronaphthalene	<44		140	44	ug/L		10/19/23 11:02	10/25/23 18:30	75
2-Chlorophenol	<97		750	97	ug/L		10/19/23 11:02	10/25/23 18:30	75
2-Methylnaphthalene	**610**		140	47	ug/L		10/19/23 11:02	10/25/23 18:30	75
2-Methylphenol	<230		750	230	ug/L		10/19/23 11:02	10/25/23 18:30	75
2-Nitroaniline	<410		3800	410	ug/L		10/19/23 11:02	10/25/23 18:30	75
2-Nitrophenol	<140		750	140	ug/L		10/19/23 11:02	10/25/23 18:30	75
3,3'-Dichlorobenzidine	<440		750	440	ug/L		10/19/23 11:02	10/25/23 18:30	75
3-Nitroaniline	<330		3800	330	ug/L		10/19/23 11:02	10/25/23 18:30	75
4-Chlorophenyl phenyl ether	<170		750	170	ug/L		10/19/23 11:02	10/25/23 18:30	75
4,6-Dinitro-2-methylphenol	<1100		3800	1100	ug/L		10/19/23 11:02	10/25/23 18:30	75
4-Chloro-3-methylphenol	<210		750	210	ug/L		10/19/23 11:02	10/25/23 18:30	75
4-Chloroaniline	<280		750	280	ug/L		10/19/23 11:02	10/25/23 18:30	75
Methylphenol, 3 & 4	<280		750	280	ug/L		10/19/23 11:02	10/25/23 18:30	75
4-Nitroaniline	<270		3800	270	ug/L		10/19/23 11:02	10/25/23 18:30	75
4-Nitrophenol	<710		3800	710	ug/L		10/19/23 11:02	10/25/23 18:30	75
Acenaphthene	**170**		140	49	ug/L		10/19/23 11:02	10/25/23 18:30	75
Acenaphthylene	**83**	**J**	140	49	ug/L		10/19/23 11:02	10/25/23 18:30	75
Acetophenone	<120		750	120	ug/L		10/19/23 11:02	10/25/23 18:30	75

Client Sample ID: 20231005004
Lab Sample ID: 180-163503-4
Date Collected: 10/05/23 13:20
Matrix: Solid
Date Received: 10/06/23 08:00

Method: SW846 EPA 8270E - Semivolatile Organic Compounds (GC/MS) - SPLP West - DL (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<37		140	37	ug/L		10/19/23 11:02	10/25/23 18:30	75
Atrazine	<470		750	470	ug/L		10/19/23 11:02	10/25/23 18:30	75
Benzaldehyde	<400		750	400	ug/L		10/19/23 11:02	10/25/23 18:30	75
Benzo[a]anthracene	<56		140	56	ug/L		10/19/23 11:02	10/25/23 18:30	75
Benzo[a]pyrene	<40		140	40	ug/L		10/19/23 11:02	10/25/23 18:30	75
Benzo[b]fluoranthene	<73		140	73	ug/L		10/19/23 11:02	10/25/23 18:30	75
Benzo[g,h,i]perylene	<52		140	52	ug/L		10/19/23 11:02	10/25/23 18:30	75
Benzo[k]fluoranthene	<66		140	66	ug/L		10/19/23 11:02	10/25/23 18:30	75
Bis(2-chloroethoxy)methane	<110		750	110	ug/L		10/19/23 11:02	10/25/23 18:30	75
Bis(2-chloroethyl)ether	<30		140	30	ug/L		10/19/23 11:02	10/25/23 18:30	75
Bis(2-ethylhexyl) phthalate	<4700		7500	4700	ug/L		10/19/23 11:02	10/25/23 18:30	75
Butyl benzyl phthalate	<350		750	350	ug/L		10/19/23 11:02	10/25/23 18:30	75
Caprolactam	<350		3800	350	ug/L		10/19/23 11:02	10/25/23 18:30	75
Carbazole	**230**		140	38	ug/L		10/19/23 11:02	10/25/23 18:30	75
Chrysene	<61		140	61	ug/L		10/19/23 11:02	10/25/23 18:30	75
Dibenz(a,h)anthracene	<54		140	54	ug/L		10/19/23 11:02	10/25/23 18:30	75
Dibenzofuran	<140		750	140	ug/L		10/19/23 11:02	10/25/23 18:30	75
Diethyl phthalate	<430		750	430	ug/L		10/19/23 11:02	10/25/23 18:30	75
Dimethyl phthalate	<150		750	150	ug/L		10/19/23 11:02	10/25/23 18:30	75
Di-n-butyl phthalate	<560		750	560	ug/L		10/19/23 11:02	10/25/23 18:30	75
Di-n-octyl phthalate	<510		750	510	ug/L		10/19/23 11:02	10/25/23 18:30	75
Fluoranthene	<45		140	45	ug/L		10/19/23 11:02	10/25/23 18:30	75
Fluorene	**120**	**J**	140	52	ug/L		10/19/23 11:02	10/25/23 18:30	75
Hexachlorobenzene	<42		140	42	ug/L		10/19/23 11:02	10/25/23 18:30	75
Hexachlorobutadiene	<52		140	52	ug/L		10/19/23 11:02	10/25/23 18:30	75
Hexachlorocyclopentadiene	<370		750	370	ug/L		10/19/23 11:02	10/25/23 18:30	75
Hexachloroethane	<100		750	100	ug/L		10/19/23 11:02	10/25/23 18:30	75
Indeno[1,2,3-cd]pyrene	<64		140	64	ug/L		10/19/23 11:02	10/25/23 18:30	75
Isophorone	<140		750	140	ug/L		10/19/23 11:02	10/25/23 18:30	75
Naphthalene	**9900**		140	44	ug/L		10/19/23 11:02	10/25/23 18:30	75
Nitrobenzene	<380		1500	380	ug/L		10/19/23 11:02	10/25/23 18:30	75
N-Nitrosodi-n-propylamine	<53		140	53	ug/L		10/19/23 11:02	10/25/23 18:30	75
N-Nitrosodiphenylamine	<89		750	89	ug/L		10/19/23 11:02	10/25/23 18:30	75
Pentachlorophenol	<640		3800	640	ug/L		10/19/23 11:02	10/25/23 18:30	75
Phenanthrene	**130**	**J**	140	41	ug/L		10/19/23 11:02	10/25/23 18:30	75
Phenol	<370		750	370	ug/L		10/19/23 11:02	10/25/23 18:30	75
Pyrene	<41		140	41	ug/L		10/19/23 11:02	10/25/23 18:30	75
2,2'-oxybis[1-chloropropane]	<44		140	44	ug/L		10/19/23 11:02	10/25/23 18:30	75
4-Bromophenyl phenyl ether	<240		750	240	ug/L		10/19/23 11:02	10/25/23 18:30	75

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*0*	*X D*	*39 - 121*	*10/19/23 11:02*	*10/25/23 18:30*	*75*
2-Fluorobiphenyl	*0*	*X D*	*45 - 105*	*10/19/23 11:02*	*10/25/23 18:30*	*75*
2-Fluorophenol (Surr)	*0*	*X D*	*38 - 105*	*10/19/23 11:02*	*10/25/23 18:30*	*75*
Nitrobenzene-d5 (Surr)	*0*	*X D*	*45 - 106*	*10/19/23 11:02*	*10/25/23 18:30*	*75*
Phenol-d5 (Surr)	*0*	*X D*	*38 - 105*	*10/19/23 11:02*	*10/25/23 18:30*	*75*
Terphenyl-d14 (Surr)	*0*	*X D*	*28 - 125*	*10/19/23 11:02*	*10/25/23 18:30*	*75*

Client Sample ID: 20231005004
Lab Sample ID: 180-163503-4
Date Collected: 10/05/23 13:20
Matrix: Solid
Date Received: 10/06/23 08:00

Method: SW846 EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - SPLP West

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.19		0.40	0.19	ug/L		10/13/23 00:15	10/16/23 07:54	1
PCB-1221	<0.23		0.40	0.23	ug/L		10/13/23 00:15	10/16/23 07:54	1
PCB-1232	<0.21		0.40	0.21	ug/L		10/13/23 00:15	10/16/23 07:54	1
PCB-1242	<0.14		0.40	0.14	ug/L		10/13/23 00:15	10/16/23 07:54	1
PCB-1248	<0.32		0.40	0.32	ug/L		10/13/23 00:15	10/16/23 07:54	1
PCB-1254	<0.18		0.40	0.18	ug/L		10/13/23 00:15	10/16/23 07:54	1
PCB-1260	<0.16		0.40	0.16	ug/L		10/13/23 00:15	10/16/23 07:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*104*		*57 - 134*	*10/13/23 00:15*	*10/16/23 07:54*	*1*
Tetrachloro-m-xylene (Surr)	*92*		*57 - 134*	*10/13/23 00:15*	*10/16/23 07:54*	*1*
DCB Decachlorobiphenyl (Surr)	*111*		*68 - 150*	*10/13/23 00:15*	*10/16/23 07:54*	*1*
DCB Decachlorobiphenyl (Surr)	*109*		*68 - 150*	*10/13/23 00:15*	*10/16/23 07:54*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM22 2540G)	**16.9**		0.1	0.1	%			10/09/23 14:21	1

Client Sample ID: 20231005004
Lab Sample ID: 180-163503-4
Date Collected: 10/05/23 13:20
Matrix: Solid
Date Received: 10/06/23 08:00
Percent Solids: 83.1

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	**17000**	**E**	390	140	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
2,2'-oxybis[1-chloropropane]	<29		79	29	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
2,4,5-Trichlorophenol	<140		390	140	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
2,4,6-Trichlorophenol	<130		390	130	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
2,4-Dichlorophenol	<30		79	30	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
2,4-Dimethylphenol	<130		390	130	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
2,4-Dinitrophenol	<2400		3900	2400	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
2,4-Dinitrotoluene	<230		390	230	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
2,6-Dinitrotoluene	<150		390	150	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
2-Chloronaphthalene	<18		79	18	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
2-Chlorophenol	<150		390	150	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
2-Methylnaphthalene	**70000**	**E**	79	19	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
2-Methylphenol	<110		390	110	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
2-Nitroaniline	<180		2000	180	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
2-Nitrophenol	<150		390	150	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
3,3'-Dichlorobenzidine	<370		390	370	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
3-Nitroaniline	<100		2000	100	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
4,6-Dinitro-2-methylphenol	<680		2000	680	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
4-Bromophenyl phenyl ether	<170		390	170	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
4-Chloro-3-methylphenol	<140		390	140	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
4-Chloroaniline	<100		390	100	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
4-Chlorophenyl phenyl ether	<130		390	130	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Methylphenol, 3 & 4	**350**	**J**	390	120	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
4-Nitroaniline	<150		2000	150	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
4-Nitrophenol	<280		2000	280	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Acenaphthene	**46000**	**E**	79	23	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1

Client Sample ID: 20231005004
Lab Sample ID: 180-163503-4
Date Collected: 10/05/23 13:20
Matrix: Solid
Date Received: 10/06/23 08:00
Percent Solids: 83.1

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	**19000**	**E**	79	17	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Acetophenone	<140		790	140	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Anthracene	**45000**	**E**	79	20	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Atrazine	<170		790	170	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Benzaldehyde	<49		790	49	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Benzo[a]anthracene	**29000**	**E**	79	36	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Benzo[a]pyrene	**24000**	**E**	79	34	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Benzo[b]fluoranthene	**27000**	**E**	79	19	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Benzo[g,h,i]perylene	**13000**		79	17	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Benzo[k]fluoranthene	**8900**		79	24	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Bis(2-chloroethoxy)methane	<140	^c	390	140	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Bis(2-chloroethyl)ether	<14		79	14	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Bis(2-ethylhexyl) phthalate	<420		3900	420	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Butyl benzyl phthalate	<270		390	270	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Caprolactam	<260		2000	260	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Carbazole	**21000**	**E**	79	18	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Chrysene	**48000**	**E**	79	44	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Dibenz(a,h)anthracene	**3400**		79	50	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Dibenzofuran	**42000**	**E**	390	150	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Diethyl phthalate	<140		390	140	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Dimethyl phthalate	<160		390	160	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Di-n-butyl phthalate	<170		390	170	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Di-n-octyl phthalate	<230		390	230	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Fluoranthene	**63000**	**E**	79	21	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Fluorene	**59000**	**E**	79	15	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Hexachlorobenzene	<28		79	28	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Hexachlorobutadiene	<23		79	23	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Hexachlorocyclopentadiene	<40		390	40	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Hexachloroethane	<140		390	140	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Indeno[1,2,3-cd]pyrene	**11000**		79	39	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Isophorone	<150		390	150	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Naphthalene	**130000**	**E**	79	15	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Nitrobenzene	<140		790	140	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
N-Nitrosodi-n-propylamine	<27		79	27	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
N-Nitrosodiphenylamine	<130		390	130	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Pentachlorophenol	<630		2000	630	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Phenanthrene	**76000**	**E**	79	21	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Phenol	<120		390	120	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1
Pyrene	**54000**	**E**	79	19	ug/Kg	☼	10/16/23 09:47	10/17/23 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*71*		*34 - 108*	*10/16/23 09:47*	*10/17/23 16:21*	*1*
2-Fluorobiphenyl	*72*		*44 - 105*	*10/16/23 09:47*	*10/17/23 16:21*	*1*
2-Fluorophenol (Surr)	*75*		*48 - 105*	*10/16/23 09:47*	*10/17/23 16:21*	*1*
Nitrobenzene-d5 (Surr)	*65*		*46 - 105*	*10/16/23 09:47*	*10/17/23 16:21*	*1*
Phenol-d5 (Surr)	*74*		*46 - 105*	*10/16/23 09:47*	*10/17/23 16:21*	*1*
Terphenyl-d14 (Surr)	*66*		*39 - 105*	*10/16/23 09:47*	*10/17/23 16:21*	*1*

Client: Tetra Tech, Inc.
Job ID: 180-163503-1
Project/Site: WI ISS Treatability Study REVISED

Client Sample ID: 20231005004
Lab Sample ID: 180-163503-4
Date Collected: 10/05/23 13:20
Matrix: Solid
Date Received: 10/06/23 08:00
Percent Solids: 83.1

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	**14000**	**J**	39000	14000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
2,2'-oxybis[1-chloropropane]	<2900		7900	2900	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
2,4,5-Trichlorophenol	<14000		39000	14000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
2,4,6-Trichlorophenol	<13000		39000	13000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
2,4-Dichlorophenol	<3000		7900	3000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
2,4-Dimethylphenol	<13000		39000	13000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
2,4-Dinitrophenol	<240000		390000	240000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
2,4-Dinitrotoluene	<23000		39000	23000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
2,6-Dinitrotoluene	<15000		39000	15000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
2-Chloronaphthalene	<1800		7900	1800	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
2-Chlorophenol	<15000		39000	15000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
2-Methylnaphthalene	**67000**		7900	1900	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
2-Methylphenol	<11000		39000	11000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
2-Nitroaniline	<18000		200000	18000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
2-Nitrophenol	<15000		39000	15000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
3,3'-Dichlorobenzidine	<37000		39000	37000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
3-Nitroaniline	<10000		200000	10000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
4,6-Dinitro-2-methylphenol	<68000		200000	68000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
4-Bromophenyl phenyl ether	<17000		39000	17000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
4-Chloro-3-methylphenol	<14000		39000	14000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
4-Chloroaniline	<10000		39000	10000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
4-Chlorophenyl phenyl ether	<13000		39000	13000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Methylphenol, 3 & 4	<12000		39000	12000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
4-Nitroaniline	<15000		200000	15000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
4-Nitrophenol	<28000		200000	28000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Acenaphthene	**33000**		7900	2300	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Acenaphthylene	**14000**		7900	1700	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Acetophenone	<14000		79000	14000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Anthracene	**44000**		7900	2000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Atrazine	<17000		79000	17000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Benzaldehyde	<4900		79000	4900	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Benzo[a]anthracene	**24000**		7900	3600	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Benzo[a]pyrene	**17000**		7900	3400	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Benzo[b]fluoranthene	**20000**		7900	1900	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Benzo[g,h,i]perylene	**8900**		7900	1700	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Benzo[k]fluoranthene	**8200**		7900	2400	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Bis(2-chloroethoxy)methane	<14000		39000	14000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Bis(2-chloroethyl)ether	<1400		7900	1400	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Bis(2-ethylhexyl) phthalate	<42000		390000	42000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Butyl benzyl phthalate	<27000		39000	27000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Caprolactam	<26000		200000	26000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Carbazole	**15000**		7900	1800	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Chrysene	**41000**		7900	4400	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Dibenz(a,h)anthracene	<5000		7900	5000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Dibenzofuran	**33000**	**J**	39000	15000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Diethyl phthalate	<14000		39000	14000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Dimethyl phthalate	<16000		39000	16000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Di-n-butyl phthalate	<17000		39000	17000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Di-n-octyl phthalate	<23000		39000	23000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100

Client Sample ID: 20231005004 — Lab Sample ID: 180-163503-4

Date Collected: 10/05/23 13:20 — **Matrix: Solid**
Date Received: 10/06/23 08:00 — **Percent Solids: 83.1**

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**76000**		7900	2100	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Fluorene	**39000**		7900	1500	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Hexachlorobenzene	<2800		7900	2800	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Hexachlorobutadiene	<2300		7900	2300	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Hexachlorocyclopentadiene	<4000		39000	4000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Hexachloroethane	<14000		39000	14000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Indeno[1,2,3-cd]pyrene	**8900**		7900	3900	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Isophorone	<15000		39000	15000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Naphthalene	**630000**		7900	1500	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Nitrobenzene	<14000		79000	14000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
N-Nitrosodi-n-propylamine	<2700		7900	2700	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
N-Nitrosodiphenylamine	<13000		39000	13000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Pentachlorophenol	<63000		200000	63000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Phenanthrene	**130000**		7900	2100	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Phenol	<12000		39000	12000	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100
Pyrene	**64000**		7900	1900	ug/Kg	☼	10/16/23 09:47	10/18/23 15:53	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*0*	*X D*	*34 - 108*	*10/16/23 09:47*	*10/18/23 15:53*	*100*
2-Fluorobiphenyl	*0*	*X D*	*44 - 105*	*10/16/23 09:47*	*10/18/23 15:53*	*100*
2-Fluorophenol (Surr)	*0*	*X D*	*48 - 105*	*10/16/23 09:47*	*10/18/23 15:53*	*100*
Nitrobenzene-d5 (Surr)	*0*	*X D*	*46 - 105*	*10/16/23 09:47*	*10/18/23 15:53*	*100*
Phenol-d5 (Surr)	*0*	*X D*	*46 - 105*	*10/16/23 09:47*	*10/18/23 15:53*	*100*
Terphenyl-d14 (Surr)	*0*	*X D*	*39 - 105*	*10/16/23 09:47*	*10/18/23 15:53*	*100*

Method: SW846 EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.5		20	6.5	ug/Kg	☼	10/09/23 14:24	10/14/23 00:03	1
PCB-1221	<7.1		20	7.1	ug/Kg	☼	10/09/23 14:24	10/14/23 00:03	1
PCB-1232	<4.9		20	4.9	ug/Kg	☼	10/09/23 14:24	10/14/23 00:03	1
PCB-1242	<2.9		20	2.9	ug/Kg	☼	10/09/23 14:24	10/14/23 00:03	1
PCB-1248	**260**		20	4.8	ug/Kg	☼	10/09/23 14:24	10/14/23 00:03	1
PCB-1254	<6.0		20	6.0	ug/Kg	☼	10/09/23 14:24	10/14/23 00:03	1
PCB-1260	**44**		20	5.7	ug/Kg	☼	10/09/23 14:24	10/14/23 00:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*319*	*X*	*55 - 135*	*10/09/23 14:24*	*10/14/23 00:03*	*1*
Tetrachloro-m-xylene (Surr)	*108*	*p*	*55 - 135*	*10/09/23 14:24*	*10/14/23 00:03*	*1*
DCB Decachlorobiphenyl (Surr)	*110*		*63 - 138*	*10/09/23 14:24*	*10/14/23 00:03*	*1*
DCB Decachlorobiphenyl (Surr)	*144*	*X*	*63 - 138*	*10/09/23 14:24*	*10/14/23 00:03*	*1*

Client Sample ID: 20231005005 — Lab Sample ID: 180-163503-5

Date Collected: 10/05/23 13:36 — **Matrix: Solid**
Date Received: 10/06/23 08:00

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<4100		12000	4100	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
1,1,2,2-Tetrachloroethane	<3700		12000	3700	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
1,1,2-Trichloro-1,2,2-trifluoroethane	<4900		12000	4900	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
1,1,2-Trichloroethane	<2400		12000	2400	ug/Kg		10/09/23 07:15	10/09/23 14:47	25

Client Sample ID: 20231005005
Lab Sample ID: 180-163503-5
Date Collected: 10/05/23 13:36
Matrix: Solid
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<3900		12000	3900	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
1,1-Dichloroethene	<5600		12000	5600	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
1,2-Dibromo-3-Chloropropane	<8000		12000	8000	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
1,2-Dichlorobenzene	<4100		12000	4100	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
1,2-Dichloroethane	<3500		12000	3500	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
1,2-Dichloropropane	<3300		12000	3300	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
1,2,4-Trichlorobenzene	<6300	^c	12000	6300	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
1,3-Dichlorobenzene	<7600		12000	7600	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
1,4-Dichlorobenzene	<3700		12000	3700	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
2-Butanone (MEK)	<6300		62000	6300	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
2-Hexanone	<3900	^c	62000	3900	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
4-Methyl-2-pentanone (MIBK)	<4500	^c	62000	4500	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
Acetone	<9600		62000	9600	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
Benzene	<3500		12000	3500	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
Bromoform	<6200		12000	6200	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
Bromomethane	<5600		12000	5600	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
Carbon disulfide	<9900		12000	9900	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
Carbon tetrachloride	<5000		12000	5000	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
Chlorobenzene	<3200		12000	3200	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
Chlorodibromomethane	<6100		12000	6100	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
Chloroform	<8300		12000	8300	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
Chloromethane	<4900		12000	4900	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
Chloroethane	<7200		12000	7200	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
cis-1,2-Dichloroethene	<3700		12000	3700	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
cis-1,3-Dichloropropene	<5500		12000	5500	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
Dichlorobromomethane	<5800		12000	5800	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
Dichlorodifluoromethane	<6200	^c	12000	6200	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
Ethylbenzene	**19000**		12000	4600	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
1,2-Dibromoethane	<3400		12000	3400	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
Cyclohexane	<5900		12000	5900	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
Isopropylbenzene	<6400		12000	6400	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
Methyl acetate	<18000		62000	18000	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
Methyl tert-butyl ether	<3600		12000	3600	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
Methylcyclohexane	<6000		12000	6000	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
Methylene Chloride	<11000		12000	11000	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
Styrene	<3700		12000	3700	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
Tetrachloroethene	<5000		12000	5000	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
Toluene	**6600**	**J**	12000	3500	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
trans-1,2-Dichloroethene	<4300		12000	4300	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
trans-1,3-Dichloropropene	<5600		12000	5600	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
Trichloroethene	<3900		12000	3900	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
Trichlorofluoromethane	<10000		12000	10000	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
Vinyl chloride	<8900		12000	8900	ug/Kg		10/09/23 07:15	10/09/23 14:47	25
Xylenes, Total	**95000**		25000	18000	ug/Kg		10/09/23 07:15	10/09/23 14:47	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*49 - 147*	*10/09/23 07:15*	*10/09/23 14:47*	*25*
4-Bromofluorobenzene (Surr)	*85*		*54 - 119*	*10/09/23 07:15*	*10/09/23 14:47*	*25*
Dibromofluoromethane (Surr)	*91*		*57 - 126*	*10/09/23 07:15*	*10/09/23 14:47*	*25*
Toluene-d8 (Surr)	*87*		*55 - 118*	*10/09/23 07:15*	*10/09/23 14:47*	*25*

Client Sample ID: 20231005005
Lab Sample ID: 180-163503-5
Date Collected: 10/05/23 13:36
Matrix: Solid
Date Received: 10/06/23 08:00

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<3.0		5.0	3.0	ug/L			10/12/23 18:28	1
1,1,2,2-Tetrachloroethane	<3.0		5.0	3.0	ug/L			10/12/23 18:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<4.3		5.0	4.3	ug/L			10/12/23 18:28	1
1,1,2-Trichloroethane	<2.3		5.0	2.3	ug/L			10/12/23 18:28	1
1,1-Dichloroethane	<3.1		5.0	3.1	ug/L			10/12/23 18:28	1
1,1-Dichloroethene	<2.8		5.0	2.8	ug/L			10/12/23 18:28	1
1,2-Dibromo-3-Chloropropane	<4.4		5.0	4.4	ug/L			10/12/23 18:28	1
1,2-Dichlorobenzene	<1.8		5.0	1.8	ug/L			10/12/23 18:28	1
1,2-Dichloroethane	<2.9		5.0	2.9	ug/L			10/12/23 18:28	1
1,2-Dichloropropane	<3.3		5.0	3.3	ug/L			10/12/23 18:28	1
1,2,4-Trichlorobenzene	<3.9	^c	5.0	3.9	ug/L			10/12/23 18:28	1
1,3-Dichlorobenzene	<2.5		5.0	2.5	ug/L			10/12/23 18:28	1
1,4-Dichlorobenzene	<2.7		5.0	2.7	ug/L			10/12/23 18:28	1
2-Butanone (MEK)	<13		25	13	ug/L			10/12/23 18:28	1
2-Hexanone	<16		25	16	ug/L			10/12/23 18:28	1
4-Methyl-2-pentanone (MIBK)	<15	^c	25	15	ug/L			10/12/23 18:28	1
Acetone	<17	^c	25	17	ug/L			10/12/23 18:28	1
Benzene	**12**		5.0	3.0	ug/L			10/12/23 18:28	1
Bromoform	<4.9		5.0	4.9	ug/L			10/12/23 18:28	1
Bromomethane	<4.4		5.0	4.4	ug/L			10/12/23 18:28	1
Carbon disulfide	<4.4		5.0	4.4	ug/L			10/12/23 18:28	1
Carbon tetrachloride	<4.4		5.0	4.4	ug/L			10/12/23 18:28	1
Chlorobenzene	<2.5		5.0	2.5	ug/L			10/12/23 18:28	1
Chlorodibromomethane	<4.2		5.0	4.2	ug/L			10/12/23 18:28	1
Chloroform	<3.0		5.0	3.0	ug/L			10/12/23 18:28	1
Chloromethane	<4.5		5.0	4.5	ug/L			10/12/23 18:28	1
Chloroethane	<4.5		5.0	4.5	ug/L			10/12/23 18:28	1
cis-1,2-Dichloroethene	<3.5		5.0	3.5	ug/L			10/12/23 18:28	1
cis-1,3-Dichloropropene	<3.0		5.0	3.0	ug/L			10/12/23 18:28	1
Dichlorobromomethane	<3.2		5.0	3.2	ug/L			10/12/23 18:28	1
Dichlorodifluoromethane	<4.2		5.0	4.2	ug/L			10/12/23 18:28	1
1,2-Dibromoethane	<2.5		5.0	2.5	ug/L			10/12/23 18:28	1
Cyclohexane	<3.2		5.0	3.2	ug/L			10/12/23 18:28	1
Isopropylbenzene	**11**		5.0	1.7	ug/L			10/12/23 18:28	1
Methyl acetate	<8.4		25	8.4	ug/L			10/12/23 18:28	1
Methyl tert-butyl ether	<3.0		5.0	3.0	ug/L			10/12/23 18:28	1
Methylcyclohexane	<3.0		5.0	3.0	ug/L			10/12/23 18:28	1
Methylene Chloride	**9.0**		5.0	4.4	ug/L			10/12/23 18:28	1
Styrene	<2.4		5.0	2.4	ug/L			10/12/23 18:28	1
Tetrachloroethene	<2.3		5.0	2.3	ug/L			10/12/23 18:28	1
trans-1,2-Dichloroethene	<3.4		5.0	3.4	ug/L			10/12/23 18:28	1
trans-1,3-Dichloropropene	<2.9		5.0	2.9	ug/L			10/12/23 18:28	1
Trichloroethene	<3.4		5.0	3.4	ug/L			10/12/23 18:28	1
Trichlorofluoromethane	<4.4	^c	5.0	4.4	ug/L			10/12/23 18:28	1
Vinyl chloride	<2.0	^c	5.0	2.0	ug/L			10/12/23 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*67*		*52 - 151*		*10/12/23 18:28*	*1*
4-Bromofluorobenzene (Surr)	*70*		*49 - 118*		*10/12/23 18:28*	*1*
Dibromofluoromethane (Surr)	*72*		*60 - 132*		*10/12/23 18:28*	*1*

Client Sample ID: 20231005005
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Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS - SPLP (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*71*		*53 - 124*		*10/12/23 18:28*	*1*

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS - SPLP - DL

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<190		380	190	ug/L			10/13/23 20:33	75
Toluene	<170		380	170	ug/L			10/13/23 20:33	75
Xylenes, Total	**600**	**J**	750	330	ug/L			10/13/23 20:33	75

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*52 - 151*		*10/13/23 20:33*	*75*
4-Bromofluorobenzene (Surr)	*88*		*49 - 118*		*10/13/23 20:33*	*75*
Dibromofluoromethane (Surr)	*109*		*60 - 132*		*10/13/23 20:33*	*75*
Toluene-d8 (Surr)	*92*		*53 - 124*		*10/13/23 20:33*	*75*

