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 #)
Harley Davidson Motor Co			02-41-586501
Address	**City**	**State**	**ZIP Code**
3700 W Juneau Avenue	Milwaukee	WI	53208

Responsible Party

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

Property Owner

Harley-Davidson Motor Company

Address	City	State	ZIP Code
3700 W Juneau Avenue	Milwaukee	WI	53208

Contact Person	Phone Number (include area code)
Jesse Scott	(816) 214-1375

Person or company that collected samples

The Sigma Group, Inc.

Sample Results (Results Attached)

Reason for Sampling: ◉ Routine ○ Other (define) _____

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: _____	○	◉	○	○

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
The Sigma Group, Inc.	Engnath	Chelsea

Address	City	State	ZIP Code
1300 W Canal Street	Milwaukee	WI	53233

Phone # (inc. area code)	Email
(414) 643-4200	cengnath@thesigmagroup.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)
Hulsey	Hera	(262) 612-9127

Address	City	State	ZIP Code
1027 W St. Paul Avenue	Milwaukee	WI	53233

Email

hera.hulsey@wisconsin.gov

LEGEND

- APPROXIMATE PARCEL BOUNDARY - PARCELS OWNED BY HARLEY-DAVIDSON ENTITIES
- SOIL BORING/MONITORING WELL
- INDOOR AIR
- OUTDOOR AIR
- SUB-SLAB VAPOR PIN
- SEWER GAS

SSB-18/ SMW-6
SSB-19/SMW-7
SSB-15/ SMW-4
SG-2
SSB-16/ SMW-5
SSB-21/SMW-8
SSB-17/ SMW-3
SSB-14/ SMW-2
SSB-20/SMW-9
IA-1
SVP-1
OA-1
SG-1
IA-5
SVP-10
SG-3
SVP-3
SVP-6
IA-4
SVP-2
IA-2
SVP-4
SVP-7
IA-3
SVP-5
SVP-9
SVP-8

3700 BUILDING
3800 BUILDING
3900 BUILDING
WEST JUNEAU AVENUE
NORTH 38TH STREET
RESTRICTED AUTO. PARKING

0 50 FT. 100 FT.
GRAPHIC SCALE

NOTES:
1. BASE MAP ADAPTED FROM "PLAT OF SURVEY - BOUNDARY AND EASEMENTS" CREATED BY SIGMA DATED 08/4/21.

THE SIGMA GROUP
Single Source. Sound Solutions.

SAMPLE LOCATION MAP

HARLEY-DAVIDSON MOTOR COMPANY
3700 W. JUEANU AVENUE, MILWAUKEE, WI

FIGURE
1

PROJECT: 19125 | DIRECTORY: 060 CAD / E -Env | FILENAME: 19125 B-2 and B-3 Area Maps.ai | DATE: 12/31/2024 | CREATED BY: CLE

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Chelsea Engnath
Sigma Group Inc, The
1300 West Canal Street
Milwaukee, Wisconsin 53233

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JOB DESCRIPTION

Harley Davidson - 19125

JOB NUMBER

500-261745-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

myEOL

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

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

Authorization

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12/31/2024 4:01:37 PM

Authorized for release by
Jodie Bracken, Project Manager I
Joann.Bracken@et.eurofinsus.com
(708)534-5200

Job Narrative
500-261745-1

Receipt
The samples were received on 12/18/24 10:05. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.5º C.

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) analyzed in batch 500-800578 was outside the method criteria for the following analyte(s): 1,1,2,2-Tetrachloroethane, 1,1-Dichloroethene, 1,1-Dichloropropene, 2,2-Dichloropropane, Dichlorodifluoromethane, Isopropyl ether, trans-1,2-Dichloroethene and Vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The laboratory control sample (LCS) for analytical batch 500-800578 recovered outside control limits for the following analyte(s): Vinyl chloride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

Sample Summary

Client: Sigma Group Inc, The
Project/Site: Harley Davidson - 19125

Job ID: 500-261745-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-261745-1	SMW-2	Water	12/16/24 13:00	12/18/24 10:05
500-261745-2	SMW-3	Water	12/16/24 12:20	12/18/24 10:05
500-261745-3	SMW-4	Water	12/16/24 12:00	12/18/24 10:05
500-261745-4	SMW-5	Water	12/16/24 14:05	12/18/24 10:05
500-261745-5	SMW-6	Water	12/16/24 13:10	12/18/24 10:05
500-261745-6	SMW-7	Water	12/16/24 12:30	12/18/24 10:05
500-261745-7	SMW-8	Water	12/16/24 12:40	12/18/24 10:05
500-261745-8	SMW-9	Water	12/16/24 12:50	12/18/24 10:05
500-261745-9	DUP-1	Water	12/16/24 12:00	12/18/24 10:05
500-261745-10	Equip Blank	Water	12/16/24 10:30	12/18/24 10:05
500-261745-11	TB-1	Water	12/16/24 00:00	12/18/24 10:05

Client Sample ID: SMW-2

Date Collected: 12/16/24 13:00
Date Received: 12/18/24 10:05

Lab Sample ID: 500-261745-1

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1,2-Tetrachloroethane	<0.67		1.0	0.67	ug/L		12/23/24 15:46	1	MM
1,1,1-Trichloroethane	<0.45		1.0	0.45	ug/L		12/23/24 15:46	1	MM
1,1,2,2-Tetrachloroethane	<0.65		1.0	0.65	ug/L		12/23/24 15:46	1	MM
1,1,2-Trichloroethane	<0.73		1.0	0.73	ug/L		12/23/24 15:46	1	MM
1,1-Dichloroethane	<0.36		1.0	0.36	ug/L		12/23/24 15:46	1	MM
1,1-Dichloroethene	<0.48		1.0	0.48	ug/L		12/23/24 15:46	1	MM
1,1-Dichloropropene	<0.33		1.0	0.33	ug/L		12/23/24 15:46	1	MM
1,2,3-Trichlorobenzene	<0.35		1.0	0.35	ug/L		12/23/24 15:46	1	MM
1,2,3-Trichloropropane	<1.5		2.0	1.5	ug/L		12/23/24 15:46	1	MM
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L		12/23/24 15:46	1	MM
1,2,4-Trimethylbenzene	<0.30		1.0	0.30	ug/L		12/23/24 15:46	1	MM
1,2-Dibromo-3-Chloropropane	<3.9		5.0	3.9	ug/L		12/23/24 15:46	1	MM
1,2-Dibromoethane (EDB)	<0.56		1.0	0.56	ug/L		12/23/24 15:46	1	MM
1,2-Dichlorobenzene	<0.48		1.0	0.48	ug/L		12/23/24 15:46	1	MM
1,2-Dichloroethane	<0.58		1.0	0.58	ug/L		12/23/24 15:46	1	MM
1,2-Dichloropropane	<0.37		1.0	0.37	ug/L		12/23/24 15:46	1	MM
1,3,5-Trimethylbenzene	<0.29		1.0	0.29	ug/L		12/23/24 15:46	1	MM
1,3-Dichlorobenzene	<0.41		1.0	0.41	ug/L		12/23/24 15:46	1	MM
1,3-Dichloropropane	<0.56		1.0	0.56	ug/L		12/23/24 15:46	1	MM
1,4-Dichlorobenzene	<0.45		1.0	0.45	ug/L		12/23/24 15:46	1	MM
2,2-Dichloropropane	<0.48		5.0	0.48	ug/L		12/23/24 15:46	1	MM
2-Chlorotoluene	<0.36		1.0	0.36	ug/L		12/23/24 15:46	1	MM
4-Chlorotoluene	<0.34		1.0	0.34	ug/L		12/23/24 15:46	1	MM
Benzene	<0.18		0.50	0.18	ug/L		12/23/24 15:46	1	MM
Bromobenzene	<0.60		1.0	0.60	ug/L		12/23/24 15:46	1	MM
Bromochloromethane	<0.50		1.0	0.50	ug/L		12/23/24 15:46	1	MM
Bromodichloromethane	<0.57		1.0	0.57	ug/L		12/23/24 15:46	1	MM
Bromoform	<0.96		1.0	0.96	ug/L		12/23/24 15:46	1	MM
Bromomethane	<1.8		3.0	1.8	ug/L		12/23/24 15:46	1	MM
Carbon tetrachloride	<0.41		1.0	0.41	ug/L		12/23/24 15:46	1	MM
Chlorobenzene	<0.41		1.0	0.41	ug/L		12/23/24 15:46	1	MM
Chloroethane	<0.47		5.0	0.47	ug/L		12/23/24 15:46	1	MM
Chloroform	<0.92		2.0	0.92	ug/L		12/23/24 15:46	1	MM
Chloromethane	<0.79		5.0	0.79	ug/L		12/23/24 15:46	1	MM
cis-1,2-Dichloroethene	<0.42		1.0	0.42	ug/L		12/23/24 15:46	1	MM
cis-1,3-Dichloropropene	<0.52		1.0	0.52	ug/L		12/23/24 15:46	1	MM
Dibromochloromethane	<0.83		1.0	0.83	ug/L		12/23/24 15:46	1	MM
Dibromomethane	<0.58		1.0	0.58	ug/L		12/23/24 15:46	1	MM
Dichlorodifluoromethane	<1.8		3.0	1.8	ug/L		12/23/24 15:46	1	MM
Ethylbenzene	<0.20		0.50	0.20	ug/L		12/23/24 15:46	1	MM
Hexachlorobutadiene	<0.54		1.0	0.54	ug/L		12/23/24 15:46	1	MM
Isopropyl ether	<0.38	^c	1.0	0.38	ug/L		12/23/24 15:46	1	MM
Isopropylbenzene	<0.29		1.0	0.29	ug/L		12/23/24 15:46	1	MM
Methyl tert-butyl ether	<0.43		1.0	0.43	ug/L		12/23/24 15:46	1	MM
Methylene Chloride	<3.6		5.0	3.6	ug/L		12/23/24 15:46	1	MM
Naphthalene	<0.44	^c	1.0	0.44	ug/L		12/23/24 15:46	1	MM
n-Butylbenzene	<0.33		1.0	0.33	ug/L		12/23/24 15:46	1	MM
N-Propylbenzene	<0.32		1.0	0.32	ug/L		12/23/24 15:46	1	MM
p-Isopropyltoluene	<0.29		1.0	0.29	ug/L		12/23/24 15:46	1	MM

Client Sample ID: SMW-2

Date Collected: 12/16/24 13:00
Date Received: 12/18/24 10:05

Lab Sample ID: 500-261745-1
Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Analyzed	Dil Fac	Analyst
sec-Butylbenzene	<0.27		1.0	0.27	ug/L		12/23/24 15:46	1	MM
Styrene	<0.31		1.0	0.31	ug/L		12/23/24 15:46	1	MM
tert-Butylbenzene	<0.26		1.0	0.26	ug/L		12/23/24 15:46	1	MM
Tetrachloroethene	<0.39		1.0	0.39	ug/L		12/23/24 15:46	1	MM
Toluene	<0.21		0.50	0.21	ug/L		12/23/24 15:46	1	MM
trans-1,2-Dichloroethene	<0.44		1.0	0.44	ug/L		12/23/24 15:46	1	MM
trans-1,3-Dichloropropene	<0.63		1.0	0.63	ug/L		12/23/24 15:46	1	MM
Trichloroethene	**5.5**		0.50	0.15	ug/L		12/23/24 15:46	1	MM
Trichlorofluoromethane	<0.44		1.0	0.44	ug/L		12/23/24 15:46	1	MM
Vinyl chloride	<0.47	*	1.0	0.47	ug/L		12/23/24 15:46	1	MM
Xylenes, Total	<0.30		1.0	0.30	ug/L		12/23/24 15:46	1	MM

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*	*12/23/24 15:46*	*1*	*MM*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*	*12/23/24 15:46*	*1*	*MM*
Dibromofluoromethane (Surr)	*98*		*75 - 120*	*12/23/24 15:46*	*1*	*MM*
Toluene-d8 (Surr)	*103*		*75 - 120*	*12/23/24 15:46*	*1*	*MM*

Client Sample ID: SMW-3

Date Collected: 12/16/24 12:20
Date Received: 12/18/24 10:05

Lab Sample ID: 500-261745-2
Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1,2-Tetrachloroethane	<0.67		1.0	0.67	ug/L		12/23/24 16:10	1	MM
1,1,1-Trichloroethane	<0.45		1.0	0.45	ug/L		12/23/24 16:10	1	MM
1,1,2,2-Tetrachloroethane	<0.65		1.0	0.65	ug/L		12/23/24 16:10	1	MM
1,1,2-Trichloroethane	<0.73		1.0	0.73	ug/L		12/23/24 16:10	1	MM
1,1-Dichloroethane	<0.36		1.0	0.36	ug/L		12/23/24 16:10	1	MM
1,1-Dichloroethene	<0.48		1.0	0.48	ug/L		12/23/24 16:10	1	MM
1,1-Dichloropropene	<0.33		1.0	0.33	ug/L		12/23/24 16:10	1	MM
1,2,3-Trichlorobenzene	<0.35		1.0	0.35	ug/L		12/23/24 16:10	1	MM
1,2,3-Trichloropropane	<1.5		2.0	1.5	ug/L		12/23/24 16:10	1	MM
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L		12/23/24 16:10	1	MM
1,2,4-Trimethylbenzene	<0.30		1.0	0.30	ug/L		12/23/24 16:10	1	MM
1,2-Dibromo-3-Chloropropane	<3.9		5.0	3.9	ug/L		12/23/24 16:10	1	MM
1,2-Dibromoethane (EDB)	<0.56		1.0	0.56	ug/L		12/23/24 16:10	1	MM
1,2-Dichlorobenzene	<0.48		1.0	0.48	ug/L		12/23/24 16:10	1	MM
1,2-Dichloroethane	<0.58		1.0	0.58	ug/L		12/23/24 16:10	1	MM
1,2-Dichloropropane	<0.37		1.0	0.37	ug/L		12/23/24 16:10	1	MM
1,3,5-Trimethylbenzene	<0.29		1.0	0.29	ug/L		12/23/24 16:10	1	MM
1,3-Dichlorobenzene	<0.41		1.0	0.41	ug/L		12/23/24 16:10	1	MM
1,3-Dichloropropane	<0.56		1.0	0.56	ug/L		12/23/24 16:10	1	MM
1,4-Dichlorobenzene	<0.45		1.0	0.45	ug/L		12/23/24 16:10	1	MM
2,2-Dichloropropane	<0.48		5.0	0.48	ug/L		12/23/24 16:10	1	MM
2-Chlorotoluene	<0.36		1.0	0.36	ug/L		12/23/24 16:10	1	MM
4-Chlorotoluene	<0.34		1.0	0.34	ug/L		12/23/24 16:10	1	MM
Benzene	<0.18		0.50	0.18	ug/L		12/23/24 16:10	1	MM
Bromobenzene	<0.60		1.0	0.60	ug/L		12/23/24 16:10	1	MM
Bromochloromethane	<0.50		1.0	0.50	ug/L		12/23/24 16:10	1	MM

Client Sample ID: SMW-3

Date Collected: 12/16/24 12:20
Date Received: 12/18/24 10:05

Lab Sample ID: 500-261745-2

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Analyzed	Dil Fac	Analyst
Bromodichloromethane	<0.57		1.0	0.57	ug/L		12/23/24 16:10	1	MM
Bromoform	<0.96		1.0	0.96	ug/L		12/23/24 16:10	1	MM
Bromomethane	<1.8		3.0	1.8	ug/L		12/23/24 16:10	1	MM
Carbon tetrachloride	<0.41		1.0	0.41	ug/L		12/23/24 16:10	1	MM
Chlorobenzene	<0.41		1.0	0.41	ug/L		12/23/24 16:10	1	MM
Chloroethane	<0.47		5.0	0.47	ug/L		12/23/24 16:10	1	MM
Chloroform	<0.92		2.0	0.92	ug/L		12/23/24 16:10	1	MM
Chloromethane	<0.79		5.0	0.79	ug/L		12/23/24 16:10	1	MM
cis-1,2-Dichloroethene	<0.42		1.0	0.42	ug/L		12/23/24 16:10	1	MM
cis-1,3-Dichloropropene	<0.52		1.0	0.52	ug/L		12/23/24 16:10	1	MM
Dibromochloromethane	<0.83		1.0	0.83	ug/L		12/23/24 16:10	1	MM
Dibromomethane	<0.58		1.0	0.58	ug/L		12/23/24 16:10	1	MM
Dichlorodifluoromethane	<1.8		3.0	1.8	ug/L		12/23/24 16:10	1	MM
Ethylbenzene	<0.20		0.50	0.20	ug/L		12/23/24 16:10	1	MM
Hexachlorobutadiene	<0.54		1.0	0.54	ug/L		12/23/24 16:10	1	MM
Isopropyl ether	<0.38	^c	1.0	0.38	ug/L		12/23/24 16:10	1	MM
Isopropylbenzene	<0.29		1.0	0.29	ug/L		12/23/24 16:10	1	MM
Methyl tert-butyl ether	<0.43		1.0	0.43	ug/L		12/23/24 16:10	1	MM
Methylene Chloride	<3.6		5.0	3.6	ug/L		12/23/24 16:10	1	MM
Naphthalene	<0.44	^c	1.0	0.44	ug/L		12/23/24 16:10	1	MM
n-Butylbenzene	<0.33		1.0	0.33	ug/L		12/23/24 16:10	1	MM
N-Propylbenzene	<0.32		1.0	0.32	ug/L		12/23/24 16:10	1	MM
p-Isopropyltoluene	<0.29		1.0	0.29	ug/L		12/23/24 16:10	1	MM
sec-Butylbenzene	<0.27		1.0	0.27	ug/L		12/23/24 16:10	1	MM
Styrene	<0.31		1.0	0.31	ug/L		12/23/24 16:10	1	MM
tert-Butylbenzene	<0.26		1.0	0.26	ug/L		12/23/24 16:10	1	MM
Tetrachloroethene	<0.39		1.0	0.39	ug/L		12/23/24 16:10	1	MM
Toluene	<0.21		0.50	0.21	ug/L		12/23/24 16:10	1	MM
trans-1,2-Dichloroethene	<0.44		1.0	0.44	ug/L		12/23/24 16:10	1	MM
trans-1,3-Dichloropropene	<0.63		1.0	0.63	ug/L		12/23/24 16:10	1	MM
Trichloroethene	<0.15		0.50	0.15	ug/L		12/23/24 16:10	1	MM
Trichlorofluoromethane	<0.44		1.0	0.44	ug/L		12/23/24 16:10	1	MM
Vinyl chloride	<0.47	*	1.0	0.47	ug/L		12/23/24 16:10	1	MM
Xylenes, Total	<0.30		1.0	0.30	ug/L		12/23/24 16:10	1	MM

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*	*12/23/24 16:10*	*1*	*MM*
4-Bromofluorobenzene (Surr)	*105*		*72 - 124*	*12/23/24 16:10*	*1*	*MM*
Dibromofluoromethane (Surr)	*98*		*75 - 120*	*12/23/24 16:10*	*1*	*MM*
Toluene-d8 (Surr)	*103*		*75 - 120*	*12/23/24 16:10*	*1*	*MM*

Client Sample ID: SMW-4

Date Collected: 12/16/24 12:00
Date Received: 12/18/24 10:05

Lab Sample ID: 500-261745-3

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1,2-Tetrachloroethane	<0.67		1.0	0.67	ug/L		12/23/24 16:34	1	MM
1,1,1-Trichloroethane	<0.45		1.0	0.45	ug/L		12/23/24 16:34	1	MM
1,1,2,2-Tetrachloroethane	<0.65		1.0	0.65	ug/L		12/23/24 16:34	1	MM

Client Sample ID: SMW-4
Date Collected: 12/16/24 12:00
Date Received: 12/18/24 10:05

Lab Sample ID: 500-261745-3
Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Analyzed	Dil Fac	Analyst
1,1,2-Trichloroethane	<0.73		1.0	0.73	ug/L		12/23/24 16:34	1	MM
1,1-Dichloroethane	<0.36		1.0	0.36	ug/L		12/23/24 16:34	1	MM
1,1-Dichloroethene	<0.48		1.0	0.48	ug/L		12/23/24 16:34	1	MM
1,1-Dichloropropene	<0.33		1.0	0.33	ug/L		12/23/24 16:34	1	MM
1,2,3-Trichlorobenzene	<0.35		1.0	0.35	ug/L		12/23/24 16:34	1	MM
1,2,3-Trichloropropane	<1.5		2.0	1.5	ug/L		12/23/24 16:34	1	MM
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L		12/23/24 16:34	1	MM
1,2,4-Trimethylbenzene	<0.30		1.0	0.30	ug/L		12/23/24 16:34	1	MM
1,2-Dibromo-3-Chloropropane	<3.9		5.0	3.9	ug/L		12/23/24 16:34	1	MM
1,2-Dibromoethane (EDB)	<0.56		1.0	0.56	ug/L		12/23/24 16:34	1	MM
1,2-Dichlorobenzene	<0.48		1.0	0.48	ug/L		12/23/24 16:34	1	MM
1,2-Dichloroethane	<0.58		1.0	0.58	ug/L		12/23/24 16:34	1	MM
1,2-Dichloropropane	<0.37		1.0	0.37	ug/L		12/23/24 16:34	1	MM
1,3,5-Trimethylbenzene	<0.29		1.0	0.29	ug/L		12/23/24 16:34	1	MM
1,3-Dichlorobenzene	<0.41		1.0	0.41	ug/L		12/23/24 16:34	1	MM
1,3-Dichloropropane	<0.56		1.0	0.56	ug/L		12/23/24 16:34	1	MM
1,4-Dichlorobenzene	<0.45		1.0	0.45	ug/L		12/23/24 16:34	1	MM
2,2-Dichloropropane	<0.48		5.0	0.48	ug/L		12/23/24 16:34	1	MM
2-Chlorotoluene	<0.36		1.0	0.36	ug/L		12/23/24 16:34	1	MM
4-Chlorotoluene	<0.34		1.0	0.34	ug/L		12/23/24 16:34	1	MM
Benzene	<0.18		0.50	0.18	ug/L		12/23/24 16:34	1	MM
Bromobenzene	<0.60		1.0	0.60	ug/L		12/23/24 16:34	1	MM
Bromochloromethane	<0.50		1.0	0.50	ug/L		12/23/24 16:34	1	MM
Bromodichloromethane	<0.57		1.0	0.57	ug/L		12/23/24 16:34	1	MM
Bromoform	<0.96		1.0	0.96	ug/L		12/23/24 16:34	1	MM
Bromomethane	<1.8		3.0	1.8	ug/L		12/23/24 16:34	1	MM
Carbon tetrachloride	<0.41		1.0	0.41	ug/L		12/23/24 16:34	1	MM
Chlorobenzene	<0.41		1.0	0.41	ug/L		12/23/24 16:34	1	MM
Chloroethane	<0.47		5.0	0.47	ug/L		12/23/24 16:34	1	MM
Chloroform	<0.92		2.0	0.92	ug/L		12/23/24 16:34	1	MM
Chloromethane	<0.79		5.0	0.79	ug/L		12/23/24 16:34	1	MM
cis-1,2-Dichloroethene	**15**		1.0	0.42	ug/L		12/23/24 16:34	1	MM
cis-1,3-Dichloropropene	<0.52		1.0	0.52	ug/L		12/23/24 16:34	1	MM
Dibromochloromethane	<0.83		1.0	0.83	ug/L		12/23/24 16:34	1	MM
Dibromomethane	<0.58		1.0	0.58	ug/L		12/23/24 16:34	1	MM
Dichlorodifluoromethane	<1.8		3.0	1.8	ug/L		12/23/24 16:34	1	MM
Ethylbenzene	<0.20		0.50	0.20	ug/L		12/23/24 16:34	1	MM
Hexachlorobutadiene	<0.54		1.0	0.54	ug/L		12/23/24 16:34	1	MM
Isopropyl ether	<0.38	^c	1.0	0.38	ug/L		12/23/24 16:34	1	MM
Isopropylbenzene	<0.29		1.0	0.29	ug/L		12/23/24 16:34	1	MM
Methyl tert-butyl ether	<0.43		1.0	0.43	ug/L		12/23/24 16:34	1	MM
Methylene Chloride	<3.6		5.0	3.6	ug/L		12/23/24 16:34	1	MM
Naphthalene	<0.44	^c	1.0	0.44	ug/L		12/23/24 16:34	1	MM
n-Butylbenzene	<0.33		1.0	0.33	ug/L		12/23/24 16:34	1	MM
N-Propylbenzene	<0.32		1.0	0.32	ug/L		12/23/24 16:34	1	MM
p-Isopropyltoluene	<0.29		1.0	0.29	ug/L		12/23/24 16:34	1	MM
sec-Butylbenzene	<0.27		1.0	0.27	ug/L		12/23/24 16:34	1	MM
Styrene	<0.31		1.0	0.31	ug/L		12/23/24 16:34	1	MM
tert-Butylbenzene	<0.26		1.0	0.26	ug/L		12/23/24 16:34	1	MM

Client Sample ID: SMW-4

Date Collected: 12/16/24 12:00
Date Received: 12/18/24 10:05

Lab Sample ID: 500-261745-3

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Analyzed	Dil Fac	Analyst
Tetrachloroethene	<0.39		1.0	0.39	ug/L		12/23/24 16:34	1	MM
Toluene	<0.21		0.50	0.21	ug/L		12/23/24 16:34	1	MM
trans-1,2-Dichloroethene	**6.5**		1.0	0.44	ug/L		12/23/24 16:34	1	MM
trans-1,3-Dichloropropene	<0.63		1.0	0.63	ug/L		12/23/24 16:34	1	MM
Trichloroethene	**0.86**		0.50	0.15	ug/L		12/23/24 16:34	1	MM
Trichlorofluoromethane	<0.44		1.0	0.44	ug/L		12/23/24 16:34	1	MM
Vinyl chloride	<0.47	*	1.0	0.47	ug/L		12/23/24 16:34	1	MM
Xylenes, Total	<0.30		1.0	0.30	ug/L		12/23/24 16:34	1	MM

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*	*12/23/24 16:34*	*1*	*MM*
4-Bromofluorobenzene (Surr)	*103*		*72 - 124*	*12/23/24 16:34*	*1*	*MM*
Dibromofluoromethane (Surr)	*99*		*75 - 120*	*12/23/24 16:34*	*1*	*MM*
Toluene-d8 (Surr)	*104*		*75 - 120*	*12/23/24 16:34*	*1*	*MM*

Client Sample ID: SMW-5

Date Collected: 12/16/24 14:05
Date Received: 12/18/24 10:05

Lab Sample ID: 500-261745-4

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1,2-Tetrachloroethane	<0.67		1.0	0.67	ug/L		12/23/24 16:59	1	MM
1,1,1-Trichloroethane	<0.45		1.0	0.45	ug/L		12/23/24 16:59	1	MM
1,1,2,2-Tetrachloroethane	<0.65		1.0	0.65	ug/L		12/23/24 16:59	1	MM
1,1,2-Trichloroethane	<0.73		1.0	0.73	ug/L		12/23/24 16:59	1	MM
1,1-Dichloroethane	**2.7**		1.0	0.36	ug/L		12/23/24 16:59	1	MM
1,1-Dichloroethene	**2.9**		1.0	0.48	ug/L		12/23/24 16:59	1	MM
1,1-Dichloropropene	<0.33		1.0	0.33	ug/L		12/23/24 16:59	1	MM
1,2,3-Trichlorobenzene	<0.35		1.0	0.35	ug/L		12/23/24 16:59	1	MM
1,2,3-Trichloropropane	<1.5		2.0	1.5	ug/L		12/23/24 16:59	1	MM
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L		12/23/24 16:59	1	MM
1,2,4-Trimethylbenzene	<0.30		1.0	0.30	ug/L		12/23/24 16:59	1	MM
1,2-Dibromo-3-Chloropropane	<3.9		5.0	3.9	ug/L		12/23/24 16:59	1	MM
1,2-Dibromoethane (EDB)	<0.56		1.0	0.56	ug/L		12/23/24 16:59	1	MM
1,2-Dichlorobenzene	<0.48		1.0	0.48	ug/L		12/23/24 16:59	1	MM
1,2-Dichloroethane	<0.58		1.0	0.58	ug/L		12/23/24 16:59	1	MM
1,2-Dichloropropane	<0.37		1.0	0.37	ug/L		12/23/24 16:59	1	MM
1,3,5-Trimethylbenzene	<0.29		1.0	0.29	ug/L		12/23/24 16:59	1	MM
1,3-Dichlorobenzene	<0.41		1.0	0.41	ug/L		12/23/24 16:59	1	MM
1,3-Dichloropropane	<0.56		1.0	0.56	ug/L		12/23/24 16:59	1	MM
1,4-Dichlorobenzene	<0.45		1.0	0.45	ug/L		12/23/24 16:59	1	MM
2,2-Dichloropropane	<0.48		5.0	0.48	ug/L		12/23/24 16:59	1	MM
2-Chlorotoluene	<0.36		1.0	0.36	ug/L		12/23/24 16:59	1	MM
4-Chlorotoluene	<0.34		1.0	0.34	ug/L		12/23/24 16:59	1	MM
Benzene	**0.29**	**J**	0.50	0.18	ug/L		12/23/24 16:59	1	MM
Bromobenzene	<0.60		1.0	0.60	ug/L		12/23/24 16:59	1	MM
Bromochloromethane	<0.50		1.0	0.50	ug/L		12/23/24 16:59	1	MM
Bromodichloromethane	<0.57		1.0	0.57	ug/L		12/23/24 16:59	1	MM
Bromoform	<0.96		1.0	0.96	ug/L		12/23/24 16:59	1	MM
Bromomethane	<1.8		3.0	1.8	ug/L		12/23/24 16:59	1	MM