Method: SW846 EPA 8270E - Semivolatile Organic Compounds (GC/MS) - SPLP West

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	**120**		40	5.7	ug/L		10/19/23 11:02	10/24/23 10:31	4
2,4,5-Trichlorophenol	<10		40	10	ug/L		10/19/23 11:02	10/24/23 10:31	4
2,4,6-Trichlorophenol	<9.0		40	9.0	ug/L		10/19/23 11:02	10/24/23 10:31	4
2,4-Dichlorophenol	<2.0		7.6	2.0	ug/L		10/19/23 11:02	10/24/23 10:31	4
2,4-Dimethylphenol	**33**	**J**	40	6.7	ug/L		10/19/23 11:02	10/24/23 10:31	4
2,4-Dinitrophenol	<61		400	61	ug/L		10/19/23 11:02	10/24/23 10:31	4
2,4-Dinitrotoluene	<14		40	14	ug/L		10/19/23 11:02	10/24/23 10:31	4
2,6-Dinitrotoluene	<6.9		40	6.9	ug/L		10/19/23 11:02	10/24/23 10:31	4
2-Chloronaphthalene	<2.4		7.6	2.4	ug/L		10/19/23 11:02	10/24/23 10:31	4
2-Chlorophenol	<5.2		40	5.2	ug/L		10/19/23 11:02	10/24/23 10:31	4
2-Methylnaphthalene	**1100**		7.6	2.5	ug/L		10/19/23 11:02	10/24/23 10:31	4
2-Methylphenol	<12		40	12	ug/L		10/19/23 11:02	10/24/23 10:31	4
2-Nitroaniline	<22		200	22	ug/L		10/19/23 11:02	10/24/23 10:31	4
2-Nitrophenol	<7.7		40	7.7	ug/L		10/19/23 11:02	10/24/23 10:31	4
3,3'-Dichlorobenzidine	<23		40	23	ug/L		10/19/23 11:02	10/24/23 10:31	4
3-Nitroaniline	<17		200	17	ug/L		10/19/23 11:02	10/24/23 10:31	4
4-Chlorophenyl phenyl ether	<8.8		40	8.8	ug/L		10/19/23 11:02	10/24/23 10:31	4
4,6-Dinitro-2-methylphenol	<59		200	59	ug/L		10/19/23 11:02	10/24/23 10:31	4
4-Chloro-3-methylphenol	<11		40	11	ug/L		10/19/23 11:02	10/24/23 10:31	4
4-Chloroaniline	<15		40	15	ug/L		10/19/23 11:02	10/24/23 10:31	4
Methylphenol, 3 & 4	<15		40	15	ug/L		10/19/23 11:02	10/24/23 10:31	4
4-Nitroaniline	<15		200	15	ug/L		10/19/23 11:02	10/24/23 10:31	4
4-Nitrophenol	<38		200	38	ug/L		10/19/23 11:02	10/24/23 10:31	4
Acenaphthene	**310**		7.6	2.6	ug/L		10/19/23 11:02	10/24/23 10:31	4
Acenaphthylene	**12**		7.6	2.6	ug/L		10/19/23 11:02	10/24/23 10:31	4
Acetophenone	<6.4		40	6.4	ug/L		10/19/23 11:02	10/24/23 10:31	4
Anthracene	**17**		7.6	2.0	ug/L		10/19/23 11:02	10/24/23 10:31	4
Atrazine	<25		40	25	ug/L		10/19/23 11:02	10/24/23 10:31	4
Benzaldehyde	<22		40	22	ug/L		10/19/23 11:02	10/24/23 10:31	4
Benzo[a]anthracene	<3.0		7.6	3.0	ug/L		10/19/23 11:02	10/24/23 10:31	4
Benzo[a]pyrene	<2.1		7.6	2.1	ug/L		10/19/23 11:02	10/24/23 10:31	4
Benzo[b]fluoranthene	<3.9		7.6	3.9	ug/L		10/19/23 11:02	10/24/23 10:31	4
Benzo[g,h,i]perylene	<2.8		7.6	2.8	ug/L		10/19/23 11:02	10/24/23 10:31	4
Benzo[k]fluoranthene	<3.5		7.6	3.5	ug/L		10/19/23 11:02	10/24/23 10:31	4

Client Sample ID: 20231005005
Lab Sample ID: 180-163503-5
Date Collected: 10/05/23 13:36
Matrix: Solid
Date Received: 10/06/23 08:00

Method: SW846 EPA 8270E - Semivolatile Organic Compounds (GC/MS) - SPLP West (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	<6.1		40	6.1	ug/L		10/19/23 11:02	10/24/23 10:31	4
Bis(2-chloroethyl)ether	<1.6		7.6	1.6	ug/L		10/19/23 11:02	10/24/23 10:31	4
Bis(2-ethylhexyl) phthalate	<250		400	250	ug/L		10/19/23 11:02	10/24/23 10:31	4
Butyl benzyl phthalate	<18		40	18	ug/L		10/19/23 11:02	10/24/23 10:31	4
Caprolactam	<19		200	19	ug/L		10/19/23 11:02	10/24/23 10:31	4
Carbazole	**200**		7.6	2.0	ug/L		10/19/23 11:02	10/24/23 10:31	4
Chrysene	<3.2		7.6	3.2	ug/L		10/19/23 11:02	10/24/23 10:31	4
Dibenz(a,h)anthracene	<2.9		7.6	2.9	ug/L		10/19/23 11:02	10/24/23 10:31	4
Dibenzofuran	**190**		40	7.6	ug/L		10/19/23 11:02	10/24/23 10:31	4
Diethyl phthalate	<23		40	23	ug/L		10/19/23 11:02	10/24/23 10:31	4
Dimethyl phthalate	<8.0		40	8.0	ug/L		10/19/23 11:02	10/24/23 10:31	4
Di-n-butyl phthalate	<30		40	30	ug/L		10/19/23 11:02	10/24/23 10:31	4
Di-n-octyl phthalate	<27		40	27	ug/L		10/19/23 11:02	10/24/23 10:31	4
Fluoranthene	**17**		7.6	2.4	ug/L		10/19/23 11:02	10/24/23 10:31	4
Fluorene	**150**		7.6	2.8	ug/L		10/19/23 11:02	10/24/23 10:31	4
Hexachlorobenzene	<2.2		7.6	2.2	ug/L		10/19/23 11:02	10/24/23 10:31	4
Hexachlorobutadiene	<2.8		7.6	2.8	ug/L		10/19/23 11:02	10/24/23 10:31	4
Hexachlorocyclopentadiene	<20		40	20	ug/L		10/19/23 11:02	10/24/23 10:31	4
Hexachloroethane	<5.3		40	5.3	ug/L		10/19/23 11:02	10/24/23 10:31	4
Indeno[1,2,3-cd]pyrene	<3.4		7.6	3.4	ug/L		10/19/23 11:02	10/24/23 10:31	4
Isophorone	<7.5		40	7.5	ug/L		10/19/23 11:02	10/24/23 10:31	4
Naphthalene	**4200**	**E**	7.6	2.4	ug/L		10/19/23 11:02	10/24/23 10:31	4
Nitrobenzene	<20		80	20	ug/L		10/19/23 11:02	10/24/23 10:31	4
N-Nitrosodi-n-propylamine	<2.8		7.6	2.8	ug/L		10/19/23 11:02	10/24/23 10:31	4
N-Nitrosodiphenylamine	<4.8		40	4.8	ug/L		10/19/23 11:02	10/24/23 10:31	4
Pentachlorophenol	<34		200	34	ug/L		10/19/23 11:02	10/24/23 10:31	4
Phenanthrene	**140**		7.6	2.2	ug/L		10/19/23 11:02	10/24/23 10:31	4
Phenol	<19		40	19	ug/L		10/19/23 11:02	10/24/23 10:31	4
Pyrene	**11**		7.6	2.2	ug/L		10/19/23 11:02	10/24/23 10:31	4
2,2'-oxybis[1-chloropropane]	<2.3		7.6	2.3	ug/L		10/19/23 11:02	10/24/23 10:31	4
4-Bromophenyl phenyl ether	<13		40	13	ug/L		10/19/23 11:02	10/24/23 10:31	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*71*		*39 - 121*	*10/19/23 11:02*	*10/24/23 10:31*	*4*
2-Fluorobiphenyl	*75*		*45 - 105*	*10/19/23 11:02*	*10/24/23 10:31*	*4*
2-Fluorophenol (Surr)	*67*		*38 - 105*	*10/19/23 11:02*	*10/24/23 10:31*	*4*
Nitrobenzene-d5 (Surr)	*77*		*45 - 106*	*10/19/23 11:02*	*10/24/23 10:31*	*4*
Phenol-d5 (Surr)	*74*		*38 - 105*	*10/19/23 11:02*	*10/24/23 10:31*	*4*
Terphenyl-d14 (Surr)	*82*		*28 - 125*	*10/19/23 11:02*	*10/24/23 10:31*	*4*

Method: SW846 EPA 8270E - Semivolatile Organic Compounds (GC/MS) - SPLP West - DL

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	**100**	**J**	500	71	ug/L		10/19/23 11:02	10/25/23 20:25	50
2,4,5-Trichlorophenol	<130		500	130	ug/L		10/19/23 11:02	10/25/23 20:25	50
2,4,6-Trichlorophenol	<110		500	110	ug/L		10/19/23 11:02	10/25/23 20:25	50
2,4-Dichlorophenol	<26		95	26	ug/L		10/19/23 11:02	10/25/23 20:25	50
2,4-Dimethylphenol	<84		500	84	ug/L		10/19/23 11:02	10/25/23 20:25	50
2,4-Dinitrophenol	<770		5000	770	ug/L		10/19/23 11:02	10/25/23 20:25	50
2,4-Dinitrotoluene	<180		500	180	ug/L		10/19/23 11:02	10/25/23 20:25	50
2,6-Dinitrotoluene	<87		500	87	ug/L		10/19/23 11:02	10/25/23 20:25	50

Client Sample ID: 20231005005
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Method: SW846 EPA 8270E - Semivolatile Organic Compounds (GC/MS) - SPLP West - DL (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	<30		95	30	ug/L		10/19/23 11:02	10/25/23 20:25	50
2-Chlorophenol	<65		500	65	ug/L		10/19/23 11:02	10/25/23 20:25	50
2-Methylnaphthalene	**890**		95	31	ug/L		10/19/23 11:02	10/25/23 20:25	50
2-Methylphenol	<150		500	150	ug/L		10/19/23 11:02	10/25/23 20:25	50
2-Nitroaniline	<270		2500	270	ug/L		10/19/23 11:02	10/25/23 20:25	50
2-Nitrophenol	<97		500	97	ug/L		10/19/23 11:02	10/25/23 20:25	50
3,3'-Dichlorobenzidine	<290		500	290	ug/L		10/19/23 11:02	10/25/23 20:25	50
3-Nitroaniline	<220		2500	220	ug/L		10/19/23 11:02	10/25/23 20:25	50
4-Chlorophenyl phenyl ether	<110		500	110	ug/L		10/19/23 11:02	10/25/23 20:25	50
4,6-Dinitro-2-methylphenol	<740		2500	740	ug/L		10/19/23 11:02	10/25/23 20:25	50
4-Chloro-3-methylphenol	<140		500	140	ug/L		10/19/23 11:02	10/25/23 20:25	50
4-Chloroaniline	<190		500	190	ug/L		10/19/23 11:02	10/25/23 20:25	50
Methylphenol, 3 & 4	<190		500	190	ug/L		10/19/23 11:02	10/25/23 20:25	50
4-Nitroaniline	<180		2500	180	ug/L		10/19/23 11:02	10/25/23 20:25	50
4-Nitrophenol	<470		2500	470	ug/L		10/19/23 11:02	10/25/23 20:25	50
Acenaphthene	**250**		95	33	ug/L		10/19/23 11:02	10/25/23 20:25	50
Acenaphthylene	<33		95	33	ug/L		10/19/23 11:02	10/25/23 20:25	50
Acetophenone	<80		500	80	ug/L		10/19/23 11:02	10/25/23 20:25	50
Anthracene	<25		95	25	ug/L		10/19/23 11:02	10/25/23 20:25	50
Atrazine	<320		500	320	ug/L		10/19/23 11:02	10/25/23 20:25	50
Benzaldehyde	<270		500	270	ug/L		10/19/23 11:02	10/25/23 20:25	50
Benzo[a]anthracene	<38		95	38	ug/L		10/19/23 11:02	10/25/23 20:25	50
Benzo[a]pyrene	<27		95	27	ug/L		10/19/23 11:02	10/25/23 20:25	50
Benzo[b]fluoranthene	<49		95	49	ug/L		10/19/23 11:02	10/25/23 20:25	50
Benzo[g,h,i]perylene	<35		95	35	ug/L		10/19/23 11:02	10/25/23 20:25	50
Benzo[k]fluoranthene	<44		95	44	ug/L		10/19/23 11:02	10/25/23 20:25	50
Bis(2-chloroethoxy)methane	<76		500	76	ug/L		10/19/23 11:02	10/25/23 20:25	50
Bis(2-chloroethyl)ether	<20		95	20	ug/L		10/19/23 11:02	10/25/23 20:25	50
Bis(2-ethylhexyl) phthalate	<3100		5000	3100	ug/L		10/19/23 11:02	10/25/23 20:25	50
Butyl benzyl phthalate	<230		500	230	ug/L		10/19/23 11:02	10/25/23 20:25	50
Caprolactam	<240		2500	240	ug/L		10/19/23 11:02	10/25/23 20:25	50
Carbazole	**150**		95	26	ug/L		10/19/23 11:02	10/25/23 20:25	50
Chrysene	<41		95	41	ug/L		10/19/23 11:02	10/25/23 20:25	50
Dibenz(a,h)anthracene	<36		95	36	ug/L		10/19/23 11:02	10/25/23 20:25	50
Dibenzofuran	**170**	**J**	500	95	ug/L		10/19/23 11:02	10/25/23 20:25	50
Diethyl phthalate	<280		500	280	ug/L		10/19/23 11:02	10/25/23 20:25	50
Dimethyl phthalate	<100		500	100	ug/L		10/19/23 11:02	10/25/23 20:25	50
Di-n-butyl phthalate	<370		500	370	ug/L		10/19/23 11:02	10/25/23 20:25	50
Di-n-octyl phthalate	<340		500	340	ug/L		10/19/23 11:02	10/25/23 20:25	50
Fluoranthene	<30		95	30	ug/L		10/19/23 11:02	10/25/23 20:25	50
Fluorene	**150**		95	35	ug/L		10/19/23 11:02	10/25/23 20:25	50
Hexachlorobenzene	<28		95	28	ug/L		10/19/23 11:02	10/25/23 20:25	50
Hexachlorobutadiene	<35		95	35	ug/L		10/19/23 11:02	10/25/23 20:25	50
Hexachlorocyclopentadiene	<250		500	250	ug/L		10/19/23 11:02	10/25/23 20:25	50
Hexachloroethane	<67		500	67	ug/L		10/19/23 11:02	10/25/23 20:25	50
Indeno[1,2,3-cd]pyrene	<43		95	43	ug/L		10/19/23 11:02	10/25/23 20:25	50
Isophorone	<94		500	94	ug/L		10/19/23 11:02	10/25/23 20:25	50
Naphthalene	**6300**		95	30	ug/L		10/19/23 11:02	10/25/23 20:25	50
Nitrobenzene	<250		1000	250	ug/L		10/19/23 11:02	10/25/23 20:25	50

Client Sample ID: 20231005005 — Lab Sample ID: 180-163503-5

Date Collected: 10/05/23 13:36 — **Matrix: Solid**
Date Received: 10/06/23 08:00

Method: SW846 EPA 8270E - Semivolatile Organic Compounds (GC/MS) - SPLP West - DL (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<36		95	36	ug/L		10/19/23 11:02	10/25/23 20:25	50
N-Nitrosodiphenylamine	<60		500	60	ug/L		10/19/23 11:02	10/25/23 20:25	50
Pentachlorophenol	<420		2500	420	ug/L		10/19/23 11:02	10/25/23 20:25	50
Phenanthrene	**120**		95	28	ug/L		10/19/23 11:02	10/25/23 20:25	50
Phenol	<240		500	240	ug/L		10/19/23 11:02	10/25/23 20:25	50
Pyrene	<27		95	27	ug/L		10/19/23 11:02	10/25/23 20:25	50
2,2'-oxybis[1-chloropropane]	<29		95	29	ug/L		10/19/23 11:02	10/25/23 20:25	50
4-Bromophenyl phenyl ether	<160		500	160	ug/L		10/19/23 11:02	10/25/23 20:25	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*0*	*X D*	*39 - 121*	*10/19/23 11:02*	*10/25/23 20:25*	*50*
2-Fluorobiphenyl	*0*	*X D*	*45 - 105*	*10/19/23 11:02*	*10/25/23 20:25*	*50*
2-Fluorophenol (Surr)	*0*	*X D*	*38 - 105*	*10/19/23 11:02*	*10/25/23 20:25*	*50*
Nitrobenzene-d5 (Surr)	*0*	*X D*	*45 - 106*	*10/19/23 11:02*	*10/25/23 20:25*	*50*
Phenol-d5 (Surr)	*0*	*X D*	*38 - 105*	*10/19/23 11:02*	*10/25/23 20:25*	*50*
Terphenyl-d14 (Surr)	*0*	*X D*	*28 - 125*	*10/19/23 11:02*	*10/25/23 20:25*	*50*

Method: SW846 EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - SPLP West

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.19		0.40	0.19	ug/L		10/13/23 00:15	10/16/23 08:11	1
PCB-1221	<0.23		0.40	0.23	ug/L		10/13/23 00:15	10/16/23 08:11	1
PCB-1232	<0.21		0.40	0.21	ug/L		10/13/23 00:15	10/16/23 08:11	1
PCB-1242	<0.14		0.40	0.14	ug/L		10/13/23 00:15	10/16/23 08:11	1
PCB-1248	<0.32		0.40	0.32	ug/L		10/13/23 00:15	10/16/23 08:11	1
PCB-1254	<0.18		0.40	0.18	ug/L		10/13/23 00:15	10/16/23 08:11	1
PCB-1260	<0.16		0.40	0.16	ug/L		10/13/23 00:15	10/16/23 08:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*114*		*57 - 134*	*10/13/23 00:15*	*10/16/23 08:11*	*1*
Tetrachloro-m-xylene (Surr)	*97*		*57 - 134*	*10/13/23 00:15*	*10/16/23 08:11*	*1*
DCB Decachlorobiphenyl (Surr)	*113*		*68 - 150*	*10/13/23 00:15*	*10/16/23 08:11*	*1*
DCB Decachlorobiphenyl (Surr)	*106*		*68 - 150*	*10/13/23 00:15*	*10/16/23 08:11*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM22 2540G)	**14.2**		0.1	0.1	%			10/09/23 14:21	1

Client Sample ID: 20231005005 — Lab Sample ID: 180-163503-5

Date Collected: 10/05/23 13:36 — **Matrix: Solid**
Date Received: 10/06/23 08:00 — **Percent Solids: 85.8**

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	**26000**	**E**	380	140	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
2,2'-oxybis[1-chloropropane]	<29		78	29	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
2,4,5-Trichlorophenol	<130		380	130	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
2,4,6-Trichlorophenol	<130		380	130	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
2,4-Dichlorophenol	<30		78	30	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
2,4-Dimethylphenol	<130		380	130	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
2,4-Dinitrophenol	<2400		3800	2400	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
2,4-Dinitrotoluene	<230		380	230	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1

Client Sample ID: 20231005005
Lab Sample ID: 180-163503-5
Date Collected: 10/05/23 13:36
Matrix: Solid
Date Received: 10/06/23 08:00
Percent Solids: 85.8

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	<150		380	150	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
2-Chloronaphthalene	<18		78	18	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
2-Chlorophenol	<140		380	140	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
2-Methylnaphthalene	**99000**	**E**	78	19	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
2-Methylphenol	<110		380	110	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
2-Nitroaniline	<180		2000	180	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
2-Nitrophenol	<140		380	140	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
3,3'-Dichlorobenzidine	<360		380	360	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
3-Nitroaniline	<98		2000	98	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
4,6-Dinitro-2-methylphenol	<670		2000	670	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
4-Bromophenyl phenyl ether	<160		380	160	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
4-Chloro-3-methylphenol	<140		380	140	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
4-Chloroaniline	<100		380	100	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
4-Chlorophenyl phenyl ether	<130		380	130	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Methylphenol, 3 & 4	**130**	**J**	380	110	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
4-Nitroaniline	<140		2000	140	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
4-Nitrophenol	<270		2000	270	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Acenaphthene	**69000**	**E**	78	22	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Acenaphthylene	**4600**		78	17	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Acetophenone	<140		780	140	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Anthracene	**32000**	**E**	78	20	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Atrazine	<170		780	170	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Benzaldehyde	<48		780	48	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Benzo[a]anthracene	**33000**	**E**	78	35	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Benzo[a]pyrene	**22000**	**E**	78	33	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Benzo[b]fluoranthene	**27000**	**E**	78	19	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Benzo[g,h,i]perylene	**11000**		78	17	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Benzo[k]fluoranthene	**8600**		78	23	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Bis(2-chloroethoxy)methane	<140	^c	380	140	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Bis(2-chloroethyl)ether	<14		78	14	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Bis(2-ethylhexyl) phthalate	<410		3800	410	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Butyl benzyl phthalate	<270		380	270	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Caprolactam	<250		2000	250	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Carbazole	**9800**		78	18	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Chrysene	**26000**	**E**	78	43	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Dibenz(a,h)anthracene	**3400**		78	49	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Dibenzofuran	**46000**	**E**	380	140	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Diethyl phthalate	<140		380	140	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Dimethyl phthalate	<150		380	150	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Di-n-butyl phthalate	<170		380	170	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Di-n-octyl phthalate	<220		380	220	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Fluoranthene	**65000**	**E**	78	20	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Fluorene	**61000**	**E**	78	15	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Hexachlorobenzene	<28		78	28	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Hexachlorobutadiene	<23		78	23	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Hexachlorocyclopentadiene	<39		380	39	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Hexachloroethane	<140		380	140	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Indeno[1,2,3-cd]pyrene	**10000**		78	38	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Isophorone	<140		380	140	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1

Client Sample ID: 20231005005
Lab Sample ID: 180-163503-5
Date Collected: 10/05/23 13:36
Matrix: Solid
Date Received: 10/06/23 08:00
Percent Solids: 85.8

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**100000**	**E**	78	15	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Nitrobenzene	<140		780	140	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
N-Nitrosodi-n-propylamine	<26		78	26	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
N-Nitrosodiphenylamine	<130		380	130	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Pentachlorophenol	<620		2000	620	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Phenanthrene	**82000**	**E**	78	21	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Phenol	<120		380	120	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1
Pyrene	**57000**	**E**	78	18	ug/Kg	☼	10/16/23 09:47	10/17/23 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*34 - 108*	*10/16/23 09:47*	*10/17/23 16:43*	*1*
2-Fluorobiphenyl	*73*		*44 - 105*	*10/16/23 09:47*	*10/17/23 16:43*	*1*
2-Fluorophenol (Surr)	*82*		*48 - 105*	*10/16/23 09:47*	*10/17/23 16:43*	*1*
Nitrobenzene-d5 (Surr)	*79*		*46 - 105*	*10/16/23 09:47*	*10/17/23 16:43*	*1*
Phenol-d5 (Surr)	*80*		*46 - 105*	*10/16/23 09:47*	*10/17/23 16:43*	*1*
Terphenyl-d14 (Surr)	*72*		*39 - 105*	*10/16/23 09:47*	*10/17/23 16:43*	*1*

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	**20000**	**J**	38000	14000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
2,2'-oxybis[1-chloropropane]	<2900		7800	2900	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
2,4,5-Trichlorophenol	<13000		38000	13000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
2,4,6-Trichlorophenol	<13000		38000	13000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
2,4-Dichlorophenol	<3000		7800	3000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
2,4-Dimethylphenol	<13000		38000	13000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
2,4-Dinitrophenol	<240000		380000	240000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
2,4-Dinitrotoluene	<23000		38000	23000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
2,6-Dinitrotoluene	<15000		38000	15000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
2-Chloronaphthalene	<1800		7800	1800	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
2-Chlorophenol	<14000		38000	14000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
2-Methylnaphthalene	**110000**		7800	1900	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
2-Methylphenol	<11000		38000	11000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
2-Nitroaniline	<18000		200000	18000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
2-Nitrophenol	<14000		38000	14000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
3,3'-Dichlorobenzidine	<36000		38000	36000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
3-Nitroaniline	<9800		200000	9800	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
4,6-Dinitro-2-methylphenol	<67000		200000	67000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
4-Bromophenyl phenyl ether	<16000		38000	16000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
4-Chloro-3-methylphenol	<14000		38000	14000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
4-Chloroaniline	<10000		38000	10000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
4-Chlorophenyl phenyl ether	<13000		38000	13000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Methylphenol, 3 & 4	<11000		38000	11000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
4-Nitroaniline	<14000		200000	14000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
4-Nitrophenol	<27000		200000	27000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Acenaphthene	**58000**		7800	2200	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Acenaphthylene	**3100**	**J**	7800	1700	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Acetophenone	<14000		78000	14000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Anthracene	**25000**		7800	2000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Atrazine	<17000		78000	17000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Benzaldehyde	<4800		78000	4800	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100

Client Sample ID: 20231005005
Lab Sample ID: 180-163503-5
Date Collected: 10/05/23 13:36
Matrix: Solid
Date Received: 10/06/23 08:00
Percent Solids: 85.8

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**29000**		7800	3500	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Benzo[a]pyrene	**20000**		7800	3300	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Benzo[b]fluoranthene	**21000**		7800	1900	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Benzo[g,h,i]perylene	**7000**	**J**	7800	1700	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Benzo[k]fluoranthene	**9400**		7800	2300	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Bis(2-chloroethoxy)methane	<14000		38000	14000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Bis(2-chloroethyl)ether	<1400		7800	1400	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Bis(2-ethylhexyl) phthalate	<41000		380000	41000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Butyl benzyl phthalate	<27000		38000	27000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Caprolactam	<25000		200000	25000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Carbazole	**7700**	**J**	7800	1800	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Chrysene	**23000**		7800	4300	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Dibenz(a,h)anthracene	<4900		7800	4900	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Dibenzofuran	**44000**		38000	14000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Diethyl phthalate	<14000		38000	14000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Dimethyl phthalate	<15000		38000	15000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Di-n-butyl phthalate	<17000		38000	17000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Di-n-octyl phthalate	<22000		38000	22000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Fluoranthene	**89000**		7800	2000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Fluorene	**49000**		7800	1500	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Hexachlorobenzene	<2800		7800	2800	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Hexachlorobutadiene	<2300		7800	2300	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Hexachlorocyclopentadiene	<3900		38000	3900	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Hexachloroethane	<14000		38000	14000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Indeno[1,2,3-cd]pyrene	**8000**		7800	3800	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Isophorone	<14000		38000	14000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Naphthalene	**280000**		7800	1500	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Nitrobenzene	<14000		78000	14000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
N-Nitrosodi-n-propylamine	<2600		7800	2600	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
N-Nitrosodiphenylamine	<13000		38000	13000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Pentachlorophenol	<62000		200000	62000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Phenanthrene	**140000**		7800	2100	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Phenol	<12000		38000	12000	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100
Pyrene	**74000**		7800	1800	ug/Kg	☼	10/16/23 09:47	10/18/23 16:14	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*0*	*X D*	*34 - 108*	*10/16/23 09:47*	*10/18/23 16:14*	*100*
2-Fluorobiphenyl	*0*	*X D*	*44 - 105*	*10/16/23 09:47*	*10/18/23 16:14*	*100*
2-Fluorophenol (Surr)	*0*	*X D*	*48 - 105*	*10/16/23 09:47*	*10/18/23 16:14*	*100*
Nitrobenzene-d5 (Surr)	*0*	*X D*	*46 - 105*	*10/16/23 09:47*	*10/18/23 16:14*	*100*
Phenol-d5 (Surr)	*0*	*X D*	*46 - 105*	*10/16/23 09:47*	*10/18/23 16:14*	*100*
Terphenyl-d14 (Surr)	*0*	*X D*	*39 - 105*	*10/16/23 09:47*	*10/18/23 16:14*	*100*

Method: SW846 EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.2		19	6.2	ug/Kg	☼	10/09/23 14:24	10/11/23 03:42	1
PCB-1221	<6.7		19	6.7	ug/Kg	☼	10/09/23 14:24	10/11/23 03:42	1
PCB-1232	<4.6		19	4.6	ug/Kg	☼	10/09/23 14:24	10/11/23 03:42	1
PCB-1242	<2.8		19	2.8	ug/Kg	☼	10/09/23 14:24	10/11/23 03:42	1
PCB-1248	<4.6		19	4.6	ug/Kg	☼	10/09/23 14:24	10/11/23 03:42	1

Client Sample ID: 20231005005
Lab Sample ID: 180-163503-5
Date Collected: 10/05/23 13:36
Matrix: Solid
Date Received: 10/06/23 08:00
Percent Solids: 85.8

Method: SW846 EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	<5.7		19	5.7	ug/Kg	☼	10/09/23 14:24	10/11/23 03:42	1
PCB-1260	<5.4		19	5.4	ug/Kg	☼	10/09/23 14:24	10/11/23 03:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*89*		*55 - 135*	*10/09/23 14:24*	*10/11/23 03:42*	*1*
Tetrachloro-m-xylene (Surr)	*94*		*55 - 135*	*10/09/23 14:24*	*10/11/23 03:42*	*1*
DCB Decachlorobiphenyl (Surr)	*110*		*63 - 138*	*10/09/23 14:24*	*10/11/23 03:42*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*63 - 138*	*10/09/23 14:24*	*10/11/23 03:42*	*1*

Client Sample ID: 20231005006
Lab Sample ID: 180-163503-6
Date Collected: 10/05/23 13:52
Matrix: Solid
Date Received: 10/06/23 08:00

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<4500		13000	4500	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
1,1,2,2-Tetrachloroethane	<4100		13000	4100	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
1,1,2-Trichloro-1,2,2-trifluoroethane	<5400		13000	5400	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
1,1,2-Trichloroethane	<2600		13000	2600	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
1,1-Dichloroethane	<4300		13000	4300	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
1,1-Dichloroethene	<6000		13000	6000	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
1,2-Dibromo-3-Chloropropane	<8700		13000	8700	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
1,2-Dichlorobenzene	<4500		13000	4500	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
1,2-Dichloroethane	<3900		13000	3900	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
1,2-Dichloropropane	<3600		13000	3600	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
1,2,4-Trichlorobenzene	<6800	^c	13000	6800	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
1,3-Dichlorobenzene	<8200		13000	8200	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
1,4-Dichlorobenzene	<4000		13000	4000	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
2-Butanone (MEK)	<6800		67000	6800	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
2-Hexanone	<4200	^c	67000	4200	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
4-Methyl-2-pentanone (MIBK)	<4900	^c	67000	4900	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
Acetone	<10000		67000	10000	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
Benzene	<3800		13000	3800	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
Bromoform	<6700		13000	6700	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
Bromomethane	<6100		13000	6100	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
Carbon disulfide	<11000		13000	11000	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
Carbon tetrachloride	<5500		13000	5500	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
Chlorobenzene	<3500		13000	3500	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
Chlorodibromomethane	<6600		13000	6600	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
Chloroform	<9000		13000	9000	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
Chloromethane	<5300		13000	5300	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
Chloroethane	<7800		13000	7800	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
cis-1,2-Dichloroethene	<4000		13000	4000	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
cis-1,3-Dichloropropene	<5900		13000	5900	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
Dichlorobromomethane	<6300		13000	6300	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
Dichlorodifluoromethane	<6700	^c	13000	6700	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
Ethylbenzene	**9700**	**J**	13000	5000	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
1,2-Dibromoethane	<3700		13000	3700	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
Cyclohexane	<6400		13000	6400	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
Isopropylbenzene	<7000		13000	7000	ug/Kg		10/09/23 07:15	10/09/23 14:26	25

Client Sample ID: 20231005006
Lab Sample ID: 180-163503-6
Date Collected: 10/05/23 13:52
Matrix: Solid
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	<20000		67000	20000	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
Methyl tert-butyl ether	<3900		13000	3900	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
Methylcyclohexane	<6500		13000	6500	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
Methylene Chloride	<12000		13000	12000	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
Styrene	<4000		13000	4000	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
Tetrachloroethene	<5400		13000	5400	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
Toluene	**8000**	**J**	13000	3900	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
trans-1,2-Dichloroethene	<4700		13000	4700	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
trans-1,3-Dichloropropene	<6000		13000	6000	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
Trichloroethene	<4200		13000	4200	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
Trichlorofluoromethane	<11000		13000	11000	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
Vinyl chloride	<9600		13000	9600	ug/Kg		10/09/23 07:15	10/09/23 14:26	25
Xylenes, Total	**36000**		27000	19000	ug/Kg		10/09/23 07:15	10/09/23 14:26	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*76*		*49 - 147*	*10/09/23 07:15*	*10/09/23 14:26*	*25*
4-Bromofluorobenzene (Surr)	*73*		*54 - 119*	*10/09/23 07:15*	*10/09/23 14:26*	*25*
Dibromofluoromethane (Surr)	*79*		*57 - 126*	*10/09/23 07:15*	*10/09/23 14:26*	*25*
Toluene-d8 (Surr)	*74*		*55 - 118*	*10/09/23 07:15*	*10/09/23 14:26*	*25*

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<3.0		5.0	3.0	ug/L			10/12/23 18:49	1
1,1,2,2-Tetrachloroethane	<3.0		5.0	3.0	ug/L			10/12/23 18:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<4.3		5.0	4.3	ug/L			10/12/23 18:49	1
1,1,2-Trichloroethane	<2.3		5.0	2.3	ug/L			10/12/23 18:49	1
1,1-Dichloroethane	<3.1		5.0	3.1	ug/L			10/12/23 18:49	1
1,1-Dichloroethene	<2.8		5.0	2.8	ug/L			10/12/23 18:49	1
1,2-Dibromo-3-Chloropropane	<4.4		5.0	4.4	ug/L			10/12/23 18:49	1
1,2-Dichlorobenzene	<1.8		5.0	1.8	ug/L			10/12/23 18:49	1
1,2-Dichloroethane	<2.9		5.0	2.9	ug/L			10/12/23 18:49	1
1,2-Dichloropropane	<3.3		5.0	3.3	ug/L			10/12/23 18:49	1
1,2,4-Trichlorobenzene	<3.9	^c	5.0	3.9	ug/L			10/12/23 18:49	1
1,3-Dichlorobenzene	<2.5		5.0	2.5	ug/L			10/12/23 18:49	1
1,4-Dichlorobenzene	<2.7		5.0	2.7	ug/L			10/12/23 18:49	1
2-Butanone (MEK)	<13		25	13	ug/L			10/12/23 18:49	1
2-Hexanone	<16		25	16	ug/L			10/12/23 18:49	1
4-Methyl-2-pentanone (MIBK)	<15	^c	25	15	ug/L			10/12/23 18:49	1
Acetone	<17	^c	25	17	ug/L			10/12/23 18:49	1
Bromoform	<4.9		5.0	4.9	ug/L			10/12/23 18:49	1
Bromomethane	<4.4		5.0	4.4	ug/L			10/12/23 18:49	1
Carbon disulfide	<4.4		5.0	4.4	ug/L			10/12/23 18:49	1
Carbon tetrachloride	<4.4		5.0	4.4	ug/L			10/12/23 18:49	1
Chlorobenzene	<2.5		5.0	2.5	ug/L			10/12/23 18:49	1
Chlorodibromomethane	<4.2		5.0	4.2	ug/L			10/12/23 18:49	1
Chloroform	<3.0		5.0	3.0	ug/L			10/12/23 18:49	1
Chloromethane	<4.5		5.0	4.5	ug/L			10/12/23 18:49	1
Chloroethane	<4.5		5.0	4.5	ug/L			10/12/23 18:49	1
cis-1,2-Dichloroethene	<3.5		5.0	3.5	ug/L			10/12/23 18:49	1
cis-1,3-Dichloropropene	<3.0		5.0	3.0	ug/L			10/12/23 18:49	1

Client: Tetra Tech, Inc.
Job ID: 180-163503-1
Project/Site: WI ISS Treatability Study REVISED

Client Sample ID: 20231005006
Lab Sample ID: 180-163503-6
Date Collected: 10/05/23 13:52
Matrix: Solid
Date Received: 10/06/23 08:00

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS - SPLP (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	<3.2		5.0	3.2	ug/L			10/12/23 18:49	1
Dichlorodifluoromethane	<4.2		5.0	4.2	ug/L			10/12/23 18:49	1
1,2-Dibromoethane	<2.5		5.0	2.5	ug/L			10/12/23 18:49	1
Cyclohexane	<3.2		5.0	3.2	ug/L			10/12/23 18:49	1
Isopropylbenzene	**24**		5.0	1.7	ug/L			10/12/23 18:49	1
Methyl acetate	<8.4		25	8.4	ug/L			10/12/23 18:49	1
Methyl tert-butyl ether	<3.0		5.0	3.0	ug/L			10/12/23 18:49	1
Methylcyclohexane	<3.0		5.0	3.0	ug/L			10/12/23 18:49	1
Methylene Chloride	**15**		5.0	4.4	ug/L			10/12/23 18:49	1
Tetrachloroethene	<2.3		5.0	2.3	ug/L			10/12/23 18:49	1
trans-1,2-Dichloroethene	<3.4		5.0	3.4	ug/L			10/12/23 18:49	1
trans-1,3-Dichloropropene	<2.9		5.0	2.9	ug/L			10/12/23 18:49	1
Trichloroethene	<3.4		5.0	3.4	ug/L			10/12/23 18:49	1
Trichlorofluoromethane	<4.4	^c	5.0	4.4	ug/L			10/12/23 18:49	1
Vinyl chloride	<2.0	^c	5.0	2.0	ug/L			10/12/23 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*67*		*52 - 151*		*10/12/23 18:49*	*1*
4-Bromofluorobenzene (Surr)	*70*		*49 - 118*		*10/12/23 18:49*	*1*
Dibromofluoromethane (Surr)	*70*		*60 - 132*		*10/12/23 18:49*	*1*
Toluene-d8 (Surr)	*72*		*53 - 124*		*10/12/23 18:49*	*1*

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS - SPLP - DL

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<180		300	180	ug/L			10/13/23 20:54	60
Ethylbenzene	<150		300	150	ug/L			10/13/23 20:54	60
Styrene	<140		300	140	ug/L			10/13/23 20:54	60
Toluene	**180**	**J**	300	140	ug/L			10/13/23 20:54	60
Xylenes, Total	**440**	**J**	600	270	ug/L			10/13/23 20:54	60

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*52 - 151*		*10/13/23 20:54*	*60*
4-Bromofluorobenzene (Surr)	*82*		*49 - 118*		*10/13/23 20:54*	*60*
Dibromofluoromethane (Surr)	*96*		*60 - 132*		*10/13/23 20:54*	*60*
Toluene-d8 (Surr)	*84*		*53 - 124*		*10/13/23 20:54*	*60*

Method: SW846 EPA 8270E - Semivolatile Organic Compounds (GC/MS) - SPLP West

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	**55**		40	5.7	ug/L		10/19/23 11:02	10/24/23 10:53	4
2,4,5-Trichlorophenol	<10		40	10	ug/L		10/19/23 11:02	10/24/23 10:53	4
2,4,6-Trichlorophenol	<9.0		40	9.0	ug/L		10/19/23 11:02	10/24/23 10:53	4
2,4-Dichlorophenol	<2.0		7.6	2.0	ug/L		10/19/23 11:02	10/24/23 10:53	4
2,4-Dimethylphenol	**58**		40	6.7	ug/L		10/19/23 11:02	10/24/23 10:53	4
2,4-Dinitrophenol	<61		400	61	ug/L		10/19/23 11:02	10/24/23 10:53	4
2,4-Dinitrotoluene	<14		40	14	ug/L		10/19/23 11:02	10/24/23 10:53	4
2,6-Dinitrotoluene	<6.9		40	6.9	ug/L		10/19/23 11:02	10/24/23 10:53	4
2-Chloronaphthalene	<2.4		7.6	2.4	ug/L		10/19/23 11:02	10/24/23 10:53	4
2-Chlorophenol	<5.2		40	5.2	ug/L		10/19/23 11:02	10/24/23 10:53	4
2-Methylnaphthalene	**500**		7.6	2.5	ug/L		10/19/23 11:02	10/24/23 10:53	4
2-Methylphenol	**17**	**J**	40	12	ug/L		10/19/23 11:02	10/24/23 10:53	4

Client Sample ID: 20231005006
Lab Sample ID: 180-163503-6
Date Collected: 10/05/23 13:52
Matrix: Solid
Date Received: 10/06/23 08:00

Method: SW846 EPA 8270E - Semivolatile Organic Compounds (GC/MS) - SPLP West (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<22		200	22	ug/L		10/19/23 11:02	10/24/23 10:53	4
2-Nitrophenol	<7.7		40	7.7	ug/L		10/19/23 11:02	10/24/23 10:53	4
3,3'-Dichlorobenzidine	<23		40	23	ug/L		10/19/23 11:02	10/24/23 10:53	4
3-Nitroaniline	<17		200	17	ug/L		10/19/23 11:02	10/24/23 10:53	4
4-Chlorophenyl phenyl ether	<8.8		40	8.8	ug/L		10/19/23 11:02	10/24/23 10:53	4
4,6-Dinitro-2-methylphenol	<59		200	59	ug/L		10/19/23 11:02	10/24/23 10:53	4
4-Chloro-3-methylphenol	<11		40	11	ug/L		10/19/23 11:02	10/24/23 10:53	4
4-Chloroaniline	<15		40	15	ug/L		10/19/23 11:02	10/24/23 10:53	4
Methylphenol, 3 & 4	**29**	**J**	40	15	ug/L		10/19/23 11:02	10/24/23 10:53	4
4-Nitroaniline	<15		200	15	ug/L		10/19/23 11:02	10/24/23 10:53	4
4-Nitrophenol	<38		200	38	ug/L		10/19/23 11:02	10/24/23 10:53	4
Acenaphthene	**180**		7.6	2.6	ug/L		10/19/23 11:02	10/24/23 10:53	4
Acenaphthylene	**81**		7.6	2.6	ug/L		10/19/23 11:02	10/24/23 10:53	4
Acetophenone	<6.4		40	6.4	ug/L		10/19/23 11:02	10/24/23 10:53	4
Anthracene	**19**		7.6	2.0	ug/L		10/19/23 11:02	10/24/23 10:53	4
Atrazine	<25		40	25	ug/L		10/19/23 11:02	10/24/23 10:53	4
Benzaldehyde	<22		40	22	ug/L		10/19/23 11:02	10/24/23 10:53	4
Benzo[a]anthracene	<3.0		7.6	3.0	ug/L		10/19/23 11:02	10/24/23 10:53	4
Benzo[a]pyrene	<2.1		7.6	2.1	ug/L		10/19/23 11:02	10/24/23 10:53	4
Benzo[b]fluoranthene	<3.9		7.6	3.9	ug/L		10/19/23 11:02	10/24/23 10:53	4
Benzo[g,h,i]perylene	<2.8		7.6	2.8	ug/L		10/19/23 11:02	10/24/23 10:53	4
Benzo[k]fluoranthene	<3.5		7.6	3.5	ug/L		10/19/23 11:02	10/24/23 10:53	4
Bis(2-chloroethoxy)methane	<6.1		40	6.1	ug/L		10/19/23 11:02	10/24/23 10:53	4
Bis(2-chloroethyl)ether	<1.6		7.6	1.6	ug/L		10/19/23 11:02	10/24/23 10:53	4
Bis(2-ethylhexyl) phthalate	<250		400	250	ug/L		10/19/23 11:02	10/24/23 10:53	4
Butyl benzyl phthalate	<18		40	18	ug/L		10/19/23 11:02	10/24/23 10:53	4
Caprolactam	<19		200	19	ug/L		10/19/23 11:02	10/24/23 10:53	4
Carbazole	**340**		7.6	2.0	ug/L		10/19/23 11:02	10/24/23 10:53	4
Chrysene	<3.2		7.6	3.2	ug/L		10/19/23 11:02	10/24/23 10:53	4
Dibenz(a,h)anthracene	<2.9		7.6	2.9	ug/L		10/19/23 11:02	10/24/23 10:53	4
Dibenzofuran	**120**		40	7.6	ug/L		10/19/23 11:02	10/24/23 10:53	4
Diethyl phthalate	<23		40	23	ug/L		10/19/23 11:02	10/24/23 10:53	4
Dimethyl phthalate	<8.0		40	8.0	ug/L		10/19/23 11:02	10/24/23 10:53	4
Di-n-butyl phthalate	<30		40	30	ug/L		10/19/23 11:02	10/24/23 10:53	4
Di-n-octyl phthalate	<27		40	27	ug/L		10/19/23 11:02	10/24/23 10:53	4
Fluoranthene	**9.4**		7.6	2.4	ug/L		10/19/23 11:02	10/24/23 10:53	4
Fluorene	**110**		7.6	2.8	ug/L		10/19/23 11:02	10/24/23 10:53	4
Hexachlorobenzene	<2.2		7.6	2.2	ug/L		10/19/23 11:02	10/24/23 10:53	4
Hexachlorobutadiene	<2.8		7.6	2.8	ug/L		10/19/23 11:02	10/24/23 10:53	4
Hexachlorocyclopentadiene	<20		40	20	ug/L		10/19/23 11:02	10/24/23 10:53	4
Hexachloroethane	<5.3		40	5.3	ug/L		10/19/23 11:02	10/24/23 10:53	4
Indeno[1,2,3-cd]pyrene	<3.4		7.6	3.4	ug/L		10/19/23 11:02	10/24/23 10:53	4
Isophorone	<7.5		40	7.5	ug/L		10/19/23 11:02	10/24/23 10:53	4
Naphthalene	**6000**	**E**	7.6	2.4	ug/L		10/19/23 11:02	10/24/23 10:53	4
Nitrobenzene	<20		80	20	ug/L		10/19/23 11:02	10/24/23 10:53	4
N-Nitrosodi-n-propylamine	<2.8		7.6	2.8	ug/L		10/19/23 11:02	10/24/23 10:53	4
N-Nitrosodiphenylamine	<4.8		40	4.8	ug/L		10/19/23 11:02	10/24/23 10:53	4
Pentachlorophenol	<34		200	34	ug/L		10/19/23 11:02	10/24/23 10:53	4
Phenanthrene	**95**		7.6	2.2	ug/L		10/19/23 11:02	10/24/23 10:53	4

Client Sample ID: 20231005006
Lab Sample ID: 180-163503-6
Date Collected: 10/05/23 13:52
Matrix: Solid
Date Received: 10/06/23 08:00

Method: SW846 EPA 8270E - Semivolatile Organic Compounds (GC/MS) - SPLP West (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<19		40	19	ug/L		10/19/23 11:02	10/24/23 10:53	4
Pyrene	**5.6**	**J**	7.6	2.2	ug/L		10/19/23 11:02	10/24/23 10:53	4
2,2'-oxybis[1-chloropropane]	<2.3		7.6	2.3	ug/L		10/19/23 11:02	10/24/23 10:53	4
4-Bromophenyl phenyl ether	<13		40	13	ug/L		10/19/23 11:02	10/24/23 10:53	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*69*		*39 - 121*	*10/19/23 11:02*	*10/24/23 10:53*	*4*
2-Fluorobiphenyl	*77*		*45 - 105*	*10/19/23 11:02*	*10/24/23 10:53*	*4*
2-Fluorophenol (Surr)	*67*		*38 - 105*	*10/19/23 11:02*	*10/24/23 10:53*	*4*
Nitrobenzene-d5 (Surr)	*77*		*45 - 106*	*10/19/23 11:02*	*10/24/23 10:53*	*4*
Phenol-d5 (Surr)	*75*		*38 - 105*	*10/19/23 11:02*	*10/24/23 10:53*	*4*
Terphenyl-d14 (Surr)	*64*		*28 - 125*	*10/19/23 11:02*	*10/24/23 10:53*	*4*

Method: SW846 EPA 8270E - Semivolatile Organic Compounds (GC/MS) - SPLP West - DL

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<110		750	110	ug/L		10/19/23 11:02	10/25/23 20:48	75
2,4,5-Trichlorophenol	<190		750	190	ug/L		10/19/23 11:02	10/25/23 20:48	75
2,4,6-Trichlorophenol	<170		750	170	ug/L		10/19/23 11:02	10/25/23 20:48	75
2,4-Dichlorophenol	<38		140	38	ug/L		10/19/23 11:02	10/25/23 20:48	75
2,4-Dimethylphenol	<130		750	130	ug/L		10/19/23 11:02	10/25/23 20:48	75
2,4-Dinitrophenol	<1100		7500	1100	ug/L		10/19/23 11:02	10/25/23 20:48	75
2,4-Dinitrotoluene	<260		750	260	ug/L		10/19/23 11:02	10/25/23 20:48	75
2,6-Dinitrotoluene	<130		750	130	ug/L		10/19/23 11:02	10/25/23 20:48	75
2-Chloronaphthalene	<44		140	44	ug/L		10/19/23 11:02	10/25/23 20:48	75
2-Chlorophenol	<97		750	97	ug/L		10/19/23 11:02	10/25/23 20:48	75
2-Methylnaphthalene	**400**		140	47	ug/L		10/19/23 11:02	10/25/23 20:48	75
2-Methylphenol	<230		750	230	ug/L		10/19/23 11:02	10/25/23 20:48	75
2-Nitroaniline	<410		3800	410	ug/L		10/19/23 11:02	10/25/23 20:48	75
2-Nitrophenol	<140		750	140	ug/L		10/19/23 11:02	10/25/23 20:48	75
3,3'-Dichlorobenzidine	<440		750	440	ug/L		10/19/23 11:02	10/25/23 20:48	75
3-Nitroaniline	<330		3800	330	ug/L		10/19/23 11:02	10/25/23 20:48	75
4-Chlorophenyl phenyl ether	<170		750	170	ug/L		10/19/23 11:02	10/25/23 20:48	75
4,6-Dinitro-2-methylphenol	<1100		3800	1100	ug/L		10/19/23 11:02	10/25/23 20:48	75
4-Chloro-3-methylphenol	<210		750	210	ug/L		10/19/23 11:02	10/25/23 20:48	75
4-Chloroaniline	<280		750	280	ug/L		10/19/23 11:02	10/25/23 20:48	75
Methylphenol, 3 & 4	<280		750	280	ug/L		10/19/23 11:02	10/25/23 20:48	75
4-Nitroaniline	<270		3800	270	ug/L		10/19/23 11:02	10/25/23 20:48	75
4-Nitrophenol	<710		3800	710	ug/L		10/19/23 11:02	10/25/23 20:48	75
Acenaphthene	**170**		140	49	ug/L		10/19/23 11:02	10/25/23 20:48	75
Acenaphthylene	<49		140	49	ug/L		10/19/23 11:02	10/25/23 20:48	75
Acetophenone	<120		750	120	ug/L		10/19/23 11:02	10/25/23 20:48	75
Anthracene	<37		140	37	ug/L		10/19/23 11:02	10/25/23 20:48	75
Atrazine	<470		750	470	ug/L		10/19/23 11:02	10/25/23 20:48	75
Benzaldehyde	<400		750	400	ug/L		10/19/23 11:02	10/25/23 20:48	75
Benzo[a]anthracene	<56		140	56	ug/L		10/19/23 11:02	10/25/23 20:48	75
Benzo[a]pyrene	<40		140	40	ug/L		10/19/23 11:02	10/25/23 20:48	75
Benzo[b]fluoranthene	<73		140	73	ug/L		10/19/23 11:02	10/25/23 20:48	75
Benzo[g,h,i]perylene	<52		140	52	ug/L		10/19/23 11:02	10/25/23 20:48	75
Benzo[k]fluoranthene	<66		140	66	ug/L		10/19/23 11:02	10/25/23 20:48	75
Bis(2-chloroethoxy)methane	<110		750	110	ug/L		10/19/23 11:02	10/25/23 20:48	75

Client Sample ID: 20231005006
Lab Sample ID: 180-163503-6
Date Collected: 10/05/23 13:52
Matrix: Solid
Date Received: 10/06/23 08:00

Method: SW846 EPA 8270E - Semivolatile Organic Compounds (GC/MS) - SPLP West - DL (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	<30		140	30	ug/L		10/19/23 11:02	10/25/23 20:48	75
Bis(2-ethylhexyl) phthalate	<4700		7500	4700	ug/L		10/19/23 11:02	10/25/23 20:48	75
Butyl benzyl phthalate	<350		750	350	ug/L		10/19/23 11:02	10/25/23 20:48	75
Caprolactam	<350		3800	350	ug/L		10/19/23 11:02	10/25/23 20:48	75
Carbazole	**270**		140	38	ug/L		10/19/23 11:02	10/25/23 20:48	75
Chrysene	<61		140	61	ug/L		10/19/23 11:02	10/25/23 20:48	75
Dibenz(a,h)anthracene	<54		140	54	ug/L		10/19/23 11:02	10/25/23 20:48	75
Dibenzofuran	<140		750	140	ug/L		10/19/23 11:02	10/25/23 20:48	75
Diethyl phthalate	<430		750	430	ug/L		10/19/23 11:02	10/25/23 20:48	75
Dimethyl phthalate	<150		750	150	ug/L		10/19/23 11:02	10/25/23 20:48	75
Di-n-butyl phthalate	<560		750	560	ug/L		10/19/23 11:02	10/25/23 20:48	75
Di-n-octyl phthalate	<510		750	510	ug/L		10/19/23 11:02	10/25/23 20:48	75
Fluoranthene	<45		140	45	ug/L		10/19/23 11:02	10/25/23 20:48	75
Fluorene	**91**	**J**	140	52	ug/L		10/19/23 11:02	10/25/23 20:48	75
Hexachlorobenzene	<42		140	42	ug/L		10/19/23 11:02	10/25/23 20:48	75
Hexachlorobutadiene	<52		140	52	ug/L		10/19/23 11:02	10/25/23 20:48	75
Hexachlorocyclopentadiene	<370		750	370	ug/L		10/19/23 11:02	10/25/23 20:48	75
Hexachloroethane	<100		750	100	ug/L		10/19/23 11:02	10/25/23 20:48	75
Indeno[1,2,3-cd]pyrene	<64		140	64	ug/L		10/19/23 11:02	10/25/23 20:48	75
Isophorone	<140		750	140	ug/L		10/19/23 11:02	10/25/23 20:48	75
Naphthalene	**12000**		140	44	ug/L		10/19/23 11:02	10/25/23 20:48	75
Nitrobenzene	<380		1500	380	ug/L		10/19/23 11:02	10/25/23 20:48	75
N-Nitrosodi-n-propylamine	<53		140	53	ug/L		10/19/23 11:02	10/25/23 20:48	75
N-Nitrosodiphenylamine	<89		750	89	ug/L		10/19/23 11:02	10/25/23 20:48	75
Pentachlorophenol	<640		3800	640	ug/L		10/19/23 11:02	10/25/23 20:48	75
Phenanthrene	**79**	**J**	140	41	ug/L		10/19/23 11:02	10/25/23 20:48	75
Phenol	<370		750	370	ug/L		10/19/23 11:02	10/25/23 20:48	75
Pyrene	<41		140	41	ug/L		10/19/23 11:02	10/25/23 20:48	75
2,2'-oxybis[1-chloropropane]	<44		140	44	ug/L		10/19/23 11:02	10/25/23 20:48	75
4-Bromophenyl phenyl ether	<240		750	240	ug/L		10/19/23 11:02	10/25/23 20:48	75

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*0*	*X D*	*39 - 121*	*10/19/23 11:02*	*10/25/23 20:48*	*75*
2-Fluorobiphenyl	*0*	*X D*	*45 - 105*	*10/19/23 11:02*	*10/25/23 20:48*	*75*
2-Fluorophenol (Surr)	*0*	*X D*	*38 - 105*	*10/19/23 11:02*	*10/25/23 20:48*	*75*
Nitrobenzene-d5 (Surr)	*0*	*X D*	*45 - 106*	*10/19/23 11:02*	*10/25/23 20:48*	*75*
Phenol-d5 (Surr)	*0*	*X D*	*38 - 105*	*10/19/23 11:02*	*10/25/23 20:48*	*75*
Terphenyl-d14 (Surr)	*0*	*X D*	*28 - 125*	*10/19/23 11:02*	*10/25/23 20:48*	*75*

Method: SW846 EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - SPLP West

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.19		0.40	0.19	ug/L		10/13/23 00:15	10/16/23 08:29	1
PCB-1221	<0.23		0.40	0.23	ug/L		10/13/23 00:15	10/16/23 08:29	1
PCB-1232	<0.21		0.40	0.21	ug/L		10/13/23 00:15	10/16/23 08:29	1
PCB-1242	<0.14		0.40	0.14	ug/L		10/13/23 00:15	10/16/23 08:29	1
PCB-1248	<0.32		0.40	0.32	ug/L		10/13/23 00:15	10/16/23 08:29	1
PCB-1254	<0.18		0.40	0.18	ug/L		10/13/23 00:15	10/16/23 08:29	1
PCB-1260	<0.16		0.40	0.16	ug/L		10/13/23 00:15	10/16/23 08:29	1

Client Sample ID: 20231005006
Lab Sample ID: 180-163503-6
Date Collected: 10/05/23 13:52
Matrix: Solid
Date Received: 10/06/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*120*		*57 - 134*	*10/13/23 00:15*	*10/16/23 08:29*	*1*
Tetrachloro-m-xylene (Surr)	*95*		*57 - 134*	*10/13/23 00:15*	*10/16/23 08:29*	*1*
DCB Decachlorobiphenyl (Surr)	*119*		*68 - 150*	*10/13/23 00:15*	*10/16/23 08:29*	*1*
DCB Decachlorobiphenyl (Surr)	*110*		*68 - 150*	*10/13/23 00:15*	*10/16/23 08:29*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM22 2540G)	**17.2**		0.1	0.1	%			10/09/23 14:21	1

Client Sample ID: 20231005006
Lab Sample ID: 180-163503-6
Date Collected: 10/05/23 13:52
Matrix: Solid
Date Received: 10/06/23 08:00
Percent Solids: 82.8

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	**9600**		400	150	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
2,2'-oxybis[1-chloropropane]	<30		80	30	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
2,4,5-Trichlorophenol	<140		400	140	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
2,4,6-Trichlorophenol	<130		400	130	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
2,4-Dichlorophenol	<31		80	31	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
2,4-Dimethylphenol	**830**		400	130	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
2,4-Dinitrophenol	<2500		4000	2500	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
2,4-Dinitrotoluene	<240		400	240	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
2,6-Dinitrotoluene	<160		400	160	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
2-Chloronaphthalene	<18		80	18	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
2-Chlorophenol	<150		400	150	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
2-Methylnaphthalene	**67000**	**E**	80	19	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
2-Methylphenol	<110		400	110	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
2-Nitroaniline	<180		2000	180	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
2-Nitrophenol	<150		400	150	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
3,3'-Dichlorobenzidine	**470**		400	370	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
3-Nitroaniline	<100		2000	100	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
4,6-Dinitro-2-methylphenol	<690		2000	690	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
4-Bromophenyl phenyl ether	<170		400	170	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
4-Chloro-3-methylphenol	<140		400	140	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
4-Chloroaniline	<100		400	100	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
4-Chlorophenyl phenyl ether	<130		400	130	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Methylphenol, 3 & 4	**370**	**J**	400	120	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
4-Nitroaniline	<150		2000	150	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
4-Nitrophenol	<280		2000	280	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Acenaphthene	**50000**	**E**	80	23	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Acenaphthylene	**13000**		80	18	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Acetophenone	<140		800	140	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Anthracene	**51000**	**E**	80	21	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Atrazine	<180		800	180	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Benzaldehyde	<50		800	50	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Benzo[a]anthracene	**38000**	**E**	80	36	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Benzo[a]pyrene	**26000**	**E**	80	35	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Benzo[b]fluoranthene	**31000**	**E**	80	20	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Benzo[g,h,i]perylene	**15000**		80	17	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Benzo[k]fluoranthene	**11000**		80	24	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1

Client Sample ID: 20231005006
Lab Sample ID: 180-163503-6
Date Collected: 10/05/23 13:52
Matrix: Solid
Date Received: 10/06/23 08:00
Percent Solids: 82.8

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	<150	^c	400	150	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Bis(2-chloroethyl)ether	<15		80	15	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Bis(2-ethylhexyl) phthalate	<430		4000	430	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Butyl benzyl phthalate	<270		400	270	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Caprolactam	<260		2000	260	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Carbazole	**34000**	**E**	80	19	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Chrysene	**42000**	**E**	80	44	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Dibenz(a,h)anthracene	**4700**		80	51	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Dibenzofuran	**37000**	**E**	400	150	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Diethyl phthalate	<140		400	140	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Dimethyl phthalate	<160		400	160	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Di-n-butyl phthalate	<180		400	180	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Di-n-octyl phthalate	<230		400	230	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Fluoranthene	**73000**	**E**	80	21	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Fluorene	**59000**	**E**	80	16	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Hexachlorobenzene	<29		80	29	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Hexachlorobutadiene	<23		80	23	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Hexachlorocyclopentadiene	<41		400	41	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Hexachloroethane	<140		400	140	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Indeno[1,2,3-cd]pyrene	**13000**		80	40	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Isophorone	<150		400	150	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Naphthalene	**120000**	**E**	80	16	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Nitrobenzene	<150		800	150	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
N-Nitrosodi-n-propylamine	<27		80	27	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
N-Nitrosodiphenylamine	<130		400	130	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Pentachlorophenol	<640		2000	640	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Phenanthrene	**87000**	**E**	80	21	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Phenol	<120		400	120	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1
Pyrene	**64000**	**E**	80	19	ug/Kg	☼	10/16/23 09:47	10/17/23 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*78*		*34 - 108*	*10/16/23 09:47*	*10/17/23 17:05*	*1*
2-Fluorobiphenyl	*82*		*44 - 105*	*10/16/23 09:47*	*10/17/23 17:05*	*1*
2-Fluorophenol (Surr)	*84*		*48 - 105*	*10/16/23 09:47*	*10/17/23 17:05*	*1*
Nitrobenzene-d5 (Surr)	*77*		*46 - 105*	*10/16/23 09:47*	*10/17/23 17:05*	*1*
Phenol-d5 (Surr)	*84*		*46 - 105*	*10/16/23 09:47*	*10/17/23 17:05*	*1*
Terphenyl-d14 (Surr)	*70*		*39 - 105*	*10/16/23 09:47*	*10/17/23 17:05*	*1*

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	**38000**	**J**	79000	29000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
2,2'-oxybis[1-chloropropane]	<5900		16000	5900	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
2,4,5-Trichlorophenol	<28000		79000	28000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
2,4,6-Trichlorophenol	<27000		79000	27000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
2,4-Dichlorophenol	<6200		16000	6200	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
2,4-Dimethylphenol	<27000		79000	27000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
2,4-Dinitrophenol	<500000		790000	500000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
2,4-Dinitrotoluene	<48000		79000	48000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
2,6-Dinitrotoluene	<31000		79000	31000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
2-Chloronaphthalene	<3700		16000	3700	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200

Client Sample ID: 20231005006
Lab Sample ID: 180-163503-6
Date Collected: 10/05/23 13:52
Matrix: Solid
Date Received: 10/06/23 08:00
Percent Solids: 82.8