Client Sample ID: SMW-5

Date Collected: 12/16/24 14:05
Date Received: 12/18/24 10:05

Lab Sample ID: 500-261745-4
Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Analyzed	Dil Fac	Analyst
Carbon tetrachloride	<0.41		1.0	0.41	ug/L		12/23/24 16:59	1	MM
Chlorobenzene	<0.41		1.0	0.41	ug/L		12/23/24 16:59	1	MM
Chloroethane	<0.47		5.0	0.47	ug/L		12/23/24 16:59	1	MM
Chloroform	<0.92		2.0	0.92	ug/L		12/23/24 16:59	1	MM
Chloromethane	<0.79		5.0	0.79	ug/L		12/23/24 16:59	1	MM
cis-1,2-Dichloroethene	**23**		1.0	0.42	ug/L		12/23/24 16:59	1	MM
cis-1,3-Dichloropropene	<0.52		1.0	0.52	ug/L		12/23/24 16:59	1	MM
Dibromochloromethane	<0.83		1.0	0.83	ug/L		12/23/24 16:59	1	MM
Dibromomethane	<0.58		1.0	0.58	ug/L		12/23/24 16:59	1	MM
Dichlorodifluoromethane	<1.8		3.0	1.8	ug/L		12/23/24 16:59	1	MM
Ethylbenzene	<0.20		0.50	0.20	ug/L		12/23/24 16:59	1	MM
Hexachlorobutadiene	<0.54		1.0	0.54	ug/L		12/23/24 16:59	1	MM
Isopropyl ether	<0.38	^c	1.0	0.38	ug/L		12/23/24 16:59	1	MM
Isopropylbenzene	<0.29		1.0	0.29	ug/L		12/23/24 16:59	1	MM
Methyl tert-butyl ether	<0.43		1.0	0.43	ug/L		12/23/24 16:59	1	MM
Methylene Chloride	<3.6		5.0	3.6	ug/L		12/23/24 16:59	1	MM
Naphthalene	<0.44	^c	1.0	0.44	ug/L		12/23/24 16:59	1	MM
n-Butylbenzene	<0.33		1.0	0.33	ug/L		12/23/24 16:59	1	MM
N-Propylbenzene	<0.32		1.0	0.32	ug/L		12/23/24 16:59	1	MM
p-Isopropyltoluene	<0.29		1.0	0.29	ug/L		12/23/24 16:59	1	MM
sec-Butylbenzene	<0.27		1.0	0.27	ug/L		12/23/24 16:59	1	MM
Styrene	<0.31		1.0	0.31	ug/L		12/23/24 16:59	1	MM
tert-Butylbenzene	<0.26		1.0	0.26	ug/L		12/23/24 16:59	1	MM
Tetrachloroethene	<0.39		1.0	0.39	ug/L		12/23/24 16:59	1	MM
Toluene	<0.21		0.50	0.21	ug/L		12/23/24 16:59	1	MM
trans-1,2-Dichloroethene	**2.2**		1.0	0.44	ug/L		12/23/24 16:59	1	MM
trans-1,3-Dichloropropene	<0.63		1.0	0.63	ug/L		12/23/24 16:59	1	MM
Trichloroethene	**8.7**		0.50	0.15	ug/L		12/23/24 16:59	1	MM
Trichlorofluoromethane	<0.44		1.0	0.44	ug/L		12/23/24 16:59	1	MM
Vinyl chloride	<0.47	*	1.0	0.47	ug/L		12/23/24 16:59	1	MM
Xylenes, Total	<0.30		1.0	0.30	ug/L		12/23/24 16:59	1	MM

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*	*12/23/24 16:59*	*1*	*MM*
4-Bromofluorobenzene (Surr)	*103*		*72 - 124*	*12/23/24 16:59*	*1*	*MM*
Dibromofluoromethane (Surr)	*100*		*75 - 120*	*12/23/24 16:59*	*1*	*MM*
Toluene-d8 (Surr)	*104*		*75 - 120*	*12/23/24 16:59*	*1*	*MM*

Client Sample ID: SMW-6

Date Collected: 12/16/24 13:10
Date Received: 12/18/24 10:05

Lab Sample ID: 500-261745-5
Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1,2-Tetrachloroethane	<0.67		1.0	0.67	ug/L		12/23/24 17:23	1	MM
1,1,1-Trichloroethane	<0.45		1.0	0.45	ug/L		12/23/24 17:23	1	MM
1,1,2,2-Tetrachloroethane	<0.65		1.0	0.65	ug/L		12/23/24 17:23	1	MM
1,1,2-Trichloroethane	<0.73		1.0	0.73	ug/L		12/23/24 17:23	1	MM
1,1-Dichloroethane	<0.36		1.0	0.36	ug/L		12/23/24 17:23	1	MM
1,1-Dichloroethene	**9.8**		1.0	0.48	ug/L		12/23/24 17:23	1	MM

Client Sample ID: SMW-6
Date Collected: 12/16/24 13:10
Date Received: 12/18/24 10:05

Lab Sample ID: 500-261745-5
Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Analyzed	Dil Fac	Analyst
1,1-Dichloropropene	<0.33		1.0	0.33	ug/L		12/23/24 17:23	1	MM
1,2,3-Trichlorobenzene	<0.35		1.0	0.35	ug/L		12/23/24 17:23	1	MM
1,2,3-Trichloropropane	<1.5		2.0	1.5	ug/L		12/23/24 17:23	1	MM
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L		12/23/24 17:23	1	MM
1,2,4-Trimethylbenzene	<0.30		1.0	0.30	ug/L		12/23/24 17:23	1	MM
1,2-Dibromo-3-Chloropropane	<3.9		5.0	3.9	ug/L		12/23/24 17:23	1	MM
1,2-Dibromoethane (EDB)	<0.56		1.0	0.56	ug/L		12/23/24 17:23	1	MM
1,2-Dichlorobenzene	<0.48		1.0	0.48	ug/L		12/23/24 17:23	1	MM
1,2-Dichloroethane	<0.58		1.0	0.58	ug/L		12/23/24 17:23	1	MM
1,2-Dichloropropane	<0.37		1.0	0.37	ug/L		12/23/24 17:23	1	MM
1,3,5-Trimethylbenzene	<0.29		1.0	0.29	ug/L		12/23/24 17:23	1	MM
1,3-Dichlorobenzene	<0.41		1.0	0.41	ug/L		12/23/24 17:23	1	MM
1,3-Dichloropropane	<0.56		1.0	0.56	ug/L		12/23/24 17:23	1	MM
1,4-Dichlorobenzene	<0.45		1.0	0.45	ug/L		12/23/24 17:23	1	MM
2,2-Dichloropropane	<0.48		5.0	0.48	ug/L		12/23/24 17:23	1	MM
2-Chlorotoluene	<0.36		1.0	0.36	ug/L		12/23/24 17:23	1	MM
4-Chlorotoluene	<0.34		1.0	0.34	ug/L		12/23/24 17:23	1	MM
Benzene	**0.35**	**J**	0.50	0.18	ug/L		12/23/24 17:23	1	MM
Bromobenzene	<0.60		1.0	0.60	ug/L		12/23/24 17:23	1	MM
Bromochloromethane	<0.50		1.0	0.50	ug/L		12/23/24 17:23	1	MM
Bromodichloromethane	<0.57		1.0	0.57	ug/L		12/23/24 17:23	1	MM
Bromoform	<0.96		1.0	0.96	ug/L		12/23/24 17:23	1	MM
Bromomethane	<1.8		3.0	1.8	ug/L		12/23/24 17:23	1	MM
Carbon tetrachloride	<0.41		1.0	0.41	ug/L		12/23/24 17:23	1	MM
Chlorobenzene	<0.41		1.0	0.41	ug/L		12/23/24 17:23	1	MM
Chloroethane	<0.47		5.0	0.47	ug/L		12/23/24 17:23	1	MM
Chloroform	<0.92		2.0	0.92	ug/L		12/23/24 17:23	1	MM
Chloromethane	<0.79		5.0	0.79	ug/L		12/23/24 17:23	1	MM
cis-1,2-Dichloroethene	**90**		1.0	0.42	ug/L		12/23/24 17:23	1	MM
cis-1,3-Dichloropropene	<0.52		1.0	0.52	ug/L		12/23/24 17:23	1	MM
Dibromochloromethane	<0.83		1.0	0.83	ug/L		12/23/24 17:23	1	MM
Dibromomethane	<0.58		1.0	0.58	ug/L		12/23/24 17:23	1	MM
Dichlorodifluoromethane	<1.8		3.0	1.8	ug/L		12/23/24 17:23	1	MM
Ethylbenzene	<0.20		0.50	0.20	ug/L		12/23/24 17:23	1	MM
Hexachlorobutadiene	<0.54		1.0	0.54	ug/L		12/23/24 17:23	1	MM
Isopropyl ether	<0.38	^c	1.0	0.38	ug/L		12/23/24 17:23	1	MM
Isopropylbenzene	<0.29		1.0	0.29	ug/L		12/23/24 17:23	1	MM
Methyl tert-butyl ether	<0.43		1.0	0.43	ug/L		12/23/24 17:23	1	MM
Methylene Chloride	<3.6		5.0	3.6	ug/L		12/23/24 17:23	1	MM
Naphthalene	<0.44	^c	1.0	0.44	ug/L		12/23/24 17:23	1	MM
n-Butylbenzene	<0.33		1.0	0.33	ug/L		12/23/24 17:23	1	MM
N-Propylbenzene	<0.32		1.0	0.32	ug/L		12/23/24 17:23	1	MM
p-Isopropyltoluene	<0.29		1.0	0.29	ug/L		12/23/24 17:23	1	MM
sec-Butylbenzene	<0.27		1.0	0.27	ug/L		12/23/24 17:23	1	MM
Styrene	<0.31		1.0	0.31	ug/L		12/23/24 17:23	1	MM
tert-Butylbenzene	<0.26		1.0	0.26	ug/L		12/23/24 17:23	1	MM
Tetrachloroethene	<0.39		1.0	0.39	ug/L		12/23/24 17:23	1	MM
Toluene	<0.21		0.50	0.21	ug/L		12/23/24 17:23	1	MM
trans-1,2-Dichloroethene	**8.0**		1.0	0.44	ug/L		12/23/24 17:23	1	MM

Client Sample ID: SMW-6

Date Collected: 12/16/24 13:10
Date Received: 12/18/24 10:05

Lab Sample ID: 500-261745-5
Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Analyzed	Dil Fac	Analyst
trans-1,3-Dichloropropene	<0.63		1.0	0.63	ug/L		12/23/24 17:23	1	MM
Trichlorofluoromethane	<0.44		1.0	0.44	ug/L		12/23/24 17:23	1	MM
Vinyl chloride	<0.47	*	1.0	0.47	ug/L		12/23/24 17:23	1	MM
Xylenes, Total	<0.30		1.0	0.30	ug/L		12/23/24 17:23	1	MM

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*	*12/23/24 17:23*	*1*	*MM*
4-Bromofluorobenzene (Surr)	*105*		*72 - 124*	*12/23/24 17:23*	*1*	*MM*
Dibromofluoromethane (Surr)	*98*		*75 - 120*	*12/23/24 17:23*	*1*	*MM*
Toluene-d8 (Surr)	*103*		*75 - 120*	*12/23/24 17:23*	*1*	*MM*

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Analyzed	Dil Fac	Analyst
Trichloroethene	**820**		10	3.0	ug/L		12/23/24 17:47	20	MM

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*	*12/23/24 17:47*	*20*	*MM*
4-Bromofluorobenzene (Surr)	*105*		*72 - 124*	*12/23/24 17:47*	*20*	*MM*
Dibromofluoromethane (Surr)	*99*		*75 - 120*	*12/23/24 17:47*	*20*	*MM*
Toluene-d8 (Surr)	*104*		*75 - 120*	*12/23/24 17:47*	*20*	*MM*

Client Sample ID: SMW-7

Date Collected: 12/16/24 12:30
Date Received: 12/18/24 10:05

Lab Sample ID: 500-261745-6
Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1,2-Tetrachloroethane	<0.67		1.0	0.67	ug/L		12/23/24 18:12	1	MM
1,1,1-Trichloroethane	<0.45		1.0	0.45	ug/L		12/23/24 18:12	1	MM
1,1,2,2-Tetrachloroethane	<0.65		1.0	0.65	ug/L		12/23/24 18:12	1	MM
1,1,2-Trichloroethane	<0.73		1.0	0.73	ug/L		12/23/24 18:12	1	MM
1,1-Dichloroethane	<0.36		1.0	0.36	ug/L		12/23/24 18:12	1	MM
1,1-Dichloroethene	<0.48		1.0	0.48	ug/L		12/23/24 18:12	1	MM
1,1-Dichloropropene	<0.33		1.0	0.33	ug/L		12/23/24 18:12	1	MM
1,2,3-Trichlorobenzene	<0.35		1.0	0.35	ug/L		12/23/24 18:12	1	MM
1,2,3-Trichloropropane	<1.5		2.0	1.5	ug/L		12/23/24 18:12	1	MM
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L		12/23/24 18:12	1	MM
1,2,4-Trimethylbenzene	<0.30		1.0	0.30	ug/L		12/23/24 18:12	1	MM
1,2-Dibromo-3-Chloropropane	<3.9		5.0	3.9	ug/L		12/23/24 18:12	1	MM
1,2-Dibromoethane (EDB)	<0.56		1.0	0.56	ug/L		12/23/24 18:12	1	MM
1,2-Dichlorobenzene	<0.48		1.0	0.48	ug/L		12/23/24 18:12	1	MM
1,2-Dichloroethane	<0.58		1.0	0.58	ug/L		12/23/24 18:12	1	MM
1,2-Dichloropropane	<0.37		1.0	0.37	ug/L		12/23/24 18:12	1	MM
1,3,5-Trimethylbenzene	<0.29		1.0	0.29	ug/L		12/23/24 18:12	1	MM
1,3-Dichlorobenzene	<0.41		1.0	0.41	ug/L		12/23/24 18:12	1	MM
1,3-Dichloropropane	<0.56		1.0	0.56	ug/L		12/23/24 18:12	1	MM
1,4-Dichlorobenzene	<0.45		1.0	0.45	ug/L		12/23/24 18:12	1	MM
2,2-Dichloropropane	<0.48		5.0	0.48	ug/L		12/23/24 18:12	1	MM
2-Chlorotoluene	<0.36		1.0	0.36	ug/L		12/23/24 18:12	1	MM
4-Chlorotoluene	<0.34		1.0	0.34	ug/L		12/23/24 18:12	1	MM
Benzene	**0.24**	**J**	0.50	0.18	ug/L		12/23/24 18:12	1	MM

Client Sample ID: SMW-7

Date Collected: 12/16/24 12:30
Date Received: 12/18/24 10:05

Lab Sample ID: 500-261745-6
Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Analyzed	Dil Fac	Analyst
Bromobenzene	<0.60		1.0	0.60	ug/L		12/23/24 18:12	1	MM
Bromochloromethane	<0.50		1.0	0.50	ug/L		12/23/24 18:12	1	MM
Bromodichloromethane	<0.57		1.0	0.57	ug/L		12/23/24 18:12	1	MM
Bromoform	<0.96		1.0	0.96	ug/L		12/23/24 18:12	1	MM
Bromomethane	<1.8		3.0	1.8	ug/L		12/23/24 18:12	1	MM
Carbon tetrachloride	<0.41		1.0	0.41	ug/L		12/23/24 18:12	1	MM
Chlorobenzene	<0.41		1.0	0.41	ug/L		12/23/24 18:12	1	MM
Chloroethane	<0.47		5.0	0.47	ug/L		12/23/24 18:12	1	MM
Chloroform	<0.92		2.0	0.92	ug/L		12/23/24 18:12	1	MM
Chloromethane	<0.79		5.0	0.79	ug/L		12/23/24 18:12	1	MM
cis-1,2-Dichloroethene	**21**		1.0	0.42	ug/L		12/23/24 18:12	1	MM
cis-1,3-Dichloropropene	<0.52		1.0	0.52	ug/L		12/23/24 18:12	1	MM
Dibromochloromethane	<0.83		1.0	0.83	ug/L		12/23/24 18:12	1	MM
Dibromomethane	<0.58		1.0	0.58	ug/L		12/23/24 18:12	1	MM
Dichlorodifluoromethane	<1.8		3.0	1.8	ug/L		12/23/24 18:12	1	MM
Ethylbenzene	<0.20		0.50	0.20	ug/L		12/23/24 18:12	1	MM
Hexachlorobutadiene	<0.54		1.0	0.54	ug/L		12/23/24 18:12	1	MM
Isopropyl ether	<0.38	^c	1.0	0.38	ug/L		12/23/24 18:12	1	MM
Isopropylbenzene	<0.29		1.0	0.29	ug/L		12/23/24 18:12	1	MM
Methyl tert-butyl ether	<0.43		1.0	0.43	ug/L		12/23/24 18:12	1	MM
Methylene Chloride	<3.6		5.0	3.6	ug/L		12/23/24 18:12	1	MM
Naphthalene	<0.44	^c	1.0	0.44	ug/L		12/23/24 18:12	1	MM
n-Butylbenzene	<0.33		1.0	0.33	ug/L		12/23/24 18:12	1	MM
N-Propylbenzene	<0.32		1.0	0.32	ug/L		12/23/24 18:12	1	MM
p-Isopropyltoluene	<0.29		1.0	0.29	ug/L		12/23/24 18:12	1	MM
sec-Butylbenzene	<0.27		1.0	0.27	ug/L		12/23/24 18:12	1	MM
Styrene	<0.31		1.0	0.31	ug/L		12/23/24 18:12	1	MM
tert-Butylbenzene	<0.26		1.0	0.26	ug/L		12/23/24 18:12	1	MM
Tetrachloroethene	<0.39		1.0	0.39	ug/L		12/23/24 18:12	1	MM
Toluene	<0.21		0.50	0.21	ug/L		12/23/24 18:12	1	MM
trans-1,2-Dichloroethene	**54**		1.0	0.44	ug/L		12/23/24 18:12	1	MM
trans-1,3-Dichloropropene	<0.63		1.0	0.63	ug/L		12/23/24 18:12	1	MM
Trichloroethene	**58**		0.50	0.15	ug/L		12/23/24 18:12	1	MM
Trichlorofluoromethane	<0.44		1.0	0.44	ug/L		12/23/24 18:12	1	MM
Vinyl chloride	<0.47	*	1.0	0.47	ug/L		12/23/24 18:12	1	MM
Xylenes, Total	<0.30		1.0	0.30	ug/L		12/23/24 18:12	1	MM

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*	*12/23/24 18:12*	*1*	*MM*
4-Bromofluorobenzene (Surr)	*105*		*72 - 124*	*12/23/24 18:12*	*1*	*MM*
Dibromofluoromethane (Surr)	*99*		*75 - 120*	*12/23/24 18:12*	*1*	*MM*
Toluene-d8 (Surr)	*104*		*75 - 120*	*12/23/24 18:12*	*1*	*MM*

Client Sample ID: SMW-8

Date Collected: 12/16/24 12:40
Date Received: 12/18/24 10:05

Lab Sample ID: 500-261745-7
Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1,2-Tetrachloroethane	<0.67		1.0	0.67	ug/L		12/23/24 18:36	1	MM

Client Sample ID: SMW-8
Date Collected: 12/16/24 12:40
Date Received: 12/18/24 10:05

Lab Sample ID: 500-261745-7
Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	<0.45		1.0	0.45	ug/L		12/23/24 18:36	1	MM
1,1,2,2-Tetrachloroethane	<0.65		1.0	0.65	ug/L		12/23/24 18:36	1	MM
1,1,2-Trichloroethane	<0.73		1.0	0.73	ug/L		12/23/24 18:36	1	MM
1,1-Dichloroethane	<0.36		1.0	0.36	ug/L		12/23/24 18:36	1	MM
1,1-Dichloroethene	<0.48		1.0	0.48	ug/L		12/23/24 18:36	1	MM
1,1-Dichloropropene	<0.33		1.0	0.33	ug/L		12/23/24 18:36	1	MM
1,2,3-Trichlorobenzene	<0.35		1.0	0.35	ug/L		12/23/24 18:36	1	MM
1,2,3-Trichloropropane	<1.5		2.0	1.5	ug/L		12/23/24 18:36	1	MM
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L		12/23/24 18:36	1	MM
1,2,4-Trimethylbenzene	<0.30		1.0	0.30	ug/L		12/23/24 18:36	1	MM
1,2-Dibromo-3-Chloropropane	<3.9		5.0	3.9	ug/L		12/23/24 18:36	1	MM
1,2-Dibromoethane (EDB)	<0.56		1.0	0.56	ug/L		12/23/24 18:36	1	MM
1,2-Dichlorobenzene	<0.48		1.0	0.48	ug/L		12/23/24 18:36	1	MM
1,2-Dichloroethane	<0.58		1.0	0.58	ug/L		12/23/24 18:36	1	MM
1,2-Dichloropropane	<0.37		1.0	0.37	ug/L		12/23/24 18:36	1	MM
1,3,5-Trimethylbenzene	<0.29		1.0	0.29	ug/L		12/23/24 18:36	1	MM
1,3-Dichlorobenzene	<0.41		1.0	0.41	ug/L		12/23/24 18:36	1	MM
1,3-Dichloropropane	<0.56		1.0	0.56	ug/L		12/23/24 18:36	1	MM
1,4-Dichlorobenzene	<0.45		1.0	0.45	ug/L		12/23/24 18:36	1	MM
2,2-Dichloropropane	<0.48		5.0	0.48	ug/L		12/23/24 18:36	1	MM
2-Chlorotoluene	<0.36		1.0	0.36	ug/L		12/23/24 18:36	1	MM
4-Chlorotoluene	<0.34		1.0	0.34	ug/L		12/23/24 18:36	1	MM
Benzene	<0.18		0.50	0.18	ug/L		12/23/24 18:36	1	MM
Bromobenzene	<0.60		1.0	0.60	ug/L		12/23/24 18:36	1	MM
Bromochloromethane	<0.50		1.0	0.50	ug/L		12/23/24 18:36	1	MM
Bromodichloromethane	<0.57		1.0	0.57	ug/L		12/23/24 18:36	1	MM
Bromoform	<0.96		1.0	0.96	ug/L		12/23/24 18:36	1	MM
Bromomethane	<1.8		3.0	1.8	ug/L		12/23/24 18:36	1	MM
Carbon tetrachloride	<0.41		1.0	0.41	ug/L		12/23/24 18:36	1	MM
Chlorobenzene	<0.41		1.0	0.41	ug/L		12/23/24 18:36	1	MM
Chloroethane	<0.47		5.0	0.47	ug/L		12/23/24 18:36	1	MM
Chloroform	<0.92		2.0	0.92	ug/L		12/23/24 18:36	1	MM
Chloromethane	<0.79		5.0	0.79	ug/L		12/23/24 18:36	1	MM
cis-1,2-Dichloroethene	<0.42		1.0	0.42	ug/L		12/23/24 18:36	1	MM
cis-1,3-Dichloropropene	<0.52		1.0	0.52	ug/L		12/23/24 18:36	1	MM
Dibromochloromethane	<0.83		1.0	0.83	ug/L		12/23/24 18:36	1	MM
Dibromomethane	<0.58		1.0	0.58	ug/L		12/23/24 18:36	1	MM
Dichlorodifluoromethane	<1.8		3.0	1.8	ug/L		12/23/24 18:36	1	MM
Ethylbenzene	<0.20		0.50	0.20	ug/L		12/23/24 18:36	1	MM
Hexachlorobutadiene	<0.54		1.0	0.54	ug/L		12/23/24 18:36	1	MM
Isopropyl ether	<0.38	^c	1.0	0.38	ug/L		12/23/24 18:36	1	MM
Isopropylbenzene	<0.29		1.0	0.29	ug/L		12/23/24 18:36	1	MM
Methyl tert-butyl ether	<0.43		1.0	0.43	ug/L		12/23/24 18:36	1	MM
Methylene Chloride	<3.6		5.0	3.6	ug/L		12/23/24 18:36	1	MM
Naphthalene	<0.44	^c	1.0	0.44	ug/L		12/23/24 18:36	1	MM
n-Butylbenzene	<0.33		1.0	0.33	ug/L		12/23/24 18:36	1	MM
N-Propylbenzene	<0.32		1.0	0.32	ug/L		12/23/24 18:36	1	MM
p-Isopropyltoluene	<0.29		1.0	0.29	ug/L		12/23/24 18:36	1	MM
sec-Butylbenzene	<0.27		1.0	0.27	ug/L		12/23/24 18:36	1	MM

Client Sample ID: SMW-8

Date Collected: 12/16/24 12:40
Date Received: 12/18/24 10:05

Lab Sample ID: 500-261745-7
Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Analyzed	Dil Fac	Analyst
Styrene	<0.31		1.0	0.31	ug/L		12/23/24 18:36	1	MM
tert-Butylbenzene	<0.26		1.0	0.26	ug/L		12/23/24 18:36	1	MM
Tetrachloroethene	<0.39		1.0	0.39	ug/L		12/23/24 18:36	1	MM
Toluene	<0.21		0.50	0.21	ug/L		12/23/24 18:36	1	MM
trans-1,2-Dichloroethene	<0.44		1.0	0.44	ug/L		12/23/24 18:36	1	MM
trans-1,3-Dichloropropene	<0.63		1.0	0.63	ug/L		12/23/24 18:36	1	MM
Trichloroethene	**0.20**	**J**	0.50	0.15	ug/L		12/23/24 18:36	1	MM
Trichlorofluoromethane	<0.44		1.0	0.44	ug/L		12/23/24 18:36	1	MM
Vinyl chloride	<0.47	*	1.0	0.47	ug/L		12/23/24 18:36	1	MM
Xylenes, Total	<0.30		1.0	0.30	ug/L		12/23/24 18:36	1	MM

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*	*12/23/24 18:36*	*1*	*MM*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*	*12/23/24 18:36*	*1*	*MM*
Dibromofluoromethane (Surr)	*99*		*75 - 120*	*12/23/24 18:36*	*1*	*MM*
Toluene-d8 (Surr)	*104*		*75 - 120*	*12/23/24 18:36*	*1*	*MM*

Client Sample ID: SMW-9

Date Collected: 12/16/24 12:50
Date Received: 12/18/24 10:05

Lab Sample ID: 500-261745-8
Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1,2-Tetrachloroethane	<0.67		1.0	0.67	ug/L		12/23/24 19:00	1	MM
1,1,1-Trichloroethane	<0.45		1.0	0.45	ug/L		12/23/24 19:00	1	MM
1,1,2,2-Tetrachloroethane	<0.65		1.0	0.65	ug/L		12/23/24 19:00	1	MM
1,1,2-Trichloroethane	<0.73		1.0	0.73	ug/L		12/23/24 19:00	1	MM
1,1-Dichloroethane	<0.36		1.0	0.36	ug/L		12/23/24 19:00	1	MM
1,1-Dichloroethene	<0.48		1.0	0.48	ug/L		12/23/24 19:00	1	MM
1,1-Dichloropropene	<0.33		1.0	0.33	ug/L		12/23/24 19:00	1	MM
1,2,3-Trichlorobenzene	<0.35		1.0	0.35	ug/L		12/23/24 19:00	1	MM
1,2,3-Trichloropropane	<1.5		2.0	1.5	ug/L		12/23/24 19:00	1	MM
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L		12/23/24 19:00	1	MM
1,2,4-Trimethylbenzene	**0.32**	**J**	1.0	0.30	ug/L		12/23/24 19:00	1	MM
1,2-Dibromo-3-Chloropropane	<3.9		5.0	3.9	ug/L		12/23/24 19:00	1	MM
1,2-Dibromoethane (EDB)	<0.56		1.0	0.56	ug/L		12/23/24 19:00	1	MM
1,2-Dichlorobenzene	<0.48		1.0	0.48	ug/L		12/23/24 19:00	1	MM
1,2-Dichloroethane	<0.58		1.0	0.58	ug/L		12/23/24 19:00	1	MM
1,2-Dichloropropane	<0.37		1.0	0.37	ug/L		12/23/24 19:00	1	MM
1,3,5-Trimethylbenzene	<0.29		1.0	0.29	ug/L		12/23/24 19:00	1	MM
1,3-Dichlorobenzene	<0.41		1.0	0.41	ug/L		12/23/24 19:00	1	MM
1,3-Dichloropropane	<0.56		1.0	0.56	ug/L		12/23/24 19:00	1	MM
1,4-Dichlorobenzene	<0.45		1.0	0.45	ug/L		12/23/24 19:00	1	MM
2,2-Dichloropropane	<0.48		5.0	0.48	ug/L		12/23/24 19:00	1	MM
2-Chlorotoluene	<0.36		1.0	0.36	ug/L		12/23/24 19:00	1	MM
4-Chlorotoluene	<0.34		1.0	0.34	ug/L		12/23/24 19:00	1	MM
Benzene	**0.21**	**J**	0.50	0.18	ug/L		12/23/24 19:00	1	MM
Bromobenzene	<0.60		1.0	0.60	ug/L		12/23/24 19:00	1	MM
Bromochloromethane	<0.50		1.0	0.50	ug/L		12/23/24 19:00	1	MM
Bromodichloromethane	<0.57		1.0	0.57	ug/L		12/23/24 19:00	1	MM

Client Sample ID: SMW-9

Lab Sample ID: 500-261745-8

Date Collected: 12/16/24 12:50

Matrix: Water

Date Received: 12/18/24 10:05

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Analyzed	Dil Fac	Analyst
Bromoform	<0.96		1.0	0.96	ug/L		12/23/24 19:00	1	MM
Bromomethane	<1.8		3.0	1.8	ug/L		12/23/24 19:00	1	MM
Carbon tetrachloride	<0.41		1.0	0.41	ug/L		12/23/24 19:00	1	MM
Chlorobenzene	<0.41		1.0	0.41	ug/L		12/23/24 19:00	1	MM
Chloroethane	<0.47		5.0	0.47	ug/L		12/23/24 19:00	1	MM
Chloroform	<0.92		2.0	0.92	ug/L		12/23/24 19:00	1	MM
Chloromethane	<0.79		5.0	0.79	ug/L		12/23/24 19:00	1	MM
cis-1,2-Dichloroethene	<0.42		1.0	0.42	ug/L		12/23/24 19:00	1	MM
cis-1,3-Dichloropropene	<0.52		1.0	0.52	ug/L		12/23/24 19:00	1	MM
Dibromochloromethane	<0.83		1.0	0.83	ug/L		12/23/24 19:00	1	MM
Dibromomethane	<0.58		1.0	0.58	ug/L		12/23/24 19:00	1	MM
Dichlorodifluoromethane	<1.8		3.0	1.8	ug/L		12/23/24 19:00	1	MM
Ethylbenzene	**0.24**	**J**	0.50	0.20	ug/L		12/23/24 19:00	1	MM
Hexachlorobutadiene	<0.54		1.0	0.54	ug/L		12/23/24 19:00	1	MM
Isopropyl ether	<0.38	^c	1.0	0.38	ug/L		12/23/24 19:00	1	MM
Isopropylbenzene	**0.45**	**J**	1.0	0.29	ug/L		12/23/24 19:00	1	MM
Methyl tert-butyl ether	<0.43		1.0	0.43	ug/L		12/23/24 19:00	1	MM
Methylene Chloride	<3.6		5.0	3.6	ug/L		12/23/24 19:00	1	MM
Naphthalene	<0.44	^c	1.0	0.44	ug/L		12/23/24 19:00	1	MM
n-Butylbenzene	<0.33		1.0	0.33	ug/L		12/23/24 19:00	1	MM
N-Propylbenzene	<0.32		1.0	0.32	ug/L		12/23/24 19:00	1	MM
p-Isopropyltoluene	<0.29		1.0	0.29	ug/L		12/23/24 19:00	1	MM
sec-Butylbenzene	**0.41**	**J**	1.0	0.27	ug/L		12/23/24 19:00	1	MM
Styrene	<0.31		1.0	0.31	ug/L		12/23/24 19:00	1	MM
tert-Butylbenzene	<0.26		1.0	0.26	ug/L		12/23/24 19:00	1	MM
Tetrachloroethene	<0.39		1.0	0.39	ug/L		12/23/24 19:00	1	MM
Toluene	**0.50**		0.50	0.21	ug/L		12/23/24 19:00	1	MM
trans-1,2-Dichloroethene	<0.44		1.0	0.44	ug/L		12/23/24 19:00	1	MM
trans-1,3-Dichloropropene	<0.63		1.0	0.63	ug/L		12/23/24 19:00	1	MM
Trichloroethene	**0.64**		0.50	0.15	ug/L		12/23/24 19:00	1	MM
Trichlorofluoromethane	<0.44		1.0	0.44	ug/L		12/23/24 19:00	1	MM
Vinyl chloride	<0.47	*	1.0	0.47	ug/L		12/23/24 19:00	1	MM
Xylenes, Total	**0.68**	**J**	1.0	0.30	ug/L		12/23/24 19:00	1	MM

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 126*	*12/23/24 19:00*	*1*	*MM*
4-Bromofluorobenzene (Surr)	*105*		*72 - 124*	*12/23/24 19:00*	*1*	*MM*
Dibromofluoromethane (Surr)	*100*		*75 - 120*	*12/23/24 19:00*	*1*	*MM*
Toluene-d8 (Surr)	*103*		*75 - 120*	*12/23/24 19:00*	*1*	*MM*

Client Sample ID: DUP-1

Lab Sample ID: 500-261745-9

Date Collected: 12/16/24 12:00

Matrix: Water

Date Received: 12/18/24 10:05

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1,2-Tetrachloroethane	<0.67		1.0	0.67	ug/L		12/23/24 19:24	1	MM
1,1,1-Trichloroethane	<0.45		1.0	0.45	ug/L		12/23/24 19:24	1	MM
1,1,2,2-Tetrachloroethane	<0.65		1.0	0.65	ug/L		12/23/24 19:24	1	MM
1,1,2-Trichloroethane	<0.73		1.0	0.73	ug/L		12/23/24 19:24	1	MM

Client Sample ID: DUP-1
Date Collected: 12/16/24 12:00
Date Received: 12/18/24 10:05

Lab Sample ID: 500-261745-9
Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Analyzed	Dil Fac	Analyst
1,1-Dichloroethane	<0.36		1.0	0.36	ug/L		12/23/24 19:24	1	MM
1,1-Dichloroethene	<0.48		1.0	0.48	ug/L		12/23/24 19:24	1	MM
1,1-Dichloropropene	<0.33		1.0	0.33	ug/L		12/23/24 19:24	1	MM
1,2,3-Trichlorobenzene	<0.35		1.0	0.35	ug/L		12/23/24 19:24	1	MM
1,2,3-Trichloropropane	<1.5		2.0	1.5	ug/L		12/23/24 19:24	1	MM
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L		12/23/24 19:24	1	MM
1,2,4-Trimethylbenzene	<0.30		1.0	0.30	ug/L		12/23/24 19:24	1	MM
1,2-Dibromo-3-Chloropropane	<3.9		5.0	3.9	ug/L		12/23/24 19:24	1	MM
1,2-Dibromoethane (EDB)	<0.56		1.0	0.56	ug/L		12/23/24 19:24	1	MM
1,2-Dichlorobenzene	<0.48		1.0	0.48	ug/L		12/23/24 19:24	1	MM
1,2-Dichloroethane	<0.58		1.0	0.58	ug/L		12/23/24 19:24	1	MM
1,2-Dichloropropane	<0.37		1.0	0.37	ug/L		12/23/24 19:24	1	MM
1,3,5-Trimethylbenzene	<0.29		1.0	0.29	ug/L		12/23/24 19:24	1	MM
1,3-Dichlorobenzene	<0.41		1.0	0.41	ug/L		12/23/24 19:24	1	MM
1,3-Dichloropropane	<0.56		1.0	0.56	ug/L		12/23/24 19:24	1	MM
1,4-Dichlorobenzene	<0.45		1.0	0.45	ug/L		12/23/24 19:24	1	MM
2,2-Dichloropropane	<0.48		5.0	0.48	ug/L		12/23/24 19:24	1	MM
2-Chlorotoluene	<0.36		1.0	0.36	ug/L		12/23/24 19:24	1	MM
4-Chlorotoluene	<0.34		1.0	0.34	ug/L		12/23/24 19:24	1	MM
Benzene	<0.18		0.50	0.18	ug/L		12/23/24 19:24	1	MM
Bromobenzene	<0.60		1.0	0.60	ug/L		12/23/24 19:24	1	MM
Bromochloromethane	<0.50		1.0	0.50	ug/L		12/23/24 19:24	1	MM
Bromodichloromethane	<0.57		1.0	0.57	ug/L		12/23/24 19:24	1	MM
Bromoform	<0.96		1.0	0.96	ug/L		12/23/24 19:24	1	MM
Bromomethane	<1.8		3.0	1.8	ug/L		12/23/24 19:24	1	MM
Carbon tetrachloride	<0.41		1.0	0.41	ug/L		12/23/24 19:24	1	MM
Chlorobenzene	<0.41		1.0	0.41	ug/L		12/23/24 19:24	1	MM
Chloroethane	<0.47		5.0	0.47	ug/L		12/23/24 19:24	1	MM
Chloroform	<0.92		2.0	0.92	ug/L		12/23/24 19:24	1	MM
Chloromethane	<0.79		5.0	0.79	ug/L		12/23/24 19:24	1	MM
cis-1,2-Dichloroethene	**15**		1.0	0.42	ug/L		12/23/24 19:24	1	MM
cis-1,3-Dichloropropene	<0.52		1.0	0.52	ug/L		12/23/24 19:24	1	MM
Dibromochloromethane	<0.83		1.0	0.83	ug/L		12/23/24 19:24	1	MM
Dibromomethane	<0.58		1.0	0.58	ug/L		12/23/24 19:24	1	MM
Dichlorodifluoromethane	<1.8		3.0	1.8	ug/L		12/23/24 19:24	1	MM
Ethylbenzene	<0.20		0.50	0.20	ug/L		12/23/24 19:24	1	MM
Hexachlorobutadiene	<0.54		1.0	0.54	ug/L		12/23/24 19:24	1	MM
Isopropyl ether	<0.38	^c	1.0	0.38	ug/L		12/23/24 19:24	1	MM
Isopropylbenzene	<0.29		1.0	0.29	ug/L		12/23/24 19:24	1	MM
Methyl tert-butyl ether	<0.43		1.0	0.43	ug/L		12/23/24 19:24	1	MM
Methylene Chloride	<3.6		5.0	3.6	ug/L		12/23/24 19:24	1	MM
Naphthalene	<0.44	^c	1.0	0.44	ug/L		12/23/24 19:24	1	MM
n-Butylbenzene	<0.33		1.0	0.33	ug/L		12/23/24 19:24	1	MM
N-Propylbenzene	<0.32		1.0	0.32	ug/L		12/23/24 19:24	1	MM
p-Isopropyltoluene	<0.29		1.0	0.29	ug/L		12/23/24 19:24	1	MM
sec-Butylbenzene	<0.27		1.0	0.27	ug/L		12/23/24 19:24	1	MM
Styrene	<0.31		1.0	0.31	ug/L		12/23/24 19:24	1	MM
tert-Butylbenzene	<0.26		1.0	0.26	ug/L		12/23/24 19:24	1	MM
Tetrachloroethene	<0.39		1.0	0.39	ug/L		12/23/24 19:24	1	MM

Client Sample ID: DUP-1

Lab Sample ID: 500-261745-9

Date Collected: 12/16/24 12:00

Matrix: Water

Date Received: 12/18/24 10:05

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Analyzed	Dil Fac	Analyst
Toluene	<0.21		0.50	0.21	ug/L		12/23/24 19:24	1	MM
trans-1,2-Dichloroethene	**6.5**		1.0	0.44	ug/L		12/23/24 19:24	1	MM
trans-1,3-Dichloropropene	<0.63		1.0	0.63	ug/L		12/23/24 19:24	1	MM
Trichloroethene	**0.99**		0.50	0.15	ug/L		12/23/24 19:24	1	MM
Trichlorofluoromethane	<0.44		1.0	0.44	ug/L		12/23/24 19:24	1	MM
Vinyl chloride	<0.47	*	1.0	0.47	ug/L		12/23/24 19:24	1	MM
Xylenes, Total	<0.30		1.0	0.30	ug/L		12/23/24 19:24	1	MM

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*	*12/23/24 19:24*	*1*	*MM*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*	*12/23/24 19:24*	*1*	*MM*
Dibromofluoromethane (Surr)	*99*		*75 - 120*	*12/23/24 19:24*	*1*	*MM*
Toluene-d8 (Surr)	*104*		*75 - 120*	*12/23/24 19:24*	*1*	*MM*

Client Sample ID: Equip Blank

Lab Sample ID: 500-261745-10

Date Collected: 12/16/24 10:30

Matrix: Water

Date Received: 12/18/24 10:05

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1,2-Tetrachloroethane	<0.67		1.0	0.67	ug/L		12/23/24 19:49	1	MM
1,1,1-Trichloroethane	<0.45		1.0	0.45	ug/L		12/23/24 19:49	1	MM
1,1,2,2-Tetrachloroethane	<0.65		1.0	0.65	ug/L		12/23/24 19:49	1	MM
1,1,2-Trichloroethane	<0.73		1.0	0.73	ug/L		12/23/24 19:49	1	MM
1,1-Dichloroethane	<0.36		1.0	0.36	ug/L		12/23/24 19:49	1	MM
1,1-Dichloroethene	<0.48		1.0	0.48	ug/L		12/23/24 19:49	1	MM
1,1-Dichloropropene	<0.33		1.0	0.33	ug/L		12/23/24 19:49	1	MM
1,2,3-Trichlorobenzene	<0.35		1.0	0.35	ug/L		12/23/24 19:49	1	MM
1,2,3-Trichloropropane	<1.5		2.0	1.5	ug/L		12/23/24 19:49	1	MM
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L		12/23/24 19:49	1	MM
1,2,4-Trimethylbenzene	<0.30		1.0	0.30	ug/L		12/23/24 19:49	1	MM
1,2-Dibromo-3-Chloropropane	<3.9		5.0	3.9	ug/L		12/23/24 19:49	1	MM
1,2-Dibromoethane (EDB)	<0.56		1.0	0.56	ug/L		12/23/24 19:49	1	MM
1,2-Dichlorobenzene	<0.48		1.0	0.48	ug/L		12/23/24 19:49	1	MM
1,2-Dichloroethane	<0.58		1.0	0.58	ug/L		12/23/24 19:49	1	MM
1,2-Dichloropropane	<0.37		1.0	0.37	ug/L		12/23/24 19:49	1	MM
1,3,5-Trimethylbenzene	<0.29		1.0	0.29	ug/L		12/23/24 19:49	1	MM
1,3-Dichlorobenzene	<0.41		1.0	0.41	ug/L		12/23/24 19:49	1	MM
1,3-Dichloropropane	<0.56		1.0	0.56	ug/L		12/23/24 19:49	1	MM
1,4-Dichlorobenzene	<0.45		1.0	0.45	ug/L		12/23/24 19:49	1	MM
2,2-Dichloropropane	<0.48		5.0	0.48	ug/L		12/23/24 19:49	1	MM
2-Chlorotoluene	<0.36		1.0	0.36	ug/L		12/23/24 19:49	1	MM
4-Chlorotoluene	<0.34		1.0	0.34	ug/L		12/23/24 19:49	1	MM
Benzene	<0.18		0.50	0.18	ug/L		12/23/24 19:49	1	MM
Bromobenzene	<0.60		1.0	0.60	ug/L		12/23/24 19:49	1	MM
Bromochloromethane	<0.50		1.0	0.50	ug/L		12/23/24 19:49	1	MM
Bromodichloromethane	<0.57		1.0	0.57	ug/L		12/23/24 19:49	1	MM
Bromoform	<0.96		1.0	0.96	ug/L		12/23/24 19:49	1	MM
Bromomethane	<1.8		3.0	1.8	ug/L		12/23/24 19:49	1	MM
Carbon tetrachloride	<0.41		1.0	0.41	ug/L		12/23/24 19:49	1	MM

Client Sample ID: Equip Blank

Lab Sample ID: 500-261745-10

Date Collected: 12/16/24 10:30

Matrix: Water

Date Received: 12/18/24 10:05

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Analyzed	Dil Fac	Analyst
Chlorobenzene	<0.41		1.0	0.41	ug/L		12/23/24 19:49	1	MM
Chloroethane	<0.47		5.0	0.47	ug/L		12/23/24 19:49	1	MM
Chloroform	<0.92		2.0	0.92	ug/L		12/23/24 19:49	1	MM
Chloromethane	<0.79		5.0	0.79	ug/L		12/23/24 19:49	1	MM
cis-1,2-Dichloroethene	<0.42		1.0	0.42	ug/L		12/23/24 19:49	1	MM
cis-1,3-Dichloropropene	<0.52		1.0	0.52	ug/L		12/23/24 19:49	1	MM
Dibromochloromethane	<0.83		1.0	0.83	ug/L		12/23/24 19:49	1	MM
Dibromomethane	<0.58		1.0	0.58	ug/L		12/23/24 19:49	1	MM
Dichlorodifluoromethane	<1.8		3.0	1.8	ug/L		12/23/24 19:49	1	MM
Ethylbenzene	<0.20		0.50	0.20	ug/L		12/23/24 19:49	1	MM
Hexachlorobutadiene	<0.54		1.0	0.54	ug/L		12/23/24 19:49	1	MM
Isopropyl ether	<0.38	^c	1.0	0.38	ug/L		12/23/24 19:49	1	MM
Isopropylbenzene	<0.29		1.0	0.29	ug/L		12/23/24 19:49	1	MM
Methyl tert-butyl ether	<0.43		1.0	0.43	ug/L		12/23/24 19:49	1	MM
Methylene Chloride	<3.6		5.0	3.6	ug/L		12/23/24 19:49	1	MM
Naphthalene	<0.44	^c	1.0	0.44	ug/L		12/23/24 19:49	1	MM
n-Butylbenzene	<0.33		1.0	0.33	ug/L		12/23/24 19:49	1	MM
N-Propylbenzene	<0.32		1.0	0.32	ug/L		12/23/24 19:49	1	MM
p-Isopropyltoluene	<0.29		1.0	0.29	ug/L		12/23/24 19:49	1	MM
sec-Butylbenzene	<0.27		1.0	0.27	ug/L		12/23/24 19:49	1	MM
Styrene	<0.31		1.0	0.31	ug/L		12/23/24 19:49	1	MM
tert-Butylbenzene	<0.26		1.0	0.26	ug/L		12/23/24 19:49	1	MM
Tetrachloroethene	<0.39		1.0	0.39	ug/L		12/23/24 19:49	1	MM
Toluene	<0.21		0.50	0.21	ug/L		12/23/24 19:49	1	MM
trans-1,2-Dichloroethene	<0.44		1.0	0.44	ug/L		12/23/24 19:49	1	MM
trans-1,3-Dichloropropene	<0.63		1.0	0.63	ug/L		12/23/24 19:49	1	MM
Trichloroethene	<0.15		0.50	0.15	ug/L		12/23/24 19:49	1	MM
Trichlorofluoromethane	<0.44		1.0	0.44	ug/L		12/23/24 19:49	1	MM
Vinyl chloride	<0.47	*	1.0	0.47	ug/L		12/23/24 19:49	1	MM
Xylenes, Total	<0.30		1.0	0.30	ug/L		12/23/24 19:49	1	MM

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*	*12/23/24 19:49*	*1*	*MM*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*	*12/23/24 19:49*	*1*	*MM*
Dibromofluoromethane (Surr)	*98*		*75 - 120*	*12/23/24 19:49*	*1*	*MM*
Toluene-d8 (Surr)	*104*		*75 - 120*	*12/23/24 19:49*	*1*	*MM*

Client Sample ID: TB-1

Lab Sample ID: 500-261745-11

Date Collected: 12/16/24 00:00

Matrix: Water

Date Received: 12/18/24 10:05

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1,2-Tetrachloroethane	<0.67		1.0	0.67	ug/L		12/23/24 20:13	1	MM
1,1,1-Trichloroethane	<0.45		1.0	0.45	ug/L		12/23/24 20:13	1	MM
1,1,2,2-Tetrachloroethane	<0.65		1.0	0.65	ug/L		12/23/24 20:13	1	MM
1,1,2-Trichloroethane	<0.73		1.0	0.73	ug/L		12/23/24 20:13	1	MM
1,1-Dichloroethane	<0.36		1.0	0.36	ug/L		12/23/24 20:13	1	MM
1,1-Dichloroethene	<0.48		1.0	0.48	ug/L		12/23/24 20:13	1	MM
1,1-Dichloropropene	<0.33		1.0	0.33	ug/L		12/23/24 20:13	1	MM

Client Sample ID: TB-1
Date Collected: 12/16/24 00:00
Date Received: 12/18/24 10:05

Lab Sample ID: 500-261745-11
Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Analyzed	Dil Fac	Analyst
1,2,3-Trichlorobenzene	<0.35		1.0	0.35	ug/L		12/23/24 20:13	1	MM
1,2,3-Trichloropropane	<1.5		2.0	1.5	ug/L		12/23/24 20:13	1	MM
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L		12/23/24 20:13	1	MM
1,2,4-Trimethylbenzene	<0.30		1.0	0.30	ug/L		12/23/24 20:13	1	MM
1,2-Dibromo-3-Chloropropane	<3.9		5.0	3.9	ug/L		12/23/24 20:13	1	MM
1,2-Dibromoethane (EDB)	<0.56		1.0	0.56	ug/L		12/23/24 20:13	1	MM
1,2-Dichlorobenzene	<0.48		1.0	0.48	ug/L		12/23/24 20:13	1	MM
1,2-Dichloroethane	<0.58		1.0	0.58	ug/L		12/23/24 20:13	1	MM
1,2-Dichloropropane	<0.37		1.0	0.37	ug/L		12/23/24 20:13	1	MM
1,3,5-Trimethylbenzene	<0.29		1.0	0.29	ug/L		12/23/24 20:13	1	MM
1,3-Dichlorobenzene	<0.41		1.0	0.41	ug/L		12/23/24 20:13	1	MM
1,3-Dichloropropane	<0.56		1.0	0.56	ug/L		12/23/24 20:13	1	MM
1,4-Dichlorobenzene	<0.45		1.0	0.45	ug/L		12/23/24 20:13	1	MM
2,2-Dichloropropane	<0.48		5.0	0.48	ug/L		12/23/24 20:13	1	MM
2-Chlorotoluene	<0.36		1.0	0.36	ug/L		12/23/24 20:13	1	MM
4-Chlorotoluene	<0.34		1.0	0.34	ug/L		12/23/24 20:13	1	MM
Benzene	<0.18		0.50	0.18	ug/L		12/23/24 20:13	1	MM
Bromobenzene	<0.60		1.0	0.60	ug/L		12/23/24 20:13	1	MM
Bromochloromethane	<0.50		1.0	0.50	ug/L		12/23/24 20:13	1	MM
Bromodichloromethane	<0.57		1.0	0.57	ug/L		12/23/24 20:13	1	MM
Bromoform	<0.96		1.0	0.96	ug/L		12/23/24 20:13	1	MM
Bromomethane	<1.8		3.0	1.8	ug/L		12/23/24 20:13	1	MM
Carbon tetrachloride	<0.41		1.0	0.41	ug/L		12/23/24 20:13	1	MM
Chlorobenzene	<0.41		1.0	0.41	ug/L		12/23/24 20:13	1	MM
Chloroethane	<0.47		5.0	0.47	ug/L		12/23/24 20:13	1	MM
Chloroform	<0.92		2.0	0.92	ug/L		12/23/24 20:13	1	MM
Chloromethane	<0.79		5.0	0.79	ug/L		12/23/24 20:13	1	MM
cis-1,2-Dichloroethene	<0.42		1.0	0.42	ug/L		12/23/24 20:13	1	MM
cis-1,3-Dichloropropene	<0.52		1.0	0.52	ug/L		12/23/24 20:13	1	MM
Dibromochloromethane	<0.83		1.0	0.83	ug/L		12/23/24 20:13	1	MM
Dibromomethane	<0.58		1.0	0.58	ug/L		12/23/24 20:13	1	MM
Dichlorodifluoromethane	<1.8		3.0	1.8	ug/L		12/23/24 20:13	1	MM
Ethylbenzene	<0.20		0.50	0.20	ug/L		12/23/24 20:13	1	MM
Hexachlorobutadiene	<0.54		1.0	0.54	ug/L		12/23/24 20:13	1	MM
Isopropyl ether	<0.38	^c	1.0	0.38	ug/L		12/23/24 20:13	1	MM
Isopropylbenzene	<0.29		1.0	0.29	ug/L		12/23/24 20:13	1	MM
Methyl tert-butyl ether	<0.43		1.0	0.43	ug/L		12/23/24 20:13	1	MM
Methylene Chloride	<3.6		5.0	3.6	ug/L		12/23/24 20:13	1	MM
Naphthalene	<0.44	^c	1.0	0.44	ug/L		12/23/24 20:13	1	MM
n-Butylbenzene	<0.33		1.0	0.33	ug/L		12/23/24 20:13	1	MM
N-Propylbenzene	<0.32		1.0	0.32	ug/L		12/23/24 20:13	1	MM
p-Isopropyltoluene	<0.29		1.0	0.29	ug/L		12/23/24 20:13	1	MM
sec-Butylbenzene	<0.27		1.0	0.27	ug/L		12/23/24 20:13	1	MM
Styrene	<0.31		1.0	0.31	ug/L		12/23/24 20:13	1	MM
tert-Butylbenzene	<0.26		1.0	0.26	ug/L		12/23/24 20:13	1	MM
Tetrachloroethene	<0.39		1.0	0.39	ug/L		12/23/24 20:13	1	MM
Toluene	<0.21		0.50	0.21	ug/L		12/23/24 20:13	1	MM
trans-1,2-Dichloroethene	<0.44		1.0	0.44	ug/L		12/23/24 20:13	1	MM
trans-1,3-Dichloropropene	<0.63		1.0	0.63	ug/L		12/23/24 20:13	1	MM

Client: Sigma Group Inc, The
Project/Site: Harley Davidson - 19125

Job ID: 500-261745-1

Client Sample ID: TB-1
Date Collected: 12/16/24 00:00
Date Received: 12/18/24 10:05

Lab Sample ID: 500-261745-11
Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Analyzed	Dil Fac	Analyst
Trichloroethene	<0.15		0.50	0.15	ug/L		12/23/24 20:13	1	MM
Trichlorofluoromethane	<0.44		1.0	0.44	ug/L		12/23/24 20:13	1	MM
Vinyl chloride	<0.47	*	1.0	0.47	ug/L		12/23/24 20:13	1	MM
Xylenes, Total	<0.30		1.0	0.30	ug/L		12/23/24 20:13	1	MM

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*	*12/23/24 20:13*	*1*	*MM*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*	*12/23/24 20:13*	*1*	*MM*
Dibromofluoromethane (Surr)	*99*		*75 - 120*	*12/23/24 20:13*	*1*	*MM*
Toluene-d8 (Surr)	*104*		*75 - 120*	*12/23/24 20:13*	*1*	*MM*

Accreditation/Certification and Definitions Summary

Client: Sigma Group Inc, The
Project/Site: Harley Davidson - 19125

Job ID: 500-261745-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-25

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
^c	CCV Recovery is outside acceptance limits.
J	Reported value was between the limit of detection and the limit of quantitation.

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
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
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
MRL	Method Reporting 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
SDL	Sample Detection Limit
SDL	Sample Detection Limit
SDL	Sample Detection Limit
TEF	Toxicity Equivalent Factor (Dioxin)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Method Summary

Client: Sigma Group Inc, The
Project/Site: Harley Davidson - 19125

Job ID: 500-261745-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI

Protocol References:

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

Laboratory References:

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

Address MKE 232

Chain of Custody Record 726734

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Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Chelsea Engrath	Site Contact:	Date:	COC No
Company Name The Sigma Group	Tel/Email: 414-643-4151	Lab Contact:	Carrier:	1 of 1 COCs
Address 1300 W Canal St	Analysis Turnaround Time			Sampler
City/State/Zip Milwaukee WI 53233	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone 414-643-4151	TAT if different from Below Standard			Walk-in Client
Fax	☐ 2 weeks			Lab Sampling
Project Name 19125	☐ 1 week			
Site Harley Davidson/3700 W Juneau Ave	☐ 2 days			Job / SDG No 500-261745
P O #	☐ 1 day			

500-261745 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	VOC (EPA 8260)	Sample Specific Notes
1	SMW-2	12/16	1300	G	H2O	3			X	
2	SMW-3		1220						X	
3	SMW-4		1200						X	
4	SMW-5		1405						X	
5	SMW-6		1310						X	
6	SMW-7		1230						X	
7	SMW-8		1240						X	
8	SMW-9		1250						X	
9	DUP-1		1200						X	
10	Equip Blank	↓	1030	↓	↓	~~1~~			X	
11	TB-1	↓	–	↓	↓	1			X	
									2	

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.