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	<30000		79000	30000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
2-Methylnaphthalene	**220000**		16000	3800	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
2-Methylphenol	<23000		79000	23000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
2-Nitroaniline	<36000		410000	36000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
2-Nitrophenol	<30000		79000	30000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
3,3'-Dichlorobenzidine	<75000		79000	75000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
3-Nitroaniline	<20000		410000	20000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
4,6-Dinitro-2-methylphenol	<140000		410000	140000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
4-Bromophenyl phenyl ether	<34000		79000	34000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
4-Chloro-3-methylphenol	<28000		79000	28000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
4-Chloroaniline	<21000		79000	21000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
4-Chlorophenyl phenyl ether	<27000		79000	27000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Methylphenol, 3 & 4	<23000		79000	23000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
4-Nitroaniline	<30000		410000	30000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
4-Nitrophenol	<56000		410000	56000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Acenaphthene	**140000**		16000	4600	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Acenaphthylene	**44000**		16000	3500	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Acetophenone	<29000		160000	29000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Anthracene	**200000**		16000	4100	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Atrazine	<35000		160000	35000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Benzaldehyde	<9900		160000	9900	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Benzo[a]anthracene	**120000**		16000	7200	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Benzo[a]pyrene	**93000**		16000	6900	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Benzo[b]fluoranthene	**110000**		16000	3900	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Benzo[g,h,i]perylene	**47000**		16000	3500	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Benzo[k]fluoranthene	**43000**		16000	4800	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Bis(2-chloroethoxy)methane	<29000		79000	29000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Bis(2-chloroethyl)ether	<2900		16000	2900	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Bis(2-ethylhexyl) phthalate	<85000		790000	85000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Butyl benzyl phthalate	<55000		79000	55000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Caprolactam	<52000		410000	52000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Carbazole	**110000**		16000	3700	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Chrysene	**150000**		16000	8900	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Dibenz(a,h)anthracene	**13000**	**J**	16000	10000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Dibenzofuran	**130000**		79000	30000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Diethyl phthalate	<28000		79000	28000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Dimethyl phthalate	<32000		79000	32000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Di-n-butyl phthalate	<35000		79000	35000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Di-n-octyl phthalate	<47000		79000	47000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Fluoranthene	**400000**		16000	4200	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Fluorene	**190000**		16000	3100	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Hexachlorobenzene	<5700		16000	5700	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Hexachlorobutadiene	<4700		16000	4700	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Hexachlorocyclopentadiene	<8200		79000	8200	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Hexachloroethane	<28000		79000	28000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Indeno[1,2,3-cd]pyrene	**39000**		16000	8000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Isophorone	<30000		79000	30000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Naphthalene	**1400000**		16000	3100	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Nitrobenzene	<29000		160000	29000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200

Client: Tetra Tech, Inc.
Job ID: 180-163503-1
Project/Site: WI ISS Treatability Study REVISED

Client Sample ID: 20231005006
Lab Sample ID: 180-163503-6
Date Collected: 10/05/23 13:52
Matrix: Solid
Date Received: 10/06/23 08:00
Percent Solids: 82.8

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<5400		16000	5400	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
N-Nitrosodiphenylamine	<27000		79000	27000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Pentachlorophenol	<130000		410000	130000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Phenanthrene	**590000**		16000	4300	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Phenol	<24000		79000	24000	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200
Pyrene	**270000**		16000	3800	ug/Kg	☼	10/16/23 09:47	10/19/23 10:31	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*0*	*D X*	*34 - 108*	*10/16/23 09:47*	*10/19/23 10:31*	*200*
2-Fluorobiphenyl	*0*	*D X*	*44 - 105*	*10/16/23 09:47*	*10/19/23 10:31*	*200*
2-Fluorophenol (Surr)	*0*	*D X*	*48 - 105*	*10/16/23 09:47*	*10/19/23 10:31*	*200*
Nitrobenzene-d5 (Surr)	*0*	*D X*	*46 - 105*	*10/16/23 09:47*	*10/19/23 10:31*	*200*
Phenol-d5 (Surr)	*0*	*D X*	*46 - 105*	*10/16/23 09:47*	*10/19/23 10:31*	*200*
Terphenyl-d14 (Surr)	*0*	*D X*	*39 - 105*	*10/16/23 09:47*	*10/19/23 10:31*	*200*

Method: SW846 EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.5		20	6.5	ug/Kg	☼	10/09/23 14:24	10/11/23 03:59	1
PCB-1221	<7.1		20	7.1	ug/Kg	☼	10/09/23 14:24	10/11/23 03:59	1
PCB-1232	<4.9		20	4.9	ug/Kg	☼	10/09/23 14:24	10/11/23 03:59	1
PCB-1242	<2.9		20	2.9	ug/Kg	☼	10/09/23 14:24	10/11/23 03:59	1
PCB-1248	<4.8		20	4.8	ug/Kg	☼	10/09/23 14:24	10/11/23 03:59	1
PCB-1254	**100**		20	6.0	ug/Kg	☼	10/09/23 14:24	10/11/23 03:59	1
PCB-1260	<5.7		20	5.7	ug/Kg	☼	10/09/23 14:24	10/11/23 03:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*92*		*55 - 135*	*10/09/23 14:24*	*10/11/23 03:59*	*1*
Tetrachloro-m-xylene (Surr)	*94*		*55 - 135*	*10/09/23 14:24*	*10/11/23 03:59*	*1*
DCB Decachlorobiphenyl (Surr)	*310*	*X*	*63 - 138*	*10/09/23 14:24*	*10/11/23 03:59*	*1*
DCB Decachlorobiphenyl (Surr)	*93*	*p*	*63 - 138*	*10/09/23 14:24*	*10/11/23 03:59*	*1*

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

Lab Sample ID: MB 180-448507/7
Matrix: Solid
Analysis Batch: 448507

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.7		5.0	1.7	ug/Kg			10/06/23 12:54	1
1,1,2,2-Tetrachloroethane	<1.5		5.0	1.5	ug/Kg			10/06/23 12:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<2.0		5.0	2.0	ug/Kg			10/06/23 12:54	1
1,1,2-Trichloroethane	<0.99		5.0	0.99	ug/Kg			10/06/23 12:54	1
1,1-Dichloroethane	<1.6		5.0	1.6	ug/Kg			10/06/23 12:54	1
1,1-Dichloroethene	<2.3		5.0	2.3	ug/Kg			10/06/23 12:54	1
1,2-Dibromo-3-Chloropropane	<3.2		5.0	3.2	ug/Kg			10/06/23 12:54	1
1,2-Dichlorobenzene	<1.7		5.0	1.7	ug/Kg			10/06/23 12:54	1
1,2-Dichloroethane	<1.4		5.0	1.4	ug/Kg			10/06/23 12:54	1
1,2-Dichloropropane	<1.3		5.0	1.3	ug/Kg			10/06/23 12:54	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/Kg			10/06/23 12:54	1
1,3-Dichlorobenzene	<3.1		5.0	3.1	ug/Kg			10/06/23 12:54	1
1,4-Dichlorobenzene	<1.5		5.0	1.5	ug/Kg			10/06/23 12:54	1
2-Butanone (MEK)	<2.5		25	2.5	ug/Kg			10/06/23 12:54	1
2-Hexanone	<1.6		25	1.6	ug/Kg			10/06/23 12:54	1
4-Methyl-2-pentanone (MIBK)	<1.8		25	1.8	ug/Kg			10/06/23 12:54	1
Acetone	<3.9		25	3.9	ug/Kg			10/06/23 12:54	1
Benzene	<1.4		5.0	1.4	ug/Kg			10/06/23 12:54	1
Bromoform	<2.5		5.0	2.5	ug/Kg			10/06/23 12:54	1
Bromomethane	<2.3		5.0	2.3	ug/Kg			10/06/23 12:54	1
Carbon disulfide	<4.0		5.0	4.0	ug/Kg			10/06/23 12:54	1
Carbon tetrachloride	<2.0		5.0	2.0	ug/Kg			10/06/23 12:54	1
Chlorobenzene	<1.3		5.0	1.3	ug/Kg			10/06/23 12:54	1
Chlorodibromomethane	<2.5		5.0	2.5	ug/Kg			10/06/23 12:54	1
Chloroform	<3.4		5.0	3.4	ug/Kg			10/06/23 12:54	1
Chloromethane	<2.0		5.0	2.0	ug/Kg			10/06/23 12:54	1
Chloroethane	<2.9		5.0	2.9	ug/Kg			10/06/23 12:54	1
cis-1,2-Dichloroethene	<1.5		5.0	1.5	ug/Kg			10/06/23 12:54	1
cis-1,3-Dichloropropene	<2.2		5.0	2.2	ug/Kg			10/06/23 12:54	1
Dichlorobromomethane	<2.3		5.0	2.3	ug/Kg			10/06/23 12:54	1
Dichlorodifluoromethane	<2.5		5.0	2.5	ug/Kg			10/06/23 12:54	1
Ethylbenzene	<1.9		5.0	1.9	ug/Kg			10/06/23 12:54	1
1,2-Dibromoethane	<1.4		5.0	1.4	ug/Kg			10/06/23 12:54	1
Cyclohexane	<2.4		5.0	2.4	ug/Kg			10/06/23 12:54	1
Isopropylbenzene	<2.6		5.0	2.6	ug/Kg			10/06/23 12:54	1
Methyl acetate	<7.4		25	7.4	ug/Kg			10/06/23 12:54	1
Methyl tert-butyl ether	<1.5		5.0	1.5	ug/Kg			10/06/23 12:54	1
Methylcyclohexane	<2.4		5.0	2.4	ug/Kg			10/06/23 12:54	1
Methylene Chloride	<4.5		5.0	4.5	ug/Kg			10/06/23 12:54	1
Styrene	<1.5		5.0	1.5	ug/Kg			10/06/23 12:54	1
Tetrachloroethene	<2.0		5.0	2.0	ug/Kg			10/06/23 12:54	1
Toluene	<1.4		5.0	1.4	ug/Kg			10/06/23 12:54	1
trans-1,2-Dichloroethene	<1.8		5.0	1.8	ug/Kg			10/06/23 12:54	1
trans-1,3-Dichloropropene	<2.3		5.0	2.3	ug/Kg			10/06/23 12:54	1
Trichloroethene	<1.6		5.0	1.6	ug/Kg			10/06/23 12:54	1
Trichlorofluoromethane	<4.2		5.0	4.2	ug/Kg			10/06/23 12:54	1
Vinyl chloride	<3.6		5.0	3.6	ug/Kg			10/06/23 12:54	1
Xylenes, Total	<7.2		10	7.2	ug/Kg			10/06/23 12:54	1

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

Lab Sample ID: MB 180-448507/7
Matrix: Solid
Analysis Batch: 448507

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		73 - 135		10/06/23 12:54	1
4-Bromofluorobenzene (Surr)	87		60 - 124		10/06/23 12:54	1
Dibromofluoromethane (Surr)	101		69 - 126		10/06/23 12:54	1
Toluene-d8 (Surr)	82		67 - 134		10/06/23 12:54	1

Lab Sample ID: LCS 180-448507/4
Matrix: Solid
Analysis Batch: 448507

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	40.0	35.7		ug/Kg		89	72 - 134
1,1,2,2-Tetrachloroethane	40.0	34.8		ug/Kg		87	36 - 170
1,1,2-Trichloro-1,2,2-trifluoroethane	40.0	15.1	*	ug/Kg		38	59 - 135
1,1,2-Trichloroethane	40.0	34.1		ug/Kg		85	66 - 128
1,1-Dichloroethane	40.0	37.1		ug/Kg		93	73 - 124
1,1-Dichloroethene	40.0	31.7		ug/Kg		79	55 - 136
1,2-Dibromo-3-Chloropropane	40.0	32.0		ug/Kg		80	30 - 163
1,2-Dichlorobenzene	40.0	35.8		ug/Kg		89	76 - 120
1,2-Dichloroethane	40.0	38.9		ug/Kg		97	64 - 140
1,2-Dichloropropane	40.0	36.4		ug/Kg		91	77 - 119
1,2,4-Trichlorobenzene	40.0	34.5		ug/Kg		86	22 - 170
1,3-Dichlorobenzene	40.0	35.7		ug/Kg		89	77 - 121
1,4-Dichlorobenzene	40.0	35.2		ug/Kg		88	79 - 120
2-Butanone (MEK)	40.0	24.7	J	ug/Kg		62	39 - 157
2-Hexanone	40.0	27.2		ug/Kg		68	42 - 152
4-Methyl-2-pentanone (MIBK)	40.0	33.4		ug/Kg		83	51 - 147
Acetone	40.0	22.8	J	ug/Kg		57	23 - 170
Benzene	40.0	35.2		ug/Kg		88	77 - 120
Bromoform	40.0	37.7		ug/Kg		94	37 - 147
Bromomethane	40.0	42.0		ug/Kg		105	47 - 149
Carbon disulfide	40.0	35.0		ug/Kg		88	40 - 156
Carbon tetrachloride	40.0	35.4		ug/Kg		88	73 - 130
Chlorobenzene	40.0	33.9		ug/Kg		85	79 - 122
Chlorodibromomethane	40.0	34.7		ug/Kg		87	60 - 134
Chloroform	40.0	39.3		ug/Kg		98	73 - 126
Chloromethane	40.0	41.4		ug/Kg		103	46 - 151
Chloroethane	40.0	38.0		ug/Kg		95	37 - 159
cis-1,2-Dichloroethene	40.0	35.5		ug/Kg		89	77 - 118
cis-1,3-Dichloropropene	40.0	32.7		ug/Kg		82	73 - 127
Dichlorobromomethane	40.0	38.4		ug/Kg		96	75 - 123
Dichlorodifluoromethane	40.0	35.4		ug/Kg		89	26 - 149
Ethylbenzene	40.0	33.8		ug/Kg		84	79 - 119
1,2-Dibromoethane	40.0	34.5		ug/Kg		86	59 - 137
Cyclohexane	40.0	27.2		ug/Kg		68	63 - 143
Isopropylbenzene	40.0	34.9		ug/Kg		87	70 - 125
Methyl acetate	80.0	86.0		ug/Kg		108	20 - 170
Methyl tert-butyl ether	40.0	34.6		ug/Kg		87	58 - 132
Methylcyclohexane	40.0	32.0		ug/Kg		80	70 - 125

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

Lab Sample ID: LCS 180-448507/4
Matrix: Solid
Analysis Batch: 448507

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methylene Chloride			40.0	35.8		ug/Kg		90	67 - 131		
m-Xylene & p-Xylene			40.0	33.4		ug/Kg		84	77 - 120		
o-Xylene			40.0	33.4		ug/Kg		84	78 - 118		
Styrene			40.0	35.5		ug/Kg		89	80 - 120		
Tetrachloroethene			40.0	35.6		ug/Kg		89	71 - 121		
Toluene			40.0	33.8		ug/Kg		84	76 - 120		
trans-1,2-Dichloroethene			40.0	35.2		ug/Kg		88	75 - 122		
trans-1,3-Dichloropropene			40.0	33.1		ug/Kg		83	68 - 133		
Trichloroethene			40.0	34.8		ug/Kg		87	69 - 118		
Trichlorofluoromethane			40.0	41.1		ug/Kg		103	32 - 149		
Vinyl chloride			40.0	35.6		ug/Kg		89	64 - 134		
Xylenes, Total			80.0	66.8		ug/Kg		84	78 - 118		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*73 - 135*
4-Bromofluorobenzene (Surr)	*95*		*60 - 124*
Dibromofluoromethane (Surr)	*103*		*69 - 126*
Toluene-d8 (Surr)	*92*		*67 - 134*

Lab Sample ID: LCSD 180-448507/21
Matrix: Solid
Analysis Batch: 448507

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			40.0	34.1		ug/Kg		85	72 - 134	5	20
1,1,2,2-Tetrachloroethane			40.0	31.4		ug/Kg		79	36 - 170	10	23
1,1,2-Trichloro-1,2,2-trifluoroethane			40.0	24.8	*	ug/Kg		62	59 - 135	49	28
1,1,2-Trichloroethane			40.0	32.2		ug/Kg		80	66 - 128	6	21
1,1-Dichloroethane			40.0	36.8		ug/Kg		92	73 - 124	1	20
1,1-Dichloroethene			40.0	34.9		ug/Kg		87	55 - 136	10	21
1,2-Dibromo-3-Chloropropane			40.0	27.6		ug/Kg		69	30 - 163	15	34
1,2-Dichlorobenzene			40.0	33.8		ug/Kg		84	76 - 120	6	20
1,2-Dichloroethane			40.0	33.2		ug/Kg		83	64 - 140	16	20
1,2-Dichloropropane			40.0	35.8		ug/Kg		89	77 - 119	2	20
1,2,4-Trichlorobenzene			40.0	36.0		ug/Kg		90	22 - 170	4	29
1,3-Dichlorobenzene			40.0	34.5		ug/Kg		86	77 - 121	3	20
1,4-Dichlorobenzene			40.0	34.1		ug/Kg		85	79 - 120	3	20
2-Butanone (MEK)			40.0	31.6		ug/Kg		79	39 - 157	25	33
2-Hexanone			40.0	31.1		ug/Kg		78	42 - 152	13	30
4-Methyl-2-pentanone (MIBK)			40.0	30.2		ug/Kg		75	51 - 147	10	27
Acetone			40.0	37.2	*	ug/Kg		93	23 - 170	48	35
Benzene			40.0	34.9		ug/Kg		87	77 - 120	1	20
Bromoform			40.0	32.9		ug/Kg		82	37 - 147	14	23
Bromomethane			40.0	31.5	*	ug/Kg		79	47 - 149	29	25
Carbon disulfide			40.0	35.3		ug/Kg		88	40 - 156	1	25
Carbon tetrachloride			40.0	33.2		ug/Kg		83	73 - 130	6	21
Chlorobenzene			40.0	33.6		ug/Kg		84	79 - 122	1	20
Chlorodibromomethane			40.0	32.8		ug/Kg		82	60 - 134	6	40

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

Lab Sample ID: LCSD 180-448507/21
Matrix: Solid
Analysis Batch: 448507

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloroform	40.0	37.1		ug/Kg		93	73 - 126	6	20
Chloromethane	40.0	40.4		ug/Kg		101	46 - 151	2	33
Chloroethane	40.0	34.8		ug/Kg		87	37 - 159	9	25
cis-1,2-Dichloroethene	40.0	36.6		ug/Kg		91	77 - 118	3	20
cis-1,3-Dichloropropene	40.0	31.5		ug/Kg		79	73 - 127	4	20
Dichlorobromomethane	40.0	35.6		ug/Kg		89	75 - 123	8	20
Dichlorodifluoromethane	40.0	34.3		ug/Kg		86	26 - 149	3	24
Ethylbenzene	40.0	33.9		ug/Kg		85	79 - 119	0	20
1,2-Dibromoethane	40.0	31.8		ug/Kg		80	59 - 137	8	20
Cyclohexane	40.0	32.7		ug/Kg		82	63 - 143	18	25
Isopropylbenzene	40.0	34.4		ug/Kg		86	70 - 125	1	21
Methyl acetate	80.0	72.4		ug/Kg		91	20 - 170	17	33
Methyl tert-butyl ether	40.0	34.0		ug/Kg		85	58 - 132	2	24
Methylcyclohexane	40.0	33.0		ug/Kg		83	70 - 125	3	22
Methylene Chloride	40.0	36.4		ug/Kg		91	67 - 131	1	32
m-Xylene & p-Xylene	40.0	33.1		ug/Kg		83	77 - 120	1	20
o-Xylene	40.0	33.6		ug/Kg		84	78 - 118	0	20
Styrene	40.0	34.8		ug/Kg		87	80 - 120	2	20
Tetrachloroethene	40.0	36.0		ug/Kg		90	71 - 121	1	21
Toluene	40.0	33.8		ug/Kg		85	76 - 120	0	20
trans-1,2-Dichloroethene	40.0	35.4		ug/Kg		89	75 - 122	1	20
trans-1,3-Dichloropropene	40.0	31.4		ug/Kg		78	68 - 133	5	20
Trichloroethene	40.0	35.6		ug/Kg		89	69 - 118	2	20
Trichlorofluoromethane	40.0	35.4		ug/Kg		89	32 - 149	15	39
Vinyl chloride	40.0	35.8		ug/Kg		89	64 - 134	0	23
Xylenes, Total	80.0	66.7		ug/Kg		83	78 - 118	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*73 - 135*
4-Bromofluorobenzene (Surr)	*91*		*60 - 124*
Dibromofluoromethane (Surr)	*98*		*69 - 126*
Toluene-d8 (Surr)	*91*		*67 - 134*

Lab Sample ID: MB 180-448681/7-A
Matrix: Solid
Analysis Batch: 448655

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448681

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<84		250	84	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
1,1,2,2-Tetrachloroethane	<76		250	76	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<100		250	100	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
1,1,2-Trichloroethane	<50		250	50	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
1,1-Dichloroethane	<80		250	80	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
1,1-Dichloroethene	<110		250	110	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
1,2-Dibromo-3-Chloropropane	<160		250	160	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
1,2-Dichlorobenzene	<84		250	84	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
1,2-Dichloroethane	<72		250	72	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
1,2-Dichloropropane	<67		250	67	ug/Kg		10/09/23 07:16	10/09/23 10:56	1

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

Lab Sample ID: MB 180-448681/7-A
Matrix: Solid
Analysis Batch: 448655

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448681

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<130		250	130	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
1,3-Dichlorobenzene	<150		250	150	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
1,4-Dichlorobenzene	<75		250	75	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
2-Butanone (MEK)	<130		1300	130	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
2-Hexanone	<79		1300	79	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
4-Methyl-2-pentanone (MIBK)	<92		1300	92	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
Acetone	<200		1300	200	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
Benzene	<71		250	71	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
Bromoform	<130		250	130	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
Bromomethane	<110		250	110	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
Carbon disulfide	<200		250	200	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
Carbon tetrachloride	<100		250	100	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
Chlorobenzene	<65		250	65	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
Chlorodibromomethane	<120		250	120	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
Chloroform	<170		250	170	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
Chloromethane	<99		250	99	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
Chloroethane	<150		250	150	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
cis-1,2-Dichloroethene	<76		250	76	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
cis-1,3-Dichloropropene	<110		250	110	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
Dichlorobromomethane	<120		250	120	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
Dichlorodifluoromethane	<130		250	130	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
Ethylbenzene	<93		250	93	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
1,2-Dibromoethane	<69		250	69	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
Cyclohexane	<120		250	120	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
Isopropylbenzene	<130		250	130	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
Methyl acetate	<370		1300	370	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
Methyl tert-butyl ether	<74		250	74	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
Methylcyclohexane	<120		250	120	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
Methylene Chloride	<230		250	230	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
Styrene	<75		250	75	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
Tetrachloroethene	<100		250	100	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
Toluene	<72		250	72	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
trans-1,2-Dichloroethene	<88		250	88	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
trans-1,3-Dichloropropene	<110		250	110	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
Trichloroethene	<79		250	79	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
Trichlorofluoromethane	<210		250	210	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
Vinyl chloride	<180		250	180	ug/Kg		10/09/23 07:16	10/09/23 10:56	1
Xylenes, Total	<360		500	360	ug/Kg		10/09/23 07:16	10/09/23 10:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*49 - 147*	*10/09/23 07:16*	*10/09/23 10:56*	*1*
4-Bromofluorobenzene (Surr)	*74*		*54 - 119*	*10/09/23 07:16*	*10/09/23 10:56*	*1*
Dibromofluoromethane (Surr)	*90*		*57 - 126*	*10/09/23 07:16*	*10/09/23 10:56*	*1*
Toluene-d8 (Surr)	*86*		*55 - 118*	*10/09/23 07:16*	*10/09/23 10:56*	*1*

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

Lab Sample ID: LCS 180-448681/8-A
Matrix: Solid
Analysis Batch: 448655

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448681

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	500	429		ug/Kg		86	65 - 137
1,1,2,2-Tetrachloroethane	500	508		ug/Kg		102	44 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	500	414		ug/Kg		83	49 - 130
1,1,2-Trichloroethane	500	492		ug/Kg		98	56 - 142
1,1-Dichloroethane	500	441		ug/Kg		88	59 - 124
1,1-Dichloroethene	500	482		ug/Kg		96	53 - 129
1,2-Dibromo-3-Chloropropane	500	513		ug/Kg		103	22 - 141
1,2-Dichlorobenzene	500	483		ug/Kg		97	66 - 116
1,2-Dichloroethane	500	447		ug/Kg		89	49 - 162
1,2-Dichloropropane	500	449		ug/Kg		90	65 - 126
1,2,4-Trichlorobenzene	500	401		ug/Kg		80	29 - 133
1,3-Dichlorobenzene	500	471		ug/Kg		94	75 - 116
1,4-Dichlorobenzene	500	469		ug/Kg		94	75 - 118
2-Butanone (MEK)	750	650	J	ug/Kg		87	31 - 152
2-Hexanone	750	544	J	ug/Kg		72	50 - 143
4-Methyl-2-pentanone (MIBK)	750	517	J	ug/Kg		69	45 - 154
Acetone	750	725	J	ug/Kg		97	27 - 150
Benzene	500	448		ug/Kg		90	72 - 122
Bromoform	500	625		ug/Kg		125	32 - 164
Bromomethane	500	519		ug/Kg		104	31 - 170
Carbon disulfide	500	436		ug/Kg		87	25 - 152
Carbon tetrachloride	500	453		ug/Kg		91	66 - 138
Chlorobenzene	500	459		ug/Kg		92	78 - 124
Chlorodibromomethane	500	533		ug/Kg		107	56 - 143
Chloroform	500	436		ug/Kg		87	64 - 123
Chloromethane	500	444		ug/Kg		89	52 - 160
Chloroethane	500	520		ug/Kg		104	26 - 158
cis-1,2-Dichloroethene	500	442		ug/Kg		88	71 - 118
cis-1,3-Dichloropropene	500	477		ug/Kg		95	66 - 134
Dichlorobromomethane	500	472		ug/Kg		94	62 - 137
Dichlorodifluoromethane	500	366		ug/Kg		73	40 - 148
Ethylbenzene	500	463		ug/Kg		93	76 - 119
1,2-Dibromoethane	500	496		ug/Kg		99	51 - 156
Cyclohexane	500	413		ug/Kg		83	55 - 170
Isopropylbenzene	500	462		ug/Kg		92	57 - 133
Methyl acetate	1000	1110	J	ug/Kg		111	10 - 170
Methyl tert-butyl ether	500	492		ug/Kg		98	28 - 147
Methylcyclohexane	500	423		ug/Kg		85	68 - 120
Methylene Chloride	500	424		ug/Kg		85	64 - 132
m-Xylene & p-Xylene	500	457		ug/Kg		91	71 - 118
o-Xylene	500	449		ug/Kg		90	73 - 119
Styrene	500	465		ug/Kg		93	74 - 126
Tetrachloroethene	500	451		ug/Kg		90	68 - 121
Toluene	500	451		ug/Kg		90	69 - 128
trans-1,2-Dichloroethene	500	438		ug/Kg		88	67 - 123
trans-1,3-Dichloropropene	500	551		ug/Kg		110	60 - 143
Trichloroethene	500	455		ug/Kg		91	69 - 121
Trichlorofluoromethane	500	393		ug/Kg		79	15 - 170

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

Lab Sample ID: LCS 180-448681/8-A
Matrix: Solid
Analysis Batch: 448655

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448681

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Vinyl chloride			500	538		ug/Kg		108	59 - 135		
Xylenes, Total			1000	906		ug/Kg		91	73 - 118		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*49 - 147*
4-Bromofluorobenzene (Surr)	*91*		*54 - 119*
Dibromofluoromethane (Surr)	*92*		*57 - 126*
Toluene-d8 (Surr)	*96*		*55 - 118*

Lab Sample ID: LCSD 180-448681/9-A
Matrix: Solid
Analysis Batch: 448655

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 448681

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			500	416		ug/Kg		83	65 - 137	3	40
1,1,2,2-Tetrachloroethane			500	523		ug/Kg		105	44 - 146	3	40
1,1,2-Trichloro-1,2,2-trifluoroethane			500	357		ug/Kg		71	49 - 130	15	40
1,1,2-Trichloroethane			500	498		ug/Kg		100	56 - 142	1	40
1,1-Dichloroethane			500	439		ug/Kg		88	59 - 124	0	40
1,1-Dichloroethene			500	467		ug/Kg		93	53 - 129	3	40
1,2-Dibromo-3-Chloropropane			500	532		ug/Kg		106	22 - 141	4	40
1,2-Dichlorobenzene			500	478		ug/Kg		96	66 - 116	1	40
1,2-Dichloroethane			500	445		ug/Kg		89	49 - 162	0	40
1,2-Dichloropropane			500	447		ug/Kg		89	65 - 126	1	40
1,2,4-Trichlorobenzene			500	402		ug/Kg		80	29 - 133	0	40
1,3-Dichlorobenzene			500	458		ug/Kg		92	75 - 116	3	40
1,4-Dichlorobenzene			500	460		ug/Kg		92	75 - 118	2	40
2-Butanone (MEK)			750	655	J	ug/Kg		87	31 - 152	1	40
2-Hexanone			750	565	J	ug/Kg		75	50 - 143	4	40
4-Methyl-2-pentanone (MIBK)			750	523	J	ug/Kg		70	45 - 154	1	40
Acetone			750	704	J	ug/Kg		94	27 - 150	3	40
Benzene			500	447		ug/Kg		89	72 - 122	0	40
Bromoform			500	641		ug/Kg		128	32 - 164	3	40
Bromomethane			500	514		ug/Kg		103	31 - 170	1	40
Carbon disulfide			500	422		ug/Kg		84	25 - 152	3	40
Carbon tetrachloride			500	442		ug/Kg		88	66 - 138	2	40
Chlorobenzene			500	460		ug/Kg		92	78 - 124	0	40
Chlorodibromomethane			500	548		ug/Kg		110	56 - 143	3	40
Chloroform			500	429		ug/Kg		86	64 - 123	2	40
Chloromethane			500	441		ug/Kg		88	52 - 160	1	40
Chloroethane			500	519		ug/Kg		104	26 - 158	0	40
cis-1,2-Dichloroethene			500	439		ug/Kg		88	71 - 118	1	40
cis-1,3-Dichloropropene			500	474		ug/Kg		95	66 - 134	1	40
Dichlorobromomethane			500	469		ug/Kg		94	62 - 137	1	40
Dichlorodifluoromethane			500	363		ug/Kg		73	40 - 148	1	40
Ethylbenzene			500	468		ug/Kg		94	76 - 119	1	40
1,2-Dibromoethane			500	517		ug/Kg		103	51 - 156	4	40
Cyclohexane			500	403		ug/Kg		81	55 - 170	3	40

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

Lab Sample ID: LCSD 180-448681/9-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 448655
Prep Batch: 448681