1.8 → 1.6 SS 12/18/24

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 1.8 Corr'd 1.6 | Therm ID No

Relinquished by	Company Sigma	Date/Time 12-17-1800	Received by Eurofins	Company Eurofins	Date/Time 12/17/24 1443
Relinquished by	Company Eurofins 12/17/24	Date/Time 1630	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time 12/18/24 1005

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1/3/2025
Ms. Chelsea Engnath
The Sigma Group
1300 West Canal Street

Milwaukee WI 53233

Project Name: H-D 19125
Project #: 19125
Workorder #: 2412538

Dear Ms. Chelsea Engnath

The following report includes the data for the above referenced project for sample(s) received on 12/18/2024 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Passive S.E. RAD130/SKC are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

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WORK ORDER #: 2412538

Work Order Summary

CLIENT:	Ms. Chelsea Engnath The Sigma Group 1300 West Canal Street Milwaukee, WI 53233	**BILL TO:**	Ms. Chelsea Engnath The Sigma Group 1300 West Canal Street Milwaukee, WI 53233
PHONE:		**P.O. #**	
FAX:		**PROJECT #**	19125 H-D 19125
DATE RECEIVED:	12/18/2024	**CONTACT:**	Jade White
DATE COMPLETED:	01/03/2025		

FRACTION #	NAME	TEST
01A	IA-5	Passive S.E. RAD130/SKC
02A	OA	Passive S.E. RAD130/SKC
03A	Lab Blank	Passive S.E. RAD130/SKC
04A	CCV	Passive S.E. RAD130/SKC
05A	LCS	Passive S.E. RAD130/SKC
05AA	LCSD	Passive S.E. RAD130/SKC

CERTIFIED BY: Heidi Hayes DATE: 01/03/25

Technical Director

Cert. No.: AZ Licensure-AZ0775, FL NELAP-E87680, LA NELAP–02089, MN NELAP-2836569, NH NELAP–209224-A, NJ NELAP-CA016, NY NELAP-11291, TX NELAP-T104704434, UT NELAP-CA009332023-16, VA NELAP-13180, WA NELAP-C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-21
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000

LABORATORY NARRATIVE
RAD130 Passive SE by Mod EPA TO-17
The Sigma Group
Workorder# 2412538

Two Radiello 130 (Solvent) samples were received on December 18, 2024. The laboratory analyzed the charcoal sorbent bed of the passive sampler following modified method EPA TO-17. The VOCs were chemically extracted using carbon disulfide and an aliquot of the extract was injected into a GC/MS for identification and quantification of volatile organic compounds (VOCs).

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value. Results are not corrected for desorption efficiency.

The reference method used for this procedure is EPA TO-17, which describes the collection of VOCs in ambient air using sorbents and analysis by GC/MS. Because TO-17 describes active sample collection using a pump and thermal desorption as the preparation step, several modifications are required. Modifications to TO-17 are listed in the table below:

Requirement	***TO-17***	***ATL Modifications***
Sample Collection	Pump pulls measured air volume through sorbent tube	VOCs in air adsorbed onto sorbent bed passively through diffusion
Sample Preparation	Thermal extraction	Solvent extraction
Sorbent tube conditioning	Condition newly packed tubes prior to use	Charcoal-based sorbent is a single use media and conditioning is conducted by vendor.
Instrumentation	Thermal desorption introduction system	Liquid injection introduction system
Internal Standard	Gas-phase internal standard introduced on the tube or focusing trap during analysis	Liquid-phase internal standard introduced on the tube at the time of extraction
Media and sample storage	<4 deg C, 30 days	Media shelf life is determined by vendor; sample hold-time is 6 months for the RAD130 and WMS. Sample preservation requirements are storage in a cool, solvent-free refrigerator and optional use of ice during shipping.
Internal Standard Recovery	+/-40% of daily CCV area	-50% to +100% of daily CCV area

Receiving Notes

The Chain of Custody was missing method assignment in the 'Requested Analyses' checkbox for the associated sample. The laboratory proceeded with the analysis as per the original contract or verbal agreement.

Sample collection date was incomplete on the Chain of Custody for sample IA-5 and OA. The year of

collection was assumed to be 2024.

Analytical Notes

The uptake rates were corrected based on average field temperatures if provided. In the absence of field temperatures, the uptake rates determined at 25 deg C were used.

If validated uptake rates were not available, rates were estimated using the chemical's diffusion coefficient in air and the geometric constant of the sampler. Chemicals that are poorly retained by the sorbent over the sampling duration may exhibit a low bias. All concentrations calculated using estimated rates are qualified with a "C" flag.

To calculate ug/m3 concentrations in the Lab Blank, a sampling duration of 17350 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

C - Estimated concentration due to calculated sampling rate

CN - See case narrative explanation.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: IA-5

Lab ID#: 2412538-01A

No Detections Were Found.

Client Sample ID: OA

Lab ID#: 2412538-02A

No Detections Were Found.

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Client Sample ID: IA-5

Lab ID#: 2412538-01A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18122617sim**	**Date of Collection: 12/16/24 10:55:00 A**
Dil. Factor:	**1.00**	**Date of Analysis: 12/26/24 03:40 PM**
		Date of Extraction: 12/26/24

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.10	0.26	Not Detected	Not Detected
Tetrachloroethene	0.10	0.30	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.10	0.29	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.60	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 68.0F , duration time = 5715 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130

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Client Sample ID: OA

Lab ID#: 2412538-02A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18122618sim**	**Date of Collection: 12/16/24 11:10:00 A**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/26/24 04:07 PM**	
		Date of Extraction: 12/26/24	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.10	0.096	Not Detected	Not Detected
Tetrachloroethene	0.10	0.11	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.10	0.10	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.22	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 30.0F , duration time = 17350 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2412538-03A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18122605sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/26/24 10:14 AM**	
		Date of Extraction: 12/26/24	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.10	0.086	Not Detected	Not Detected
Tetrachloroethene	0.10	0.10	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.10	0.095	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.20	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 68.0F , duration time = 17350 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130

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Client Sample ID: CCV

Lab ID#: 2412538-04A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18122602sim**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 12/26/24 08:47 AM**
		Date of Extraction: NA

Compound	%Recovery
Trichloroethene	100
Tetrachloroethene	99
cis-1,2-Dichloroethene	104
trans-1,2-Dichloroethene	101

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130

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Client Sample ID: LCS

Lab ID#: 2412538-05A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18122603sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/26/24 09:21 AM**	
		Date of Extraction: 12/26/24	

Compound	%Recovery	Method Limits
Trichloroethene	90	70-130
Tetrachloroethene	87	70-130
cis-1,2-Dichloroethene	92	70-130
trans-1,2-Dichloroethene	90	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130

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Client Sample ID: LCSD

Lab ID#: 2412538-05AA

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18122604sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/26/24 09:48 AM**	
		Date of Extraction: 12/26/24	

Compound	%Recovery	Method Limits
Trichloroethene	90	70-130
Tetrachloroethene	86	70-130
cis-1,2-Dichloroethene	94	70-130
trans-1,2-Dichloroethene	92	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130

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Method : Passive SE GC/MS - c&t-1,2-DCE, PCE & TCE

CAS Number	Compound	Rpt. Limit (ug)
79-01-6	**Trichloroethene**	**0.10**
127-18-4	Tetrachloroethene	0.10
156-59-2	**cis-1,2-Dichloroethene**	**0.10**
156-60-5	**trans-1,2-Dichloroethene**	**0.20**

	Surrogate	Method Limits
2037-26-5	Toluene-d8	70-130

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Analysis Request / Passive Sorbent Chain of Custody

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Eurofins Environment Testing Northern California, LLC
180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Workorder #: 2412538

page 1 of 1

Client: Sigma
Site Name: HB 19125
Project Manager: Chelsea Engraff
Sampler: Chelsea Engraff

Project Name: HB 19125
Project #: 19125
PO#:

Turnaround Time (Specify Below)
Standard X Rush _____ (Surcharges will apply, per availability)
Samples received after 3PM PST are considered to be received on the following workday.
Requested Date (mm/dd/yy):
QR Number of Days:

Sample Matrix (Check One)
Reporting Units (Circle One)
ppbv (µg/m³) ppmv mg/m³ µg ng

Times are military unless am/pm is indicated

Lab ID	Field Sample Identification (Location)	Tube # / Sampler ID	Deployment Information Date	Deployment Information Time	Retrieval Information Date	Retrieval Information Time	Indoor/Outdoor Air	Soil Gas	Workplace Monitoring	(Other)	Temperature	Analysis Requested	Sample Comments:
01A	IA-5	VB096	12/12	1140	12/16	1055	X				68°F	*	
02A	OA	VB205	12/4	1000	12/16	1110	X				30°F		

INITIAL °C: NA LL Heater FINAL °C: ____
PROBE: ____ TIME STORED: ____
CUSTODY SEAL? (YES) NO NONE
CARRIER: Fed Ex

Special Instructions/Notes:
* Analyze for cis 1,2 DCE trans 1,2 DCE PCE + TCE

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
CEngraff	12/17/24	700	Eurofins	12/17/24	1420
Eurofins	12/17/24	1630	OA	12/18/24	1100

Lab Use Only

Shipper Name: Fed Ex | Custody Seals Intact? (Yes) No None | Temperature: NA | Condition: Good

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

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12/26/2024
Ms. Chelsea Engnath
The Sigma Group
1300 West Canal Street

Milwaukee WI 53233

Project Name: H-D
Project #: 19125
Workorder #: 2412341

Dear Ms. Chelsea Engnath

The following report includes the data for the above referenced project for sample(s) received on 12/12/2024 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Passive S.E. RAD130/SKC are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

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WORK ORDER #: 2412341

Work Order Summary

CLIENT:	Ms. Chelsea Engnath The Sigma Group 1300 West Canal Street Milwaukee, WI 53233	**BILL TO:**	Ms. Chelsea Engnath The Sigma Group 1300 West Canal Street Milwaukee, WI 53233
PHONE:		**P.O. #**	
FAX:		**PROJECT #**	19125 H-D
DATE RECEIVED:	12/12/2024	**CONTACT:**	Jade White
DATE COMPLETED:	12/26/2024		

FRACTION #	NAME	TEST
01A	IA-1	Passive S.E. RAD130/SKC
02A	IA-2	Passive S.E. RAD130/SKC
03A	IA-3	Passive S.E. RAD130/SKC
04A	IA-4	Passive S.E. RAD130/SKC
05A	Lab Blank	Passive S.E. RAD130/SKC
06A	CCV	Passive S.E. RAD130/SKC
07A	LCS	Passive S.E. RAD130/SKC
07AA	LCSD	Passive S.E. RAD130/SKC

CERTIFIED BY: Heidi Hayes DATE: 12/26/24

Technical Director

Cert. No.: AZ Licensure-AZ0775, FL NELAP-E87680, LA NELAP–02089, MN NELAP-2703122, NH NELAP–209223-B, NJ NELAP-CA016, NY NELAP-11291, TX NELAP-T104704434, UT NELAP-CA009332023-16, VA NELAP-12695, WA NELAP-C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-20
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

LABORATORY NARRATIVE
RAD130 Passive SE by Mod EPA TO-17
The Sigma Group
Workorder# 2412341

Four Radiello 130 (Solvent) samples were received on December 12, 2024. The laboratory analyzed the charcoal sorbent bed of the passive sampler following modified method EPA TO-17. The VOCs were chemically extracted using carbon disulfide and an aliquot of the extract was injected into a GC/MS for identification and quantification of volatile organic compounds (VOCs).

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value. Results are not corrected for desorption efficiency.

The reference method used for this procedure is EPA TO-17, which describes the collection of VOCs in ambient air using sorbents and analysis by GC/MS. Because TO-17 describes active sample collection using a pump and thermal desorption as the preparation step, several modifications are required. Modifications to TO-17 are listed in the table below:

Requirement	***TO-17***	***ATL Modifications***
Sample Collection	Pump pulls measured air volume through sorbent tube	VOCs in air adsorbed onto sorbent bed passively through diffusion
Sample Preparation	Thermal extraction	Solvent extraction
Sorbent tube conditioning	Condition newly packed tubes prior to use	Charcoal-based sorbent is a single use media and conditioning is conducted by vendor.
Instrumentation	Thermal desorption introduction system	Liquid injection introduction system
Internal Standard	Gas-phase internal standard introduced on the tube or focusing trap during analysis	Liquid-phase internal standard introduced on the tube at the time of extraction
Media and sample storage	<4 deg C, 30 days	Media shelf life is determined by vendor; sample hold-time is 6 months for the RAD130 and WMS. Sample preservation requirements are storage in a cool, solvent-free refrigerator and optional use of ice during shipping.
Internal Standard Recovery	+/-40% of daily CCV area	-50% to +100% of daily CCV area

Receiving Notes

The Chain of Custody was missing method assignment in the 'Requested Analyses' checkboxes for the associated samples. The laboratory proceeded with the analysis as per the original contract or verbal agreement.

Sample collection date was incomplete on the Chain of Custody for samples IA-1, IA-2, IA-3 and

IA-4. The year of collection was assumed to be 2024.

Analytical Notes

The uptake rates were corrected based on average field temperatures if provided. In the absence of field temperatures, the uptake rates determined at 25 deg C were used.

If validated uptake rates were not available, rates were estimated using the chemical's diffusion coefficient in air and the geometric constant of the sampler. Chemicals that are poorly retained by the sorbent over the sampling duration may exhibit a low bias. All concentrations calculated using estimated rates are qualified with a "C" flag.

To calculate ug/m3 concentrations in the Lab Blank, a sampling duration of 8940 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

C - Estimated concentration due to calculated sampling rate

CN - See case narrative explanation.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: IA-1

Lab ID#: 2412341-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.10	0.17	0.12	0.21
Tetrachloroethene	0.10	0.20	0.15	0.30

Client Sample ID: IA-2

Lab ID#: 2412341-02A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.10	0.16	0.18	0.30

Client Sample ID: IA-3

Lab ID#: 2412341-03A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.10	0.17	0.19	0.32
Tetrachloroethene	0.10	0.20	0.12	0.23

Client Sample ID: IA-4

Lab ID#: 2412341-04A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.10	0.17	0.27	0.44
Tetrachloroethene	0.10	0.19	0.16	0.31

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Client Sample ID: IA-1

Lab ID#: 2412341-01A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18121718sim**	**Date of Collection: 12/10/24 2:20:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 12/17/24 05:40 PM**
		Date of Extraction: 12/17/24

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.10	0.17	0.12	0.21
Tetrachloroethene	0.10	0.20	0.15	0.30
cis-1,2-Dichloroethene	0.10	0.18	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.39	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 70.6F , duration time = 8800 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130

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Client Sample ID: IA-2

Lab ID#: 2412341-02A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18121719sim**	**Date of Collection: 12/10/24 2:10:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 12/17/24 06:07 PM**
		Date of Extraction: 12/17/24

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.10	0.16	0.18	0.30
Tetrachloroethene	0.10	0.19	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.10	0.18	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.38	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 70.6F , duration time = 8940 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130

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Client Sample ID: IA-3

Lab ID#: 2412341-03A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18121720sim**	**Date of Collection: 12/10/24 2:30:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 12/17/24 06:33 PM**
		Date of Extraction: 12/17/24

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.10	0.17	0.19	0.32
Tetrachloroethene	0.10	0.20	0.12	0.23
cis-1,2-Dichloroethene	0.10	0.18	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.38	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 70.6F , duration time = 8848 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130

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Client Sample ID: IA-4

Lab ID#: 2412341-04A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18121721sim**	**Date of Collection: 12/10/24 3:20:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 12/17/24 07:00 PM**
		Date of Extraction: 12/17/24

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.10	0.17	0.27	0.44
Tetrachloroethene	0.10	0.19	0.16	0.31
cis-1,2-Dichloroethene	0.10	0.18	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.38	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 70.6F , duration time = 8895 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2412341-05A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18121705sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/17/24 11:44 AM**	
		Date of Extraction: 12/17/24	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.10	0.16	Not Detected	Not Detected
Tetrachloroethene	0.10	0.19	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.10	0.18	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.38	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 70.6F , duration time = 8940 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130

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Client Sample ID: CCV

Lab ID#: 2412341-06A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18121702sim**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 12/17/24 10:24 AM**
		Date of Extraction: NA

Compound	%Recovery
Trichloroethene	102
Tetrachloroethene	103
cis-1,2-Dichloroethene	104
trans-1,2-Dichloroethene	102

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130

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Client Sample ID: LCS

Lab ID#: 2412341-07A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18121703sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/17/24 10:50 AM**	
		Date of Extraction: 12/17/24	

Compound	%Recovery	Method Limits
Trichloroethene	86	70-130
Tetrachloroethene	87	70-130
cis-1,2-Dichloroethene	83	70-130
trans-1,2-Dichloroethene	80	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130

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Client Sample ID: LCSD

Lab ID#: 2412341-07AA

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18121704sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/17/24 11:17 AM**	
		Date of Extraction: 12/17/24	

Compound	%Recovery	Method Limits
Trichloroethene	88	70-130
Tetrachloroethene	87	70-130
cis-1,2-Dichloroethene	85	70-130
trans-1,2-Dichloroethene	82	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130

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Method : Passive SE GC/MS - c&t-1,2-DCE, PCE & TCE

CAS Number	Compound	Rpt. Limit (ug)
79-01-6	**Trichloroethene**	**0.10**
127-18-4	Tetrachloroethene	0.10
156-59-2	**cis-1,2-Dichloroethene**	**0.10**
156-60-5	**trans-1,2-Dichloroethene**	**0.20**

	Surrogate	Method Limits
2037-26-5	Toluene-d8	70-130

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Eurofins Environment Testing Northern California, LLC
180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Workorder #: 2412341

page 1 of 1

Client: Sigma
Site Name: H-D-19125
Project Manager: Chelsea Engnath
Sampler: Chelsea Engnath

Project Name: H-D
Project #: 19125
PO#:

Turnaround Time (Specify Below)
Standard X Rush _____ (Surcharges will apply, per availability)
Samples received after 3PM PST are considered to be received on the following workday.
Requested Date (mm/dd/yy):
OR Number of Days:

Sample Matrix (Check One)

Reporting Units (Circle One)
ppbv µg/m³ ppmv mg/m³ µg ng

Times are military unless am/pm is indicated

Lab ID	Field Sample Identification (Location)	Tube # / Sampler ID	Deployment Information Date	Deployment Information Time	Retrieval Information Date	Retrieval Information Time	Indoor/Outdoor Air	Soil Gas	Workplace Monitoring	(Other)	Temperature	Analysis Requested	Sample Comments:
01A	IA-1	UB208	12/4	1140	12/10	220	X				70.5°F	*	
02A	IA-2	UB207	"	1010	"	310	X				"		
03A	IA-3	UB210	"	1102	"	230	X				"		
04A	IA-4	UB209	"	1105		320	X				"		

Special Instructions/Notes:
* cis-1,2-DCE, Trans-1,2-DCE, PCE, TCE

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Cengnath / Signature	12/11/24	1000	BTS FATL	12/12/24	1001
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: Fedex | Custody Seals Intact? Yes No (None) | Temperature: | Condition: Good

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

eurofins | Air Toxics

12/26/2024
Ms. Chelsea Engnath
The Sigma Group
1300 West Canal Street

Milwaukee WI 53233

Project Name: H-D
Project #: 19125
Workorder #: 2412340

Dear Ms. Chelsea Engnath

The following report includes the data for the above referenced project for sample(s) received on 12/12/2024 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Passive S.E. WMS are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

eurofins | Air Toxics

WORK ORDER #: 2412340

Work Order Summary

CLIENT:	Ms. Chelsea Engnath The Sigma Group 1300 West Canal Street Milwaukee, WI 53233	**BILL TO:**	Ms. Chelsea Engnath The Sigma Group 1300 West Canal Street Milwaukee, WI 53233
PHONE:		**P.O. #**	
FAX:		**PROJECT #**	19125 H-D
DATE RECEIVED:	12/12/2024	**CONTACT:**	Jade White
DATE COMPLETED:	12/26/2024		

FRACTION #	NAME	TEST
01A	SG-1	Passive S.E. WMS
02A	SG-2	Passive S.E. WMS
03A	SG-3	Passive S.E. WMS
04A	Lab Blank	Passive S.E. WMS
05A	CCV	Passive S.E. WMS
06A	LCS	Passive S.E. WMS
06AA	LCSD	Passive S.E. WMS

CERTIFIED BY: Heidi Hayes DATE: 12/26/24

Technical Director

Cert. No.: AZ Licensure-AZ0775, FL NELAP-E87680, LA NELAP–02089, MN NELAP-2703122, NH NELAP–209223-B, NJ NELAP-CA016, NY NELAP-11291, TX NELAP-T104704434, UT NELAP-CA009332023-16, VA NELAP-12695, WA NELAP-C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-20
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000

LABORATORY NARRATIVE
WMS Passive SE by Mod EPA TO-17
The Sigma Group
Workorder# 2412340

Three WMS-SE samples were received on December 12, 2024. The laboratory analyzed the charcoal sorbent bed of the passive sampler following modified method EPA TO-17. The VOCs were chemically extracted using carbon disulfide and an aliquot of the extract was injected into a GC/MS for identification and quantification of volatile organic compounds (VOCs).

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value. Results are not corrected for desorption efficiency.

Please note that 1,1,2,2-Tetrachloroethane (1,1,2,2-PCA) can degrade into Trichloroethene (TCE) during storage on the charcoal-based sorbent used in the WMS device. Samples containing 1,1,2,2-PCA may yield reduced concentrations of 1,1,2,2-PCA and elevated concentrations of TCE.

The reference method used for this procedure is EPA TO-17, which describes the collection of VOCs in ambient air using sorbents and analysis by GC/MS. Because TO-17 describes active sample collection using a pump and thermal desorption as the preparation step, several modifications are required. Modifications to TO-17 are listed in the table below:

Requirement	***TO-17***	***ATL Modifications***
Sample Collection	Pump pulls measured air volume through sorbent tube	VOCs in air adsorbed onto sorbent bed passively through diffusion
Sample Preparation	Thermal extraction	Solvent extraction
Sorbent tube conditioning	Condition newly packed tubes prior to use	Charcoal-based sorbent is a single use media and conditioning is conducted by vendor.
Instrumentation	Thermal desorption introduction system	Liquid injection introduction system
Internal Standard	Gas-phase internal standard introduced on the tube or focusing trap during analysis	Liquid-phase internal standard introduced on the tube at the time of extraction
Media and sample storage	<4 deg C, 30 days	Media shelf life is determined by vendor; sample hold-time is 6 months for the RAD130 and WMS. Sample preservation requirements are storage in a cool, solvent-free refrigerator and optional use of ice during shipping.
Internal Standard Recovery	+/-40% of daily CCV area	-50% to +100% of daily CCV area

Receiving Notes

The Chain of Custody was missing method assignment in the 'Requested Analyses' checkboxes for the

associated samples. The laboratory proceeded with the analysis as per the original contract or verbal agreement.

Analytical Notes

To calculate ug/m3 concentrations in the Lab Blank, a sampling duration of 8739 minutes was applied.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.
C - Estimated concentration due to calculated sampling rate
CN - See case narrative explanation.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
VOC BY PASSIVE SAMPLER - GC/MS

Client Sample ID: SG-1

Lab ID#: 2412340-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.050	2.2	0.14	6.2

Client Sample ID: SG-2

Lab ID#: 2412340-02A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.050	3.0	1.2	73
Trichloroethene	0.050	2.2	2.4	100

Client Sample ID: SG-3

Lab ID#: 2412340-03A

No Detections Were Found.

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Client Sample ID: SG-1

Lab ID#: 2412340-01A

VOC BY PASSIVE SAMPLER - GC/MS

File Name:	**c121806sim**	**Date of Collection: 12/10/24 2:10:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/18/24 01:27 PM**	
		Date of Extraction: 12/18/24	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.050	3.0	Not Detected	Not Detected
trans-1,2-Dichloroethene	0.10	7.2	Not Detected	Not Detected
Trichloroethene	0.050	2.2	0.14	6.2
Tetrachloroethene	0.050	1.5	Not Detected	Not Detected

Temperature = 44.0F , duration time = 8710 minutes.

Container Type: WMS-SE

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130

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Client Sample ID: SG-2

Lab ID#: 2412340-02A

VOC BY PASSIVE SAMPLER - GC/MS

File Name:	**c121807sim**	**Date of Collection: 12/10/24 2:00:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/18/24 01:56 PM**	
		Date of Extraction: 12/18/24	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.050	3.0	1.2	73
trans-1,2-Dichloroethene	0.10	7.2	Not Detected	Not Detected
Trichloroethene	0.050	2.2	2.4	100
Tetrachloroethene	0.050	1.5	Not Detected	Not Detected

Temperature = 44.0F , duration time = 8730 minutes.

Container Type: WMS-SE

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130

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Client Sample ID: SG-3

Lab ID#: 2412340-03A

VOC BY PASSIVE SAMPLER - GC/MS

File Name:	**c121808sim**	**Date of Collection: 12/10/24 1:54:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/18/24 02:23 PM**	
		Date of Extraction: 12/18/24	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.050	3.0	Not Detected	Not Detected
trans-1,2-Dichloroethene	0.10	7.2	Not Detected	Not Detected
Trichloroethene	0.050	2.2	Not Detected	Not Detected
Tetrachloroethene	0.050	1.5	Not Detected	Not Detected

Temperature = 44.0F , duration time = 8739 minutes.
Container Type: WMS-SE

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2412340-04A

VOC BY PASSIVE SAMPLER - GC/MS

File Name:	**c121805sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/18/24 01:00 PM**	
		Date of Extraction: 12/18/24	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.050	3.0	Not Detected	Not Detected
trans-1,2-Dichloroethene	0.10	7.2	Not Detected	Not Detected
Trichloroethene	0.050	2.2	Not Detected	Not Detected
Tetrachloroethene	0.050	1.5	Not Detected	Not Detected

Temperature = 44.0F , duration time = 8739 minutes.
Container Type: WMS-SE

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130

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Client Sample ID: CCV

Lab ID#: 2412340-05A

VOC BY PASSIVE SAMPLER - GC/MS

File Name:	**c121802sim**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 12/18/24 11:39 AM**
		Date of Extraction: NA

Compound	%Recovery
cis-1,2-Dichloroethene	108
trans-1,2-Dichloroethene	112
Trichloroethene	104
Tetrachloroethene	102

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130

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Client Sample ID: LCS

Lab ID#: 2412340-06A

VOC BY PASSIVE SAMPLER - GC/MS

File Name:	**c121803sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/18/24 12:06 PM**	
		Date of Extraction: 12/18/24	

Compound	%Recovery	Method Limits
cis-1,2-Dichloroethene	99	70-130
trans-1,2-Dichloroethene	105	70-130
Trichloroethene	97	70-130
Tetrachloroethene	92	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130

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Client Sample ID: LCSD

Lab ID#: 2412340-06AA

VOC BY PASSIVE SAMPLER - GC/MS

File Name:	**c121804sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/18/24 12:33 PM**	
		Date of Extraction: 12/18/24	

Compound	%Recovery	Method Limits
cis-1,2-Dichloroethene	102	70-130
trans-1,2-Dichloroethene	107	70-130
Trichloroethene	97	70-130
Tetrachloroethene	90	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130

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Method : Passive SE GC/MS WMS (Sh)-c/t-1,2-DCE, PCE & TCE

CAS Number	Compound	Rpt. Limit (ug)
156-59-2	cis-1,2-Dichloroethene	0.050
156-60-5	trans-1,2-Dichloroethene	0.10
79-01-6	Trichloroethene	0.050
127-18-4	Tetrachloroethene	0.050

	Surrogate	Method Limits
2037-26-5	Toluene-d8	70-130

Analysis Request / Passive Sorbent Chain of Custody

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Eurofins Environment Testing Northern California, LLC
180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Workorder #: 2412310

page 1 of 1

Client: Sigma

Site Name: H-B-19125

Project Manager: Chelsea Tyghatt

Sampler: Chelsea Tyghatt

Project Name: H-B

Project #: 19125

PO#:

Turnaround Time (Specify Below)

Standard X Rush _____ (Surcharges will apply, per availability)

Samples received after 3PM PST are considered to be received on the following workday.

Requested Date (mm/dd/yy):

OR Number of Days:

Sample Matrix (Check One)

Reporting Units (Circle One): ppbv (µg/m³) ppmv mg/m³ µg ng

Times are military unless am/pm is indicated

Lab ID	Field Sample Identification (Location)	Tube # / Sampler ID	Deployment Information Date	Deployment Information Time	Retrieval Information Date	Retrieval Information Time	Indoor/Outdoor Air	Soil Gas	Workplace Monitoring	(Other) Sewer	Temperature	Analysis Requested	Sample Comments:
01A	SG-1	AN-R-24-178	12/4	100	12/10	~~1511~~ 210				X	44°F	*	
02A	SG-2	AN-R-24-181	1	1230	1	200				X	1		
03A	SG-3	AN-R-24-179	1	1215	1	154				X	1		

Special Instructions/Notes:

* cis-1,2-DCE, trans-1,2-DCE, PCE, TCE

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Chelsea Tyghatt / Sigma	12/11/24	1000	BTS EAT	12/12/24	1001
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: Fedex | Custody Seals Intact? Yes No (None) | Temperature: | Condition: Good

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

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ANALYTICAL REPORT

PREPARED FOR

Attn: Chelsea Engnath
Sigma Group Inc, The
1300 West Canal Street
Milwaukee, Wisconsin 53233

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JOB DESCRIPTION

H-D Juneau- 19125

JOB NUMBER

500-261515-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

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

Authorization

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Authorized for release by
Jodie Bracken, Project Manager I
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(708)534-5200

Table of Contents

Cover Page 1
Table of Contents 3
Case Narrative 4
Detection Summary 5
Method Summary 6
Sample Summary 7
Client Sample Results 8
Definitions 24
QC Association 25
Surrogate Summary 27
QC Sample Results 28
Chronicle 41
Certification Summary 44
Chain of Custody 45
Receipt Checklists 46

Job Narrative
500-261515-1

Receipt
The samples were received on 12/12/24 09:20. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.8º C.

GC/MS VOA
Method 8260D: The method blank for analytical batch 500-799842 contained 1,2,3-Trichlorobenzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 500-799842 was outside the method criteria for the following analyte(s): 1,2,3-Trichlorobenzene, Bromomethane, Chloroethane, Dichlorodifluoromethane and Naphthalene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The laboratory control sample (LCS) for analytical batch 500-799842 recovered outside control limits for the following analyte(s): 1,2,3-Trichlorobenzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-799452 and analytical batch 500-799842 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260D: The laboratory control sample (LCS) for 799452 recovered outside control limits for several analytes This is a prepped 5035 LCS. All daily instrument LCSs were acceptable, and the data have been reported.(LCS 500-799452/21-A)

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

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

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

Detection Summary

Client: Sigma Group Inc, The
Project/Site: H-D Juneau- 19125

Job ID: 500-261515-1

Client Sample ID: SSB-19 2-4 — Lab Sample ID: 500-261515-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.031	J	0.064	0.028	mg/Kg	50	☼	8260D	Total/NA
Toluene	0.013	J *+	0.016	0.013	mg/Kg	50	☼	8260D	Total/NA
Trichloroethene	0.15		0.032	0.0095	mg/Kg	50	☼	8260D	Total/NA
Xylenes, Total	0.031	J	0.032	0.015	mg/Kg	50	☼	8260D	Total/NA
Cadmium	0.55		0.21	0.038	mg/Kg	1	☼	6010D	Total/NA
Lead	210		0.53	0.24	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: SSB-19 10-12 — Lab Sample ID: 500-261515-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.16	J	0.22	0.039	mg/Kg	1	☼	6010D	Total/NA
Lead	5.8		0.54	0.25	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: SSB-20 2-4 — Lab Sample ID: 500-261515-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.29		0.22	0.039	mg/Kg	1	☼	6010D	Total/NA
Lead	25		0.55	0.25	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: SSB-20 12-14 — Lab Sample ID: 500-261515-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.26		0.22	0.039	mg/Kg	1	☼	6010D	Total/NA
Lead	9.4		0.55	0.25	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: SSB-21 1-3 — Lab Sample ID: 500-261515-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.17	J	0.21	0.038	mg/Kg	1	☼	6010D	Total/NA
Lead	3.4		0.53	0.24	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: SSB-21 10-12 — Lab Sample ID: 500-261515-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.16	J	0.20	0.035	mg/Kg	1	☼	6010D	Total/NA
Lead	6.4		0.49	0.23	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: Dup — Lab Sample ID: 500-261515-7

No Detections.

Client Sample ID: Trip — Lab Sample ID: 500-261515-8

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Sigma Group Inc, The
Project/Site: H-D Juneau- 19125

Job ID: 500-261515-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Sigma Group Inc, The
Project/Site: H-D Juneau- 19125

Job ID: 500-261515-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-261515-1	SSB-19 2-4	Solid	12/10/24 10:00	12/12/24 09:20
500-261515-2	SSB-19 10-12	Solid	12/10/24 10:05	12/12/24 09:20
500-261515-3	SSB-20 2-4	Solid	12/10/24 12:00	12/12/24 09:20
500-261515-4	SSB-20 12-14	Solid	12/10/24 12:05	12/12/24 09:20
500-261515-5	SSB-21 1-3	Solid	12/10/24 13:00	12/12/24 09:20
500-261515-6	SSB-21 10-12	Solid	12/10/24 13:05	12/12/24 09:20
500-261515-7	Dup	Solid	12/10/24 00:00	12/12/24 09:20
500-261515-8	Trip	Solid	12/10/24 00:00	12/12/24 09:20

Client: Sigma Group Inc, The
Project/Site: H-D Juneau- 19125

Job ID: 500-261515-1

Client Sample ID: SSB-19 2-4
Date Collected: 12/10/24 10:00
Date Received: 12/12/24 09:20

Lab Sample ID: 500-261515-1
Matrix: Solid
Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.042		0.064	0.042	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
1,1,1-Trichloroethane	<0.029	*+	0.064	0.029	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
1,1,2,2-Tetrachloroethane	<0.041		0.064	0.041	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
1,1,2-Trichloroethane	<0.047		0.064	0.047	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
1,1-Dichloroethane	<0.023		0.064	0.023	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
1,1-Dichloroethene	<0.031		0.064	0.031	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
1,1-Dichloropropene	<0.021		0.064	0.021	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
1,2,3-Trichlorobenzene	<0.022	*+	0.064	0.022	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
1,2,3-Trichloropropane	<0.095		0.13	0.095	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
1,2,4-Trichlorobenzene	<0.020		0.064	0.020	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
1,2,4-Trimethylbenzene	<0.019		0.064	0.019	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
1,2-Dibromo-3-Chloropropane	<0.26		0.32	0.26	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
1,2-Dibromoethane (EDB)	<0.036		0.064	0.036	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
1,2-Dichlorobenzene	<0.030		0.064	0.030	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
1,2-Dichloroethane	<0.037	*+	0.064	0.037	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
1,2-Dichloropropane	<0.024		0.064	0.024	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
1,3,5-Trimethylbenzene	<0.018		0.064	0.018	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
1,3-Dichlorobenzene	<0.026		0.064	0.026	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
1,3-Dichloropropane	<0.036		0.064	0.036	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
1,4-Dichlorobenzene	<0.029		0.064	0.029	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
2,2-Dichloropropane	<0.031		0.32	0.031	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
2-Chlorotoluene	<0.023		0.064	0.023	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
4-Chlorotoluene	<0.022		0.064	0.022	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
Benzene	<0.0078		0.016	0.0078	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
Bromobenzene	<0.038		0.064	0.038	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
Bromochloromethane	<0.032		0.064	0.032	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
Bromodichloromethane	<0.036		0.064	0.036	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
Bromoform	<0.061		0.064	0.061	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
Bromomethane	<0.11		0.19	0.11	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
Carbon tetrachloride	<0.026		0.064	0.026	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
Chlorobenzene	<0.026	*+	0.064	0.026	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
Chloroethane	<0.030		0.32	0.030	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
Chloroform	<0.059		0.13	0.059	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
Chloromethane	<0.050		0.32	0.050	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
cis-1,2-Dichloroethene	<0.026		0.064	0.026	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
cis-1,3-Dichloropropene	<0.033		0.064	0.033	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
Dibromochloromethane	<0.053		0.064	0.053	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
Dibromomethane	<0.037		0.064	0.037	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
Dichlorodifluoromethane	<0.11		0.19	0.11	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
Ethylbenzene	<0.011	*+	0.016	0.011	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
Hexachlorobutadiene	<0.034		0.064	0.034	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
Isopropyl ether	<0.025		0.064	0.025	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
Isopropylbenzene	<0.019		0.064	0.019	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
Methyl tert-butyl ether	<0.028		0.064	0.028	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
Methylene Chloride	<0.14		0.32	0.14	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
Naphthalene	**0.031**	**J**	0.064	0.028	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
n-Butylbenzene	<0.021		0.064	0.021	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
N-Propylbenzene	<0.020		0.064	0.020	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
p-Isopropyltoluene	<0.019		0.064	0.019	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50

Client: Sigma Group Inc, The
Project/Site: H-D Juneau- 19125

Job ID: 500-261515-1

Client Sample ID: SSB-19 2-4
Date Collected: 12/10/24 10:00
Date Received: 12/12/24 09:20

Lab Sample ID: 500-261515-1
Matrix: Solid
Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.017		0.064	0.017	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
Styrene	<0.020	*+	0.064	0.020	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
tert-Butylbenzene	<0.017	*+	0.064	0.017	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
Tetrachloroethene	<0.025	*+	0.064	0.025	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
Toluene	**0.013**	**J *+**	0.016	0.013	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
trans-1,2-Dichloroethene	<0.028		0.064	0.028	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
trans-1,3-Dichloropropene	<0.040		0.064	0.040	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
Trichloroethene	**0.15**		0.032	0.0095	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
Trichlorofluoromethane	<0.028		0.064	0.028	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
Vinyl chloride	<0.030		0.064	0.030	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50
Xylenes, Total	**0.031**	**J**	0.032	0.015	mg/Kg	☼	12/10/24 10:00	12/18/24 14:13	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 126*	*12/10/24 10:00*	*12/18/24 14:13*	*50*
4-Bromofluorobenzene (Surr)	*110*		*72 - 124*	*12/10/24 10:00*	*12/18/24 14:13*	*50*
Dibromofluoromethane (Surr)	*89*		*75 - 120*	*12/10/24 10:00*	*12/18/24 14:13*	*50*
Toluene-d8 (Surr)	*101*		*75 - 120*	*12/10/24 10:00*	*12/18/24 14:13*	*50*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.55**		0.21	0.038	mg/Kg	☼	12/23/24 09:09	12/24/24 02:38	1
Lead	**210**		0.53	0.24	mg/Kg	☼	12/23/24 09:09	12/24/24 02:38	1

Client Sample ID: SSB-19 10-12
Date Collected: 12/10/24 10:05
Date Received: 12/12/24 09:20

Lab Sample ID: 500-261515-2
Matrix: Solid
Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.043		0.065	0.043	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
1,1,1-Trichloroethane	<0.029	*+	0.065	0.029	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
1,1,2,2-Tetrachloroethane	<0.042		0.065	0.042	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
1,1,2-Trichloroethane	<0.047		0.065	0.047	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
1,1-Dichloroethane	<0.024		0.065	0.024	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
1,1-Dichloroethene	<0.031		0.065	0.031	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
1,1-Dichloropropene	<0.022		0.065	0.022	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
1,2,3-Trichlorobenzene	<0.023	*+	0.065	0.023	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
1,2,3-Trichloropropane	<0.097		0.13	0.097	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
1,2,4-Trichlorobenzene	<0.020		0.065	0.020	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
1,2,4-Trimethylbenzene	<0.019		0.065	0.019	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
1,2-Dibromo-3-Chloropropane	<0.26		0.32	0.26	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
1,2-Dibromoethane (EDB)	<0.036		0.065	0.036	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
1,2-Dichlorobenzene	<0.031		0.065	0.031	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
1,2-Dichloroethane	<0.037	*+	0.065	0.037	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
1,2-Dichloropropane	<0.024		0.065	0.024	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
1,3,5-Trimethylbenzene	<0.019		0.065	0.019	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
1,3-Dichlorobenzene	<0.026		0.065	0.026	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
1,3-Dichloropropane	<0.036		0.065	0.036	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
1,4-Dichlorobenzene	<0.029		0.065	0.029	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
2,2-Dichloropropane	<0.031		0.32	0.031	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
2-Chlorotoluene	<0.023		0.065	0.023	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
4-Chlorotoluene	<0.022		0.065	0.022	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
Benzene	<0.0080		0.016	0.0080	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
Bromobenzene	<0.039		0.065	0.039	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
Bromochloromethane	<0.032		0.065	0.032	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
Bromodichloromethane	<0.037		0.065	0.037	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
Bromoform	<0.062		0.065	0.062	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
Bromomethane	<0.12		0.19	0.12	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
Carbon tetrachloride	<0.027		0.065	0.027	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
Chlorobenzene	<0.027	*+	0.065	0.027	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
Chloroethane	<0.030		0.32	0.030	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
Chloroform	<0.060		0.13	0.060	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
Chloromethane	<0.051		0.32	0.051	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
cis-1,2-Dichloroethene	<0.027		0.065	0.027	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
cis-1,3-Dichloropropene	<0.034		0.065	0.034	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
Dibromochloromethane	<0.054		0.065	0.054	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
Dibromomethane	<0.038		0.065	0.038	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
Dichlorodifluoromethane	<0.11		0.19	0.11	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
Ethylbenzene	<0.011	*+	0.016	0.011	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
Hexachlorobutadiene	<0.035		0.065	0.035	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
Isopropyl ether	<0.025		0.065	0.025	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
Isopropylbenzene	<0.019		0.065	0.019	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
Methyl tert-butyl ether	<0.028		0.065	0.028	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
Methylene Chloride	<0.14		0.32	0.14	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
Naphthalene	<0.029		0.065	0.029	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
n-Butylbenzene	<0.021		0.065	0.021	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
N-Propylbenzene	<0.021		0.065	0.021	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
p-Isopropyltoluene	<0.019		0.065	0.019	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50

Client: Sigma Group Inc, The
Project/Site: H-D Juneau- 19125

Job ID: 500-261515-1

Client Sample ID: SSB-19 10-12

Date Collected: 12/10/24 10:05
Date Received: 12/12/24 09:20

Lab Sample ID: 500-261515-2

Matrix: Solid
Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.018		0.065	0.018	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
Styrene	<0.020	*+	0.065	0.020	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
tert-Butylbenzene	<0.017	*+	0.065	0.017	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
Tetrachloroethene	<0.025	*+	0.065	0.025	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
Toluene	<0.014	*+	0.016	0.014	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
trans-1,2-Dichloroethene	<0.029		0.065	0.029	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
trans-1,3-Dichloropropene	<0.041		0.065	0.041	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
Trichloroethene	<0.0096		0.032	0.0096	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
Trichlorofluoromethane	<0.029		0.065	0.029	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
Vinyl chloride	<0.030		0.065	0.030	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50
Xylenes, Total	<0.015		0.032	0.015	mg/Kg	☼	12/10/24 10:05	12/18/24 14:36	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 126*	*12/10/24 10:05*	*12/18/24 14:36*	*50*
4-Bromofluorobenzene (Surr)	*109*		*72 - 124*	*12/10/24 10:05*	*12/18/24 14:36*	*50*
Dibromofluoromethane (Surr)	*90*		*75 - 120*	*12/10/24 10:05*	*12/18/24 14:36*	*50*
Toluene-d8 (Surr)	*99*		*75 - 120*	*12/10/24 10:05*	*12/18/24 14:36*	*50*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.16**	**J**	0.22	0.039	mg/Kg	☼	12/23/24 09:09	12/24/24 02:42	1
Lead	**5.8**		0.54	0.25	mg/Kg	☼	12/23/24 09:09	12/24/24 02:42	1

Client: Sigma Group Inc, The
Project/Site: H-D Juneau- 19125

Job ID: 500-261515-1

Client Sample ID: SSB-20 2-4
Date Collected: 12/10/24 12:00
Date Received: 12/12/24 09:20

Lab Sample ID: 500-261515-3
Matrix: Solid
Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.046		0.069	0.046	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
1,1,1-Trichloroethane	<0.031	*+	0.069	0.031	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
1,1,2,2-Tetrachloroethane	<0.045		0.069	0.045	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
1,1,2-Trichloroethane	<0.051		0.069	0.051	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
1,1-Dichloroethane	<0.025		0.069	0.025	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
1,1-Dichloroethene	<0.033		0.069	0.033	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
1,1-Dichloropropene	<0.023		0.069	0.023	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
1,2,3-Trichlorobenzene	<0.024	*+	0.069	0.024	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
1,2,3-Trichloropropane	<0.10		0.14	0.10	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
1,2,4-Trichlorobenzene	<0.022		0.069	0.022	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
1,2,4-Trimethylbenzene	<0.021		0.069	0.021	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
1,2-Dibromo-3-Chloropropane	<0.28		0.35	0.28	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
1,2-Dibromoethane (EDB)	<0.039		0.069	0.039	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
1,2-Dichlorobenzene	<0.033		0.069	0.033	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
1,2-Dichloroethane	<0.040	*+	0.069	0.040	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
1,2-Dichloropropane	<0.026		0.069	0.026	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
1,3,5-Trimethylbenzene	<0.020		0.069	0.020	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
1,3-Dichlorobenzene	<0.028		0.069	0.028	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
1,3-Dichloropropane	<0.039		0.069	0.039	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
1,4-Dichlorobenzene	<0.032		0.069	0.032	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
2,2-Dichloropropane	<0.034		0.35	0.034	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
2-Chlorotoluene	<0.025		0.069	0.025	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
4-Chlorotoluene	<0.024		0.069	0.024	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
Benzene	<0.0085		0.017	0.0085	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
Bromobenzene	<0.041		0.069	0.041	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
Bromochloromethane	<0.035		0.069	0.035	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
Bromodichloromethane	<0.040		0.069	0.040	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
Bromoform	<0.067		0.069	0.067	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
Bromomethane	<0.12		0.21	0.12	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
Carbon tetrachloride	<0.029		0.069	0.029	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
Chlorobenzene	<0.029	*+	0.069	0.029	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
Chloroethane	<0.033		0.35	0.033	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
Chloroform	<0.064		0.14	0.064	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
Chloromethane	<0.055		0.35	0.055	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
cis-1,2-Dichloroethene	<0.029		0.069	0.029	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
cis-1,3-Dichloropropene	<0.036		0.069	0.036	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
Dibromochloromethane	<0.058		0.069	0.058	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
Dibromomethane	<0.040		0.069	0.040	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
Dichlorodifluoromethane	<0.12		0.21	0.12	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
Ethylbenzene	<0.012	*+	0.017	0.012	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
Hexachlorobutadiene	<0.037		0.069	0.037	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
Isopropyl ether	<0.027		0.069	0.027	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
Isopropylbenzene	<0.020		0.069	0.020	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
Methyl tert-butyl ether	<0.030		0.069	0.030	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
Methylene Chloride	<0.15		0.35	0.15	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
Naphthalene	<0.031		0.069	0.031	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
n-Butylbenzene	<0.023		0.069	0.023	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
N-Propylbenzene	<0.022		0.069	0.022	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
p-Isopropyltoluene	<0.020		0.069	0.020	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50

Client: Sigma Group Inc, The
Project/Site: H-D Juneau- 19125

Job ID: 500-261515-1

Client Sample ID: SSB-20 2-4

Date Collected: 12/10/24 12:00
Date Received: 12/12/24 09:20

Lab Sample ID: 500-261515-3

Matrix: Solid
Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.019		0.069	0.019	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
Styrene	<0.021	*+	0.069	0.021	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
tert-Butylbenzene	<0.018	*+	0.069	0.018	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
Tetrachloroethene	<0.027	*+	0.069	0.027	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
Toluene	<0.015	*+	0.017	0.015	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
trans-1,2-Dichloroethene	<0.031		0.069	0.031	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
trans-1,3-Dichloropropene	<0.044		0.069	0.044	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
Trichloroethene	<0.010		0.035	0.010	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
Trichlorofluoromethane	<0.031		0.069	0.031	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
Vinyl chloride	<0.033		0.069	0.033	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50
Xylenes, Total	<0.016		0.035	0.016	mg/Kg	☼	12/10/24 12:00	12/18/24 14:59	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*	*12/10/24 12:00*	*12/18/24 14:59*	*50*
4-Bromofluorobenzene (Surr)	*111*		*72 - 124*	*12/10/24 12:00*	*12/18/24 14:59*	*50*
Dibromofluoromethane (Surr)	*91*		*75 - 120*	*12/10/24 12:00*	*12/18/24 14:59*	*50*
Toluene-d8 (Surr)	*101*		*75 - 120*	*12/10/24 12:00*	*12/18/24 14:59*	*50*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.29**		0.22	0.039	mg/Kg	☼	12/23/24 09:09	12/24/24 02:47	1
Lead	**25**		0.55	0.25	mg/Kg	☼	12/23/24 09:09	12/24/24 02:47	1

Client: Sigma Group Inc, The
Project/Site: H-D Juneau- 19125

Job ID: 500-261515-1

Client Sample ID: SSB-20 12-14
Date Collected: 12/10/24 12:05
Date Received: 12/12/24 09:20

Lab Sample ID: 500-261515-4
Matrix: Solid
Percent Solids: 79.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.051		0.076	0.051	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
1,1,1-Trichloroethane	<0.034	*+	0.076	0.034	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
1,1,2,2-Tetrachloroethane	<0.049		0.076	0.049	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
1,1,2-Trichloroethane	<0.056		0.076	0.056	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
1,1-Dichloroethane	<0.028		0.076	0.028	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
1,1-Dichloroethene	<0.036		0.076	0.036	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
1,1-Dichloropropene	<0.025		0.076	0.025	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
1,2,3-Trichlorobenzene	<0.027	*+	0.076	0.027	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
1,2,3-Trichloropropane	<0.11		0.15	0.11	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
1,2,4-Trichlorobenzene	<0.024		0.076	0.024	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
1,2,4-Trimethylbenzene	<0.023		0.076	0.023	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
1,2-Dibromo-3-Chloropropane	<0.31		0.38	0.31	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
1,2-Dibromoethane (EDB)	<0.043		0.076	0.043	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
1,2-Dichlorobenzene	<0.036		0.076	0.036	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
1,2-Dichloroethane	<0.044	*+	0.076	0.044	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
1,2-Dichloropropane	<0.028		0.076	0.028	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
1,3,5-Trimethylbenzene	<0.022		0.076	0.022	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
1,3-Dichlorobenzene	<0.031		0.076	0.031	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
1,3-Dichloropropane	<0.043		0.076	0.043	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
1,4-Dichlorobenzene	<0.035		0.076	0.035	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
2,2-Dichloropropane	<0.037		0.38	0.037	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
2-Chlorotoluene	<0.027		0.076	0.027	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
4-Chlorotoluene	<0.026		0.076	0.026	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
Benzene	<0.0094		0.019	0.0094	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
Bromobenzene	<0.045		0.076	0.045	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
Bromochloromethane	<0.038		0.076	0.038	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
Bromodichloromethane	<0.043		0.076	0.043	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
Bromoform	<0.073		0.076	0.073	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
Bromomethane	<0.14		0.23	0.14	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
Carbon tetrachloride	<0.032		0.076	0.032	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
Chlorobenzene	<0.031	*+	0.076	0.031	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
Chloroethane	<0.036		0.38	0.036	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
Chloroform	<0.070		0.15	0.070	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
Chloromethane	<0.060		0.38	0.060	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
cis-1,2-Dichloroethene	<0.032		0.076	0.032	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
cis-1,3-Dichloropropene	<0.039		0.076	0.039	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
Dibromochloromethane	<0.063		0.076	0.063	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
Dibromomethane	<0.044		0.076	0.044	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
Dichlorodifluoromethane	<0.13		0.23	0.13	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
Ethylbenzene	<0.013	*+	0.019	0.013	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
Hexachlorobutadiene	<0.041		0.076	0.041	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
Isopropyl ether	<0.029		0.076	0.029	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
Isopropylbenzene	<0.022		0.076	0.022	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
Methyl tert-butyl ether	<0.033		0.076	0.033	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
Methylene Chloride	<0.16		0.38	0.16	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
Naphthalene	<0.034		0.076	0.034	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
n-Butylbenzene	<0.025		0.076	0.025	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
N-Propylbenzene	<0.024		0.076	0.024	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
p-Isopropyltoluene	<0.022		0.076	0.022	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50

Client: Sigma Group Inc, The
Project/Site: H-D Juneau- 19125

Job ID: 500-261515-1

Client Sample ID: SSB-20 12-14

Date Collected: 12/10/24 12:05
Date Received: 12/12/24 09:20

Lab Sample ID: 500-261515-4

Matrix: Solid
Percent Solids: 79.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.021		0.076	0.021	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
Styrene	<0.023	*+	0.076	0.023	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
tert-Butylbenzene	<0.020	*+	0.076	0.020	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
Tetrachloroethene	<0.030	*+	0.076	0.030	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
Toluene	<0.016	*+	0.019	0.016	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
trans-1,2-Dichloroethene	<0.033		0.076	0.033	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
trans-1,3-Dichloropropene	<0.048		0.076	0.048	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
Trichloroethene	<0.011		0.038	0.011	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
Trichlorofluoromethane	<0.034		0.076	0.034	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
Vinyl chloride	<0.036		0.076	0.036	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50
Xylenes, Total	<0.018		0.038	0.018	mg/Kg	☼	12/10/24 12:05	12/18/24 15:22	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*	*12/10/24 12:05*	*12/18/24 15:22*	*50*
4-Bromofluorobenzene (Surr)	*109*		*72 - 124*	*12/10/24 12:05*	*12/18/24 15:22*	*50*
Dibromofluoromethane (Surr)	*90*		*75 - 120*	*12/10/24 12:05*	*12/18/24 15:22*	*50*
Toluene-d8 (Surr)	*102*		*75 - 120*	*12/10/24 12:05*	*12/18/24 15:22*	*50*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.26**		0.22	0.039	mg/Kg	☼	12/23/24 09:09	12/24/24 03:00	1
Lead	**9.4**		0.55	0.25	mg/Kg	☼	12/23/24 09:09	12/24/24 03:00	1

Client: Sigma Group Inc, The
Project/Site: H-D Juneau- 19125

Job ID: 500-261515-1

Client Sample ID: SSB-21 1-3
Date Collected: 12/10/24 13:00
Date Received: 12/12/24 09:20

Lab Sample ID: 500-261515-5
Matrix: Solid
Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.045		0.068	0.045	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
1,1,1-Trichloroethane	<0.031	*+	0.068	0.031	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
1,1,2,2-Tetrachloroethane	<0.044		0.068	0.044	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
1,1,2-Trichloroethane	<0.050		0.068	0.050	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
1,1-Dichloroethane	<0.025		0.068	0.025	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
1,1-Dichloroethene	<0.033		0.068	0.033	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
1,1-Dichloropropene	<0.023		0.068	0.023	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
1,2,3-Trichlorobenzene	<0.024	*+	0.068	0.024	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
1,2,3-Trichloropropane	<0.10		0.14	0.10	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
1,2,4-Trichlorobenzene	<0.021		0.068	0.021	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
1,2,4-Trimethylbenzene	<0.020		0.068	0.020	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
1,2-Dibromo-3-Chloropropane	<0.28		0.34	0.28	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
1,2-Dibromoethane (EDB)	<0.038		0.068	0.038	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
1,2-Dichlorobenzene	<0.032		0.068	0.032	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
1,2-Dichloroethane	<0.039	*+	0.068	0.039	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
1,2-Dichloropropane	<0.025		0.068	0.025	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
1,3,5-Trimethylbenzene	<0.020		0.068	0.020	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
1,3-Dichlorobenzene	<0.028		0.068	0.028	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
1,3-Dichloropropane	<0.038		0.068	0.038	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
1,4-Dichlorobenzene	<0.031		0.068	0.031	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
2,2-Dichloropropane	<0.033		0.34	0.033	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
2-Chlorotoluene	<0.024		0.068	0.024	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
4-Chlorotoluene	<0.023		0.068	0.023	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
Benzene	<0.0083		0.017	0.0083	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
Bromobenzene	<0.040		0.068	0.040	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
Bromochloromethane	<0.034		0.068	0.034	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
Bromodichloromethane	<0.039		0.068	0.039	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
Bromoform	<0.065		0.068	0.065	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
Bromomethane	<0.12		0.20	0.12	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
Carbon tetrachloride	<0.028		0.068	0.028	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
Chlorobenzene	<0.028	*+	0.068	0.028	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
Chloroethane	<0.032		0.34	0.032	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
Chloroform	<0.062		0.14	0.062	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
Chloromethane	<0.053		0.34	0.053	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
cis-1,2-Dichloroethene	<0.028		0.068	0.028	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
cis-1,3-Dichloropropene	<0.035		0.068	0.035	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
Dibromochloromethane	<0.056		0.068	0.056	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
Dibromomethane	<0.039		0.068	0.039	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
Dichlorodifluoromethane	<0.12		0.20	0.12	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
Ethylbenzene	<0.012	*+	0.017	0.012	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
Hexachlorobutadiene	<0.037		0.068	0.037	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
Isopropyl ether	<0.026		0.068	0.026	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
Isopropylbenzene	<0.020		0.068	0.020	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
Methyl tert-butyl ether	<0.029		0.068	0.029	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
Methylene Chloride	<0.15		0.34	0.15	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
Naphthalene	<0.030		0.068	0.030	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
n-Butylbenzene	<0.022		0.068	0.022	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
N-Propylbenzene	<0.022		0.068	0.022	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
p-Isopropyltoluene	<0.020		0.068	0.020	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50