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Isopropylbenzene			500	459		ug/Kg		92	57 - 133	1	40
Methyl acetate			1000	1140	J	ug/Kg		114	10 - 170	3	40
Methyl tert-butyl ether			500	490		ug/Kg		98	28 - 147	0	40
Methylcyclohexane			500	407		ug/Kg		81	68 - 120	4	40
Methylene Chloride			500	421		ug/Kg		84	64 - 132	1	40
m-Xylene & p-Xylene			500	456		ug/Kg		91	71 - 118	0	40
o-Xylene			500	450		ug/Kg		90	73 - 119	0	40
Styrene			500	471		ug/Kg		94	74 - 126	1	40
Tetrachloroethene			500	452		ug/Kg		90	68 - 121	0	40
Toluene			500	455		ug/Kg		91	69 - 128	1	40
trans-1,2-Dichloroethene			500	433		ug/Kg		87	67 - 123	1	40
trans-1,3-Dichloropropene			500	554		ug/Kg		111	60 - 143	0	40
Trichloroethene			500	441		ug/Kg		88	69 - 121	3	40
Trichlorofluoromethane			500	387		ug/Kg		77	15 - 170	1	40
Vinyl chloride			500	532		ug/Kg		106	59 - 135	1	40
Xylenes, Total			1000	906		ug/Kg		91	73 - 118	0	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*49 - 147*
4-Bromofluorobenzene (Surr)	*95*		*54 - 119*
Dibromofluoromethane (Surr)	*97*		*57 - 126*
Toluene-d8 (Surr)	*100*		*55 - 118*

Lab Sample ID: MB 180-448748/7
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 448748

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.7		5.0	1.7	ug/Kg			10/10/23 10:48	1
1,1,2,2-Tetrachloroethane	<1.5		5.0	1.5	ug/Kg			10/10/23 10:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<2.0		5.0	2.0	ug/Kg			10/10/23 10:48	1
1,1,2-Trichloroethane	<0.99		5.0	0.99	ug/Kg			10/10/23 10:48	1
1,1-Dichloroethane	<1.6		5.0	1.6	ug/Kg			10/10/23 10:48	1
1,1-Dichloroethene	<2.3		5.0	2.3	ug/Kg			10/10/23 10:48	1
1,2-Dibromo-3-Chloropropane	<3.2		5.0	3.2	ug/Kg			10/10/23 10:48	1
1,2-Dichlorobenzene	<1.7		5.0	1.7	ug/Kg			10/10/23 10:48	1
1,2-Dichloroethane	<1.4		5.0	1.4	ug/Kg			10/10/23 10:48	1
1,2-Dichloropropane	<1.3		5.0	1.3	ug/Kg			10/10/23 10:48	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/Kg			10/10/23 10:48	1
1,3-Dichlorobenzene	<3.1		5.0	3.1	ug/Kg			10/10/23 10:48	1
1,4-Dichlorobenzene	<1.5		5.0	1.5	ug/Kg			10/10/23 10:48	1
2-Butanone (MEK)	<2.5		25	2.5	ug/Kg			10/10/23 10:48	1
2-Hexanone	<1.6		25	1.6	ug/Kg			10/10/23 10:48	1
4-Methyl-2-pentanone (MIBK)	<1.8		25	1.8	ug/Kg			10/10/23 10:48	1
Acetone	<3.9		25	3.9	ug/Kg			10/10/23 10:48	1
Benzene	<1.4		5.0	1.4	ug/Kg			10/10/23 10:48	1
Bromoform	<2.5		5.0	2.5	ug/Kg			10/10/23 10:48	1
Bromomethane	<2.3		5.0	2.3	ug/Kg			10/10/23 10:48	1

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

Lab Sample ID: MB 180-448748/7
Matrix: Solid
Analysis Batch: 448748

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<4.0		5.0	4.0	ug/Kg			10/10/23 10:48	1
Carbon tetrachloride	<2.0		5.0	2.0	ug/Kg			10/10/23 10:48	1
Chlorobenzene	<1.3		5.0	1.3	ug/Kg			10/10/23 10:48	1
Chlorodibromomethane	<2.5		5.0	2.5	ug/Kg			10/10/23 10:48	1
Chloroform	<3.4		5.0	3.4	ug/Kg			10/10/23 10:48	1
Chloromethane	<2.0		5.0	2.0	ug/Kg			10/10/23 10:48	1
Chloroethane	<2.9		5.0	2.9	ug/Kg			10/10/23 10:48	1
cis-1,2-Dichloroethene	<1.5		5.0	1.5	ug/Kg			10/10/23 10:48	1
cis-1,3-Dichloropropene	<2.2		5.0	2.2	ug/Kg			10/10/23 10:48	1
Dichlorobromomethane	<2.3		5.0	2.3	ug/Kg			10/10/23 10:48	1
Dichlorodifluoromethane	<2.5		5.0	2.5	ug/Kg			10/10/23 10:48	1
Ethylbenzene	<1.9		5.0	1.9	ug/Kg			10/10/23 10:48	1
1,2-Dibromoethane	<1.4		5.0	1.4	ug/Kg			10/10/23 10:48	1
Cyclohexane	<2.4		5.0	2.4	ug/Kg			10/10/23 10:48	1
Isopropylbenzene	<2.6		5.0	2.6	ug/Kg			10/10/23 10:48	1
Methyl acetate	<7.4		25	7.4	ug/Kg			10/10/23 10:48	1
Methyl tert-butyl ether	<1.5		5.0	1.5	ug/Kg			10/10/23 10:48	1
Methylcyclohexane	<2.4		5.0	2.4	ug/Kg			10/10/23 10:48	1
Methylene Chloride	<4.5		5.0	4.5	ug/Kg			10/10/23 10:48	1
Styrene	<1.5		5.0	1.5	ug/Kg			10/10/23 10:48	1
Tetrachloroethene	<2.0		5.0	2.0	ug/Kg			10/10/23 10:48	1
Toluene	<1.4		5.0	1.4	ug/Kg			10/10/23 10:48	1
trans-1,2-Dichloroethene	<1.8		5.0	1.8	ug/Kg			10/10/23 10:48	1
trans-1,3-Dichloropropene	<2.3		5.0	2.3	ug/Kg			10/10/23 10:48	1
Trichloroethene	<1.6		5.0	1.6	ug/Kg			10/10/23 10:48	1
Trichlorofluoromethane	<4.2		5.0	4.2	ug/Kg			10/10/23 10:48	1
Vinyl chloride	<3.6		5.0	3.6	ug/Kg			10/10/23 10:48	1
Xylenes, Total	<7.2		10	7.2	ug/Kg			10/10/23 10:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 135*		*10/10/23 10:48*	*1*
4-Bromofluorobenzene (Surr)	*82*		*60 - 124*		*10/10/23 10:48*	*1*
Dibromofluoromethane (Surr)	*94*		*69 - 126*		*10/10/23 10:48*	*1*
Toluene-d8 (Surr)	*74*		*67 - 134*		*10/10/23 10:48*	*1*

Lab Sample ID: LCS 180-448748/4
Matrix: Solid
Analysis Batch: 448748

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	40.0	35.2		ug/Kg		88	72 - 134
1,1,2,2-Tetrachloroethane	40.0	32.5		ug/Kg		81	36 - 170
1,1,2-Trichloro-1,2,2-trifluoroethane	40.0	35.7		ug/Kg		89	59 - 135
1,1,2-Trichloroethane	40.0	32.7		ug/Kg		82	66 - 128
1,1-Dichloroethane	40.0	37.7		ug/Kg		94	73 - 124
1,1-Dichloroethene	40.0	33.1		ug/Kg		83	55 - 136
1,2-Dibromo-3-Chloropropane	40.0	28.5		ug/Kg		71	30 - 163
1,2-Dichlorobenzene	40.0	34.8		ug/Kg		87	76 - 120

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

Lab Sample ID: LCS 180-448748/4
Matrix: Solid
Analysis Batch: 448748

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	40.0	35.0		ug/Kg		88	64 - 140
1,2-Dichloropropane	40.0	36.8		ug/Kg		92	77 - 119
1,2,4-Trichlorobenzene	40.0	36.1		ug/Kg		90	22 - 170
1,3-Dichlorobenzene	40.0	35.9		ug/Kg		90	77 - 121
1,4-Dichlorobenzene	40.0	35.1		ug/Kg		88	79 - 120
2-Butanone (MEK)	40.0	41.8		ug/Kg		105	39 - 157
2-Hexanone	40.0	36.7		ug/Kg		92	42 - 152
4-Methyl-2-pentanone (MIBK)	40.0	33.4		ug/Kg		83	51 - 147
Acetone	40.0	42.9		ug/Kg		107	23 - 170
Benzene	40.0	36.5		ug/Kg		91	77 - 120
Bromoform	40.0	35.5		ug/Kg		89	37 - 147
Bromomethane	40.0	41.4		ug/Kg		104	47 - 149
Carbon disulfide	40.0	36.9		ug/Kg		92	40 - 156
Carbon tetrachloride	40.0	34.2		ug/Kg		85	73 - 130
Chlorobenzene	40.0	33.9		ug/Kg		85	79 - 122
Chlorodibromomethane	40.0	33.5		ug/Kg		84	60 - 134
Chloroform	40.0	38.2		ug/Kg		96	73 - 126
Chloromethane	40.0	47.0		ug/Kg		117	46 - 151
Chloroethane	40.0	38.2		ug/Kg		96	37 - 159
cis-1,2-Dichloroethene	40.0	37.5		ug/Kg		94	77 - 118
cis-1,3-Dichloropropene	40.0	33.4		ug/Kg		84	73 - 127
Dichlorobromomethane	40.0	37.1		ug/Kg		93	75 - 123
Dichlorodifluoromethane	40.0	34.5		ug/Kg		86	26 - 149
Ethylbenzene	40.0	34.4		ug/Kg		86	79 - 119
1,2-Dibromoethane	40.0	34.4		ug/Kg		86	59 - 137
Cyclohexane	40.0	34.7		ug/Kg		87	63 - 143
Isopropylbenzene	40.0	35.2		ug/Kg		88	70 - 125
Methyl acetate	80.0	78.1		ug/Kg		98	20 - 170
Methyl tert-butyl ether	40.0	34.9		ug/Kg		87	58 - 132
Methylcyclohexane	40.0	34.3		ug/Kg		86	70 - 125
Methylene Chloride	40.0	38.5		ug/Kg		96	67 - 131
m-Xylene & p-Xylene	40.0	34.0		ug/Kg		85	77 - 120
o-Xylene	40.0	33.8		ug/Kg		84	78 - 118
Styrene	40.0	36.0		ug/Kg		90	80 - 120
Tetrachloroethene	40.0	36.7		ug/Kg		92	71 - 121
Toluene	40.0	34.5		ug/Kg		86	76 - 120
trans-1,2-Dichloroethene	40.0	37.2		ug/Kg		93	75 - 122
trans-1,3-Dichloropropene	40.0	32.3		ug/Kg		81	68 - 133
Trichloroethene	40.0	36.7		ug/Kg		92	69 - 118
Trichlorofluoromethane	40.0	38.8		ug/Kg		97	32 - 149
Vinyl chloride	40.0	38.2		ug/Kg		95	64 - 134
Xylenes, Total	80.0	67.8		ug/Kg		85	78 - 118

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*73 - 135*
4-Bromofluorobenzene (Surr)	*94*		*60 - 124*
Dibromofluoromethane (Surr)	*103*		*69 - 126*
Toluene-d8 (Surr)	*93*		*67 - 134*

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

Lab Sample ID: LCSD 180-448748/18
Matrix: Solid
Analysis Batch: 448748

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			40.0	34.5		ug/Kg		86	72 - 134	2	20
1,1,2,2-Tetrachloroethane			40.0	33.4		ug/Kg		84	36 - 170	3	23
1,1,2-Trichloro-1,2,2-trifluoroethane			40.0	34.0		ug/Kg		85	59 - 135	5	28
1,1,2-Trichloroethane			40.0	32.9		ug/Kg		82	66 - 128	1	21
1,1-Dichloroethane			40.0	36.3		ug/Kg		91	73 - 124	4	20
1,1-Dichloroethene			40.0	31.8		ug/Kg		79	55 - 136	4	21
1,2-Dibromo-3-Chloropropane			40.0	29.3		ug/Kg		73	30 - 163	3	34
1,2-Dichlorobenzene			40.0	33.8		ug/Kg		84	76 - 120	3	20
1,2-Dichloroethane			40.0	34.6		ug/Kg		86	64 - 140	1	20
1,2-Dichloropropane			40.0	37.2		ug/Kg		93	77 - 119	1	20
1,2,4-Trichlorobenzene			40.0	35.3		ug/Kg		88	22 - 170	2	29
1,3-Dichlorobenzene			40.0	34.4		ug/Kg		86	77 - 121	4	20
1,4-Dichlorobenzene			40.0	34.3		ug/Kg		86	79 - 120	2	20
2-Butanone (MEK)			40.0	33.5		ug/Kg		84	39 - 157	22	33
2-Hexanone			40.0	31.6		ug/Kg		79	42 - 152	15	30
4-Methyl-2-pentanone (MIBK)			40.0	33.8		ug/Kg		84	51 - 147	1	27
Acetone			40.0	35.4		ug/Kg		89	23 - 170	19	35
Benzene			40.0	34.7		ug/Kg		87	77 - 120	5	20
Bromoform			40.0	35.9		ug/Kg		90	37 - 147	1	23
Bromomethane			40.0	35.7		ug/Kg		89	47 - 149	15	25
Carbon disulfide			40.0	35.4		ug/Kg		88	40 - 156	4	25
Carbon tetrachloride			40.0	32.9		ug/Kg		82	73 - 130	4	21
Chlorobenzene			40.0	32.6		ug/Kg		82	79 - 122	4	20
Chlorodibromomethane			40.0	32.9		ug/Kg		82	60 - 134	2	40
Chloroform			40.0	36.0		ug/Kg		90	73 - 126	6	20
Chloromethane			40.0	46.4		ug/Kg		116	46 - 151	1	33
Chloroethane			40.0	37.5		ug/Kg		94	37 - 159	2	25
cis-1,2-Dichloroethene			40.0	36.2		ug/Kg		91	77 - 118	3	20
cis-1,3-Dichloropropene			40.0	33.1		ug/Kg		83	73 - 127	1	20
Dichlorobromomethane			40.0	35.3		ug/Kg		88	75 - 123	5	20
Dichlorodifluoromethane			40.0	34.8		ug/Kg		87	26 - 149	1	24
Ethylbenzene			40.0	33.0		ug/Kg		82	79 - 119	4	20
1,2-Dibromoethane			40.0	33.7		ug/Kg		84	59 - 137	2	20
Cyclohexane			40.0	34.6		ug/Kg		87	63 - 143	0	25
Isopropylbenzene			40.0	34.1		ug/Kg		85	70 - 125	3	21
Methyl acetate			80.0	88.8		ug/Kg		111	20 - 170	13	33
Methyl tert-butyl ether			40.0	35.0		ug/Kg		88	58 - 132	0	24
Methylcyclohexane			40.0	34.2		ug/Kg		85	70 - 125	0	22
Methylene Chloride			40.0	36.2		ug/Kg		90	67 - 131	6	32
m-Xylene & p-Xylene			40.0	32.9		ug/Kg		82	77 - 120	3	20
o-Xylene			40.0	32.9		ug/Kg		82	78 - 118	3	20
Styrene			40.0	33.8		ug/Kg		84	80 - 120	6	20
Tetrachloroethene			40.0	36.2		ug/Kg		90	71 - 121	2	21
Toluene			40.0	33.1		ug/Kg		83	76 - 120	4	20
trans-1,2-Dichloroethene			40.0	35.9		ug/Kg		90	75 - 122	3	20
trans-1,3-Dichloropropene			40.0	32.6		ug/Kg		81	68 - 133	1	20
Trichloroethene			40.0	35.7		ug/Kg		89	69 - 118	3	20
Trichlorofluoromethane			40.0	35.6		ug/Kg		89	32 - 149	9	39

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

Lab Sample ID: LCSD 180-448748/18
Matrix: Solid
Analysis Batch: 448748

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vinyl chloride			40.0	36.8		ug/Kg		92	64 - 134	4	23
Xylenes, Total			80.0	65.8		ug/Kg		82	78 - 118	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*73 - 135*
4-Bromofluorobenzene (Surr)	*88*		*60 - 124*
Dibromofluoromethane (Surr)	*95*		*69 - 126*
Toluene-d8 (Surr)	*86*		*67 - 134*

Lab Sample ID: MB 180-449021/7
Matrix: Solid
Analysis Batch: 449021

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.7		5.0	1.7	ug/Kg			10/12/23 10:53	1
1,1,2,2-Tetrachloroethane	<1.5		5.0	1.5	ug/Kg			10/12/23 10:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<2.0		5.0	2.0	ug/Kg			10/12/23 10:53	1
1,1,2-Trichloroethane	<0.99		5.0	0.99	ug/Kg			10/12/23 10:53	1
1,1-Dichloroethane	<1.6		5.0	1.6	ug/Kg			10/12/23 10:53	1
1,1-Dichloroethene	<2.3		5.0	2.3	ug/Kg			10/12/23 10:53	1
1,2-Dibromo-3-Chloropropane	<3.2		5.0	3.2	ug/Kg			10/12/23 10:53	1
1,2-Dichlorobenzene	<1.7		5.0	1.7	ug/Kg			10/12/23 10:53	1
1,2-Dichloroethane	<1.4		5.0	1.4	ug/Kg			10/12/23 10:53	1
1,2-Dichloropropane	<1.3		5.0	1.3	ug/Kg			10/12/23 10:53	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/Kg			10/12/23 10:53	1
1,3-Dichlorobenzene	<3.1		5.0	3.1	ug/Kg			10/12/23 10:53	1
1,4-Dichlorobenzene	<1.5		5.0	1.5	ug/Kg			10/12/23 10:53	1
2-Butanone (MEK)	<2.5		25	2.5	ug/Kg			10/12/23 10:53	1
2-Hexanone	<1.6		25	1.6	ug/Kg			10/12/23 10:53	1
4-Methyl-2-pentanone (MIBK)	<1.8		25	1.8	ug/Kg			10/12/23 10:53	1
Acetone	<3.9		25	3.9	ug/Kg			10/12/23 10:53	1
Benzene	<1.4		5.0	1.4	ug/Kg			10/12/23 10:53	1
Bromoform	<2.5		5.0	2.5	ug/Kg			10/12/23 10:53	1
Bromomethane	<2.3		5.0	2.3	ug/Kg			10/12/23 10:53	1
Carbon disulfide	<4.0		5.0	4.0	ug/Kg			10/12/23 10:53	1
Carbon tetrachloride	<2.0		5.0	2.0	ug/Kg			10/12/23 10:53	1
Chlorobenzene	<1.3		5.0	1.3	ug/Kg			10/12/23 10:53	1
Chlorodibromomethane	<2.5		5.0	2.5	ug/Kg			10/12/23 10:53	1
Chloroform	<3.4		5.0	3.4	ug/Kg			10/12/23 10:53	1
Chloromethane	<2.0		5.0	2.0	ug/Kg			10/12/23 10:53	1
Chloroethane	<2.9		5.0	2.9	ug/Kg			10/12/23 10:53	1
cis-1,2-Dichloroethene	<1.5		5.0	1.5	ug/Kg			10/12/23 10:53	1
cis-1,3-Dichloropropene	<2.2		5.0	2.2	ug/Kg			10/12/23 10:53	1
Dichlorobromomethane	<2.3		5.0	2.3	ug/Kg			10/12/23 10:53	1
Dichlorodifluoromethane	<2.5		5.0	2.5	ug/Kg			10/12/23 10:53	1
Ethylbenzene	<1.9		5.0	1.9	ug/Kg			10/12/23 10:53	1
1,2-Dibromoethane	<1.4		5.0	1.4	ug/Kg			10/12/23 10:53	1
Cyclohexane	<2.4		5.0	2.4	ug/Kg			10/12/23 10:53	1

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

Lab Sample ID: MB 180-449021/7
Matrix: Solid
Analysis Batch: 449021

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	<2.6		5.0	2.6	ug/Kg			10/12/23 10:53	1
Methyl acetate	<7.4		25	7.4	ug/Kg			10/12/23 10:53	1
Methyl tert-butyl ether	<1.5		5.0	1.5	ug/Kg			10/12/23 10:53	1
Methylcyclohexane	<2.4		5.0	2.4	ug/Kg			10/12/23 10:53	1
Methylene Chloride	<4.5		5.0	4.5	ug/Kg			10/12/23 10:53	1
Styrene	<1.5		5.0	1.5	ug/Kg			10/12/23 10:53	1
Tetrachloroethene	<2.0		5.0	2.0	ug/Kg			10/12/23 10:53	1
Toluene	<1.4		5.0	1.4	ug/Kg			10/12/23 10:53	1
trans-1,2-Dichloroethene	<1.8		5.0	1.8	ug/Kg			10/12/23 10:53	1
trans-1,3-Dichloropropene	<2.3		5.0	2.3	ug/Kg			10/12/23 10:53	1
Trichloroethene	<1.6		5.0	1.6	ug/Kg			10/12/23 10:53	1
Trichlorofluoromethane	<4.2		5.0	4.2	ug/Kg			10/12/23 10:53	1
Vinyl chloride	<3.6		5.0	3.6	ug/Kg			10/12/23 10:53	1
Xylenes, Total	<7.2		10	7.2	ug/Kg			10/12/23 10:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*73 - 135*		*10/12/23 10:53*	*1*
4-Bromofluorobenzene (Surr)	*90*		*60 - 124*		*10/12/23 10:53*	*1*
Dibromofluoromethane (Surr)	*98*		*69 - 126*		*10/12/23 10:53*	*1*
Toluene-d8 (Surr)	*80*		*67 - 134*		*10/12/23 10:53*	*1*

Lab Sample ID: LCS 180-449021/3
Matrix: Solid
Analysis Batch: 449021

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	40.0	33.6		ug/Kg		84	72 - 134
1,1,2,2-Tetrachloroethane	40.0	32.3		ug/Kg		81	36 - 170
1,1,2-Trichloro-1,2,2-trifluoroethane	40.0	29.9		ug/Kg		75	59 - 135
1,1,2-Trichloroethane	40.0	32.3		ug/Kg		81	66 - 128
1,1-Dichloroethane	40.0	36.4		ug/Kg		91	73 - 124
1,1-Dichloroethene	40.0	33.2		ug/Kg		83	55 - 136
1,2-Dibromo-3-Chloropropane	40.0	27.4		ug/Kg		68	30 - 163
1,2-Dichlorobenzene	40.0	33.6		ug/Kg		84	76 - 120
1,2-Dichloroethane	40.0	33.9		ug/Kg		85	64 - 140
1,2-Dichloropropane	40.0	36.6		ug/Kg		91	77 - 119
1,2,4-Trichlorobenzene	40.0	35.0		ug/Kg		87	22 - 170
1,3-Dichlorobenzene	40.0	34.8		ug/Kg		87	77 - 121
1,4-Dichlorobenzene	40.0	34.4		ug/Kg		86	79 - 120
2-Butanone (MEK)	40.0	37.0		ug/Kg		92	39 - 157
2-Hexanone	40.0	36.9		ug/Kg		92	42 - 152
4-Methyl-2-pentanone (MIBK)	40.0	32.2		ug/Kg		81	51 - 147
Acetone	40.0	45.0		ug/Kg		113	23 - 170
Benzene	40.0	34.9		ug/Kg		87	77 - 120
Bromoform	40.0	35.6		ug/Kg		89	37 - 147
Bromomethane	40.0	37.6		ug/Kg		94	47 - 149
Carbon disulfide	40.0	35.2		ug/Kg		88	40 - 156
Carbon tetrachloride	40.0	32.7		ug/Kg		82	73 - 130

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

Lab Sample ID: LCS 180-449021/3
Matrix: Solid
Analysis Batch: 449021

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzene	40.0	33.0		ug/Kg		83	79 - 122
Chlorodibromomethane	40.0	33.0		ug/Kg		82	60 - 134
Chloroform	40.0	37.0		ug/Kg		93	73 - 126
Chloromethane	40.0	39.5		ug/Kg		99	46 - 151
Chloroethane	40.0	36.6		ug/Kg		92	37 - 159
cis-1,2-Dichloroethene	40.0	36.0		ug/Kg		90	77 - 118
cis-1,3-Dichloropropene	40.0	32.6		ug/Kg		82	73 - 127
Dichlorobromomethane	40.0	36.1		ug/Kg		90	75 - 123
Dichlorodifluoromethane	40.0	34.6		ug/Kg		86	26 - 149
Ethylbenzene	40.0	33.6		ug/Kg		84	79 - 119
1,2-Dibromoethane	40.0	33.0		ug/Kg		82	59 - 137
Cyclohexane	40.0	34.6		ug/Kg		87	63 - 143
Isopropylbenzene	40.0	33.9		ug/Kg		85	70 - 125
Methyl acetate	80.0	87.7		ug/Kg		110	20 - 170
Methyl tert-butyl ether	40.0	35.3		ug/Kg		88	58 - 132
Methylcyclohexane	40.0	33.3		ug/Kg		83	70 - 125
Methylene Chloride	40.0	32.3		ug/Kg		81	67 - 131
m-Xylene & p-Xylene	40.0	33.2		ug/Kg		83	77 - 120
o-Xylene	40.0	33.5		ug/Kg		84	78 - 118
Styrene	40.0	34.0		ug/Kg		85	80 - 120
Tetrachloroethene	40.0	36.4		ug/Kg		91	71 - 121
Toluene	40.0	33.2		ug/Kg		83	76 - 120
trans-1,2-Dichloroethene	40.0	35.6		ug/Kg		89	75 - 122
trans-1,3-Dichloropropene	40.0	31.9		ug/Kg		80	68 - 133
Trichloroethene	40.0	35.8		ug/Kg		89	69 - 118
Trichlorofluoromethane	40.0	28.6		ug/Kg		72	32 - 149
Vinyl chloride	40.0	36.5		ug/Kg		91	64 - 134
Xylenes, Total	80.0	66.7		ug/Kg		83	78 - 118

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*73 - 135*
4-Bromofluorobenzene (Surr)	*92*		*60 - 124*
Dibromofluoromethane (Surr)	*99*		*69 - 126*
Toluene-d8 (Surr)	*88*		*67 - 134*

Lab Sample ID: LCSD 180-449021/4
Matrix: Solid
Analysis Batch: 449021

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	40.0	35.6		ug/Kg		89	72 - 134	6	20
1,1,2,2-Tetrachloroethane	40.0	31.2		ug/Kg		78	36 - 170	4	23
1,1,2-Trichloro-1,2,2-trifluoroethane	40.0	31.7		ug/Kg		79	59 - 135	6	28
1,1,2-Trichloroethane	40.0	32.2		ug/Kg		81	66 - 128	0	21
1,1-Dichloroethane	40.0	37.3		ug/Kg		93	73 - 124	3	20
1,1-Dichloroethene	40.0	36.4		ug/Kg		91	55 - 136	9	21
1,2-Dibromo-3-Chloropropane	40.0	29.0		ug/Kg		72	30 - 163	6	34
1,2-Dichlorobenzene	40.0	34.5		ug/Kg		86	76 - 120	3	20

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

Lab Sample ID: LCSD 180-449021/4
Matrix: Solid
Analysis Batch: 449021

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloroethane			40.0	34.5		ug/Kg		86	64 - 140	2	20
1,2-Dichloropropane			40.0	36.3		ug/Kg		91	77 - 119	1	20
1,2,4-Trichlorobenzene			40.0	35.7		ug/Kg		89	22 - 170	2	29
1,3-Dichlorobenzene			40.0	34.9		ug/Kg		87	77 - 121	0	20
1,4-Dichlorobenzene			40.0	34.6		ug/Kg		87	79 - 120	0	20
2-Butanone (MEK)			40.0	34.0		ug/Kg		85	39 - 157	9	33
2-Hexanone			40.0	33.3		ug/Kg		83	42 - 152	10	30
4-Methyl-2-pentanone (MIBK)			40.0	32.7		ug/Kg		82	51 - 147	1	27
Acetone			40.0	36.6		ug/Kg		92	23 - 170	21	35
Benzene			40.0	35.6		ug/Kg		89	77 - 120	2	20
Bromoform			40.0	34.0		ug/Kg		85	37 - 147	4	23
Bromomethane			40.0	36.6		ug/Kg		92	47 - 149	3	25
Carbon disulfide			40.0	36.8		ug/Kg		92	40 - 156	4	25
Carbon tetrachloride			40.0	35.0		ug/Kg		88	73 - 130	7	21
Chlorobenzene			40.0	33.9		ug/Kg		85	79 - 122	3	20
Chlorodibromomethane			40.0	32.4		ug/Kg		81	60 - 134	2	40
Chloroform			40.0	37.5		ug/Kg		94	73 - 126	1	20
Chloromethane			40.0	43.0		ug/Kg		107	46 - 151	8	33
Chloroethane			40.0	36.2		ug/Kg		90	37 - 159	1	25
cis-1,2-Dichloroethene			40.0	37.0		ug/Kg		92	77 - 118	3	20
cis-1,3-Dichloropropene			40.0	34.0		ug/Kg		85	73 - 127	4	20
Dichlorobromomethane			40.0	36.0		ug/Kg		90	75 - 123	0	20
Dichlorodifluoromethane			40.0	39.4		ug/Kg		98	26 - 149	13	24
Ethylbenzene			40.0	34.6		ug/Kg		86	79 - 119	3	20
1,2-Dibromoethane			40.0	32.5		ug/Kg		81	59 - 137	1	20
Cyclohexane			40.0	34.9		ug/Kg		87	63 - 143	1	25
Isopropylbenzene			40.0	34.7		ug/Kg		87	70 - 125	2	21
Methyl acetate			80.0	84.4		ug/Kg		105	20 - 170	4	33
Methyl tert-butyl ether			40.0	35.6		ug/Kg		89	58 - 132	1	24
Methylcyclohexane			40.0	35.4		ug/Kg		88	70 - 125	6	22
Methylene Chloride			40.0	33.2		ug/Kg		83	67 - 131	3	32
m-Xylene & p-Xylene			40.0	34.0		ug/Kg		85	77 - 120	2	20
o-Xylene			40.0	34.5		ug/Kg		86	78 - 118	3	20
Styrene			40.0	34.4		ug/Kg		86	80 - 120	1	20
Tetrachloroethene			40.0	37.6		ug/Kg		94	71 - 121	3	21
Toluene			40.0	34.4		ug/Kg		86	76 - 120	4	20
trans-1,2-Dichloroethene			40.0	36.6		ug/Kg		92	75 - 122	3	20
trans-1,3-Dichloropropene			40.0	31.5		ug/Kg		79	68 - 133	1	20
Trichloroethene			40.0	35.8		ug/Kg		89	69 - 118	0	20
Trichlorofluoromethane			40.0	36.0		ug/Kg		90	32 - 149	23	39
Vinyl chloride			40.0	38.4		ug/Kg		96	64 - 134	5	23
Xylenes, Total			80.0	68.5		ug/Kg		86	78 - 118	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*73 - 135*
4-Bromofluorobenzene (Surr)	*94*		*60 - 124*
Dibromofluoromethane (Surr)	*98*		*69 - 126*
Toluene-d8 (Surr)	*91*		*67 - 134*