Client: Sigma Group Inc, The
Project/Site: H-D Juneau- 19125

Job ID: 500-261515-1

Client Sample ID: SSB-21 1-3
Date Collected: 12/10/24 13:00
Date Received: 12/12/24 09:20

Lab Sample ID: 500-261515-5
Matrix: Solid
Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.018		0.068	0.018	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
Styrene	<0.021	*+	0.068	0.021	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
tert-Butylbenzene	<0.018	*+	0.068	0.018	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
Tetrachloroethene	<0.026	*+	0.068	0.026	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
Toluene	<0.014	*+	0.017	0.014	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
trans-1,2-Dichloroethene	<0.030		0.068	0.030	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
trans-1,3-Dichloropropene	<0.043		0.068	0.043	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
Trichloroethene	<0.010		0.034	0.010	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
Trichlorofluoromethane	<0.030		0.068	0.030	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
Vinyl chloride	<0.032		0.068	0.032	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50
Xylenes, Total	<0.016		0.034	0.016	mg/Kg	☼	12/10/24 13:00	12/18/24 15:46	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*	*12/10/24 13:00*	*12/18/24 15:46*	*50*
4-Bromofluorobenzene (Surr)	*111*		*72 - 124*	*12/10/24 13:00*	*12/18/24 15:46*	*50*
Dibromofluoromethane (Surr)	*90*		*75 - 120*	*12/10/24 13:00*	*12/18/24 15:46*	*50*
Toluene-d8 (Surr)	*100*		*75 - 120*	*12/10/24 13:00*	*12/18/24 15:46*	*50*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.17**	**J**	0.21	0.038	mg/Kg	☼	12/23/24 09:09	12/24/24 03:05	1
Lead	**3.4**		0.53	0.24	mg/Kg	☼	12/23/24 09:09	12/24/24 03:05	1

Client: Sigma Group Inc, The
Project/Site: H-D Juneau- 19125

Job ID: 500-261515-1

Client Sample ID: SSB-21 10-12
Date Collected: 12/10/24 13:05
Date Received: 12/12/24 09:20

Lab Sample ID: 500-261515-6
Matrix: Solid
Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.043		0.065	0.043	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
1,1,1-Trichloroethane	<0.029	*+	0.065	0.029	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
1,1,2,2-Tetrachloroethane	<0.042		0.065	0.042	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
1,1,2-Trichloroethane	<0.048		0.065	0.048	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
1,1-Dichloroethane	<0.024		0.065	0.024	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
1,1-Dichloroethene	<0.031		0.065	0.031	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
1,1-Dichloropropene	<0.022		0.065	0.022	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
1,2,3-Trichlorobenzene	<0.023	*+	0.065	0.023	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
1,2,3-Trichloropropane	<0.097		0.13	0.097	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
1,2,4-Trichlorobenzene	<0.020		0.065	0.020	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
1,2,4-Trimethylbenzene	<0.020		0.065	0.020	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
1,2-Dibromo-3-Chloropropane	<0.26		0.33	0.26	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
1,2-Dibromoethane (EDB)	<0.037		0.065	0.037	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
1,2-Dichlorobenzene	<0.031		0.065	0.031	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
1,2-Dichloroethane	<0.038	*+	0.065	0.038	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
1,2-Dichloropropane	<0.024		0.065	0.024	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
1,3,5-Trimethylbenzene	<0.019		0.065	0.019	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
1,3-Dichlorobenzene	<0.026		0.065	0.026	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
1,3-Dichloropropane	<0.036		0.065	0.036	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
1,4-Dichlorobenzene	<0.030		0.065	0.030	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
2,2-Dichloropropane	<0.032		0.33	0.032	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
2-Chlorotoluene	<0.023		0.065	0.023	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
4-Chlorotoluene	<0.022		0.065	0.022	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
Benzene	<0.0080		0.016	0.0080	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
Bromobenzene	<0.039		0.065	0.039	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
Bromochloromethane	<0.033		0.065	0.033	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
Bromodichloromethane	<0.037		0.065	0.037	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
Bromoform	<0.063		0.065	0.063	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
Bromomethane	<0.12		0.20	0.12	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
Carbon tetrachloride	<0.027		0.065	0.027	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
Chlorobenzene	<0.027	*+	0.065	0.027	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
Chloroethane	<0.031		0.33	0.031	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
Chloroform	<0.060		0.13	0.060	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
Chloromethane	<0.051		0.33	0.051	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
cis-1,2-Dichloroethene	<0.027		0.065	0.027	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
cis-1,3-Dichloropropene	<0.034		0.065	0.034	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
Dibromochloromethane	<0.054		0.065	0.054	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
Dibromomethane	<0.038		0.065	0.038	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
Dichlorodifluoromethane	<0.11		0.20	0.11	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
Ethylbenzene	<0.011	*+	0.016	0.011	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
Hexachlorobutadiene	<0.035		0.065	0.035	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
Isopropyl ether	<0.025		0.065	0.025	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
Isopropylbenzene	<0.019		0.065	0.019	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
Methyl tert-butyl ether	<0.028		0.065	0.028	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
Methylene Chloride	<0.14		0.33	0.14	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
Naphthalene	<0.029		0.065	0.029	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
n-Butylbenzene	<0.021		0.065	0.021	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
N-Propylbenzene	<0.021		0.065	0.021	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
p-Isopropyltoluene	<0.019		0.065	0.019	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50

Client: Sigma Group Inc, The
Project/Site: H-D Juneau- 19125

Job ID: 500-261515-1

Client Sample ID: SSB-21 10-12

Date Collected: 12/10/24 13:05
Date Received: 12/12/24 09:20

Lab Sample ID: 500-261515-6

Matrix: Solid
Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.018		0.065	0.018	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
Styrene	<0.020	*+	0.065	0.020	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
tert-Butylbenzene	<0.017	*+	0.065	0.017	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
Tetrachloroethene	<0.025	*+	0.065	0.025	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
Toluene	<0.014	*+	0.016	0.014	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
trans-1,2-Dichloroethene	<0.029		0.065	0.029	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
trans-1,3-Dichloropropene	<0.041		0.065	0.041	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
Trichloroethene	<0.0097		0.033	0.0097	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
Trichlorofluoromethane	<0.029		0.065	0.029	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
Vinyl chloride	<0.031		0.065	0.031	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50
Xylenes, Total	<0.015		0.033	0.015	mg/Kg	☼	12/10/24 13:05	12/18/24 16:09	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*	*12/10/24 13:05*	*12/18/24 16:09*	*50*
4-Bromofluorobenzene (Surr)	*111*		*72 - 124*	*12/10/24 13:05*	*12/18/24 16:09*	*50*
Dibromofluoromethane (Surr)	*88*		*75 - 120*	*12/10/24 13:05*	*12/18/24 16:09*	*50*
Toluene-d8 (Surr)	*101*		*75 - 120*	*12/10/24 13:05*	*12/18/24 16:09*	*50*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.16**	**J**	0.20	0.035	mg/Kg	☼	12/23/24 09:09	12/24/24 03:09	1
Lead	**6.4**		0.49	0.23	mg/Kg	☼	12/23/24 09:09	12/24/24 03:09	1

Client Sample ID: Dup
Date Collected: 12/10/24 00:00
Date Received: 12/12/24 09:20

Lab Sample ID: 500-261515-7
Matrix: Solid
Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.043		0.065	0.043	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
1,1,1-Trichloroethane	<0.029	*+	0.065	0.029	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
1,1,2,2-Tetrachloroethane	<0.042		0.065	0.042	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
1,1,2-Trichloroethane	<0.047		0.065	0.047	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
1,1-Dichloroethane	<0.023		0.065	0.023	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
1,1-Dichloroethene	<0.031		0.065	0.031	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
1,1-Dichloropropene	<0.022		0.065	0.022	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
1,2,3-Trichlorobenzene	<0.023	F1 *+	0.065	0.023	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
1,2,3-Trichloropropane	<0.097		0.13	0.097	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
1,2,4-Trichlorobenzene	<0.020		0.065	0.020	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
1,2,4-Trimethylbenzene	<0.019		0.065	0.019	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
1,2-Dibromo-3-Chloropropane	<0.26		0.32	0.26	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
1,2-Dibromoethane (EDB)	<0.036		0.065	0.036	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
1,2-Dichlorobenzene	<0.031		0.065	0.031	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
1,2-Dichloroethane	<0.037	*+	0.065	0.037	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
1,2-Dichloropropane	<0.024		0.065	0.024	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
1,3,5-Trimethylbenzene	<0.019		0.065	0.019	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
1,3-Dichlorobenzene	<0.026		0.065	0.026	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
1,3-Dichloropropane	<0.036		0.065	0.036	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
1,4-Dichlorobenzene	<0.029		0.065	0.029	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
2,2-Dichloropropane	<0.031		0.32	0.031	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
2-Chlorotoluene	<0.023		0.065	0.023	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
4-Chlorotoluene	<0.022		0.065	0.022	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
Benzene	<0.0079		0.016	0.0079	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
Bromobenzene	<0.038		0.065	0.038	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
Bromochloromethane	<0.032		0.065	0.032	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
Bromodichloromethane	<0.037		0.065	0.037	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
Bromoform	<0.062		0.065	0.062	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
Bromomethane	<0.12		0.19	0.12	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
Carbon tetrachloride	<0.027		0.065	0.027	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
Chlorobenzene	<0.027	*+	0.065	0.027	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
Chloroethane	<0.030		0.32	0.030	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
Chloroform	<0.059		0.13	0.059	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
Chloromethane	<0.051		0.32	0.051	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
cis-1,2-Dichloroethene	<0.027		0.065	0.027	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
cis-1,3-Dichloropropene	<0.033		0.065	0.033	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
Dibromochloromethane	<0.053		0.065	0.053	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
Dibromomethane	<0.037		0.065	0.037	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
Dichlorodifluoromethane	<0.11		0.19	0.11	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
Ethylbenzene	<0.011	*+	0.016	0.011	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
Hexachlorobutadiene	<0.035		0.065	0.035	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
Isopropyl ether	<0.025		0.065	0.025	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
Isopropylbenzene	<0.019		0.065	0.019	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
Methyl tert-butyl ether	<0.028		0.065	0.028	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
Methylene Chloride	<0.14		0.32	0.14	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
Naphthalene	<0.029		0.065	0.029	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
n-Butylbenzene	<0.021		0.065	0.021	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
N-Propylbenzene	<0.021		0.065	0.021	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
p-Isopropyltoluene	<0.019		0.065	0.019	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50

Client: Sigma Group Inc, The
Project/Site: H-D Juneau- 19125

Job ID: 500-261515-1

Client Sample ID: Dup
Date Collected: 12/10/24 00:00
Date Received: 12/12/24 09:20

Lab Sample ID: 500-261515-7
Matrix: Solid
Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.018		0.065	0.018	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
Styrene	<0.020	*+	0.065	0.020	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
tert-Butylbenzene	<0.017	*+	0.065	0.017	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
Tetrachloroethene	<0.025	*+	0.065	0.025	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
Toluene	<0.014	*+	0.016	0.014	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
trans-1,2-Dichloroethene	<0.028		0.065	0.028	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
trans-1,3-Dichloropropene	<0.041		0.065	0.041	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
Trichloroethene	<0.0096		0.032	0.0096	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
Trichlorofluoromethane	<0.029		0.065	0.029	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
Vinyl chloride	<0.030		0.065	0.030	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50
Xylenes, Total	<0.015		0.032	0.015	mg/Kg	☼	12/10/24 00:00	12/18/24 16:33	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 126*	*12/10/24 00:00*	*12/18/24 16:33*	*50*
4-Bromofluorobenzene (Surr)	*109*		*72 - 124*	*12/10/24 00:00*	*12/18/24 16:33*	*50*
Dibromofluoromethane (Surr)	*88*		*75 - 120*	*12/10/24 00:00*	*12/18/24 16:33*	*50*
Toluene-d8 (Surr)	*101*		*75 - 120*	*12/10/24 00:00*	*12/18/24 16:33*	*50*

Client: Sigma Group Inc, The
Project/Site: H-D Juneau- 19125

Job ID: 500-261515-1

Client Sample ID: Trip
Date Collected: 12/10/24 00:00
Date Received: 12/12/24 09:20

Lab Sample ID: 500-261515-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.033		0.050	0.033	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
1,1,1-Trichloroethane	<0.023	*+	0.050	0.023	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
1,1,2,2-Tetrachloroethane	<0.032		0.050	0.032	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
1,1,2-Trichloroethane	<0.037		0.050	0.037	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
1,1-Dichloroethane	<0.018		0.050	0.018	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
1,1-Dichloroethene	<0.024		0.050	0.024	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
1,1-Dichloropropene	<0.017		0.050	0.017	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
1,2,3-Trichlorobenzene	<0.018	*+	0.050	0.018	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
1,2,3-Trichloropropane	<0.075		0.10	0.075	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
1,2,4-Trichlorobenzene	<0.015		0.050	0.015	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
1,2,4-Trimethylbenzene	<0.015		0.050	0.015	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
1,2-Dibromo-3-Chloropropane	<0.20		0.25	0.20	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
1,2-Dibromoethane (EDB)	<0.028		0.050	0.028	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
1,2-Dichlorobenzene	<0.024		0.050	0.024	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
1,2-Dichloroethane	<0.029	*+	0.050	0.029	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
1,2-Dichloropropane	<0.019		0.050	0.019	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
1,3,5-Trimethylbenzene	<0.014		0.050	0.014	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
1,3-Dichlorobenzene	<0.020		0.050	0.020	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
1,3-Dichloropropane	<0.028		0.050	0.028	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
1,4-Dichlorobenzene	<0.023		0.050	0.023	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
2,2-Dichloropropane	<0.024		0.25	0.024	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
2-Chlorotoluene	<0.018		0.050	0.018	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
4-Chlorotoluene	<0.017		0.050	0.017	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
Benzene	<0.0061		0.013	0.0061	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
Bromobenzene	<0.030		0.050	0.030	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
Bromochloromethane	<0.025		0.050	0.025	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
Bromodichloromethane	<0.028		0.050	0.028	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
Bromoform	<0.048		0.050	0.048	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
Bromomethane	<0.090		0.15	0.090	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
Carbon tetrachloride	<0.021		0.050	0.021	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
Chlorobenzene	<0.021	*+	0.050	0.021	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
Chloroethane	<0.024		0.25	0.024	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
Chloroform	<0.046		0.10	0.046	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
Chloromethane	<0.039		0.25	0.039	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
cis-1,2-Dichloroethene	<0.021		0.050	0.021	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
cis-1,3-Dichloropropene	<0.026		0.050	0.026	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
Dibromochloromethane	<0.041		0.050	0.041	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
Dibromomethane	<0.029		0.050	0.029	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
Dichlorodifluoromethane	<0.088		0.15	0.088	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
Ethylbenzene	<0.0086	*+	0.013	0.0086	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
Hexachlorobutadiene	<0.027		0.050	0.027	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
Isopropyl ether	<0.019		0.050	0.019	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
Isopropylbenzene	<0.015		0.050	0.015	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
Methyl tert-butyl ether	<0.022		0.050	0.022	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
Methylene Chloride	<0.11		0.25	0.11	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
Naphthalene	<0.022		0.050	0.022	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
n-Butylbenzene	<0.016		0.050	0.016	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
N-Propylbenzene	<0.016		0.050	0.016	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
p-Isopropyltoluene	<0.015		0.050	0.015	mg/Kg		12/10/24 00:00	12/18/24 16:56	50

Client: Sigma Group Inc, The
Project/Site: H-D Juneau- 19125

Job ID: 500-261515-1

Client Sample ID: Trip
Date Collected: 12/10/24 00:00
Date Received: 12/12/24 09:20

Lab Sample ID: 500-261515-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.014		0.050	0.014	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
Styrene	<0.015	*+	0.050	0.015	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
tert-Butylbenzene	<0.013	*+	0.050	0.013	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
Tetrachloroethene	<0.019	*+	0.050	0.019	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
Toluene	<0.011	*+	0.013	0.011	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
trans-1,2-Dichloroethene	<0.022		0.050	0.022	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
trans-1,3-Dichloropropene	<0.032		0.050	0.032	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
Trichloroethene	<0.0074		0.025	0.0074	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
Trichlorofluoromethane	<0.022		0.050	0.022	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
Vinyl chloride	<0.023		0.050	0.023	mg/Kg		12/10/24 00:00	12/18/24 16:56	50
Xylenes, Total	<0.012		0.025	0.012	mg/Kg		12/10/24 00:00	12/18/24 16:56	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 126*	*12/10/24 00:00*	*12/18/24 16:56*	*50*
4-Bromofluorobenzene (Surr)	*109*		*72 - 124*	*12/10/24 00:00*	*12/18/24 16:56*	*50*
Dibromofluoromethane (Surr)	*89*		*75 - 120*	*12/10/24 00:00*	*12/18/24 16:56*	*50*
Toluene-d8 (Surr)	*101*		*75 - 120*	*12/10/24 00:00*	*12/18/24 16:56*	*50*

Definitions/Glossary

Client: Sigma Group Inc, The
Project/Site: H-D Juneau- 19125

Job ID: 500-261515-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

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

Glossary

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

GC/MS VOA

Prep Batch: 799452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261515-1	SSB-19 2-4	Total/NA	Solid	5035	
500-261515-2	SSB-19 10-12	Total/NA	Solid	5035	
500-261515-3	SSB-20 2-4	Total/NA	Solid	5035	
500-261515-4	SSB-20 12-14	Total/NA	Solid	5035	
500-261515-5	SSB-21 1-3	Total/NA	Solid	5035	
500-261515-6	SSB-21 10-12	Total/NA	Solid	5035	
500-261515-7	Dup	Total/NA	Solid	5035	
500-261515-8	Trip	Total/NA	Solid	5035	
LB3 500-799452/20-A	Method Blank	Total/NA	Solid	5035	
LCS 500-799452/21-A	Lab Control Sample	Total/NA	Solid	5035	
500-261515-7 MS	Dup	Total/NA	Solid	5035	
500-261515-7 MSD	Dup	Total/NA	Solid	5035	

Analysis Batch: 799667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 500-799452/20-A	Method Blank	Total/NA	Solid	8260D	799452
MB 500-799667/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-799452/21-A	Lab Control Sample	Total/NA	Solid	8260D	799452
LCS 500-799667/4	Lab Control Sample	Total/NA	Solid	8260D	

Analysis Batch: 799842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261515-1	SSB-19 2-4	Total/NA	Solid	8260D	799452
500-261515-2	SSB-19 10-12	Total/NA	Solid	8260D	799452
500-261515-3	SSB-20 2-4	Total/NA	Solid	8260D	799452
500-261515-4	SSB-20 12-14	Total/NA	Solid	8260D	799452
500-261515-5	SSB-21 1-3	Total/NA	Solid	8260D	799452
500-261515-6	SSB-21 10-12	Total/NA	Solid	8260D	799452
500-261515-7	Dup	Total/NA	Solid	8260D	799452
500-261515-8	Trip	Total/NA	Solid	8260D	799452
MB 500-799842/8	Method Blank	Total/NA	Solid	8260D	
LCS 500-799842/5	Lab Control Sample	Total/NA	Solid	8260D	
500-261515-7 MS	Dup	Total/NA	Solid	8260D	799452
500-261515-7 MSD	Dup	Total/NA	Solid	8260D	799452

Metals

Prep Batch: 800420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261515-1	SSB-19 2-4	Total/NA	Solid	3050B	
500-261515-2	SSB-19 10-12	Total/NA	Solid	3050B	
500-261515-3	SSB-20 2-4	Total/NA	Solid	3050B	
500-261515-4	SSB-20 12-14	Total/NA	Solid	3050B	
500-261515-5	SSB-21 1-3	Total/NA	Solid	3050B	
500-261515-6	SSB-21 10-12	Total/NA	Solid	3050B	
MB 500-800420/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-800420/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 800694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261515-1	SSB-19 2-4	Total/NA	Solid	6010D	800420

Metals (Continued)

Analysis Batch: 800694 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261515-2	SSB-19 10-12	Total/NA	Solid	6010D	800420
500-261515-3	SSB-20 2-4	Total/NA	Solid	6010D	800420
500-261515-4	SSB-20 12-14	Total/NA	Solid	6010D	800420
500-261515-5	SSB-21 1-3	Total/NA	Solid	6010D	800420
500-261515-6	SSB-21 10-12	Total/NA	Solid	6010D	800420
MB 500-800420/1-A	Method Blank	Total/NA	Solid	6010D	800420
LCS 500-800420/2-A	Lab Control Sample	Total/NA	Solid	6010D	800420

General Chemistry

Analysis Batch: 799571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261515-1	SSB-19 2-4	Total/NA	Solid	Moisture	
500-261515-2	SSB-19 10-12	Total/NA	Solid	Moisture	

Analysis Batch: 799583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261515-3	SSB-20 2-4	Total/NA	Solid	Moisture	
500-261515-4	SSB-20 12-14	Total/NA	Solid	Moisture	
500-261515-5	SSB-21 1-3	Total/NA	Solid	Moisture	
500-261515-6	SSB-21 10-12	Total/NA	Solid	Moisture	
500-261515-7	Dup	Total/NA	Solid	Moisture	
500-261515-3 DU	SSB-20 2-4	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Sigma Group Inc, The
Project/Site: H-D Juneau- 19125

Job ID: 500-261515-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-261515-1	SSB-19 2-4	89	110	89	101
500-261515-2	SSB-19 10-12	89	109	90	99
500-261515-3	SSB-20 2-4	92	111	91	101
500-261515-4	SSB-20 12-14	91	109	90	102
500-261515-5	SSB-21 1-3	91	111	90	100
500-261515-6	SSB-21 10-12	91	111	88	101
500-261515-7	Dup	90	109	88	101
500-261515-7 MS	Dup	92	114	93	100
500-261515-7 MSD	Dup	91	115	91	101
500-261515-8	Trip	90	109	89	101
LB3 500-799452/20-A	Method Blank	123	100	96	112
LCS 500-799452/21-A	Lab Control Sample	116	91	97	113
LCS 500-799667/4	Lab Control Sample	113	89	100	113
LCS 500-799842/5	Lab Control Sample	86	114	91	104
MB 500-799667/7	Method Blank	121	104	97	113
MB 500-799842/8	Method Blank	89	110	91	101

Surrogate Legend

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

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

Lab Sample ID: LB3 500-799452/20-A
Matrix: Solid
Analysis Batch: 799667

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 799452

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.033		0.050	0.033	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
1,1,1-Trichloroethane	<0.023		0.050	0.023	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
1,1,2,2-Tetrachloroethane	<0.032		0.050	0.032	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
1,1,2-Trichloroethane	<0.037		0.050	0.037	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
1,1-Dichloroethane	<0.018		0.050	0.018	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
1,1-Dichloroethene	<0.024		0.050	0.024	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
1,1-Dichloropropene	<0.017		0.050	0.017	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
1,2,3-Trichlorobenzene	<0.018		0.050	0.018	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
1,2,3-Trichloropropane	<0.075		0.10	0.075	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
1,2,4-Trichlorobenzene	<0.015		0.050	0.015	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
1,2,4-Trimethylbenzene	<0.015		0.050	0.015	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
1,2-Dibromo-3-Chloropropane	<0.20		0.25	0.20	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
1,2-Dibromoethane (EDB)	<0.028		0.050	0.028	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
1,2-Dichlorobenzene	<0.024		0.050	0.024	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
1,2-Dichloroethane	<0.029		0.050	0.029	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
1,2-Dichloropropane	<0.019		0.050	0.019	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
1,3,5-Trimethylbenzene	<0.014		0.050	0.014	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
1,3-Dichlorobenzene	<0.020		0.050	0.020	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
1,3-Dichloropropane	<0.028		0.050	0.028	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
1,4-Dichlorobenzene	<0.023		0.050	0.023	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
2,2-Dichloropropane	<0.024		0.25	0.024	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
2-Chlorotoluene	<0.018		0.050	0.018	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
4-Chlorotoluene	<0.017		0.050	0.017	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
Benzene	<0.0061		0.013	0.0061	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
Bromobenzene	<0.030		0.050	0.030	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
Bromochloromethane	<0.025		0.050	0.025	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
Bromodichloromethane	<0.028		0.050	0.028	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
Bromoform	<0.048		0.050	0.048	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
Bromomethane	<0.090		0.15	0.090	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
Carbon tetrachloride	<0.021		0.050	0.021	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
Chlorobenzene	<0.021		0.050	0.021	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
Chloroethane	<0.024		0.25	0.024	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
Chloroform	<0.046		0.10	0.046	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
Chloromethane	<0.039		0.25	0.039	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
cis-1,2-Dichloroethene	<0.021		0.050	0.021	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
cis-1,3-Dichloropropene	<0.026		0.050	0.026	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
Dibromochloromethane	<0.041		0.050	0.041	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
Dibromomethane	<0.029		0.050	0.029	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
Dichlorodifluoromethane	<0.088		0.15	0.088	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
Ethylbenzene	<0.0086		0.013	0.0086	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
Hexachlorobutadiene	<0.027		0.050	0.027	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
Isopropyl ether	<0.019		0.050	0.019	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
Isopropylbenzene	<0.015		0.050	0.015	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
Methyl tert-butyl ether	<0.022		0.050	0.022	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
Methylene Chloride	0.294		0.25	0.11	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
Naphthalene	<0.022		0.050	0.022	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
n-Butylbenzene	<0.016		0.050	0.016	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
N-Propylbenzene	<0.016		0.050	0.016	mg/Kg		12/16/24 02:45	12/17/24 12:24	50

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

Lab Sample ID: LB3 500-799452/20-A
Matrix: Solid
Analysis Batch: 799667

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 799452

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.015		0.050	0.015	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
sec-Butylbenzene	<0.014		0.050	0.014	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
Styrene	<0.015		0.050	0.015	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
tert-Butylbenzene	<0.013		0.050	0.013	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
Tetrachloroethene	<0.019		0.050	0.019	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
Toluene	<0.011		0.013	0.011	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
trans-1,2-Dichloroethene	<0.022		0.050	0.022	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
trans-1,3-Dichloropropene	<0.032		0.050	0.032	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
Trichloroethene	<0.0074		0.025	0.0074	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
Trichlorofluoromethane	<0.022		0.050	0.022	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
Vinyl chloride	<0.023		0.050	0.023	mg/Kg		12/16/24 02:45	12/17/24 12:24	50
Xylenes, Total	<0.012		0.025	0.012	mg/Kg		12/16/24 02:45	12/17/24 12:24	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*123*		*75 - 126*	*12/16/24 02:45*	*12/17/24 12:24*	*50*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*	*12/16/24 02:45*	*12/17/24 12:24*	*50*
Dibromofluoromethane (Surr)	*96*		*75 - 120*	*12/16/24 02:45*	*12/17/24 12:24*	*50*
Toluene-d8 (Surr)	*112*		*75 - 120*	*12/16/24 02:45*	*12/17/24 12:24*	*50*

Lab Sample ID: LCS 500-799452/21-A
Matrix: Solid
Analysis Batch: 799667

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 799452

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	2.50	3.11		mg/Kg		125	70 - 125
1,1,1-Trichloroethane	2.50	3.22	*+	mg/Kg		129	70 - 125
1,1,2,2-Tetrachloroethane	2.50	2.20		mg/Kg		88	62 - 140
1,1,2-Trichloroethane	2.50	2.81		mg/Kg		112	71 - 130
1,1-Dichloroethane	2.50	2.87		mg/Kg		115	70 - 125
1,1-Dichloroethene	2.50	2.69		mg/Kg		108	67 - 122
1,1-Dichloropropene	2.50	3.02		mg/Kg		121	70 - 121
1,2,3-Trichlorobenzene	2.50	2.98		mg/Kg		119	51 - 145
1,2,3-Trichloropropane	2.50	2.36		mg/Kg		94	50 - 133
1,2,4-Trichlorobenzene	2.50	2.89		mg/Kg		116	57 - 137
1,2,4-Trimethylbenzene	2.50	2.97		mg/Kg		119	70 - 123
1,2-Dibromo-3-Chloropropane	2.50	2.13		mg/Kg		85	56 - 123
1,2-Dibromoethane (EDB)	2.50	2.75		mg/Kg		110	70 - 125
1,2-Dichlorobenzene	2.50	3.01		mg/Kg		121	70 - 125
1,2-Dichloroethane	2.50	3.38	*+	mg/Kg		135	68 - 127
1,2-Dichloropropane	2.50	2.75		mg/Kg		110	67 - 130
1,3,5-Trimethylbenzene	2.50	3.02		mg/Kg		121	70 - 123
1,3-Dichlorobenzene	2.50	2.91		mg/Kg		116	70 - 125
1,3-Dichloropropane	2.50	2.99		mg/Kg		119	62 - 136
1,4-Dichlorobenzene	2.50	2.87		mg/Kg		115	70 - 120
2,2-Dichloropropane	2.50	3.21		mg/Kg		129	58 - 139
2-Chlorotoluene	2.50	2.88		mg/Kg		115	70 - 125
4-Chlorotoluene	2.50	2.91		mg/Kg		116	68 - 124
Benzene	2.50	2.76		mg/Kg		110	70 - 120