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

Lab Sample ID: MB 180-449023/8
Matrix: Solid
Analysis Batch: 449023

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<3.0		5.0	3.0	ug/L			10/12/23 11:21	1
1,1,2,2-Tetrachloroethane	<3.0		5.0	3.0	ug/L			10/12/23 11:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<4.3		5.0	4.3	ug/L			10/12/23 11:21	1
1,1,2-Trichloroethane	<2.3		5.0	2.3	ug/L			10/12/23 11:21	1
1,1-Dichloroethane	<3.1		5.0	3.1	ug/L			10/12/23 11:21	1
1,1-Dichloroethene	<2.8		5.0	2.8	ug/L			10/12/23 11:21	1
1,2-Dibromo-3-Chloropropane	<4.4		5.0	4.4	ug/L			10/12/23 11:21	1
1,2-Dichlorobenzene	<1.8		5.0	1.8	ug/L			10/12/23 11:21	1
1,2-Dichloroethane	<2.9		5.0	2.9	ug/L			10/12/23 11:21	1
1,2-Dichloropropane	<3.3		5.0	3.3	ug/L			10/12/23 11:21	1
1,2,4-Trichlorobenzene	<3.9		5.0	3.9	ug/L			10/12/23 11:21	1
1,3-Dichlorobenzene	<2.5		5.0	2.5	ug/L			10/12/23 11:21	1
1,4-Dichlorobenzene	<2.7		5.0	2.7	ug/L			10/12/23 11:21	1
2-Butanone (MEK)	<13		25	13	ug/L			10/12/23 11:21	1
2-Hexanone	<16		25	16	ug/L			10/12/23 11:21	1
4-Methyl-2-pentanone (MIBK)	<15		25	15	ug/L			10/12/23 11:21	1
Acetone	<17		25	17	ug/L			10/12/23 11:21	1
Benzene	<3.0		5.0	3.0	ug/L			10/12/23 11:21	1
Bromoform	<4.9		5.0	4.9	ug/L			10/12/23 11:21	1
Bromomethane	<4.4		5.0	4.4	ug/L			10/12/23 11:21	1
Carbon disulfide	<4.4		5.0	4.4	ug/L			10/12/23 11:21	1
Carbon tetrachloride	<4.4		5.0	4.4	ug/L			10/12/23 11:21	1
Chlorobenzene	<2.5		5.0	2.5	ug/L			10/12/23 11:21	1
Chlorodibromomethane	<4.2		5.0	4.2	ug/L			10/12/23 11:21	1
Chloroform	<3.0		5.0	3.0	ug/L			10/12/23 11:21	1
Chloromethane	<4.5		5.0	4.5	ug/L			10/12/23 11:21	1
Chloroethane	<4.5		5.0	4.5	ug/L			10/12/23 11:21	1
cis-1,2-Dichloroethene	<3.5		5.0	3.5	ug/L			10/12/23 11:21	1
cis-1,3-Dichloropropene	<3.0		5.0	3.0	ug/L			10/12/23 11:21	1
Dichlorobromomethane	<3.2		5.0	3.2	ug/L			10/12/23 11:21	1
Dichlorodifluoromethane	<4.2		5.0	4.2	ug/L			10/12/23 11:21	1
Ethylbenzene	<2.5		5.0	2.5	ug/L			10/12/23 11:21	1
1,2-Dibromoethane	<2.5		5.0	2.5	ug/L			10/12/23 11:21	1
Cyclohexane	<3.2		5.0	3.2	ug/L			10/12/23 11:21	1
Isopropylbenzene	<1.7		5.0	1.7	ug/L			10/12/23 11:21	1
Methyl acetate	<8.4		25	8.4	ug/L			10/12/23 11:21	1
Methyl tert-butyl ether	<3.0		5.0	3.0	ug/L			10/12/23 11:21	1
Methylcyclohexane	<3.0		5.0	3.0	ug/L			10/12/23 11:21	1
Methylene Chloride	<4.4		5.0	4.4	ug/L			10/12/23 11:21	1
Styrene	<2.4		5.0	2.4	ug/L			10/12/23 11:21	1
Tetrachloroethene	<2.3		5.0	2.3	ug/L			10/12/23 11:21	1
Toluene	<2.3		5.0	2.3	ug/L			10/12/23 11:21	1
trans-1,2-Dichloroethene	<3.4		5.0	3.4	ug/L			10/12/23 11:21	1
trans-1,3-Dichloropropene	<2.9		5.0	2.9	ug/L			10/12/23 11:21	1
Trichloroethene	<3.4		5.0	3.4	ug/L			10/12/23 11:21	1
Trichlorofluoromethane	<4.4		5.0	4.4	ug/L			10/12/23 11:21	1
Vinyl chloride	<2.0		5.0	2.0	ug/L			10/12/23 11:21	1
Xylenes, Total	<4.5		10	4.5	ug/L			10/12/23 11:21	1

Method: EPA 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-449023/8
Matrix: Solid
Analysis Batch: 449023

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*94*		*52 - 151*		*10/12/23 11:21*	*1*
4-Bromofluorobenzene (Surr)	*74*		*49 - 118*		*10/12/23 11:21*	*1*
Dibromofluoromethane (Surr)	*100*		*60 - 132*		*10/12/23 11:21*	*1*
Toluene-d8 (Surr)	*90*		*53 - 124*		*10/12/23 11:21*	*1*

Lab Sample ID: LCS 180-449023/3
Matrix: Solid
Analysis Batch: 449023

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	10.0	9.36		ug/L		94	64 - 133
1,1,2,2-Tetrachloroethane	10.0	9.84		ug/L		98	47 - 147
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	9.30		ug/L		93	48 - 134
1,1,2-Trichloroethane	10.0	9.76		ug/L		98	59 - 137
1,1-Dichloroethane	10.0	9.37		ug/L		94	59 - 125
1,1-Dichloroethene	10.0	10.2		ug/L		102	49 - 132
1,2-Dibromo-3-Chloropropane	10.0	9.67		ug/L		97	10 - 170
1,2-Dichlorobenzene	10.0	10.2		ug/L		102	68 - 116
1,2-Dichloroethane	10.0	9.47		ug/L		95	57 - 149
1,2-Dichloropropane	10.0	9.65		ug/L		96	65 - 129
1,2,4-Trichlorobenzene	10.0	7.57		ug/L		76	15 - 169
1,3-Dichlorobenzene	10.0	9.71		ug/L		97	70 - 119
1,4-Dichlorobenzene	10.0	9.81		ug/L		98	74 - 117
2-Butanone (MEK)	15.0	18.4	J	ug/L		122	35 - 158
2-Hexanone	15.0	<16		ug/L		89	38 - 157
4-Methyl-2-pentanone (MIBK)	15.0	<15		ug/L		66	29 - 167
Acetone	15.0	21.7	J	ug/L		145	29 - 163
Benzene	10.0	9.81		ug/L		98	68 - 122
Bromoform	10.0	12.4		ug/L		124	31 - 164
Bromomethane	10.0	12.2		ug/L		122	20 - 170
Carbon disulfide	10.0	9.90		ug/L		99	32 - 139
Carbon tetrachloride	10.0	10.1		ug/L		101	60 - 135
Chlorobenzene	10.0	10.0		ug/L		100	72 - 123
Chlorodibromomethane	10.0	10.9		ug/L		109	51 - 144
Chloroform	10.0	9.40		ug/L		94	62 - 121
Chloromethane	10.0	10.8		ug/L		108	37 - 170
Chloroethane	10.0	11.0		ug/L		110	10 - 170
cis-1,2-Dichloroethene	10.0	9.27		ug/L		93	64 - 122
cis-1,3-Dichloropropene	10.0	10.6		ug/L		106	53 - 140
Dichlorobromomethane	10.0	9.92		ug/L		99	63 - 132
Dichlorodifluoromethane	10.0	8.83		ug/L		88	21 - 165
Ethylbenzene	10.0	9.85		ug/L		98	66 - 122
1,2-Dibromoethane	10.0	10.2		ug/L		102	55 - 146
Cyclohexane	10.0	8.89		ug/L		89	50 - 161
Isopropylbenzene	10.0	9.41		ug/L		94	54 - 130
Methyl acetate	20.0	19.6	J	ug/L		98	10 - 170
Methyl tert-butyl ether	10.0	9.92		ug/L		99	36 - 141
Methylcyclohexane	10.0	9.20		ug/L		92	60 - 127

Method: EPA 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-449023/3
Matrix: Solid
Analysis Batch: 449023

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	10.0	9.39		ug/L		94	51 - 137
m-Xylene & p-Xylene	10.0	9.77		ug/L		98	61 - 128
o-Xylene	10.0	9.69		ug/L		97	64 - 120
Styrene	10.0	9.97		ug/L		100	68 - 127
Tetrachloroethene	10.0	9.55		ug/L		96	60 - 129
Toluene	10.0	9.82		ug/L		98	67 - 128
trans-1,2-Dichloroethene	10.0	9.56		ug/L		96	62 - 126
trans-1,3-Dichloropropene	10.0	10.9		ug/L		109	57 - 137
Trichloroethene	10.0	9.65		ug/L		97	67 - 121
Trichlorofluoromethane	10.0	8.55		ug/L		86	32 - 157
Vinyl chloride	10.0	12.3		ug/L		123	47 - 147
Xylenes, Total	20.0	19.5		ug/L		97	64 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*52 - 151*
4-Bromofluorobenzene (Surr)	*103*		*49 - 118*
Dibromofluoromethane (Surr)	*108*		*60 - 132*
Toluene-d8 (Surr)	*111*		*53 - 124*

Lab Sample ID: MB 180-449133/9
Matrix: Solid
Analysis Batch: 449133

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<3.0		5.0	3.0	ug/L			10/13/23 11:59	1
1,1,2,2-Tetrachloroethane	<3.0		5.0	3.0	ug/L			10/13/23 11:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<4.3		5.0	4.3	ug/L			10/13/23 11:59	1
1,1,2-Trichloroethane	<2.3		5.0	2.3	ug/L			10/13/23 11:59	1
1,1-Dichloroethane	<3.1		5.0	3.1	ug/L			10/13/23 11:59	1
1,1-Dichloroethene	<2.8		5.0	2.8	ug/L			10/13/23 11:59	1
1,2-Dibromo-3-Chloropropane	<4.4		5.0	4.4	ug/L			10/13/23 11:59	1
1,2-Dichlorobenzene	<1.8		5.0	1.8	ug/L			10/13/23 11:59	1
1,2-Dichloroethane	<2.9		5.0	2.9	ug/L			10/13/23 11:59	1
1,2-Dichloropropane	<3.3		5.0	3.3	ug/L			10/13/23 11:59	1
1,2,4-Trichlorobenzene	<3.9		5.0	3.9	ug/L			10/13/23 11:59	1
1,3-Dichlorobenzene	<2.5		5.0	2.5	ug/L			10/13/23 11:59	1
1,4-Dichlorobenzene	<2.7		5.0	2.7	ug/L			10/13/23 11:59	1
2-Butanone (MEK)	<13		25	13	ug/L			10/13/23 11:59	1
2-Hexanone	<16		25	16	ug/L			10/13/23 11:59	1
4-Methyl-2-pentanone (MIBK)	<15		25	15	ug/L			10/13/23 11:59	1
Acetone	<17		25	17	ug/L			10/13/23 11:59	1
Benzene	<3.0		5.0	3.0	ug/L			10/13/23 11:59	1
Bromoform	<4.9		5.0	4.9	ug/L			10/13/23 11:59	1
Bromomethane	<4.4		5.0	4.4	ug/L			10/13/23 11:59	1
Carbon disulfide	<4.4		5.0	4.4	ug/L			10/13/23 11:59	1
Carbon tetrachloride	<4.4		5.0	4.4	ug/L			10/13/23 11:59	1
Chlorobenzene	<2.5		5.0	2.5	ug/L			10/13/23 11:59	1
Chlorodibromomethane	<4.2		5.0	4.2	ug/L			10/13/23 11:59	1

Method: EPA 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-449133/9
Matrix: Solid
Analysis Batch: 449133

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<3.0		5.0	3.0	ug/L			10/13/23 11:59	1
Chloromethane	<4.5		5.0	4.5	ug/L			10/13/23 11:59	1
Chloroethane	<4.5		5.0	4.5	ug/L			10/13/23 11:59	1
cis-1,2-Dichloroethene	<3.5		5.0	3.5	ug/L			10/13/23 11:59	1
cis-1,3-Dichloropropene	<3.0		5.0	3.0	ug/L			10/13/23 11:59	1
Dichlorobromomethane	<3.2		5.0	3.2	ug/L			10/13/23 11:59	1
Dichlorodifluoromethane	<4.2		5.0	4.2	ug/L			10/13/23 11:59	1
Ethylbenzene	<2.5		5.0	2.5	ug/L			10/13/23 11:59	1
1,2-Dibromoethane	<2.5		5.0	2.5	ug/L			10/13/23 11:59	1
Cyclohexane	<3.2		5.0	3.2	ug/L			10/13/23 11:59	1
Isopropylbenzene	<1.7		5.0	1.7	ug/L			10/13/23 11:59	1
Methyl acetate	<8.4		25	8.4	ug/L			10/13/23 11:59	1
Methyl tert-butyl ether	<3.0		5.0	3.0	ug/L			10/13/23 11:59	1
Methylcyclohexane	<3.0		5.0	3.0	ug/L			10/13/23 11:59	1
Methylene Chloride	<4.4		5.0	4.4	ug/L			10/13/23 11:59	1
Styrene	<2.4		5.0	2.4	ug/L			10/13/23 11:59	1
Tetrachloroethene	<2.3		5.0	2.3	ug/L			10/13/23 11:59	1
Toluene	<2.3		5.0	2.3	ug/L			10/13/23 11:59	1
trans-1,2-Dichloroethene	<3.4		5.0	3.4	ug/L			10/13/23 11:59	1
trans-1,3-Dichloropropene	<2.9		5.0	2.9	ug/L			10/13/23 11:59	1
Trichloroethene	<3.4		5.0	3.4	ug/L			10/13/23 11:59	1
Trichlorofluoromethane	<4.4		5.0	4.4	ug/L			10/13/23 11:59	1
Vinyl chloride	<2.0		5.0	2.0	ug/L			10/13/23 11:59	1
Xylenes, Total	<4.5		10	4.5	ug/L			10/13/23 11:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*52 - 151*		*10/13/23 11:59*	*1*
4-Bromofluorobenzene (Surr)	*79*		*49 - 118*		*10/13/23 11:59*	*1*
Dibromofluoromethane (Surr)	*92*		*60 - 132*		*10/13/23 11:59*	*1*
Toluene-d8 (Surr)	*91*		*53 - 124*		*10/13/23 11:59*	*1*

Lab Sample ID: LCS 180-449133/6
Matrix: Solid
Analysis Batch: 449133

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	10.0	8.44		ug/L		84	64 - 133
1,1,2,2-Tetrachloroethane	10.0	10.4		ug/L		104	47 - 147
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	7.51		ug/L		75	48 - 134
1,1,2-Trichloroethane	10.0	10.1		ug/L		101	59 - 137
1,1-Dichloroethane	10.0	8.51		ug/L		85	59 - 125
1,1-Dichloroethene	10.0	9.41		ug/L		94	49 - 132
1,2-Dibromo-3-Chloropropane	10.0	10.2		ug/L		102	10 - 170
1,2-Dichlorobenzene	10.0	9.35		ug/L		94	68 - 116
1,2-Dichloroethane	10.0	9.45		ug/L		95	57 - 149
1,2-Dichloropropane	10.0	9.06		ug/L		91	65 - 129
1,2,4-Trichlorobenzene	10.0	7.97		ug/L		80	15 - 169
1,3-Dichlorobenzene	10.0	8.97		ug/L		90	70 - 119

Method: EPA 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-449133/6
Matrix: Solid
Analysis Batch: 449133

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	10.0	9.08		ug/L		91	74 - 117
2-Butanone (MEK)	10.0	<13		ug/L		116	35 - 158
2-Hexanone	10.0	<16		ug/L		109	38 - 157
4-Methyl-2-pentanone (MIBK)	10.0	<15		ug/L		111	29 - 167
Acetone	10.0	<17		ug/L		102	29 - 163
Benzene	10.0	8.72		ug/L		87	68 - 122
Bromoform	10.0	12.4		ug/L		124	31 - 164
Bromomethane	10.0	10.7		ug/L		107	20 - 170
Carbon disulfide	10.0	8.15		ug/L		81	32 - 139
Carbon tetrachloride	10.0	8.49		ug/L		85	60 - 135
Chlorobenzene	10.0	9.25		ug/L		93	72 - 123
Chlorodibromomethane	10.0	10.8		ug/L		108	51 - 144
Chloroform	10.0	8.87		ug/L		89	62 - 121
Chloromethane	10.0	8.19		ug/L		82	37 - 170
Chloroethane	10.0	9.83		ug/L		98	10 - 170
cis-1,2-Dichloroethene	10.0	8.98		ug/L		90	64 - 122
cis-1,3-Dichloropropene	10.0	9.99		ug/L		100	53 - 140
Dichlorobromomethane	10.0	9.86		ug/L		99	63 - 132
Dichlorodifluoromethane	10.0	6.16		ug/L		62	21 - 165
Ethylbenzene	10.0	8.99		ug/L		90	66 - 122
1,2-Dibromoethane	10.0	10.2		ug/L		102	55 - 146
Cyclohexane	10.0	7.91		ug/L		79	50 - 161
Isopropylbenzene	10.0	8.88		ug/L		89	54 - 130
Methyl acetate	20.0	24.8	J	ug/L		124	10 - 170
Methyl tert-butyl ether	10.0	10.8		ug/L		108	36 - 141
Methylcyclohexane	10.0	7.89		ug/L		79	60 - 127
Methylene Chloride	10.0	8.68		ug/L		87	51 - 137
m-Xylene & p-Xylene	10.0	8.72		ug/L		87	61 - 128
o-Xylene	10.0	8.86		ug/L		89	64 - 120
Styrene	10.0	9.08		ug/L		91	68 - 127
Tetrachloroethene	10.0	8.12		ug/L		81	60 - 129
Toluene	10.0	8.78		ug/L		88	67 - 128
trans-1,2-Dichloroethene	10.0	8.44		ug/L		84	62 - 126
trans-1,3-Dichloropropene	10.0	11.4		ug/L		114	57 - 137
Trichloroethene	10.0	8.60		ug/L		86	67 - 121
Trichlorofluoromethane	10.0	7.69		ug/L		77	32 - 157
Vinyl chloride	10.0	9.70		ug/L		97	47 - 147
Xylenes, Total	20.0	17.6		ug/L		88	64 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*52 - 151*
4-Bromofluorobenzene (Surr)	*91*		*49 - 118*
Dibromofluoromethane (Surr)	*99*		*60 - 132*
Toluene-d8 (Surr)	*98*		*53 - 124*

Method: EPA 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB 180-448928/1-A
Matrix: Solid
Analysis Batch: 449023

Client Sample ID: Method Blank
Prep Type: SPLP

Analyte	LB Result	LB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<3.0		5.0	3.0	ug/L			10/12/23 11:01	1
1,1,2,2-Tetrachloroethane	<3.0		5.0	3.0	ug/L			10/12/23 11:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<4.3		5.0	4.3	ug/L			10/12/23 11:01	1
1,1,2-Trichloroethane	<2.3		5.0	2.3	ug/L			10/12/23 11:01	1
1,1-Dichloroethane	<3.1		5.0	3.1	ug/L			10/12/23 11:01	1
1,1-Dichloroethene	<2.8		5.0	2.8	ug/L			10/12/23 11:01	1
1,2-Dibromo-3-Chloropropane	<4.4		5.0	4.4	ug/L			10/12/23 11:01	1
1,2-Dichlorobenzene	<1.8		5.0	1.8	ug/L			10/12/23 11:01	1
1,2-Dichloroethane	<2.9		5.0	2.9	ug/L			10/12/23 11:01	1
1,2-Dichloropropane	<3.3		5.0	3.3	ug/L			10/12/23 11:01	1
1,2,4-Trichlorobenzene	<3.9		5.0	3.9	ug/L			10/12/23 11:01	1
1,3-Dichlorobenzene	<2.5		5.0	2.5	ug/L			10/12/23 11:01	1
1,4-Dichlorobenzene	<2.7		5.0	2.7	ug/L			10/12/23 11:01	1
2-Butanone (MEK)	<13		25	13	ug/L			10/12/23 11:01	1
2-Hexanone	<16		25	16	ug/L			10/12/23 11:01	1
4-Methyl-2-pentanone (MIBK)	<15		25	15	ug/L			10/12/23 11:01	1
Acetone	<17		25	17	ug/L			10/12/23 11:01	1
Benzene	<3.0		5.0	3.0	ug/L			10/12/23 11:01	1
Bromoform	<4.9		5.0	4.9	ug/L			10/12/23 11:01	1
Bromomethane	<4.4		5.0	4.4	ug/L			10/12/23 11:01	1
Carbon disulfide	<4.4		5.0	4.4	ug/L			10/12/23 11:01	1
Carbon tetrachloride	<4.4		5.0	4.4	ug/L			10/12/23 11:01	1
Chlorobenzene	<2.5		5.0	2.5	ug/L			10/12/23 11:01	1
Chlorodibromomethane	<4.2		5.0	4.2	ug/L			10/12/23 11:01	1
Chloroform	<3.0		5.0	3.0	ug/L			10/12/23 11:01	1
Chloromethane	<4.5		5.0	4.5	ug/L			10/12/23 11:01	1
Chloroethane	<4.5		5.0	4.5	ug/L			10/12/23 11:01	1
cis-1,2-Dichloroethene	<3.5		5.0	3.5	ug/L			10/12/23 11:01	1
cis-1,3-Dichloropropene	<3.0		5.0	3.0	ug/L			10/12/23 11:01	1
Dichlorobromomethane	<3.2		5.0	3.2	ug/L			10/12/23 11:01	1
Dichlorodifluoromethane	<4.2		5.0	4.2	ug/L			10/12/23 11:01	1
Ethylbenzene	<2.5		5.0	2.5	ug/L			10/12/23 11:01	1
1,2-Dibromoethane	<2.5		5.0	2.5	ug/L			10/12/23 11:01	1
Cyclohexane	<3.2		5.0	3.2	ug/L			10/12/23 11:01	1
Isopropylbenzene	<1.7		5.0	1.7	ug/L			10/12/23 11:01	1
Methyl acetate	<8.4		25	8.4	ug/L			10/12/23 11:01	1
Methyl tert-butyl ether	<3.0		5.0	3.0	ug/L			10/12/23 11:01	1
Methylcyclohexane	<3.0		5.0	3.0	ug/L			10/12/23 11:01	1
Methylene Chloride	<4.4		5.0	4.4	ug/L			10/12/23 11:01	1
Styrene	<2.4		5.0	2.4	ug/L			10/12/23 11:01	1
Tetrachloroethene	<2.3		5.0	2.3	ug/L			10/12/23 11:01	1
Toluene	<2.3		5.0	2.3	ug/L			10/12/23 11:01	1
trans-1,2-Dichloroethene	<3.4		5.0	3.4	ug/L			10/12/23 11:01	1
trans-1,3-Dichloropropene	<2.9		5.0	2.9	ug/L			10/12/23 11:01	1
Trichloroethene	<3.4		5.0	3.4	ug/L			10/12/23 11:01	1
Trichlorofluoromethane	<4.4		5.0	4.4	ug/L			10/12/23 11:01	1
Vinyl chloride	<2.0		5.0	2.0	ug/L			10/12/23 11:01	1
Xylenes, Total	<4.5		10	4.5	ug/L			10/12/23 11:01	1

Method: EPA 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB 180-448928/1-A
Matrix: Solid
Analysis Batch: 449023

Client Sample ID: Method Blank
Prep Type: SPLP

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*88*		*52 - 151*		*10/12/23 11:01*	*1*
4-Bromofluorobenzene (Surr)	*73*		*49 - 118*		*10/12/23 11:01*	*1*
Dibromofluoromethane (Surr)	*96*		*60 - 132*		*10/12/23 11:01*	*1*
Toluene-d8 (Surr)	*89*		*53 - 124*		*10/12/23 11:01*	*1*

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

Lab Sample ID: MB 180-449329/1-A
Matrix: Solid
Analysis Batch: 449395

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 449329

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<120		330	120	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
2,4,5-Trichlorophenol	<120		330	120	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
2,4,6-Trichlorophenol	<110		330	110	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
2,4-Dichlorophenol	<26		67	26	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
2,4-Dimethylphenol	<110		330	110	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
2,4-Dinitrophenol	<2100		3300	2100	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
2,4-Dinitrotoluene	<200		330	200	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
2,6-Dinitrotoluene	<130		330	130	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
2-Chloronaphthalene	<15		67	15	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
2-Chlorophenol	<120		330	120	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
2-Methylnaphthalene	<16		67	16	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
2-Methylphenol	<96		330	96	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
2-Nitroaniline	<150		1700	150	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
2-Nitrophenol	<120		330	120	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
3,3'-Dichlorobenzidine	<310		330	310	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
3-Nitroaniline	<85		1700	85	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
4,6-Dinitro-2-methylphenol	<580		1700	580	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
4-Chloro-3-methylphenol	<120		330	120	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
4-Chloroaniline	<88		330	88	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
4-Chlorophenyl phenyl ether	<110		330	110	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Methylphenol, 3 & 4	<98		330	98	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
4-Nitroaniline	<120		1700	120	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
4-Nitrophenol	<230		1700	230	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Acenaphthene	<19		67	19	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Acenaphthylene	<15		67	15	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Acetophenone	<120		670	120	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Anthracene	<17		67	17	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Atrazine	<150		670	150	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Benzaldehyde	<41		670	41	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Benzo[a]anthracene	<30		67	30	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Benzo[a]pyrene	<29		67	29	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Benzo[b]fluoranthene	<16		67	16	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Benzo[g,h,i]perylene	<14		67	14	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Benzo[k]fluoranthene	<20		67	20	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Bis(2-chloroethoxy)methane	<120		330	120	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Bis(2-chloroethyl)ether	<12		67	12	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Bis(2-ethylhexyl) phthalate	<360		3300	360	ug/Kg		10/16/23 09:47	10/17/23 08:46	1

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

Lab Sample ID: MB 180-449329/1-A
Matrix: Solid
Analysis Batch: 449395

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 449329

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	<230		330	230	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Caprolactam	<220		1700	220	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Carbazole	<16		67	16	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Chrysene	<37		67	37	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Dibenz(a,h)anthracene	<43		67	43	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Dibenzofuran	<120		330	120	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Diethyl phthalate	<120		330	120	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Dimethyl phthalate	<130		330	130	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Di-n-butyl phthalate	<150		330	150	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Di-n-octyl phthalate	<190		330	190	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Fluoranthene	<18		67	18	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Fluorene	<13		67	13	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Hexachlorobenzene	<24		67	24	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Hexachlorobutadiene	<20		67	20	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Hexachlorocyclopentadiene	<34		330	34	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Hexachloroethane	<120		330	120	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Indeno[1,2,3-cd]pyrene	<33		67	33	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Isophorone	<130		330	130	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Naphthalene	<13		67	13	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Nitrobenzene	<120		670	120	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
N-Nitrosodi-n-propylamine	<23		67	23	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
N-Nitrosodiphenylamine	<110		330	110	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Pentachlorophenol	<540		1700	540	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Phenanthrene	<18		67	18	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
2,2'-oxybis[1-chloropropane]	<25		67	25	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Phenol	<100		330	100	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
4-Bromophenyl phenyl ether	<140		330	140	ug/Kg		10/16/23 09:47	10/17/23 08:46	1
Pyrene	<16		67	16	ug/Kg		10/16/23 09:47	10/17/23 08:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*78*		*34 - 108*	*10/16/23 09:47*	*10/17/23 08:46*	*1*
2-Fluorobiphenyl	*76*		*44 - 105*	*10/16/23 09:47*	*10/17/23 08:46*	*1*
2-Fluorophenol (Surr)	*77*		*48 - 105*	*10/16/23 09:47*	*10/17/23 08:46*	*1*
Nitrobenzene-d5 (Surr)	*80*		*46 - 105*	*10/16/23 09:47*	*10/17/23 08:46*	*1*
Phenol-d5 (Surr)	*73*		*46 - 105*	*10/16/23 09:47*	*10/17/23 08:46*	*1*
Terphenyl-d14 (Surr)	*72*		*39 - 105*	*10/16/23 09:47*	*10/17/23 08:46*	*1*

Lab Sample ID: LCS 180-449329/2-A
Matrix: Solid
Analysis Batch: 449395

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449329

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	6670	4830		ug/Kg		72	50 - 100
2,4,5-Trichlorophenol	6670	5570		ug/Kg		84	50 - 104
2,4,6-Trichlorophenol	6670	5420		ug/Kg		81	50 - 105
2,4-Dichlorophenol	6670	4890		ug/Kg		73	53 - 101
2,4-Dimethylphenol	6670	3760		ug/Kg		56	51 - 101
2,4-Dinitrophenol	13300	11700		ug/Kg		88	33 - 101

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

Lab Sample ID: LCS 180-449329/2-A
Matrix: Solid
Analysis Batch: 449395

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449329

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	6670	5180		ug/Kg		78	54 - 104
2,6-Dinitrotoluene	6670	4800		ug/Kg		72	51 - 106
2-Chloronaphthalene	6670	4950		ug/Kg		74	51 - 100
2-Chlorophenol	6670	5330		ug/Kg		80	51 - 100
2-Methylnaphthalene	6670	4850		ug/Kg		73	53 - 100
2-Methylphenol	6670	4770		ug/Kg		72	50 - 101
2-Nitroaniline	6670	5620		ug/Kg		84	42 - 123
2-Nitrophenol	6670	5120		ug/Kg		77	55 - 107
3,3'-Dichlorobenzidine	6670	5220		ug/Kg		78	43 - 100
3-Nitroaniline	6670	5220		ug/Kg		78	50 - 103
4,6-Dinitro-2-methylphenol	13300	10800		ug/Kg		81	51 - 100
4-Chloro-3-methylphenol	6670	5180		ug/Kg		78	49 - 106
4-Chloroaniline	6670	4690		ug/Kg		70	47 - 100
4-Chlorophenyl phenyl ether	6670	5160		ug/Kg		77	52 - 100
Methylphenol, 3 & 4	6670	5050		ug/Kg		76	50 - 103
4-Nitroaniline	6670	5380		ug/Kg		81	52 - 103
4-Nitrophenol	13300	13400		ug/Kg		101	30 - 134
Acenaphthene	6670	4790		ug/Kg		72	50 - 100
Acenaphthylene	6670	5070		ug/Kg		76	52 - 100
Acetophenone	6670	4890		ug/Kg		73	48 - 100
Anthracene	6670	4970		ug/Kg		75	53 - 100
Atrazine	6670	5440		ug/Kg		82	49 - 103
Benzaldehyde	6670	5750		ug/Kg		86	23 - 105
Benzo[a]anthracene	6670	4810		ug/Kg		72	51 - 100
Benzo[a]pyrene	6670	5230		ug/Kg		78	51 - 100
Benzo[b]fluoranthene	6670	4680		ug/Kg		70	48 - 100
Benzo[g,h,i]perylene	6670	4860		ug/Kg		73	48 - 105
Benzo[k]fluoranthene	6670	4570		ug/Kg		69	19 - 100
Bis(2-chloroethoxy)methane	6670	4240		ug/Kg		64	49 - 100
Bis(2-chloroethyl)ether	6670	4420		ug/Kg		66	48 - 100
Bis(2-ethylhexyl) phthalate	6670	5270		ug/Kg		79	53 - 107
Butyl benzyl phthalate	6670	5170		ug/Kg		78	52 - 107
Carbazole	6670	4790		ug/Kg		72	53 - 100
Chrysene	6670	4750		ug/Kg		71	50 - 100
Dibenz(a,h)anthracene	6670	5340		ug/Kg		80	50 - 107
Dibenzofuran	6670	4560		ug/Kg		68	52 - 100
Diethyl phthalate	6670	5240		ug/Kg		79	48 - 104
Dimethyl phthalate	6670	5080		ug/Kg		76	53 - 100
Di-n-butyl phthalate	6670	5390		ug/Kg		81	57 - 102
Di-n-octyl phthalate	6670	4800		ug/Kg		72	41 - 106
Fluoranthene	6670	5270		ug/Kg		79	55 - 100
Fluorene	6670	4900		ug/Kg		74	52 - 100
Hexachlorobenzene	6670	5010		ug/Kg		75	49 - 100
Hexachlorobutadiene	6670	5090		ug/Kg		76	38 - 107
Hexachlorocyclopentadiene	6670	3650		ug/Kg		55	33 - 117
Hexachloroethane	6670	4840		ug/Kg		73	47 - 100
Indeno[1,2,3-cd]pyrene	6670	5010		ug/Kg		75	51 - 103
Isophorone	6670	5080		ug/Kg		76	48 - 105
Naphthalene	6670	4940		ug/Kg		74	51 - 100