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

Lab Sample ID: LCS 500-799452/21-A
Matrix: Solid
Analysis Batch: 799667

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 799452

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	2.50	2.75		mg/Kg		110	70 - 122
Bromochloromethane	2.50	2.67		mg/Kg		107	65 - 122
Bromodichloromethane	2.50	2.92		mg/Kg		117	69 - 120
Bromoform	2.50	2.50		mg/Kg		100	56 - 132
Bromomethane	2.50	2.76		mg/Kg		111	40 - 152
Carbon tetrachloride	2.50	3.18		mg/Kg		127	59 - 133
Chlorobenzene	2.50	3.14	*+	mg/Kg		126	70 - 120
Chloroethane	2.50	2.82		mg/Kg		113	48 - 136
Chloroform	2.50	2.64		mg/Kg		106	70 - 120
Chloromethane	2.50	1.91		mg/Kg		76	56 - 152
cis-1,2-Dichloroethene	2.50	2.74		mg/Kg		110	70 - 125
cis-1,3-Dichloropropene	2.50	3.16		mg/Kg		126	64 - 127
Dibromochloromethane	2.50	2.70		mg/Kg		108	68 - 125
Dibromomethane	2.50	2.83		mg/Kg		113	70 - 120
Dichlorodifluoromethane	2.50	1.28		mg/Kg		51	40 - 159
Ethylbenzene	2.50	3.13	*+	mg/Kg		125	70 - 123
Hexachlorobutadiene	2.50	3.62		mg/Kg		145	51 - 150
Isopropylbenzene	2.50	2.72		mg/Kg		109	70 - 126
Methyl tert-butyl ether	2.50	2.68		mg/Kg		107	55 - 123
Methylene Chloride	2.50	2.77		mg/Kg		111	69 - 125
Naphthalene	2.50	2.20		mg/Kg		88	53 - 144
n-Butylbenzene	2.50	2.97		mg/Kg		119	68 - 125
N-Propylbenzene	2.50	2.78		mg/Kg		111	69 - 127
p-Isopropyltoluene	2.50	3.06		mg/Kg		122	70 - 125
sec-Butylbenzene	2.50	3.08		mg/Kg		123	70 - 123
Styrene	2.50	3.11	*+	mg/Kg		124	70 - 120
tert-Butylbenzene	2.50	3.05	*+	mg/Kg		122	70 - 121
Tetrachloroethene	2.50	3.46	*+	mg/Kg		138	70 - 128
Toluene	2.50	3.21	*+	mg/Kg		128	70 - 125
trans-1,2-Dichloroethene	2.50	2.87		mg/Kg		115	70 - 125
trans-1,3-Dichloropropene	2.50	2.99		mg/Kg		120	62 - 128
Trichloroethene	2.50	2.90		mg/Kg		116	70 - 125
Trichlorofluoromethane	2.50	3.02		mg/Kg		121	55 - 128
Vinyl chloride	2.50	2.34		mg/Kg		94	64 - 126
Xylenes, Total	5.00	6.27		mg/Kg		125	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*116*		*75 - 126*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*
Dibromofluoromethane (Surr)	*97*		*75 - 120*
Toluene-d8 (Surr)	*113*		*75 - 120*

Lab Sample ID: 500-261515-7 MS
Matrix: Solid
Analysis Batch: 799842

Client Sample ID: Dup
Prep Type: Total/NA
Prep Batch: 799452

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.043		3.23	2.80		mg/Kg	☼	87	70 - 125

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

Lab Sample ID: 500-261515-7 MS
Matrix: Solid
Analysis Batch: 799842

Client Sample ID: Dup
Prep Type: Total/NA
Prep Batch: 799452

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	<0.029	*+	3.23	2.54		mg/Kg	☼	79	70 - 125
1,1,2,2-Tetrachloroethane	<0.042		3.23	3.58		mg/Kg	☼	111	62 - 140
1,1,2-Trichloroethane	<0.047		3.23	3.35		mg/Kg	☼	104	71 - 130
1,1-Dichloroethane	<0.023		3.23	3.26		mg/Kg	☼	101	70 - 125
1,1-Dichloroethene	<0.031		3.23	3.00		mg/Kg	☼	93	67 - 122
1,1-Dichloropropene	<0.022		3.23	2.94		mg/Kg	☼	91	70 - 121
1,2,3-Trichlorobenzene	<0.023	F1 *+	3.23	5.29	F1	mg/Kg	☼	164	51 - 145
1,2,3-Trichloropropane	<0.097		3.23	3.49		mg/Kg	☼	108	50 - 133
1,2,4-Trichlorobenzene	<0.020		3.23	3.66		mg/Kg	☼	114	57 - 137
1,2,4-Trimethylbenzene	<0.019		3.23	3.25		mg/Kg	☼	101	70 - 123
1,2-Dibromo-3-Chloropropane	<0.26		3.23	3.42		mg/Kg	☼	106	56 - 123
1,2-Dibromoethane (EDB)	<0.036		3.23	3.23		mg/Kg	☼	100	70 - 125
1,2-Dichlorobenzene	<0.031		3.23	3.30		mg/Kg	☼	102	70 - 125
1,2-Dichloroethane	<0.037	*+	3.23	2.93		mg/Kg	☼	91	68 - 127
1,2-Dichloropropane	<0.024		3.23	3.48		mg/Kg	☼	108	67 - 130
1,3,5-Trimethylbenzene	<0.019		3.23	3.31		mg/Kg	☼	102	70 - 123
1,3-Dichlorobenzene	<0.026		3.23	3.20		mg/Kg	☼	99	70 - 125
1,3-Dichloropropane	<0.036		3.23	3.44		mg/Kg	☼	107	62 - 136
1,4-Dichlorobenzene	<0.029		3.23	3.10		mg/Kg	☼	96	70 - 120
2,2-Dichloropropane	<0.031		3.23	2.40		mg/Kg	☼	74	58 - 139
2-Chlorotoluene	<0.023		3.23	3.35		mg/Kg	☼	104	70 - 125
4-Chlorotoluene	<0.022		3.23	3.26		mg/Kg	☼	101	68 - 124
Benzene	<0.0079		3.23	3.06		mg/Kg	☼	95	70 - 120
Bromobenzene	<0.038		3.23	3.52		mg/Kg	☼	109	70 - 122
Bromochloromethane	<0.032		3.23	3.02		mg/Kg	☼	94	65 - 122
Bromodichloromethane	<0.037		3.23	2.86		mg/Kg	☼	89	69 - 120
Bromoform	<0.062		3.23	2.70		mg/Kg	☼	84	56 - 132
Bromomethane	<0.12		3.23	1.72		mg/Kg	☼	53	40 - 152
Carbon tetrachloride	<0.027		3.23	2.55		mg/Kg	☼	79	59 - 133
Chlorobenzene	<0.027	*+	3.23	3.11		mg/Kg	☼	97	70 - 120
Chloroethane	<0.030		3.23	1.75		mg/Kg	☼	54	48 - 136
Chloroform	<0.059		3.23	2.71		mg/Kg	☼	84	70 - 120
Chloromethane	<0.051		3.23	3.53		mg/Kg	☼	109	56 - 152
cis-1,2-Dichloroethene	<0.027		3.23	3.04		mg/Kg	☼	94	70 - 125
cis-1,3-Dichloropropene	<0.033		3.23	3.10		mg/Kg	☼	96	64 - 127
Dibromochloromethane	<0.053		3.23	2.93		mg/Kg	☼	91	68 - 125
Dibromomethane	<0.037		3.23	2.92		mg/Kg	☼	90	70 - 120
Dichlorodifluoromethane	<0.11		3.23	2.31		mg/Kg	☼	72	40 - 159
Ethylbenzene	<0.011	*+	3.23	2.86		mg/Kg	☼	89	70 - 123
Hexachlorobutadiene	<0.035		3.23	3.10		mg/Kg	☼	96	51 - 150
Isopropylbenzene	<0.019		3.23	3.47		mg/Kg	☼	108	70 - 126
Methyl tert-butyl ether	<0.028		3.23	2.87		mg/Kg	☼	89	55 - 123
Methylene Chloride	<0.14		3.23	2.99		mg/Kg	☼	93	69 - 125
Naphthalene	<0.029		3.23	4.58		mg/Kg	☼	142	53 - 144
n-Butylbenzene	<0.021		3.23	3.07		mg/Kg	☼	95	68 - 125
N-Propylbenzene	<0.021		3.23	3.36		mg/Kg	☼	104	69 - 127
p-Isopropyltoluene	<0.019		3.23	3.27		mg/Kg	☼	101	70 - 125
sec-Butylbenzene	<0.018		3.23	3.26		mg/Kg	☼	101	70 - 123
Styrene	<0.020	*+	3.23	3.06		mg/Kg	☼	95	70 - 120

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

Lab Sample ID: 500-261515-7 MS
Matrix: Solid
Analysis Batch: 799842

Client Sample ID: Dup
Prep Type: Total/NA
Prep Batch: 799452

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
tert-Butylbenzene	<0.017	*+	3.23	3.35		mg/Kg	☼	104	70 - 121
Tetrachloroethene	<0.025	*+	3.23	3.09		mg/Kg	☼	96	70 - 128
Toluene	<0.014	*+	3.23	2.88		mg/Kg	☼	89	70 - 125
trans-1,2-Dichloroethene	<0.028		3.23	2.96		mg/Kg	☼	92	70 - 125
trans-1,3-Dichloropropene	<0.041		3.23	3.02		mg/Kg	☼	94	62 - 128
Trichloroethene	<0.0096		3.23	2.93		mg/Kg	☼	91	70 - 125
Trichlorofluoromethane	<0.029		3.23	2.49		mg/Kg	☼	77	55 - 128
Vinyl chloride	<0.030		3.23	3.09		mg/Kg	☼	96	64 - 126
Xylenes, Total	<0.015		6.45	5.63		mg/Kg	☼	87	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*
4-Bromofluorobenzene (Surr)	*114*		*72 - 124*
Dibromofluoromethane (Surr)	*93*		*75 - 120*
Toluene-d8 (Surr)	*100*		*75 - 120*

Lab Sample ID: 500-261515-7 MSD
Matrix: Solid
Analysis Batch: 799842

Client Sample ID: Dup
Prep Type: Total/NA
Prep Batch: 799452

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.043		3.23	2.84		mg/Kg	☼	88	70 - 125	1	30
1,1,1-Trichloroethane	<0.029	*+	3.23	2.54		mg/Kg	☼	79	70 - 125	0	30
1,1,2,2-Tetrachloroethane	<0.042		3.23	3.59		mg/Kg	☼	111	62 - 140	0	30
1,1,2-Trichloroethane	<0.047		3.23	3.35		mg/Kg	☼	104	71 - 130	0	30
1,1-Dichloroethane	<0.023		3.23	3.27		mg/Kg	☼	101	70 - 125	0	30
1,1-Dichloroethene	<0.031		3.23	3.01		mg/Kg	☼	93	67 - 122	1	30
1,1-Dichloropropene	<0.022		3.23	2.93		mg/Kg	☼	91	70 - 121	0	30
1,2,3-Trichlorobenzene	<0.023	F1 *+	3.23	5.12	F1	mg/Kg	☼	159	51 - 145	3	30
1,2,3-Trichloropropane	<0.097		3.23	3.63		mg/Kg	☼	113	50 - 133	4	30
1,2,4-Trichlorobenzene	<0.020		3.23	3.58		mg/Kg	☼	111	57 - 137	2	30
1,2,4-Trimethylbenzene	<0.019		3.23	3.30		mg/Kg	☼	102	70 - 123	2	30
1,2-Dibromo-3-Chloropropane	<0.26		3.23	3.26		mg/Kg	☼	101	56 - 123	5	30
1,2-Dibromoethane (EDB)	<0.036		3.23	3.28		mg/Kg	☼	102	70 - 125	2	30
1,2-Dichlorobenzene	<0.031		3.23	3.30		mg/Kg	☼	102	70 - 125	0	30
1,2-Dichloroethane	<0.037	*+	3.23	2.93		mg/Kg	☼	91	68 - 127	0	30
1,2-Dichloropropane	<0.024		3.23	3.51		mg/Kg	☼	109	67 - 130	1	30
1,3,5-Trimethylbenzene	<0.019		3.23	3.37		mg/Kg	☼	104	70 - 123	2	30
1,3-Dichlorobenzene	<0.026		3.23	3.23		mg/Kg	☼	100	70 - 125	1	30
1,3-Dichloropropane	<0.036		3.23	3.43		mg/Kg	☼	106	62 - 136	0	30
1,4-Dichlorobenzene	<0.029		3.23	3.14		mg/Kg	☼	97	70 - 120	1	30
2,2-Dichloropropane	<0.031		3.23	2.45		mg/Kg	☼	76	58 - 139	2	30
2-Chlorotoluene	<0.023		3.23	3.40		mg/Kg	☼	105	70 - 125	1	30
4-Chlorotoluene	<0.022		3.23	3.36		mg/Kg	☼	104	68 - 124	3	30
Benzene	<0.0079		3.23	3.09		mg/Kg	☼	96	70 - 120	1	30
Bromobenzene	<0.038		3.23	3.62		mg/Kg	☼	112	70 - 122	3	30
Bromochloromethane	<0.032		3.23	3.03		mg/Kg	☼	94	65 - 122	0	30
Bromodichloromethane	<0.037		3.23	2.87		mg/Kg	☼	89	69 - 120	0	30

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

Lab Sample ID: 500-261515-7 MSD
Matrix: Solid
Analysis Batch: 799842

Client Sample ID: Dup
Prep Type: Total/NA
Prep Batch: 799452

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromoform	<0.062		3.23	2.67		mg/Kg	☼	83	56 - 132	1	30
Bromomethane	<0.12		3.23	1.77		mg/Kg	☼	55	40 - 152	3	30
Carbon tetrachloride	<0.027		3.23	2.54		mg/Kg	☼	79	59 - 133	0	30
Chlorobenzene	<0.027	*+	3.23	3.15		mg/Kg	☼	98	70 - 120	1	30
Chloroethane	<0.030		3.23	1.88		mg/Kg	☼	58	48 - 136	7	30
Chloroform	<0.059		3.23	2.72		mg/Kg	☼	84	70 - 120	0	30
Chloromethane	<0.051		3.23	3.58		mg/Kg	☼	111	56 - 152	1	30
cis-1,2-Dichloroethene	<0.027		3.23	3.05		mg/Kg	☼	95	70 - 125	0	30
cis-1,3-Dichloropropene	<0.033		3.23	3.11		mg/Kg	☼	96	64 - 127	0	30
Dibromochloromethane	<0.053		3.23	2.93		mg/Kg	☼	91	68 - 125	0	30
Dibromomethane	<0.037		3.23	2.96		mg/Kg	☼	92	70 - 120	1	30
Dichlorodifluoromethane	<0.11		3.23	2.33		mg/Kg	☼	72	40 - 159	1	30
Ethylbenzene	<0.011	*+	3.23	2.90		mg/Kg	☼	90	70 - 123	1	30
Hexachlorobutadiene	<0.035		3.23	3.14		mg/Kg	☼	97	51 - 150	1	30
Isopropylbenzene	<0.019		3.23	3.59		mg/Kg	☼	111	70 - 126	3	30
Methyl tert-butyl ether	<0.028		3.23	2.85		mg/Kg	☼	88	55 - 123	1	30
Methylene Chloride	<0.14		3.23	3.04		mg/Kg	☼	94	69 - 125	2	30
Naphthalene	<0.029		3.23	4.45		mg/Kg	☼	138	53 - 144	3	30
n-Butylbenzene	<0.021		3.23	3.06		mg/Kg	☼	95	68 - 125	0	30
N-Propylbenzene	<0.021		3.23	3.43		mg/Kg	☼	106	69 - 127	2	30
p-Isopropyltoluene	<0.019		3.23	3.32		mg/Kg	☼	103	70 - 125	1	30
sec-Butylbenzene	<0.018		3.23	3.32		mg/Kg	☼	103	70 - 123	2	30
Styrene	<0.020	*+	3.23	3.10		mg/Kg	☼	96	70 - 120	2	30
tert-Butylbenzene	<0.017	*+	3.23	3.44		mg/Kg	☼	107	70 - 121	3	30
Tetrachloroethene	<0.025	*+	3.23	3.12		mg/Kg	☼	97	70 - 128	1	30
Toluene	<0.014	*+	3.23	2.96		mg/Kg	☼	92	70 - 125	3	30
trans-1,2-Dichloroethene	<0.028		3.23	2.99		mg/Kg	☼	93	70 - 125	1	30
trans-1,3-Dichloropropene	<0.041		3.23	3.02		mg/Kg	☼	94	62 - 128	0	30
Trichloroethene	<0.0096		3.23	2.98		mg/Kg	☼	92	70 - 125	2	30
Trichlorofluoromethane	<0.029		3.23	2.60		mg/Kg	☼	80	55 - 128	4	30
Vinyl chloride	<0.030		3.23	3.15		mg/Kg	☼	98	64 - 126	2	30
Xylenes, Total	<0.015		6.45	5.68		mg/Kg	☼	88	70 - 125	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*
4-Bromofluorobenzene (Surr)	*115*		*72 - 124*
Dibromofluoromethane (Surr)	*91*		*75 - 120*
Toluene-d8 (Surr)	*101*		*75 - 120*

Lab Sample ID: MB 500-799667/7
Matrix: Solid
Analysis Batch: 799667

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.00067		0.0010	0.00067	mg/Kg			12/17/24 11:35	1
1,1,1-Trichloroethane	<0.00045		0.0010	0.00045	mg/Kg			12/17/24 11:35	1
1,1,2,2-Tetrachloroethane	<0.00065		0.0010	0.00065	mg/Kg			12/17/24 11:35	1
1,1,2-Trichloroethane	<0.00073		0.0010	0.00073	mg/Kg			12/17/24 11:35	1

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

Lab Sample ID: MB 500-799667/7
Matrix: Solid
Analysis Batch: 799667

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<0.00036		0.0010	0.00036	mg/Kg			12/17/24 11:35	1
1,1-Dichloroethene	<0.00048		0.0010	0.00048	mg/Kg			12/17/24 11:35	1
1,1-Dichloropropene	<0.00033		0.0010	0.00033	mg/Kg			12/17/24 11:35	1
1,2,3-Trichlorobenzene	<0.00035		0.0010	0.00035	mg/Kg			12/17/24 11:35	1
1,2,3-Trichloropropane	<0.0015		0.0020	0.0015	mg/Kg			12/17/24 11:35	1
1,2,4-Trichlorobenzene	<0.00031		0.0010	0.00031	mg/Kg			12/17/24 11:35	1
1,2,4-Trimethylbenzene	<0.00030		0.0010	0.00030	mg/Kg			12/17/24 11:35	1
1,2-Dibromo-3-Chloropropane	<0.0041		0.0050	0.0041	mg/Kg			12/17/24 11:35	1
1,2-Dibromoethane (EDB)	<0.00056		0.0010	0.00056	mg/Kg			12/17/24 11:35	1
1,2-Dichlorobenzene	<0.00048		0.0010	0.00048	mg/Kg			12/17/24 11:35	1
1,2-Dichloroethane	<0.00058		0.0010	0.00058	mg/Kg			12/17/24 11:35	1
1,2-Dichloropropane	<0.00037		0.0010	0.00037	mg/Kg			12/17/24 11:35	1
1,3,5-Trimethylbenzene	<0.00029		0.0010	0.00029	mg/Kg			12/17/24 11:35	1
1,3-Dichlorobenzene	<0.00041		0.0010	0.00041	mg/Kg			12/17/24 11:35	1
1,3-Dichloropropane	<0.00056		0.0010	0.00056	mg/Kg			12/17/24 11:35	1
1,4-Dichlorobenzene	<0.00045		0.0010	0.00045	mg/Kg			12/17/24 11:35	1
2,2-Dichloropropane	<0.00048		0.0050	0.00048	mg/Kg			12/17/24 11:35	1
2-Chlorotoluene	<0.00036		0.0010	0.00036	mg/Kg			12/17/24 11:35	1
4-Chlorotoluene	<0.00034		0.0010	0.00034	mg/Kg			12/17/24 11:35	1
Benzene	<0.00012		0.00025	0.00012	mg/Kg			12/17/24 11:35	1
Bromobenzene	<0.00060		0.0010	0.00060	mg/Kg			12/17/24 11:35	1
Bromochloromethane	<0.00050		0.0010	0.00050	mg/Kg			12/17/24 11:35	1
Bromodichloromethane	<0.00057		0.0010	0.00057	mg/Kg			12/17/24 11:35	1
Bromoform	<0.00096		0.0010	0.00096	mg/Kg			12/17/24 11:35	1
Bromomethane	<0.0018		0.0030	0.0018	mg/Kg			12/17/24 11:35	1
Carbon tetrachloride	<0.00041		0.0010	0.00041	mg/Kg			12/17/24 11:35	1
Chlorobenzene	<0.00041		0.0010	0.00041	mg/Kg			12/17/24 11:35	1
Chloroethane	<0.00047		0.0050	0.00047	mg/Kg			12/17/24 11:35	1
Chloroform	<0.00092		0.0020	0.00092	mg/Kg			12/17/24 11:35	1
Chloromethane	<0.00079		0.0050	0.00079	mg/Kg			12/17/24 11:35	1
cis-1,2-Dichloroethene	<0.00042		0.0010	0.00042	mg/Kg			12/17/24 11:35	1
cis-1,3-Dichloropropene	<0.00052		0.0010	0.00052	mg/Kg			12/17/24 11:35	1
Dibromochloromethane	<0.00083		0.0010	0.00083	mg/Kg			12/17/24 11:35	1
Dibromomethane	<0.00058		0.0010	0.00058	mg/Kg			12/17/24 11:35	1
Dichlorodifluoromethane	<0.0018		0.0030	0.0018	mg/Kg			12/17/24 11:35	1
Ethylbenzene	<0.00017		0.00025	0.00017	mg/Kg			12/17/24 11:35	1
Hexachlorobutadiene	<0.00054		0.0010	0.00054	mg/Kg			12/17/24 11:35	1
Isopropyl ether	<0.00038		0.0010	0.00038	mg/Kg			12/17/24 11:35	1
Isopropylbenzene	<0.00029		0.0010	0.00029	mg/Kg			12/17/24 11:35	1
Methyl tert-butyl ether	<0.00043		0.0010	0.00043	mg/Kg			12/17/24 11:35	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			12/17/24 11:35	1
Naphthalene	<0.00044		0.0010	0.00044	mg/Kg			12/17/24 11:35	1
n-Butylbenzene	<0.00033		0.0010	0.00033	mg/Kg			12/17/24 11:35	1
N-Propylbenzene	<0.00032		0.0010	0.00032	mg/Kg			12/17/24 11:35	1
p-Isopropyltoluene	<0.00029		0.0010	0.00029	mg/Kg			12/17/24 11:35	1
sec-Butylbenzene	<0.00027		0.0010	0.00027	mg/Kg			12/17/24 11:35	1
Styrene	<0.00031		0.0010	0.00031	mg/Kg			12/17/24 11:35	1
tert-Butylbenzene	<0.00026		0.0010	0.00026	mg/Kg			12/17/24 11:35	1
Tetrachloroethene	<0.00039		0.0010	0.00039	mg/Kg			12/17/24 11:35	1

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

Lab Sample ID: MB 500-799667/7
Matrix: Solid
Analysis Batch: 799667

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00021		0.00025	0.00021	mg/Kg			12/17/24 11:35	1
trans-1,2-Dichloroethene	<0.00044		0.0010	0.00044	mg/Kg			12/17/24 11:35	1
trans-1,3-Dichloropropene	<0.00063		0.0010	0.00063	mg/Kg			12/17/24 11:35	1
Trichloroethene	<0.00015		0.00050	0.00015	mg/Kg			12/17/24 11:35	1
Trichlorofluoromethane	<0.00044		0.0010	0.00044	mg/Kg			12/17/24 11:35	1
Vinyl chloride	<0.00047		0.0010	0.00047	mg/Kg			12/17/24 11:35	1
Xylenes, Total	<0.00024		0.00050	0.00024	mg/Kg			12/17/24 11:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*75 - 126*		*12/17/24 11:35*	*1*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*		*12/17/24 11:35*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 120*		*12/17/24 11:35*	*1*
Toluene-d8 (Surr)	*113*		*75 - 120*		*12/17/24 11:35*	*1*

Lab Sample ID: LCS 500-799667/4
Matrix: Solid
Analysis Batch: 799667

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	0.0500	0.0556		mg/Kg		111	70 - 125
1,1,1-Trichloroethane	0.0500	0.0594		mg/Kg		119	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0378		mg/Kg		76	62 - 140
1,1,2-Trichloroethane	0.0500	0.0482		mg/Kg		96	71 - 130
1,1-Dichloroethane	0.0500	0.0504		mg/Kg		101	70 - 125
1,1-Dichloroethene	0.0500	0.0518		mg/Kg		104	67 - 122
1,1-Dichloropropene	0.0500	0.0542		mg/Kg		108	70 - 121
1,2,3-Trichlorobenzene	0.0500	0.0540		mg/Kg		108	51 - 145
1,2,3-Trichloropropane	0.0500	0.0398		mg/Kg		80	50 - 133
1,2,4-Trichlorobenzene	0.0500	0.0554		mg/Kg		111	57 - 137
1,2,4-Trimethylbenzene	0.0500	0.0512		mg/Kg		102	70 - 123
1,2-Dibromo-3-Chloropropane	0.0500	0.0378		mg/Kg		76	56 - 123
1,2-Dibromoethane (EDB)	0.0500	0.0483		mg/Kg		97	70 - 125
1,2-Dichlorobenzene	0.0500	0.0522		mg/Kg		104	70 - 125
1,2-Dichloroethane	0.0500	0.0585		mg/Kg		117	68 - 127
1,2-Dichloropropane	0.0500	0.0475		mg/Kg		95	67 - 130
1,3,5-Trimethylbenzene	0.0500	0.0521		mg/Kg		104	70 - 123
1,3-Dichlorobenzene	0.0500	0.0517		mg/Kg		103	70 - 125
1,3-Dichloropropane	0.0500	0.0510		mg/Kg		102	62 - 136
1,4-Dichlorobenzene	0.0500	0.0509		mg/Kg		102	70 - 120
2,2-Dichloropropane	0.0500	0.0624		mg/Kg		125	58 - 139
2-Chlorotoluene	0.0500	0.0490		mg/Kg		98	70 - 125
4-Chlorotoluene	0.0500	0.0498		mg/Kg		100	68 - 124
Benzene	0.0500	0.0482		mg/Kg		96	70 - 120
Bromobenzene	0.0500	0.0488		mg/Kg		98	70 - 122
Bromochloromethane	0.0500	0.0485		mg/Kg		97	65 - 122
Bromodichloromethane	0.0500	0.0519		mg/Kg		104	69 - 120
Bromoform	0.0500	0.0482		mg/Kg		96	56 - 132
Bromomethane	0.0500	0.0605		mg/Kg		121	40 - 152