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

Lab Sample ID: LCS 180-449329/2-A
Matrix: Solid
Analysis Batch: 449395

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449329

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrobenzene			6670	5330		ug/Kg		80	44 - 108		
N-Nitrosodi-n-propylamine			6670	5050		ug/Kg		76	45 - 107		
N-Nitrosodiphenylamine			6670	5280		ug/Kg		79	52 - 100		
Pentachlorophenol			13300	11100		ug/Kg		83	42 - 110		
Phenanthrene			6670	4850		ug/Kg		73	53 - 100		
2,2'-oxybis[1-chloropropane]			6670	5240		ug/Kg		79	30 - 113		
Phenol			6670	5070		ug/Kg		76	49 - 100		
4-Bromophenyl phenyl ether			6670	4930		ug/Kg		74	52 - 101		
Pyrene			6670	4610		ug/Kg		69	52 - 100		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*72*		*34 - 108*
2-Fluorobiphenyl	*71*		*44 - 105*
2-Fluorophenol (Surr)	*77*		*48 - 105*
Nitrobenzene-d5 (Surr)	*80*		*46 - 105*
Phenol-d5 (Surr)	*76*		*46 - 105*
Terphenyl-d14 (Surr)	*63*		*39 - 105*

Lab Sample ID: LCSD 180-449329/3-A
Matrix: Solid
Analysis Batch: 449395

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 449329

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl			6670	4640		ug/Kg		70	50 - 100	4	19
2,4,5-Trichlorophenol			6670	5310		ug/Kg		80	50 - 104	5	21
2,4,6-Trichlorophenol			6670	5360		ug/Kg		80	50 - 105	1	21
2,4-Dichlorophenol			6670	5390		ug/Kg		81	53 - 101	10	22
2,4-Dimethylphenol			6670	3990		ug/Kg		60	51 - 101	6	32
2,4-Dinitrophenol			13300	11000		ug/Kg		83	33 - 101	6	20
2,4-Dinitrotoluene			6670	5170		ug/Kg		78	54 - 104	0	20
2,6-Dinitrotoluene			6670	4920		ug/Kg		74	51 - 106	2	20
2-Chloronaphthalene			6670	4940		ug/Kg		74	51 - 100	0	20
2-Chlorophenol			6670	5320		ug/Kg		80	51 - 100	0	17
2-Methylnaphthalene			6670	5070		ug/Kg		76	53 - 100	4	21
2-Methylphenol			6670	4750		ug/Kg		71	50 - 101	1	17
2-Nitroaniline			6670	5470		ug/Kg		82	42 - 123	3	19
2-Nitrophenol			6670	5430		ug/Kg		81	55 - 107	6	19
3,3'-Dichlorobenzidine			6670	5390		ug/Kg		81	43 - 100	3	19
3-Nitroaniline			6670	5110		ug/Kg		77	50 - 103	2	20
4,6-Dinitro-2-methylphenol			13300	11100		ug/Kg		83	51 - 100	2	22
4-Chloro-3-methylphenol			6670	5350		ug/Kg		80	49 - 106	3	20
4-Chloroaniline			6670	4840		ug/Kg		73	47 - 100	3	20
4-Chlorophenyl phenyl ether			6670	4950		ug/Kg		74	52 - 100	4	19
Methylphenol, 3 & 4			6670	5010		ug/Kg		75	50 - 103	1	19
4-Nitroaniline			6670	5200		ug/Kg		78	52 - 103	3	18
4-Nitrophenol			13300	12800		ug/Kg		96	30 - 134	5	18
Acenaphthene			6670	4570		ug/Kg		69	50 - 100	5	20
Acenaphthylene			6670	5000		ug/Kg		75	52 - 100	1	20

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

Lab Sample ID: LCSD 180-449329/3-A
Matrix: Solid
Analysis Batch: 449395

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 449329

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetophenone			6670	4870		ug/Kg		73	48 - 100	0	17
Anthracene			6670	5000		ug/Kg		75	53 - 100	1	20
Atrazine			6670	5690		ug/Kg		85	49 - 103	5	19
Benzaldehyde			6670	5830		ug/Kg		87	23 - 105	1	31
Benzo[a]anthracene			6670	4960		ug/Kg		74	51 - 100	3	21
Benzo[a]pyrene			6670	5180		ug/Kg		78	51 - 100	1	20
Benzo[b]fluoranthene			6670	4780		ug/Kg		72	48 - 100	2	20
Benzo[g,h,i]perylene			6670	4800		ug/Kg		72	48 - 105	1	19
Benzo[k]fluoranthene			6670	4530		ug/Kg		68	19 - 100	1	20
Bis(2-chloroethoxy)methane			6670	4570		ug/Kg		69	49 - 100	8	20
Bis(2-chloroethyl)ether			6670	4610		ug/Kg		69	48 - 100	4	18
Bis(2-ethylhexyl) phthalate			6670	5450		ug/Kg		82	53 - 107	3	20
Butyl benzyl phthalate			6670	5570		ug/Kg		84	52 - 107	7	19
Carbazole			6670	4880		ug/Kg		73	53 - 100	2	20
Chrysene			6670	4890		ug/Kg		73	50 - 100	3	20
Dibenz(a,h)anthracene			6670	5120		ug/Kg		77	50 - 107	4	21
Dibenzofuran			6670	4390		ug/Kg		66	52 - 100	4	19
Diethyl phthalate			6670	5000		ug/Kg		75	48 - 104	5	20
Dimethyl phthalate			6670	5000		ug/Kg		75	53 - 100	1	21
Di-n-butyl phthalate			6670	5510		ug/Kg		83	57 - 102	2	20
Di-n-octyl phthalate			6670	4930		ug/Kg		74	41 - 106	3	18
Fluoranthene			6670	5350		ug/Kg		80	55 - 100	1	20
Fluorene			6670	4710		ug/Kg		71	52 - 100	4	19
Hexachlorobenzene			6670	5120		ug/Kg		77	49 - 100	2	20
Hexachlorobutadiene			6670	5320		ug/Kg		80	38 - 107	4	22
Hexachlorocyclopentadiene			6670	3530		ug/Kg		53	33 - 117	3	19
Hexachloroethane			6670	4940		ug/Kg		74	47 - 100	2	17
Indeno[1,2,3-cd]pyrene			6670	5060		ug/Kg		76	51 - 103	1	19
Isophorone			6670	5380		ug/Kg		81	48 - 105	6	20
Naphthalene			6670	5260		ug/Kg		79	51 - 100	6	20
Nitrobenzene			6670	5490		ug/Kg		82	44 - 108	3	21
N-Nitrosodi-n-propylamine			6670	4910		ug/Kg		74	45 - 107	3	18
N-Nitrosodiphenylamine			6670	5310		ug/Kg		80	52 - 100	1	20
Pentachlorophenol			13300	11000		ug/Kg		82	42 - 110	1	20
Phenanthrene			6670	4840		ug/Kg		73	53 - 100	0	20
2,2'-oxybis[1-chloropropane]			6670	5220		ug/Kg		78	30 - 113	0	17
Phenol			6670	5080		ug/Kg		76	49 - 100	0	16
4-Bromophenyl phenyl ether			6670	5000		ug/Kg		75	52 - 101	1	20
Pyrene			6670	4800		ug/Kg		72	52 - 100	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*78*		*34 - 108*
2-Fluorobiphenyl	*71*		*44 - 105*
2-Fluorophenol (Surr)	*79*		*48 - 105*
Nitrobenzene-d5 (Surr)	*86*		*46 - 105*
Phenol-d5 (Surr)	*75*		*46 - 105*
Terphenyl-d14 (Surr)	*66*		*39 - 105*

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

Lab Sample ID: MB 180-449682/1-A
Matrix: Solid
Analysis Batch: 449989

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 449682

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<1.4		10	1.4	ug/L		10/19/23 11:02	10/24/23 06:12	1
2,4,5-Trichlorophenol	<2.5		10	2.5	ug/L		10/19/23 11:02	10/24/23 06:12	1
2,4,6-Trichlorophenol	<2.2		10	2.2	ug/L		10/19/23 11:02	10/24/23 06:12	1
2,4-Dichlorophenol	<0.51		1.9	0.51	ug/L		10/19/23 11:02	10/24/23 06:12	1
2,4-Dimethylphenol	<1.7		10	1.7	ug/L		10/19/23 11:02	10/24/23 06:12	1
2,4-Dinitrophenol	<15		100	15	ug/L		10/19/23 11:02	10/24/23 06:12	1
2,4-Dinitrotoluene	<3.5		10	3.5	ug/L		10/19/23 11:02	10/24/23 06:12	1
2,6-Dinitrotoluene	<1.7		10	1.7	ug/L		10/19/23 11:02	10/24/23 06:12	1
2-Chloronaphthalene	<0.59		1.9	0.59	ug/L		10/19/23 11:02	10/24/23 06:12	1
2-Chlorophenol	<1.3		10	1.3	ug/L		10/19/23 11:02	10/24/23 06:12	1
2-Methylnaphthalene	<0.62		1.9	0.62	ug/L		10/19/23 11:02	10/24/23 06:12	1
2-Methylphenol	<3.0		10	3.0	ug/L		10/19/23 11:02	10/24/23 06:12	1
2-Nitroaniline	<5.5		50	5.5	ug/L		10/19/23 11:02	10/24/23 06:12	1
2-Nitrophenol	<1.9		10	1.9	ug/L		10/19/23 11:02	10/24/23 06:12	1
3,3'-Dichlorobenzidine	<5.8		10	5.8	ug/L		10/19/23 11:02	10/24/23 06:12	1
3-Nitroaniline	<4.4		50	4.4	ug/L		10/19/23 11:02	10/24/23 06:12	1
4,6-Dinitro-2-methylphenol	<15		50	15	ug/L		10/19/23 11:02	10/24/23 06:12	1
4-Chloro-3-methylphenol	<2.8		10	2.8	ug/L		10/19/23 11:02	10/24/23 06:12	1
4-Chloroaniline	<3.8		10	3.8	ug/L		10/19/23 11:02	10/24/23 06:12	1
4-Chlorophenyl phenyl ether	<2.2		10	2.2	ug/L		10/19/23 11:02	10/24/23 06:12	1
Methylphenol, 3 & 4	<3.7		10	3.7	ug/L		10/19/23 11:02	10/24/23 06:12	1
4-Nitroaniline	<3.6		50	3.6	ug/L		10/19/23 11:02	10/24/23 06:12	1
4-Nitrophenol	<9.4		50	9.4	ug/L		10/19/23 11:02	10/24/23 06:12	1
Acenaphthene	<0.65		1.9	0.65	ug/L		10/19/23 11:02	10/24/23 06:12	1
Acenaphthylene	<0.65		1.9	0.65	ug/L		10/19/23 11:02	10/24/23 06:12	1
Acetophenone	<1.6		10	1.6	ug/L		10/19/23 11:02	10/24/23 06:12	1
Anthracene	<0.49		1.9	0.49	ug/L		10/19/23 11:02	10/24/23 06:12	1
Atrazine	<6.3		10	6.3	ug/L		10/19/23 11:02	10/24/23 06:12	1
Benzaldehyde	<5.4		10	5.4	ug/L		10/19/23 11:02	10/24/23 06:12	1
Benzo[a]anthracene	<0.75		1.9	0.75	ug/L		10/19/23 11:02	10/24/23 06:12	1
Benzo[a]pyrene	<0.53		1.9	0.53	ug/L		10/19/23 11:02	10/24/23 06:12	1
Benzo[b]fluoranthene	<0.97		1.9	0.97	ug/L		10/19/23 11:02	10/24/23 06:12	1
Benzo[g,h,i]perylene	<0.69		1.9	0.69	ug/L		10/19/23 11:02	10/24/23 06:12	1
Benzo[k]fluoranthene	<0.88		1.9	0.88	ug/L		10/19/23 11:02	10/24/23 06:12	1
Bis(2-chloroethoxy)methane	<1.5		10	1.5	ug/L		10/19/23 11:02	10/24/23 06:12	1
Bis(2-chloroethyl)ether	<0.40		1.9	0.40	ug/L		10/19/23 11:02	10/24/23 06:12	1
Bis(2-ethylhexyl) phthalate	<62		100	62	ug/L		10/19/23 11:02	10/24/23 06:12	1
Butyl benzyl phthalate	<4.6		10	4.6	ug/L		10/19/23 11:02	10/24/23 06:12	1
Caprolactam	<4.7		50	4.7	ug/L		10/19/23 11:02	10/24/23 06:12	1
Carbazole	<0.51		1.9	0.51	ug/L		10/19/23 11:02	10/24/23 06:12	1
Chrysene	<0.81		1.9	0.81	ug/L		10/19/23 11:02	10/24/23 06:12	1
Dibenz(a,h)anthracene	<0.72		1.9	0.72	ug/L		10/19/23 11:02	10/24/23 06:12	1
Dibenzofuran	<1.9		10	1.9	ug/L		10/19/23 11:02	10/24/23 06:12	1
Diethyl phthalate	<5.7		10	5.7	ug/L		10/19/23 11:02	10/24/23 06:12	1
Dimethyl phthalate	<2.0		10	2.0	ug/L		10/19/23 11:02	10/24/23 06:12	1
Di-n-butyl phthalate	<7.4		10	7.4	ug/L		10/19/23 11:02	10/24/23 06:12	1
Di-n-octyl phthalate	<6.9		10	6.9	ug/L		10/19/23 11:02	10/24/23 06:12	1
Fluoranthene	<0.60		1.9	0.60	ug/L		10/19/23 11:02	10/24/23 06:12	1

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

Lab Sample ID: MB 180-449682/1-A
Matrix: Solid
Analysis Batch: 449989

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 449682

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.69		1.9	0.69	ug/L		10/19/23 11:02	10/24/23 06:12	1
Hexachlorobenzene	<0.56		1.9	0.56	ug/L		10/19/23 11:02	10/24/23 06:12	1
Hexachlorobutadiene	<0.69		1.9	0.69	ug/L		10/19/23 11:02	10/24/23 06:12	1
Hexachlorocyclopentadiene	<5.0		10	5.0	ug/L		10/19/23 11:02	10/24/23 06:12	1
Hexachloroethane	<1.3		10	1.3	ug/L		10/19/23 11:02	10/24/23 06:12	1
Indeno[1,2,3-cd]pyrene	<0.85		1.9	0.85	ug/L		10/19/23 11:02	10/24/23 06:12	1
Isophorone	<1.9		10	1.9	ug/L		10/19/23 11:02	10/24/23 06:12	1
Naphthalene	<0.59		1.9	0.59	ug/L		10/19/23 11:02	10/24/23 06:12	1
Nitrobenzene	<5.0		20	5.0	ug/L		10/19/23 11:02	10/24/23 06:12	1
N-Nitrosodi-n-propylamine	<0.71		1.9	0.71	ug/L		10/19/23 11:02	10/24/23 06:12	1
N-Nitrosodiphenylamine	<1.2		10	1.2	ug/L		10/19/23 11:02	10/24/23 06:12	1
Pentachlorophenol	<8.5		50	8.5	ug/L		10/19/23 11:02	10/24/23 06:12	1
Phenanthrene	<0.55		1.9	0.55	ug/L		10/19/23 11:02	10/24/23 06:12	1
2,2'-oxybis[1-chloropropane]	<0.58		1.9	0.58	ug/L		10/19/23 11:02	10/24/23 06:12	1
Phenol	<4.9		10	4.9	ug/L		10/19/23 11:02	10/24/23 06:12	1
4-Bromophenyl phenyl ether	<3.2		10	3.2	ug/L		10/19/23 11:02	10/24/23 06:12	1
Pyrene	<0.54		1.9	0.54	ug/L		10/19/23 11:02	10/24/23 06:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*63*		*39 - 121*	*10/19/23 11:02*	*10/24/23 06:12*	*1*
2-Fluorobiphenyl	*66*		*45 - 105*	*10/19/23 11:02*	*10/24/23 06:12*	*1*
2-Fluorophenol (Surr)	*73*		*38 - 105*	*10/19/23 11:02*	*10/24/23 06:12*	*1*
Nitrobenzene-d5 (Surr)	*74*		*45 - 106*	*10/19/23 11:02*	*10/24/23 06:12*	*1*
Phenol-d5 (Surr)	*77*		*38 - 105*	*10/19/23 11:02*	*10/24/23 06:12*	*1*
Terphenyl-d14 (Surr)	*70*		*28 - 125*	*10/19/23 11:02*	*10/24/23 06:12*	*1*

Lab Sample ID: LCS 180-449682/2-A
Matrix: Solid
Analysis Batch: 449989

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449682

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	200	145		ug/L		73	50 - 100
2,4,5-Trichlorophenol	200	155		ug/L		78	54 - 100
2,4,6-Trichlorophenol	200	154		ug/L		77	54 - 100
2,4-Dichlorophenol	200	160		ug/L		80	54 - 100
2,4-Dimethylphenol	200	119		ug/L		60	52 - 100
2,4-Dinitrophenol	400	285		ug/L		71	32 - 100
2,4-Dinitrotoluene	200	162		ug/L		81	56 - 101
2,6-Dinitrotoluene	200	157		ug/L		78	54 - 103
2-Chloronaphthalene	200	141		ug/L		71	51 - 100
2-Chlorophenol	200	163		ug/L		82	52 - 100
2-Methylnaphthalene	200	155		ug/L		78	53 - 100
2-Methylphenol	200	166		ug/L		83	50 - 100
2-Nitroaniline	200	176		ug/L		88	50 - 102
2-Nitrophenol	200	159		ug/L		80	54 - 100
3,3'-Dichlorobenzidine	200	150		ug/L		75	41 - 100
3-Nitroaniline	200	158		ug/L		79	53 - 100
4,6-Dinitro-2-methylphenol	400	277		ug/L		69	49 - 100

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

Lab Sample ID: LCS 180-449682/2-A
Matrix: Solid
Analysis Batch: 449989

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449682

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloro-3-methylphenol	200	162		ug/L		81	46 - 107
4-Chloroaniline	200	142		ug/L		71	48 - 100
4-Chlorophenyl phenyl ether	200	146		ug/L		73	52 - 100
Methylphenol, 3 & 4	200	169		ug/L		84	51 - 100
4-Nitroaniline	200	161		ug/L		81	54 - 100
4-Nitrophenol	400	306		ug/L		77	39 - 117
Acenaphthene	200	152		ug/L		76	51 - 100
Acenaphthylene	200	161		ug/L		81	53 - 100
Acetophenone	200	161		ug/L		81	47 - 100
Anthracene	200	152		ug/L		76	53 - 100
Atrazine	200	159		ug/L		80	47 - 100
Benzaldehyde	200	242		ug/L		121	10 - 129
Benzo[a]anthracene	200	152		ug/L		76	49 - 100
Benzo[a]pyrene	200	155		ug/L		77	48 - 100
Benzo[b]fluoranthene	200	131		ug/L		66	47 - 100
Benzo[g,h,i]perylene	200	147		ug/L		74	49 - 100
Benzo[k]fluoranthene	200	146		ug/L		73	46 - 100
Bis(2-chloroethoxy)methane	200	151		ug/L		76	49 - 100
Bis(2-chloroethyl)ether	200	157		ug/L		79	46 - 100
Bis(2-ethylhexyl) phthalate	200	151		ug/L		76	51 - 101
Butyl benzyl phthalate	200	153		ug/L		77	51 - 101
Carbazole	200	153		ug/L		77	54 - 100
Chrysene	200	146		ug/L		73	49 - 100
Dibenz(a,h)anthracene	200	148		ug/L		74	50 - 102
Dibenzofuran	200	145		ug/L		73	53 - 100
Diethyl phthalate	200	156		ug/L		78	53 - 100
Dimethyl phthalate	200	151		ug/L		75	54 - 100
Di-n-butyl phthalate	200	161		ug/L		81	56 - 100
Di-n-octyl phthalate	200	167		ug/L		84	39 - 100
Fluoranthene	200	152		ug/L		76	55 - 100
Fluorene	200	150		ug/L		75	53 - 100
Hexachlorobenzene	200	141		ug/L		71	46 - 100
Hexachlorobutadiene	200	151		ug/L		76	42 - 100
Hexachlorocyclopentadiene	200	101		ug/L		50	41 - 100
Hexachloroethane	200	154		ug/L		77	49 - 100
Indeno[1,2,3-cd]pyrene	200	156		ug/L		78	50 - 100
Isophorone	200	160		ug/L		80	50 - 100
Naphthalene	200	143		ug/L		72	53 - 100
Nitrobenzene	200	154		ug/L		77	50 - 100
N-Nitrosodi-n-propylamine	200	188		ug/L		94	46 - 100
N-Nitrosodiphenylamine	200	145		ug/L		73	50 - 100
Pentachlorophenol	400	313		ug/L		78	37 - 100
Phenanthrene	200	143		ug/L		72	52 - 100
2,2'-oxybis[1-chloropropane]	200	167		ug/L		84	24 - 111
Phenol	200	156		ug/L		78	47 - 100
4-Bromophenyl phenyl ether	200	143		ug/L		72	50 - 100
Pyrene	200	150		ug/L		75	50 - 100

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

Lab Sample ID: LCS 180-449682/2-A
Matrix: Solid
Analysis Batch: 449989

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449682

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*70*		*39 - 121*
2-Fluorobiphenyl	*70*		*45 - 105*
2-Fluorophenol (Surr)	*78*		*38 - 105*
Nitrobenzene-d5 (Surr)	*77*		*45 - 106*
Phenol-d5 (Surr)	*80*		*38 - 105*
Terphenyl-d14 (Surr)	*66*		*28 - 125*

Lab Sample ID: LCSD 180-449682/3-A
Matrix: Solid
Analysis Batch: 449989

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 449682

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl			200	144		ug/L		72	50 - 100	1	15
2,4,5-Trichlorophenol			200	153		ug/L		77	54 - 100	1	15
2,4,6-Trichlorophenol			200	148		ug/L		74	54 - 100	4	15
2,4-Dichlorophenol			200	154		ug/L		77	54 - 100	4	15
2,4-Dimethylphenol			200	119		ug/L		60	52 - 100	0	15
2,4-Dinitrophenol			400	280		ug/L		70	32 - 100	2	15
2,4-Dinitrotoluene			200	164		ug/L		82	56 - 101	1	15
2,6-Dinitrotoluene			200	158		ug/L		79	54 - 103	0	15
2-Chloronaphthalene			200	142		ug/L		71	51 - 100	0	15
2-Chlorophenol			200	163		ug/L		82	52 - 100	0	15
2-Methylnaphthalene			200	156		ug/L		78	53 - 100	1	15
2-Methylphenol			200	166		ug/L		83	50 - 100	0	15
2-Nitroaniline			200	171		ug/L		86	50 - 102	3	15
2-Nitrophenol			200	160		ug/L		80	54 - 100	1	15
3,3'-Dichlorobenzidine			200	146		ug/L		73	41 - 100	2	15
3-Nitroaniline			200	161		ug/L		80	53 - 100	2	15
4,6-Dinitro-2-methylphenol			400	272		ug/L		68	49 - 100	2	15
4-Chloro-3-methylphenol			200	161		ug/L		81	46 - 107	0	15
4-Chloroaniline			200	144		ug/L		72	48 - 100	1	15
4-Chlorophenyl phenyl ether			200	143		ug/L		72	52 - 100	1	15
Methylphenol, 3 & 4			200	166		ug/L		83	51 - 100	1	15
4-Nitroaniline			200	165		ug/L		82	54 - 100	2	15
4-Nitrophenol			400	312		ug/L		78	39 - 117	2	15
Acenaphthene			200	149		ug/L		74	51 - 100	2	15
Acenaphthylene			200	158		ug/L		79	53 - 100	2	15
Acetophenone			200	161		ug/L		80	47 - 100	0	15
Anthracene			200	151		ug/L		75	53 - 100	1	15
Atrazine			200	160		ug/L		80	47 - 100	1	16
Benzaldehyde			200	240		ug/L		120	10 - 129	1	15
Benzo[a]anthracene			200	147		ug/L		74	49 - 100	3	15
Benzo[a]pyrene			200	156		ug/L		78	48 - 100	0	15
Benzo[b]fluoranthene			200	140		ug/L		70	47 - 100	7	15
Benzo[g,h,i]perylene			200	153		ug/L		76	49 - 100	4	15
Benzo[k]fluoranthene			200	143		ug/L		72	46 - 100	2	15
Bis(2-chloroethoxy)methane			200	152		ug/L		76	49 - 100	0	15
Bis(2-chloroethyl)ether			200	153		ug/L		77	46 - 100	3	15

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

Lab Sample ID: LCSD 180-449682/3-A
Matrix: Solid
Analysis Batch: 449989

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 449682

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bis(2-ethylhexyl) phthalate			200	146		ug/L		73	51 - 101	4	15
Butyl benzyl phthalate			200	149		ug/L		75	51 - 101	3	15
Carbazole			200	153		ug/L		76	54 - 100	0	15
Chrysene			200	146		ug/L		73	49 - 100	0	15
Dibenz(a,h)anthracene			200	154		ug/L		77	50 - 102	4	15
Dibenzofuran			200	145		ug/L		72	53 - 100	0	15
Diethyl phthalate			200	155		ug/L		77	53 - 100	0	15
Dimethyl phthalate			200	151		ug/L		76	54 - 100	0	15
Di-n-butyl phthalate			200	161		ug/L		80	56 - 100	0	15
Di-n-octyl phthalate			200	160		ug/L		80	39 - 100	4	15
Fluoranthene			200	154		ug/L		77	55 - 100	1	15
Fluorene			200	149		ug/L		74	53 - 100	1	15
Hexachlorobenzene			200	140		ug/L		70	46 - 100	1	15
Hexachlorobutadiene			200	153		ug/L		76	42 - 100	1	15
Hexachlorocyclopentadiene			200	97.9		ug/L		49	41 - 100	3	15
Hexachloroethane			200	151		ug/L		75	49 - 100	2	15
Indeno[1,2,3-cd]pyrene			200	160		ug/L		80	50 - 100	2	15
Isophorone			200	161		ug/L		81	50 - 100	1	15
Naphthalene			200	145		ug/L		72	53 - 100	1	15
Nitrobenzene			200	153		ug/L		76	50 - 100	1	15
N-Nitrosodi-n-propylamine			200	184		ug/L		92	46 - 100	2	15
N-Nitrosodiphenylamine			200	144		ug/L		72	50 - 100	1	15
Pentachlorophenol			400	316		ug/L		79	37 - 100	1	15
Phenanthrene			200	143		ug/L		71	52 - 100	1	15
2,2'-oxybis[1-chloropropane]			200	162		ug/L		81	24 - 111	3	15
Phenol			200	153		ug/L		77	47 - 100	2	15
4-Bromophenyl phenyl ether			200	139		ug/L		69	50 - 100	3	15
Pyrene			200	147		ug/L		73	50 - 100	2	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*68*		*39 - 121*
2-Fluorobiphenyl	*68*		*45 - 105*
2-Fluorophenol (Surr)	*75*		*38 - 105*
Nitrobenzene-d5 (Surr)	*77*		*45 - 106*
Phenol-d5 (Surr)	*79*		*38 - 105*
Terphenyl-d14 (Surr)	*65*		*28 - 125*

Lab Sample ID: LB 180-448932/1-E
Matrix: Solid
Analysis Batch: 449989

Client Sample ID: Method Blank
Prep Type: SPLP West
Prep Batch: 449682

Analyte	LB Result	LB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<1.4		10	1.4	ug/L		10/19/23 11:02	10/24/23 08:00	1
2,4,5-Trichlorophenol	<2.5		10	2.5	ug/L		10/19/23 11:02	10/24/23 08:00	1
2,4,6-Trichlorophenol	<2.2		10	2.2	ug/L		10/19/23 11:02	10/24/23 08:00	1
2,4-Dichlorophenol	<0.51		1.9	0.51	ug/L		10/19/23 11:02	10/24/23 08:00	1
2,4-Dimethylphenol	<1.7		10	1.7	ug/L		10/19/23 11:02	10/24/23 08:00	1
2,4-Dinitrophenol	<15		100	15	ug/L		10/19/23 11:02	10/24/23 08:00	1

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

Lab Sample ID: LB 180-448932/1-E
Matrix: Solid
Analysis Batch: 449989

Client Sample ID: Method Blank
Prep Type: SPLP West
Prep Batch: 449682

Analyte	LB Result	LB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	<3.5		10	3.5	ug/L		10/19/23 11:02	10/24/23 08:00	1
2,6-Dinitrotoluene	<1.7		10	1.7	ug/L		10/19/23 11:02	10/24/23 08:00	1
2-Chloronaphthalene	<0.59		1.9	0.59	ug/L		10/19/23 11:02	10/24/23 08:00	1
2-Chlorophenol	<1.3		10	1.3	ug/L		10/19/23 11:02	10/24/23 08:00	1
2-Methylnaphthalene	<0.62		1.9	0.62	ug/L		10/19/23 11:02	10/24/23 08:00	1
2-Methylphenol	<3.0		10	3.0	ug/L		10/19/23 11:02	10/24/23 08:00	1
2-Nitroaniline	<5.5		50	5.5	ug/L		10/19/23 11:02	10/24/23 08:00	1
2-Nitrophenol	<1.9		10	1.9	ug/L		10/19/23 11:02	10/24/23 08:00	1
3,3'-Dichlorobenzidine	<5.8		10	5.8	ug/L		10/19/23 11:02	10/24/23 08:00	1
3-Nitroaniline	<4.4		50	4.4	ug/L		10/19/23 11:02	10/24/23 08:00	1
4,6-Dinitro-2-methylphenol	<15		50	15	ug/L		10/19/23 11:02	10/24/23 08:00	1
4-Chloro-3-methylphenol	<2.8		10	2.8	ug/L		10/19/23 11:02	10/24/23 08:00	1
4-Chloroaniline	<3.8		10	3.8	ug/L		10/19/23 11:02	10/24/23 08:00	1
4-Chlorophenyl phenyl ether	<2.2		10	2.2	ug/L		10/19/23 11:02	10/24/23 08:00	1
Methylphenol, 3 & 4	<3.7		10	3.7	ug/L		10/19/23 11:02	10/24/23 08:00	1
4-Nitroaniline	<3.6		50	3.6	ug/L		10/19/23 11:02	10/24/23 08:00	1
4-Nitrophenol	<9.4		50	9.4	ug/L		10/19/23 11:02	10/24/23 08:00	1
Acenaphthene	<0.65		1.9	0.65	ug/L		10/19/23 11:02	10/24/23 08:00	1
Acenaphthylene	<0.65		1.9	0.65	ug/L		10/19/23 11:02	10/24/23 08:00	1
Acetophenone	<1.6		10	1.6	ug/L		10/19/23 11:02	10/24/23 08:00	1
Anthracene	<0.49		1.9	0.49	ug/L		10/19/23 11:02	10/24/23 08:00	1
Atrazine	<6.3		10	6.3	ug/L		10/19/23 11:02	10/24/23 08:00	1
Benzaldehyde	<5.4		10	5.4	ug/L		10/19/23 11:02	10/24/23 08:00	1
Benzo[a]anthracene	<0.75		1.9	0.75	ug/L		10/19/23 11:02	10/24/23 08:00	1
Benzo[a]pyrene	<0.53		1.9	0.53	ug/L		10/19/23 11:02	10/24/23 08:00	1
Benzo[b]fluoranthene	<0.97		1.9	0.97	ug/L		10/19/23 11:02	10/24/23 08:00	1
Benzo[g,h,i]perylene	<0.69		1.9	0.69	ug/L		10/19/23 11:02	10/24/23 08:00	1
Benzo[k]fluoranthene	<0.88		1.9	0.88	ug/L		10/19/23 11:02	10/24/23 08:00	1
Bis(2-chloroethoxy)methane	<1.5		10	1.5	ug/L		10/19/23 11:02	10/24/23 08:00	1
Bis(2-chloroethyl)ether	<0.40		1.9	0.40	ug/L		10/19/23 11:02	10/24/23 08:00	1
Bis(2-ethylhexyl) phthalate	<62		100	62	ug/L		10/19/23 11:02	10/24/23 08:00	1
Butyl benzyl phthalate	<4.6		10	4.6	ug/L		10/19/23 11:02	10/24/23 08:00	1
Caprolactam	<4.7		50	4.7	ug/L		10/19/23 11:02	10/24/23 08:00	1
Carbazole	<0.51		1.9	0.51	ug/L		10/19/23 11:02	10/24/23 08:00	1
Chrysene	<0.81		1.9	0.81	ug/L		10/19/23 11:02	10/24/23 08:00	1
Dibenz(a,h)anthracene	<0.72		1.9	0.72	ug/L		10/19/23 11:02	10/24/23 08:00	1
Dibenzofuran	<1.9		10	1.9	ug/L		10/19/23 11:02	10/24/23 08:00	1
Diethyl phthalate	<5.7		10	5.7	ug/L		10/19/23 11:02	10/24/23 08:00	1
Dimethyl phthalate	<2.0		10	2.0	ug/L		10/19/23 11:02	10/24/23 08:00	1
Di-n-butyl phthalate	<7.4		10	7.4	ug/L		10/19/23 11:02	10/24/23 08:00	1
Di-n-octyl phthalate	<6.9		10	6.9	ug/L		10/19/23 11:02	10/24/23 08:00	1
Fluoranthene	<0.60		1.9	0.60	ug/L		10/19/23 11:02	10/24/23 08:00	1
Fluorene	<0.69		1.9	0.69	ug/L		10/19/23 11:02	10/24/23 08:00	1
Hexachlorobenzene	<0.56		1.9	0.56	ug/L		10/19/23 11:02	10/24/23 08:00	1
Hexachlorobutadiene	<0.69		1.9	0.69	ug/L		10/19/23 11:02	10/24/23 08:00	1
Hexachlorocyclopentadiene	<5.0		10	5.0	ug/L		10/19/23 11:02	10/24/23 08:00	1
Hexachloroethane	<1.3		10	1.3	ug/L		10/19/23 11:02	10/24/23 08:00	1
Indeno[1,2,3-cd]pyrene	<0.85		1.9	0.85	ug/L		10/19/23 11:02	10/24/23 08:00	1
Isophorone	<1.9		10	1.9	ug/L		10/19/23 11:02	10/24/23 08:00	1

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

Lab Sample ID: LB 180-448932/1-E
Matrix: Solid
Analysis Batch: 449989

Client Sample ID: Method Blank
Prep Type: SPLP West
Prep Batch: 449682

Analyte	LB Result	LB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<0.59		1.9	0.59	ug/L		10/19/23 11:02	10/24/23 08:00	1
Nitrobenzene	<5.0		20	5.0	ug/L		10/19/23 11:02	10/24/23 08:00	1
N-Nitrosodi-n-propylamine	<0.71		1.9	0.71	ug/L		10/19/23 11:02	10/24/23 08:00	1
N-Nitrosodiphenylamine	<1.2		10	1.2	ug/L		10/19/23 11:02	10/24/23 08:00	1
Pentachlorophenol	<8.5		50	8.5	ug/L		10/19/23 11:02	10/24/23 08:00	1
Phenanthrene	<0.55		1.9	0.55	ug/L		10/19/23 11:02	10/24/23 08:00	1
2,2'-oxybis[1-chloropropane]	<0.58		1.9	0.58	ug/L		10/19/23 11:02	10/24/23 08:00	1
Phenol	<4.9		10	4.9	ug/L		10/19/23 11:02	10/24/23 08:00	1
4-Bromophenyl phenyl ether	<3.2		10	3.2	ug/L		10/19/23 11:02	10/24/23 08:00	1
Pyrene	<0.54		1.9	0.54	ug/L		10/19/23 11:02	10/24/23 08:00	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*62*		*39 - 121*	*10/19/23 11:02*	*10/24/23 08:00*	*1*
2-Fluorobiphenyl	*69*		*45 - 105*	*10/19/23 11:02*	*10/24/23 08:00*	*1*
2-Fluorophenol (Surr)	*70*		*38 - 105*	*10/19/23 11:02*	*10/24/23 08:00*	*1*
Nitrobenzene-d5 (Surr)	*74*		*45 - 106*	*10/19/23 11:02*	*10/24/23 08:00*	*1*
Phenol-d5 (Surr)	*73*		*38 - 105*	*10/19/23 11:02*	*10/24/23 08:00*	*1*
Terphenyl-d14 (Surr)	*66*		*28 - 125*	*10/19/23 11:02*	*10/24/23 08:00*	*1*

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-448700/1-A
Matrix: Solid
Analysis Batch: 448806

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448700

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.4		17	5.4	ug/Kg		10/09/23 14:24	10/11/23 01:38	1
PCB-1221	<5.9		17	5.9	ug/Kg		10/09/23 14:24	10/11/23 01:38	1
PCB-1232	<4.1		17	4.1	ug/Kg		10/09/23 14:24	10/11/23 01:38	1
PCB-1242	<2.4		17	2.4	ug/Kg		10/09/23 14:24	10/11/23 01:38	1
PCB-1248	<4.0		17	4.0	ug/Kg		10/09/23 14:24	10/11/23 01:38	1
PCB-1254	<5.0		17	5.0	ug/Kg		10/09/23 14:24	10/11/23 01:38	1
PCB-1260	<4.7		17	4.7	ug/Kg		10/09/23 14:24	10/11/23 01:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*104*		*55 - 135*	*10/09/23 14:24*	*10/11/23 01:38*	*1*
Tetrachloro-m-xylene (Surr)	*107*		*55 - 135*	*10/09/23 14:24*	*10/11/23 01:38*	*1*
DCB Decachlorobiphenyl (Surr)	*123*		*63 - 138*	*10/09/23 14:24*	*10/11/23 01:38*	*1*
DCB Decachlorobiphenyl (Surr)	*112*		*63 - 138*	*10/09/23 14:24*	*10/11/23 01:38*	*1*

Lab Sample ID: LCS 180-448700/2-A
Matrix: Solid
Analysis Batch: 448806

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448700

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	1330	1200		ug/Kg		90	43 - 136
PCB-1260	1330	1230		ug/Kg		93	55 - 128

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 180-448700/2-A
Matrix: Solid
Analysis Batch: 448806

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448700

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene (Surr)	105		55 - 135
Tetrachloro-m-xylene (Surr)	110		55 - 135
DCB Decachlorobiphenyl (Surr)	122		63 - 138
DCB Decachlorobiphenyl (Surr)	112		63 - 138

Lab Sample ID: MB 180-449103/1-A
Matrix: Solid
Analysis Batch: 449277

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 449103

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.19		0.40	0.19	ug/L		10/13/23 00:15	10/16/23 06:43	1
PCB-1221	<0.23		0.40	0.23	ug/L		10/13/23 00:15	10/16/23 06:43	1
PCB-1232	<0.21		0.40	0.21	ug/L		10/13/23 00:15	10/16/23 06:43	1
PCB-1242	<0.14		0.40	0.14	ug/L		10/13/23 00:15	10/16/23 06:43	1
PCB-1248	<0.32		0.40	0.32	ug/L		10/13/23 00:15	10/16/23 06:43	1
PCB-1254	<0.18		0.40	0.18	ug/L		10/13/23 00:15	10/16/23 06:43	1
PCB-1260	<0.16		0.40	0.16	ug/L		10/13/23 00:15	10/16/23 06:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	115		57 - 134	10/13/23 00:15	10/16/23 06:43	1
Tetrachloro-m-xylene (Surr)	109		57 - 134	10/13/23 00:15	10/16/23 06:43	1
DCB Decachlorobiphenyl (Surr)	120		68 - 150	10/13/23 00:15	10/16/23 06:43	1
DCB Decachlorobiphenyl (Surr)	109		68 - 150	10/13/23 00:15	10/16/23 06:43	1

Lab Sample ID: LCS 180-449103/2-A
Matrix: Solid
Analysis Batch: 449277

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449103

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			40.0	43.2		ug/L		108	50 - 123		
PCB-1260			40.0	42.4		ug/L		106	54 - 124		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene (Surr)	112		57 - 134
Tetrachloro-m-xylene (Surr)	109		57 - 134
DCB Decachlorobiphenyl (Surr)	121		68 - 150
DCB Decachlorobiphenyl (Surr)	108		68 - 150

Lab Sample ID: LCSD 180-449103/3-A
Matrix: Solid
Analysis Batch: 449277

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 449103

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			40.0	41.9		ug/L		105	50 - 123	3	16
PCB-1260			40.0	41.5		ug/L		104	54 - 124	2	17

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 180-449103/3-A
Matrix: Solid
Analysis Batch: 449277

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 449103

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*105*		*57 - 134*
Tetrachloro-m-xylene (Surr)	*107*		*57 - 134*
DCB Decachlorobiphenyl (Surr)	*123*		*68 - 150*
DCB Decachlorobiphenyl (Surr)	*109*		*68 - 150*

Lab Sample ID: LB 180-448932/1-B
Matrix: Solid
Analysis Batch: 449277

Client Sample ID: Method Blank
Prep Type: SPLP West
Prep Batch: 449103

Analyte	LB Result	LB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.19		0.40	0.19	ug/L		10/13/23 00:15	10/16/23 09:22	1
PCB-1221	<0.23		0.40	0.23	ug/L		10/13/23 00:15	10/16/23 09:22	1
PCB-1232	<0.21		0.40	0.21	ug/L		10/13/23 00:15	10/16/23 09:22	1
PCB-1242	<0.14		0.40	0.14	ug/L		10/13/23 00:15	10/16/23 09:22	1
PCB-1248	<0.32		0.40	0.32	ug/L		10/13/23 00:15	10/16/23 09:22	1
PCB-1254	<0.18		0.40	0.18	ug/L		10/13/23 00:15	10/16/23 09:22	1
PCB-1260	<0.16		0.40	0.16	ug/L		10/13/23 00:15	10/16/23 09:22	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*116*		*57 - 134*	*10/13/23 00:15*	*10/16/23 09:22*	*1*
Tetrachloro-m-xylene (Surr)	*112*		*57 - 134*	*10/13/23 00:15*	*10/16/23 09:22*	*1*
DCB Decachlorobiphenyl (Surr)	*118*		*68 - 150*	*10/13/23 00:15*	*10/16/23 09:22*	*1*
DCB Decachlorobiphenyl (Surr)	*108*		*68 - 150*	*10/13/23 00:15*	*10/16/23 09:22*	*1*

Method: 2540G - SM 2540G

Lab Sample ID: 180-163503-1 DU
Matrix: Solid
Analysis Batch: 448699

Client Sample ID: 20231005001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	18.2			18.0		%				1	10

QC Association Summary

Client: Tetra Tech, Inc.
Job ID: 180-163503-1
Project/Site: WI ISS Treatability Study REVISED

GC/MS VOA

Analysis Batch: 448507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163503-4 - DL	20231005004	Total/NA	Solid	8260D	448556
MB 180-448507/7	Method Blank	Total/NA	Solid	8260D	
LCS 180-448507/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 180-448507/21	Lab Control Sample Dup	Total/NA	Solid	8260D	

Prep Batch: 448556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163503-4 - DL	20231005004	Total/NA	Solid	5035	

Analysis Batch: 448655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163503-1	20231005001	Total/NA	Solid	8260D	448681
180-163503-5	20231005005	Total/NA	Solid	8260D	448681
180-163503-6	20231005006	Total/NA	Solid	8260D	448681
MB 180-448681/7-A	Method Blank	Total/NA	Solid	8260D	448681
LCS 180-448681/8-A	Lab Control Sample	Total/NA	Solid	8260D	448681
LCSD 180-448681/9-A	Lab Control Sample Dup	Total/NA	Solid	8260D	448681

Prep Batch: 448681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163503-1	20231005001	Total/NA	Solid	5035	
180-163503-5	20231005005	Total/NA	Solid	5035	
180-163503-6	20231005006	Total/NA	Solid	5035	
MB 180-448681/7-A	Method Blank	Total/NA	Solid	5035	
LCS 180-448681/8-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 180-448681/9-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 448748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163503-2	20231005002	Total/NA	Solid	8260D	448793
180-163503-4	20231005004	Total/NA	Solid	8260D	448793
MB 180-448748/7	Method Blank	Total/NA	Solid	8260D	
LCS 180-448748/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 180-448748/18	Lab Control Sample Dup	Total/NA	Solid	8260D	

Prep Batch: 448793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163503-2	20231005002	Total/NA	Solid	5035	
180-163503-4	20231005004	Total/NA	Solid	5035	

Leach Batch: 448928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163503-1 - DL	20231005001	SPLP	Solid	EPA 1312	
180-163503-1	20231005001	SPLP	Solid	EPA 1312	
180-163503-2	20231005002	SPLP	Solid	EPA 1312	
180-163503-3	20231005003	SPLP	Solid	EPA 1312	
180-163503-4	20231005004	SPLP	Solid	EPA 1312	
180-163503-4 - DL	20231005004	SPLP	Solid	EPA 1312	
180-163503-5 - DL	20231005005	SPLP	Solid	EPA 1312	
180-163503-5	20231005005	SPLP	Solid	EPA 1312	
180-163503-6 - DL	20231005006	SPLP	Solid	EPA 1312	

GC/MS VOA (Continued)

Leach Batch: 448928 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163503-6	20231005006	SPLP	Solid	EPA 1312	
LB 180-448928/1-A	Method Blank	SPLP	Solid	EPA 1312	

Analysis Batch: 449021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163503-3	20231005003	Total/NA	Solid	8260D	449091
MB 180-449021/7	Method Blank	Total/NA	Solid	8260D	
LCS 180-449021/3	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 180-449021/4	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 449023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163503-1	20231005001	SPLP	Solid	EPA 8260D	448928
180-163503-2	20231005002	SPLP	Solid	EPA 8260D	448928
180-163503-3	20231005003	SPLP	Solid	EPA 8260D	448928
180-163503-4	20231005004	SPLP	Solid	EPA 8260D	448928
180-163503-5	20231005005	SPLP	Solid	EPA 8260D	448928
180-163503-6	20231005006	SPLP	Solid	EPA 8260D	448928
LB 180-448928/1-A	Method Blank	SPLP	Solid	EPA 8260D	448928
MB 180-449023/8	Method Blank	Total/NA	Solid	EPA 8260D	
LCS 180-449023/3	Lab Control Sample	Total/NA	Solid	EPA 8260D	

Prep Batch: 449091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163503-3	20231005003	Total/NA	Solid	5035	

Analysis Batch: 449133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163503-1 - DL	20231005001	SPLP	Solid	EPA 8260D	448928
180-163503-4 - DL	20231005004	SPLP	Solid	EPA 8260D	448928
180-163503-5 - DL	20231005005	SPLP	Solid	EPA 8260D	448928
180-163503-6 - DL	20231005006	SPLP	Solid	EPA 8260D	448928
MB 180-449133/9	Method Blank	Total/NA	Solid	EPA 8260D	
LCS 180-449133/6	Lab Control Sample	Total/NA	Solid	EPA 8260D	

GC/MS Semi VOA

Leach Batch: 448932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163503-1 - DL	20231005001	SPLP West	Solid	EPA 1312	
180-163503-1	20231005001	SPLP West	Solid	EPA 1312	
180-163503-2	20231005002	SPLP West	Solid	EPA 1312	
180-163503-3 - DL	20231005003	SPLP West	Solid	EPA 1312	
180-163503-3	20231005003	SPLP West	Solid	EPA 1312	
180-163503-4 - DL	20231005004	SPLP West	Solid	EPA 1312	
180-163503-4	20231005004	SPLP West	Solid	EPA 1312	
180-163503-5	20231005005	SPLP West	Solid	EPA 1312	
180-163503-5 - DL	20231005005	SPLP West	Solid	EPA 1312	
180-163503-6	20231005006	SPLP West	Solid	EPA 1312	
180-163503-6 - DL	20231005006	SPLP West	Solid	EPA 1312	
LB 180-448932/1-E	Method Blank	SPLP West	Solid	EPA 1312	

GC/MS Semi VOA

Prep Batch: 449329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163503-1 - DL	20231005001	Total/NA	Solid	3541	
180-163503-1	20231005001	Total/NA	Solid	3541	
180-163503-2	20231005002	Total/NA	Solid	3541	
180-163503-3	20231005003	Total/NA	Solid	3541	
180-163503-4 - DL	20231005004	Total/NA	Solid	3541	
180-163503-4	20231005004	Total/NA	Solid	3541	
180-163503-5 - DL	20231005005	Total/NA	Solid	3541	
180-163503-5	20231005005	Total/NA	Solid	3541	
180-163503-6	20231005006	Total/NA	Solid	3541	
180-163503-6 - DL	20231005006	Total/NA	Solid	3541	
MB 180-449329/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-449329/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCSD 180-449329/3-A	Lab Control Sample Dup	Total/NA	Solid	3541	

Analysis Batch: 449395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163503-1	20231005001	Total/NA	Solid	EPA 8270E	449329
180-163503-2	20231005002	Total/NA	Solid	EPA 8270E	449329
180-163503-3	20231005003	Total/NA	Solid	EPA 8270E	449329
180-163503-4	20231005004	Total/NA	Solid	EPA 8270E	449329
180-163503-5	20231005005	Total/NA	Solid	EPA 8270E	449329
180-163503-6	20231005006	Total/NA	Solid	EPA 8270E	449329
MB 180-449329/1-A	Method Blank	Total/NA	Solid	EPA 8270E	449329
LCS 180-449329/2-A	Lab Control Sample	Total/NA	Solid	EPA 8270E	449329
LCSD 180-449329/3-A	Lab Control Sample Dup	Total/NA	Solid	EPA 8270E	449329

Analysis Batch: 449553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163503-1 - DL	20231005001	Total/NA	Solid	EPA 8270E	449329
180-163503-4 - DL	20231005004	Total/NA	Solid	EPA 8270E	449329
180-163503-5 - DL	20231005005	Total/NA	Solid	EPA 8270E	449329

Analysis Batch: 449634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163503-6 - DL	20231005006	Total/NA	Solid	EPA 8270E	449329

Prep Batch: 449682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163503-1 - DL	20231005001	SPLP West	Solid	3520C	448932
180-163503-1	20231005001	SPLP West	Solid	3520C	448932
180-163503-2	20231005002	SPLP West	Solid	3520C	448932
180-163503-3 - DL	20231005003	SPLP West	Solid	3520C	448932
180-163503-3	20231005003	SPLP West	Solid	3520C	448932
180-163503-4 - DL	20231005004	SPLP West	Solid	3520C	448932
180-163503-4	20231005004	SPLP West	Solid	3520C	448932
180-163503-5	20231005005	SPLP West	Solid	3520C	448932
180-163503-5 - DL	20231005005	SPLP West	Solid	3520C	448932
180-163503-6	20231005006	SPLP West	Solid	3520C	448932
180-163503-6 - DL	20231005006	SPLP West	Solid	3520C	448932
LB 180-448932/1-E	Method Blank	SPLP West	Solid	3520C	448932
MB 180-449682/1-A	Method Blank	Total/NA	Solid	3520C	

GC/MS Semi VOA (Continued)

Prep Batch: 449682 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-449682/2-A	Lab Control Sample	Total/NA	Solid	3520C	
LCSD 180-449682/3-A	Lab Control Sample Dup	Total/NA	Solid	3520C	

Analysis Batch: 449989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163503-1	20231005001	SPLP West	Solid	EPA 8270E	449682
180-163503-2	20231005002	SPLP West	Solid	EPA 8270E	449682
180-163503-3	20231005003	SPLP West	Solid	EPA 8270E	449682
180-163503-4	20231005004	SPLP West	Solid	EPA 8270E	449682
180-163503-5	20231005005	SPLP West	Solid	EPA 8270E	449682
180-163503-6	20231005006	SPLP West	Solid	EPA 8270E	449682
LB 180-448932/1-E	Method Blank	SPLP West	Solid	EPA 8270E	449682
MB 180-449682/1-A	Method Blank	Total/NA	Solid	EPA 8270E	449682
LCS 180-449682/2-A	Lab Control Sample	Total/NA	Solid	EPA 8270E	449682
LCSD 180-449682/3-A	Lab Control Sample Dup	Total/NA	Solid	EPA 8270E	449682

Analysis Batch: 450128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163503-1 - DL	20231005001	SPLP West	Solid	EPA 8270E	449682
180-163503-3 - DL	20231005003	SPLP West	Solid	EPA 8270E	449682
180-163503-4 - DL	20231005004	SPLP West	Solid	EPA 8270E	449682

Analysis Batch: 450165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163503-5 - DL	20231005005	SPLP West	Solid	EPA 8270E	449682
180-163503-6 - DL	20231005006	SPLP West	Solid	EPA 8270E	449682

GC Semi VOA

Prep Batch: 448700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163503-1	20231005001	Total/NA	Solid	3541	
180-163503-2	20231005002	Total/NA	Solid	3541	
180-163503-3	20231005003	Total/NA	Solid	3541	
180-163503-4	20231005004	Total/NA	Solid	3541	
180-163503-5	20231005005	Total/NA	Solid	3541	
180-163503-6	20231005006	Total/NA	Solid	3541	
MB 180-448700/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-448700/2-A	Lab Control Sample	Total/NA	Solid	3541	

Cleanup Batch: 448729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163503-1	20231005001	Total/NA	Solid	3665A	448700
180-163503-2	20231005002	Total/NA	Solid	3665A	448700
180-163503-3	20231005003	Total/NA	Solid	3665A	448700
180-163503-4	20231005004	Total/NA	Solid	3665A	448700
180-163503-5	20231005005	Total/NA	Solid	3665A	448700
180-163503-6	20231005006	Total/NA	Solid	3665A	448700

GC Semi VOA

Cleanup Batch: 448730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163503-1	20231005001	Total/NA	Solid	3660B	448729
180-163503-2	20231005002	Total/NA	Solid	3660B	448729
180-163503-3	20231005003	Total/NA	Solid	3660B	448729
180-163503-4	20231005004	Total/NA	Solid	3660B	448729
180-163503-5	20231005005	Total/NA	Solid	3660B	448729
180-163503-6	20231005006	Total/NA	Solid	3660B	448729

Analysis Batch: 448806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163503-1	20231005001	Total/NA	Solid	EPA 8082A	448730
180-163503-2	20231005002	Total/NA	Solid	EPA 8082A	448730
180-163503-5	20231005005	Total/NA	Solid	EPA 8082A	448730
180-163503-6	20231005006	Total/NA	Solid	EPA 8082A	448730
MB 180-448700/1-A	Method Blank	Total/NA	Solid	EPA 8082A	448700
LCS 180-448700/2-A	Lab Control Sample	Total/NA	Solid	EPA 8082A	448700

Leach Batch: 448932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163503-1	20231005001	SPLP West	Solid	EPA 1312	
180-163503-2	20231005002	SPLP West	Solid	EPA 1312	
180-163503-3	20231005003	SPLP West	Solid	EPA 1312	
180-163503-4	20231005004	SPLP West	Solid	EPA 1312	
180-163503-5	20231005005	SPLP West	Solid	EPA 1312	
180-163503-6	20231005006	SPLP West	Solid	EPA 1312	
LB 180-448932/1-B	Method Blank	SPLP West	Solid	EPA 1312	

Prep Batch: 449103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163503-1	20231005001	SPLP West	Solid	3510C	448932
180-163503-2	20231005002	SPLP West	Solid	3510C	448932
180-163503-3	20231005003	SPLP West	Solid	3510C	448932
180-163503-4	20231005004	SPLP West	Solid	3510C	448932
180-163503-5	20231005005	SPLP West	Solid	3510C	448932
180-163503-6	20231005006	SPLP West	Solid	3510C	448932
LB 180-448932/1-B	Method Blank	SPLP West	Solid	3510C	448932
MB 180-449103/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 180-449103/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 180-449103/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 449111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163503-3	20231005003	Total/NA	Solid	EPA 8082A	448730
180-163503-4	20231005004	Total/NA	Solid	EPA 8082A	448730

Analysis Batch: 449277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163503-1	20231005001	SPLP West	Solid	EPA 8082A	449103
180-163503-2	20231005002	SPLP West	Solid	EPA 8082A	449103
180-163503-3	20231005003	SPLP West	Solid	EPA 8082A	449103
180-163503-4	20231005004	SPLP West	Solid	EPA 8082A	449103
180-163503-5	20231005005	SPLP West	Solid	EPA 8082A	449103

GC Semi VOA (Continued)

Analysis Batch: 449277 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163503-6	20231005006	SPLP West	Solid	EPA 8082A	449103
LB 180-448932/1-B	Method Blank	SPLP West	Solid	EPA 8082A	449103
MB 180-449103/1-A	Method Blank	Total/NA	Solid	EPA 8082A	449103
LCS 180-449103/2-A	Lab Control Sample	Total/NA	Solid	EPA 8082A	449103
LCSD 180-449103/3-A	Lab Control Sample Dup	Total/NA	Solid	EPA 8082A	449103

General Chemistry

Analysis Batch: 448699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163503-1	20231005001	Total/NA	Solid	2540G	
180-163503-2	20231005002	Total/NA	Solid	2540G	
180-163503-3	20231005003	Total/NA	Solid	2540G	
180-163503-4	20231005004	Total/NA	Solid	2540G	
180-163503-5	20231005005	Total/NA	Solid	2540G	
180-163503-6	20231005006	Total/NA	Solid	2540G	
180-163503-1 DU	20231005001	Total/NA	Solid	2540G	

>> Select a Laboratory or Service Center <<
#N/A
#N/A
#N/A
##

Chain of Custody Record

eurofins Environment Testing America

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other WI DNR

Eurofins Environment Testing America

Client Contact	Project Manager: KEN MIKA	Site Contact: KEN MIKA	Date: 10-5-2023	COC No 20231005
Your Company Name here TETRA TECH	Email: Ken.mika@tetratech.com	Lab Contact: CARRIE GAMBER	Carrier: FEDEX	1 of 1 COCs
Address 2679 CONTINENTAL DRIVE	Tel/Fax: 626-517-3552			TALS Project #
City/State/Zip GREEN BAY, WI 54311	Analysis Turnaround Time			Sampler KEN MIKA
(xxx) xxx-xxxx 626-517-3552 Phone	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(xxx) xxx-xxxx FAX	TAT if different from Below			Walk-in Client
Project Name. BEAZER ISS TREATABILITY STUDY	☒ 2 weeks			Lab Sampling
Site OAK CREEK, WI	☐ 1 week			Job / SDG No
PO # 175316	☐ 2 days			
	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	T VOC (8260)	T SVOC (8270)	T PCBs (8082)	SPLP VOC (1312/8260)	SPLP SVOC (1312/8270)	SPLP PCBs (1312/8082)	Sample Specific Notes
20231005001	10-5-23	12:04PM	C	S	7	N	N	X	X	X	X	X	X	
20231005002		12:31PM	C	S	7	N	N	X	X	X	X	X	X	
20231005003		12:55PM	C	S	7	N	N	X	X	X	X	X	X	
20231005004		1:20PM	C	S	6	N	N	X	X	X	X	X	X	
20231005005		1:36PM	C	S	5	N	N	X	X	X	X	X	X	
20231005006	10-5-23	1:52PM	C	S	6	N	N	X	X	X	X	X	X	

180-163503 Chain of Custody

10/5/2023

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

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

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
DOUBLECHECK MeOH → SOME CONTAINERS WERE 15mL NOT 5mL } NOT ENOUGH VOA VIAL 40mL-5mL DI WATER/STIR BAR PROVIDED → ONLY 1 VIAL USED IN SAMPLES 001-004 → USE 4oz JAR ON 005+006

Custody Seals Intact. ☐ Yes ☐ No | Custody Seal No. 2319218 | Cooler Temp (°C) Obs'd _____ Corr'd _____ | Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	TT	10/5/23 3PM	Ashley M Inge	TT	10/5/23 3:00PM
Ashley M Inge	TT	10/5/23 3:30PM	FEDEX		
			Received in Laboratory by	Company	Date/Time
				ETAPH	10/6/23 8:00AM

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11/9/2023


147918 REV 3/21
JAMES BISHOP
EUROFINS
1244 EXECUTIVE BLVD. SUITE B-114
CHESAPEAKE, VA 23320
ORIGIN ID:GRBA (626) 517-3552
KEN MICAH
TETRA TECH
2679 CONTINENTAL DR
GREEN BAY, WI 54311
UNITED STATES US
ACTWGT: 17.00 LB MAN
CAD: 0415933/CAFE3763
BILL SENDER
SHIP DATE: 05OCT23
ACTWGT: 47.70 LB
CAD: 6571996/ROSA2450
DIMS: 26x14x14 IN
TO EUROFINS PITTSBURGH
301 ALPHA DR RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
INV:
PO:
REF:
DEPT:
FedEx
Express
TRK# 0201 7736 4924 5827
FRI - 06 OCT 8:30A
FIRST OVERNIGHT
AHS
15238
PIT
X1 AGCA
Uncorrected temp 5.9 °C
Thermometer ID 23
CF -0.6 Initials
PT-WI-SR-001 effective 11/8/18
Part # 156297-2356-HARDB2 EXP 08/24
180-163503 Waybill

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 180-163503-1

Login Number: 163503
List Number: 1
Creator: Abernathy, Eric L

List Source: Eurofins Pittsburgh

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