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

Lab Sample ID: LCS 500-799667/4
Matrix: Solid
Analysis Batch: 799667

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon tetrachloride	0.0500	0.0596		mg/Kg		119	59 - 133
Chlorobenzene	0.0500	0.0556		mg/Kg		111	70 - 120
Chloroethane	0.0500	0.0528		mg/Kg		106	48 - 136
Chloroform	0.0500	0.0464		mg/Kg		93	70 - 120
Chloromethane	0.0500	0.0453		mg/Kg		91	56 - 152
cis-1,2-Dichloroethene	0.0500	0.0493		mg/Kg		99	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0559		mg/Kg		112	64 - 127
Dibromochloromethane	0.0500	0.0498		mg/Kg		100	68 - 125
Dibromomethane	0.0500	0.0498		mg/Kg		100	70 - 120
Dichlorodifluoromethane	0.0500	0.0450		mg/Kg		90	40 - 159
Ethylbenzene	0.0500	0.0541		mg/Kg		108	70 - 123
Hexachlorobutadiene	0.0500	0.0672		mg/Kg		134	51 - 150
Isopropylbenzene	0.0500	0.0472		mg/Kg		94	70 - 126
Methyl tert-butyl ether	0.0500	0.0478		mg/Kg		96	55 - 123
Methylene Chloride	0.0500	0.0469		mg/Kg		94	69 - 125
Naphthalene	0.0500	0.0383		mg/Kg		77	53 - 144
n-Butylbenzene	0.0500	0.0529		mg/Kg		106	68 - 125
N-Propylbenzene	0.0500	0.0478		mg/Kg		96	69 - 127
p-Isopropyltoluene	0.0500	0.0532		mg/Kg		106	70 - 125
sec-Butylbenzene	0.0500	0.0535		mg/Kg		107	70 - 123
Styrene	0.0500	0.0533		mg/Kg		107	70 - 120
tert-Butylbenzene	0.0500	0.0535		mg/Kg		107	70 - 121
Tetrachloroethene	0.0500	0.0624		mg/Kg		125	70 - 128
Toluene	0.0500	0.0556		mg/Kg		111	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0514		mg/Kg		103	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0531		mg/Kg		106	62 - 128
Trichloroethene	0.0500	0.0521		mg/Kg		104	70 - 125
Trichlorofluoromethane	0.0500	0.0592		mg/Kg		118	55 - 128
Vinyl chloride	0.0500	0.0511		mg/Kg		102	64 - 126
Xylenes, Total	0.100	0.108		mg/Kg		108	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*113*		*75 - 126*
4-Bromofluorobenzene (Surr)	*89*		*72 - 124*
Dibromofluoromethane (Surr)	*100*		*75 - 120*
Toluene-d8 (Surr)	*113*		*75 - 120*

Lab Sample ID: MB 500-799842/8
Matrix: Solid
Analysis Batch: 799842

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.00067		0.0010	0.00067	mg/Kg			12/18/24 10:44	1
1,1,1-Trichloroethane	<0.00045		0.0010	0.00045	mg/Kg			12/18/24 10:44	1
1,1,2,2-Tetrachloroethane	<0.00065		0.0010	0.00065	mg/Kg			12/18/24 10:44	1
1,1,2-Trichloroethane	<0.00073		0.0010	0.00073	mg/Kg			12/18/24 10:44	1
1,1-Dichloroethane	<0.00036		0.0010	0.00036	mg/Kg			12/18/24 10:44	1
1,1-Dichloroethene	<0.00048		0.0010	0.00048	mg/Kg			12/18/24 10:44	1

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

Lab Sample ID: MB 500-799842/8
Matrix: Solid
Analysis Batch: 799842

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<0.00033		0.0010	0.00033	mg/Kg			12/18/24 10:44	1
1,2,3-Trichlorobenzene	0.000550	J	0.0010	0.00035	mg/Kg			12/18/24 10:44	1
1,2,3-Trichloropropane	<0.0015		0.0020	0.0015	mg/Kg			12/18/24 10:44	1
1,2,4-Trichlorobenzene	<0.00031		0.0010	0.00031	mg/Kg			12/18/24 10:44	1
1,2,4-Trimethylbenzene	<0.00030		0.0010	0.00030	mg/Kg			12/18/24 10:44	1
1,2-Dibromo-3-Chloropropane	<0.0041		0.0050	0.0041	mg/Kg			12/18/24 10:44	1
1,2-Dibromoethane (EDB)	<0.00056		0.0010	0.00056	mg/Kg			12/18/24 10:44	1
1,2-Dichlorobenzene	<0.00048		0.0010	0.00048	mg/Kg			12/18/24 10:44	1
1,2-Dichloroethane	<0.00058		0.0010	0.00058	mg/Kg			12/18/24 10:44	1
1,2-Dichloropropane	<0.00037		0.0010	0.00037	mg/Kg			12/18/24 10:44	1
1,3,5-Trimethylbenzene	<0.00029		0.0010	0.00029	mg/Kg			12/18/24 10:44	1
1,3-Dichlorobenzene	<0.00041		0.0010	0.00041	mg/Kg			12/18/24 10:44	1
1,3-Dichloropropane	<0.00056		0.0010	0.00056	mg/Kg			12/18/24 10:44	1
1,4-Dichlorobenzene	<0.00045		0.0010	0.00045	mg/Kg			12/18/24 10:44	1
2,2-Dichloropropane	<0.00048		0.0050	0.00048	mg/Kg			12/18/24 10:44	1
2-Chlorotoluene	<0.00036		0.0010	0.00036	mg/Kg			12/18/24 10:44	1
4-Chlorotoluene	<0.00034		0.0010	0.00034	mg/Kg			12/18/24 10:44	1
Benzene	<0.00012		0.00025	0.00012	mg/Kg			12/18/24 10:44	1
Bromobenzene	<0.00060		0.0010	0.00060	mg/Kg			12/18/24 10:44	1
Bromochloromethane	<0.00050		0.0010	0.00050	mg/Kg			12/18/24 10:44	1
Bromodichloromethane	<0.00057		0.0010	0.00057	mg/Kg			12/18/24 10:44	1
Bromoform	<0.00096		0.0010	0.00096	mg/Kg			12/18/24 10:44	1
Bromomethane	<0.0018		0.0030	0.0018	mg/Kg			12/18/24 10:44	1
Carbon tetrachloride	<0.00041		0.0010	0.00041	mg/Kg			12/18/24 10:44	1
Chlorobenzene	<0.00041		0.0010	0.00041	mg/Kg			12/18/24 10:44	1
Chloroethane	<0.00047		0.0050	0.00047	mg/Kg			12/18/24 10:44	1
Chloroform	<0.00092		0.0020	0.00092	mg/Kg			12/18/24 10:44	1
Chloromethane	<0.00079		0.0050	0.00079	mg/Kg			12/18/24 10:44	1
cis-1,2-Dichloroethene	<0.00042		0.0010	0.00042	mg/Kg			12/18/24 10:44	1
cis-1,3-Dichloropropene	<0.00052		0.0010	0.00052	mg/Kg			12/18/24 10:44	1
Dibromochloromethane	<0.00083		0.0010	0.00083	mg/Kg			12/18/24 10:44	1
Dibromomethane	<0.00058		0.0010	0.00058	mg/Kg			12/18/24 10:44	1
Dichlorodifluoromethane	<0.0018		0.0030	0.0018	mg/Kg			12/18/24 10:44	1
Ethylbenzene	<0.00017		0.00025	0.00017	mg/Kg			12/18/24 10:44	1
Hexachlorobutadiene	<0.00054		0.0010	0.00054	mg/Kg			12/18/24 10:44	1
Isopropyl ether	<0.00038		0.0010	0.00038	mg/Kg			12/18/24 10:44	1
Isopropylbenzene	<0.00029		0.0010	0.00029	mg/Kg			12/18/24 10:44	1
Methyl tert-butyl ether	<0.00043		0.0010	0.00043	mg/Kg			12/18/24 10:44	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			12/18/24 10:44	1
Naphthalene	<0.00044		0.0010	0.00044	mg/Kg			12/18/24 10:44	1
n-Butylbenzene	<0.00033		0.0010	0.00033	mg/Kg			12/18/24 10:44	1
N-Propylbenzene	<0.00032		0.0010	0.00032	mg/Kg			12/18/24 10:44	1
p-Isopropyltoluene	<0.00029		0.0010	0.00029	mg/Kg			12/18/24 10:44	1
sec-Butylbenzene	<0.00027		0.0010	0.00027	mg/Kg			12/18/24 10:44	1
Styrene	<0.00031		0.0010	0.00031	mg/Kg			12/18/24 10:44	1
tert-Butylbenzene	<0.00026		0.0010	0.00026	mg/Kg			12/18/24 10:44	1
Tetrachloroethene	<0.00039		0.0010	0.00039	mg/Kg			12/18/24 10:44	1
Toluene	<0.00021		0.00025	0.00021	mg/Kg			12/18/24 10:44	1
trans-1,2-Dichloroethene	<0.00044		0.0010	0.00044	mg/Kg			12/18/24 10:44	1

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

Lab Sample ID: MB 500-799842/8
Matrix: Solid
Analysis Batch: 799842

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.00063		0.0010	0.00063	mg/Kg			12/18/24 10:44	1
Trichloroethene	<0.00015		0.00050	0.00015	mg/Kg			12/18/24 10:44	1
Trichlorofluoromethane	<0.00044		0.0010	0.00044	mg/Kg			12/18/24 10:44	1
Vinyl chloride	<0.00047		0.0010	0.00047	mg/Kg			12/18/24 10:44	1
Xylenes, Total	<0.00024		0.00050	0.00024	mg/Kg			12/18/24 10:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 126*		*12/18/24 10:44*	*1*
4-Bromofluorobenzene (Surr)	*110*		*72 - 124*		*12/18/24 10:44*	*1*
Dibromofluoromethane (Surr)	*91*		*75 - 120*		*12/18/24 10:44*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*12/18/24 10:44*	*1*

Lab Sample ID: LCS 500-799842/5
Matrix: Solid
Analysis Batch: 799842

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	0.0500	0.0443		mg/Kg		89	70 - 125
1,1,1-Trichloroethane	0.0500	0.0400		mg/Kg		80	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0541		mg/Kg		108	62 - 140
1,1,2-Trichloroethane	0.0500	0.0509		mg/Kg		102	71 - 130
1,1-Dichloroethane	0.0500	0.0504		mg/Kg		101	70 - 125
1,1-Dichloroethene	0.0500	0.0486		mg/Kg		97	67 - 122
1,1-Dichloropropene	0.0500	0.0472		mg/Kg		94	70 - 121
1,2,3-Trichlorobenzene	0.0500	0.0784	*+	mg/Kg		157	51 - 145
1,2,3-Trichloropropane	0.0500	0.0523		mg/Kg		105	50 - 133
1,2,4-Trichlorobenzene	0.0500	0.0582		mg/Kg		116	57 - 137
1,2,4-Trimethylbenzene	0.0500	0.0507		mg/Kg		101	70 - 123
1,2-Dibromo-3-Chloropropane	0.0500	0.0518		mg/Kg		104	56 - 123
1,2-Dibromoethane (EDB)	0.0500	0.0490		mg/Kg		98	70 - 125
1,2-Dichlorobenzene	0.0500	0.0503		mg/Kg		101	70 - 125
1,2-Dichloroethane	0.0500	0.0433		mg/Kg		87	68 - 127
1,2-Dichloropropane	0.0500	0.0526		mg/Kg		105	67 - 130
1,3,5-Trimethylbenzene	0.0500	0.0526		mg/Kg		105	70 - 123
1,3-Dichlorobenzene	0.0500	0.0498		mg/Kg		100	70 - 125
1,3-Dichloropropane	0.0500	0.0524		mg/Kg		105	62 - 136
1,4-Dichlorobenzene	0.0500	0.0483		mg/Kg		97	70 - 120
2,2-Dichloropropane	0.0500	0.0400		mg/Kg		80	58 - 139
2-Chlorotoluene	0.0500	0.0525		mg/Kg		105	70 - 125
4-Chlorotoluene	0.0500	0.0516		mg/Kg		103	68 - 124
Benzene	0.0500	0.0474		mg/Kg		95	70 - 120
Bromobenzene	0.0500	0.0537		mg/Kg		107	70 - 122
Bromochloromethane	0.0500	0.0453		mg/Kg		91	65 - 122
Bromodichloromethane	0.0500	0.0435		mg/Kg		87	69 - 120
Bromoform	0.0500	0.0427		mg/Kg		85	56 - 132
Bromomethane	0.0500	0.0404		mg/Kg		81	40 - 152
Carbon tetrachloride	0.0500	0.0418		mg/Kg		84	59 - 133
Chlorobenzene	0.0500	0.0484		mg/Kg		97	70 - 120

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

Lab Sample ID: LCS 500-799842/5
Matrix: Solid
Analysis Batch: 799842

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroethane	0.0500	0.0405		mg/Kg		81	48 - 136
Chloroform	0.0500	0.0419		mg/Kg		84	70 - 120
Chloromethane	0.0500	0.0620		mg/Kg		124	56 - 152
cis-1,2-Dichloroethene	0.0500	0.0465		mg/Kg		93	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0490		mg/Kg		98	64 - 127
Dibromochloromethane	0.0500	0.0466		mg/Kg		93	68 - 125
Dibromomethane	0.0500	0.0444		mg/Kg		89	70 - 120
Dichlorodifluoromethane	0.0500	0.0422		mg/Kg		84	40 - 159
Ethylbenzene	0.0500	0.0461		mg/Kg		92	70 - 123
Hexachlorobutadiene	0.0500	0.0498		mg/Kg		100	51 - 150
Isopropylbenzene	0.0500	0.0555		mg/Kg		111	70 - 126
Methyl tert-butyl ether	0.0500	0.0420		mg/Kg		84	55 - 123
Methylene Chloride	0.0500	0.0452		mg/Kg		90	69 - 125
Naphthalene	0.0500	0.0651		mg/Kg		130	53 - 144
n-Butylbenzene	0.0500	0.0504		mg/Kg		101	68 - 125
N-Propylbenzene	0.0500	0.0542		mg/Kg		108	69 - 127
p-Isopropyltoluene	0.0500	0.0521		mg/Kg		104	70 - 125
sec-Butylbenzene	0.0500	0.0521		mg/Kg		104	70 - 123
Styrene	0.0500	0.0479		mg/Kg		96	70 - 120
tert-Butylbenzene	0.0500	0.0533		mg/Kg		107	70 - 121
Tetrachloroethene	0.0500	0.0506		mg/Kg		101	70 - 128
Toluene	0.0500	0.0463		mg/Kg		93	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0471		mg/Kg		94	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0475		mg/Kg		95	62 - 128
Trichloroethene	0.0500	0.0461		mg/Kg		92	70 - 125
Trichlorofluoromethane	0.0500	0.0446		mg/Kg		89	55 - 128
Vinyl chloride	0.0500	0.0547		mg/Kg		109	64 - 126
Xylenes, Total	0.100	0.0891		mg/Kg		89	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*75 - 126*
4-Bromofluorobenzene (Surr)	*114*		*72 - 124*
Dibromofluoromethane (Surr)	*91*		*75 - 120*
Toluene-d8 (Surr)	*104*		*75 - 120*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-800420/1-A
Matrix: Solid
Analysis Batch: 800694

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 800420

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.036		0.20	0.036	mg/Kg		12/23/24 09:09	12/24/24 01:22	1
Lead	<0.23		0.50	0.23	mg/Kg		12/23/24 09:09	12/24/24 01:22	1

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

Lab Sample ID: LCS 500-800420/2-A
Matrix: Solid
Analysis Batch: 800694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 800420

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	5.00	4.94		mg/Kg		99	80 - 120
Lead	10.0	10.5		mg/Kg		105	80 - 120

Lab Chronicle

Client: Sigma Group Inc, The
Project/Site: H-D Juneau- 19125

Job ID: 500-261515-1

Client Sample ID: SSB-19 2-4
Lab Sample ID: 500-261515-1
Date Collected: 12/10/24 10:00
Matrix: Solid
Date Received: 12/12/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	799571	MF	EET CHI	12/16/24 12:49

Client Sample ID: SSB-19 2-4
Lab Sample ID: 500-261515-1
Date Collected: 12/10/24 10:00
Matrix: Solid
Date Received: 12/12/24 09:20
Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799452	WRE	EET CHI	12/10/24 10:00
Total/NA	Analysis	8260D		50	799842	W1T	EET CHI	12/18/24 14:13
Total/NA	Prep	3050B			800420	S1Z	EET CHI	12/23/24 09:09 - 12/23/24 15:09 [1]
Total/NA	Analysis	6010D		1	800694	SJ	EET CHI	12/24/24 02:38

Client Sample ID: SSB-19 10-12
Lab Sample ID: 500-261515-2
Date Collected: 12/10/24 10:05
Matrix: Solid
Date Received: 12/12/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	799571	MF	EET CHI	12/16/24 12:49

Client Sample ID: SSB-19 10-12
Lab Sample ID: 500-261515-2
Date Collected: 12/10/24 10:05
Matrix: Solid
Date Received: 12/12/24 09:20
Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799452	WRE	EET CHI	12/10/24 10:05
Total/NA	Analysis	8260D		50	799842	W1T	EET CHI	12/18/24 14:36
Total/NA	Prep	3050B			800420	S1Z	EET CHI	12/23/24 09:09 - 12/23/24 15:09 [1]
Total/NA	Analysis	6010D		1	800694	SJ	EET CHI	12/24/24 02:42

Client Sample ID: SSB-20 2-4
Lab Sample ID: 500-261515-3
Date Collected: 12/10/24 12:00
Matrix: Solid
Date Received: 12/12/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	799583	MF	EET CHI	12/16/24 13:25

Client Sample ID: SSB-20 2-4
Lab Sample ID: 500-261515-3
Date Collected: 12/10/24 12:00
Matrix: Solid
Date Received: 12/12/24 09:20
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799452	WRE	EET CHI	12/10/24 12:00
Total/NA	Analysis	8260D		50	799842	W1T	EET CHI	12/18/24 14:59
Total/NA	Prep	3050B			800420	S1Z	EET CHI	12/23/24 09:09 - 12/23/24 15:09 [1]
Total/NA	Analysis	6010D		1	800694	SJ	EET CHI	12/24/24 02:47

Client Sample ID: SSB-20 12-14
Date Collected: 12/10/24 12:05
Date Received: 12/12/24 09:20

Lab Sample ID: 500-261515-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	799583	MF	EET CHI	12/16/24 13:25

Client Sample ID: SSB-20 12-14
Date Collected: 12/10/24 12:05
Date Received: 12/12/24 09:20

Lab Sample ID: 500-261515-4
Matrix: Solid
Percent Solids: 79.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799452	WRE	EET CHI	12/10/24 12:05
Total/NA	Analysis	8260D		50	799842	W1T	EET CHI	12/18/24 15:22
Total/NA	Prep	3050B			800420	S1Z	EET CHI	12/23/24 09:09 - 12/23/24 15:09 [1]
Total/NA	Analysis	6010D		1	800694	SJ	EET CHI	12/24/24 03:00

Client Sample ID: SSB-21 1-3
Date Collected: 12/10/24 13:00
Date Received: 12/12/24 09:20

Lab Sample ID: 500-261515-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	799583	MF	EET CHI	12/16/24 13:25

Client Sample ID: SSB-21 1-3
Date Collected: 12/10/24 13:00
Date Received: 12/12/24 09:20

Lab Sample ID: 500-261515-5
Matrix: Solid
Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799452	WRE	EET CHI	12/10/24 13:00
Total/NA	Analysis	8260D		50	799842	W1T	EET CHI	12/18/24 15:46
Total/NA	Prep	3050B			800420	S1Z	EET CHI	12/23/24 09:09 - 12/23/24 15:09 [1]
Total/NA	Analysis	6010D		1	800694	SJ	EET CHI	12/24/24 03:05

Client Sample ID: SSB-21 10-12
Date Collected: 12/10/24 13:05
Date Received: 12/12/24 09:20

Lab Sample ID: 500-261515-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	799583	MF	EET CHI	12/16/24 13:25

Client Sample ID: SSB-21 10-12
Date Collected: 12/10/24 13:05
Date Received: 12/12/24 09:20

Lab Sample ID: 500-261515-6
Matrix: Solid
Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799452	WRE	EET CHI	12/10/24 13:05
Total/NA	Analysis	8260D		50	799842	W1T	EET CHI	12/18/24 16:09
Total/NA	Prep	3050B			800420	S1Z	EET CHI	12/23/24 09:09 - 12/23/24 15:09 [1]
Total/NA	Analysis	6010D		1	800694	SJ	EET CHI	12/24/24 03:09

Lab Chronicle

Client: Sigma Group Inc, The
Project/Site: H-D Juneau- 19125

Job ID: 500-261515-1

Client Sample ID: Dup
Lab Sample ID: 500-261515-7
Date Collected: 12/10/24 00:00
Matrix: Solid
Date Received: 12/12/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	799583	MF	EET CHI	12/16/24 13:25

Client Sample ID: Dup
Lab Sample ID: 500-261515-7
Date Collected: 12/10/24 00:00
Matrix: Solid
Date Received: 12/12/24 09:20
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799452	WRE	EET CHI	12/10/24 00:00
Total/NA	Analysis	8260D		50	799842	W1T	EET CHI	12/18/24 16:33

Client Sample ID: Trip
Lab Sample ID: 500-261515-8
Date Collected: 12/10/24 00:00
Matrix: Solid
Date Received: 12/12/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799452	WRE	EET CHI	12/10/24 00:00
Total/NA	Analysis	8260D		50	799842	W1T	EET CHI	12/18/24 16:56

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

Laboratory References:

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

Accreditation/Certification Summary

Client: Sigma Group Inc, The
Project/Site: H-D Juneau- 19125

Job ID: 500-261515-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-25

Eurofins Chicago
2417 Bond Street
University Park IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Chelsea Engnath	Lab PM: Bracken, Jodie V	Carrier Tracking No(s)	COC No: 500-131507-51443 1
Client Contact: ~~Chelsea Corson~~ Chelsea Engnath	Phone: 414 312 0071	E-Mail: Joann Bracken@et.eurofinsus com	State of Origin: WI	Page: Page
Company: Sigma Group Inc, The	PWSID			Job #: 500-261515
Address: 1300 West Canal Street	Due Date Requested: normal TAT			Preservation Codes
City: Milwaukee	TAT Requested (days)			
State Zip: WI, 53233	Compliance Project Δ Yes Δ No			
Phone: 414-643-~~4102~~(Tel) 4151	PO #: Purchase Order not required			
Email: ~~ccorson~~ cengnath@thesigmagroup.com	WO #:			
Project Name: H-D Juneau - 19125	Project #: 50014001			
Site	SSOW#:			Other

500-261515 COC

Analysis Requested

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs - Methanol Pres	~~Metals~~ Cadmium + lead NA pres	Total Number of containers	Special Instructions/Note:
				Preservation Code							
1	SSB-19 2-4	12/10	1000	G	Soil	N	N	X	X		
2	SSB-19 10-12	12/10	1005	G	Soil			X	X		
3	SSB-20 2-4	12/10	1200	G	Soil			X	X		
4	SSB-20 12-14	12/10	1205	G	Soil			X	X		
5	SSB-21 1-3	12/10	100	G	Soil			X	X		
6	SSB-21 10-12	12/10	105	G	Soil			X	X		
7	Dup	12/10		G	Soil			X			
8	trip				Soil			X			
					Soil						
					Soil						
					Soil						

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II, III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: FedEx

Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Cengnath	12/11/24 1000	Sigma	[signature]	12/12/24 0920	EETA

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		14-20.8

Ver: 05/06/2024

Login Sample Receipt Checklist

Client: Sigma Group Inc, The

Job Number: 500-261515-1

Login Number: 261515
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Air Toxics

12/26/2024
Ms. Chelsea Engnath
The Sigma Group
1300 West Canal Street

Milwaukee WI 53233

Project Name: H-D
Project #: 19125
Workorder #: 2412339

Dear Ms. Chelsea Engnath

The following report includes the data for the above referenced project for sample(s) received on 12/12/2024 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Passive S.E. WMS are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

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WORK ORDER #: 2412339

Work Order Summary

CLIENT:	Ms. Chelsea Engnath The Sigma Group 1300 West Canal Street Milwaukee, WI 53233	**BILL TO:**	Ms. Chelsea Engnath The Sigma Group 1300 West Canal Street Milwaukee, WI 53233
PHONE:		**P.O. #**	
FAX:		**PROJECT #**	19125 H-D
DATE RECEIVED:	12/12/2024	**CONTACT:**	Jade White
DATE COMPLETED:	12/26/2024		

FRACTION #	NAME	TEST
01A	SVP-1	Passive S.E. WMS
02A	SVP-2	Passive S.E. WMS
03A	SVP-3	Passive S.E. WMS
04A	SVP-4	Passive S.E. WMS
05A	SVP-5	Passive S.E. WMS
06A	SVP-6	Passive S.E. WMS
07A	SVP-7	Passive S.E. WMS
08A	SVP-8	Passive S.E. WMS
09A	SVP-9	Passive S.E. WMS
10A	Lab Blank	Passive S.E. WMS
11A	CCV	Passive S.E. WMS
12A	LCS	Passive S.E. WMS
12AA	LCSD	Passive S.E. WMS

CERTIFIED BY: DATE: 12/26/24

Technical Director

Cert. No.: AZ Licensure-AZ0775, FL NELAP-E87680, LA NELAP–02089, MN NELAP-2703122, NH NELAP–209223-B, NJ NELAP-CA016, NY NELAP-11291, TX NELAP-T104704434, UT NELAP-CA009332023-16, VA NELAP-12695, WA NELAP-C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-20
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

LABORATORY NARRATIVE
WMS Passive SE by Mod EPA TO-17
The Sigma Group
Workorder# 2412339

Nine WMS-VP samples were received on December 12, 2024. The laboratory analyzed the charcoal sorbent bed of the passive sampler following modified method EPA TO-17. The VOCs were chemically extracted using carbon disulfide and an aliquot of the extract was injected into a GC/MS for identification and quantification of volatile organic compounds (VOCs).

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value. Results are not corrected for desorption efficiency.

Please note that 1,1,2,2-Tetrachloroethane (1,1,2,2-PCA) can degrade into Trichloroethene (TCE) during storage on the charcoal-based sorbent used in the WMS device. Samples containing 1,1,2,2-PCA may yield reduced concentrations of 1,1,2,2-PCA and elevated concentrations of TCE.

The reference method used for this procedure is EPA TO-17, which describes the collection of VOCs in ambient air using sorbents and analysis by GC/MS. Because TO-17 describes active sample collection using a pump and thermal desorption as the preparation step, several modifications are required. Modifications to TO-17 are listed in the table below:

Requirement	***TO-17***	***ATL Modifications***
Sample Collection	Pump pulls measured air volume through sorbent tube	VOCs in air adsorbed onto sorbent bed passively through diffusion
Sample Preparation	Thermal extraction	Solvent extraction
Sorbent tube conditioning	Condition newly packed tubes prior to use	Charcoal-based sorbent is a single use media and conditioning is conducted by vendor.
Instrumentation	Thermal desorption introduction system	Liquid injection introduction system
Internal Standard	Gas-phase internal standard introduced on the tube or focusing trap during analysis	Liquid-phase internal standard introduced on the tube at the time of extraction
Media and sample storage	<4 deg C, 30 days	Media shelf life is determined by vendor; sample hold-time is 6 months for the RAD130 and WMS. Sample preservation requirements are storage in a cool, solvent-free refrigerator and optional use of ice during shipping.
Internal Standard Recovery	+/-40% of daily CCV area	-50% to +100% of daily CCV area

Receiving Notes

The Chain of Custody was missing method assignment in the 'Requested Analyses' checkboxes for the

associated samples. The laboratory proceeded with the analysis as per the original contract or verbal agreement.

Analytical Notes

To calculate ug/m3 concentrations in the Lab Blank, a sampling duration of 9000 minutes was applied.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.
C - Estimated concentration due to calculated sampling rate
CN - See case narrative explanation.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
VOC BY PASSIVE SAMPLER - GC/MS

Client Sample ID: SVP-1

Lab ID#: 2412339-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.050	6.8	0.16	22

Client Sample ID: SVP-2

Lab ID#: 2412339-02A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.050	6.6	0.87	120

Client Sample ID: SVP-3

Lab ID#: 2412339-03A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.050	6.6	0.56	74
Tetrachloroethene	0.050	4.3	0.066	5.6

Client Sample ID: SVP-4

Lab ID#: 2412339-04A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.050	6.7	0.57	76
Tetrachloroethene	0.050	4.3	0.067	5.7

Client Sample ID: SVP-5

Lab ID#: 2412339-05A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.050	6.6	0.27	36

Client Sample ID: SVP-6

Lab ID#: 2412339-06A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)

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Summary of Detected Compounds
VOC BY PASSIVE SAMPLER - GC/MS

Client Sample ID: SVP-6

Lab ID#: 2412339-06A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.050	6.6	5.0	660
Tetrachloroethene	0.050	4.2	0.090	7.6

Client Sample ID: SVP-7

Lab ID#: 2412339-07A

No Detections Were Found.

Client Sample ID: SVP-8

Lab ID#: 2412339-08A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.050	6.7	5.4	720

Client Sample ID: SVP-9

Lab ID#: 2412339-09A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.050	6.7	1.0	130
Tetrachloroethene	0.050	4.3	0.071	6.1

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Client Sample ID: SVP-1

Lab ID#: 2412339-01A

VOC BY PASSIVE SAMPLER - GC/MS

File Name:	**c121910sim**	**Date of Collection: 12/10/24 2:20:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/19/24 12:41 PM**	
		Date of Extraction: 12/19/24	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.050	13	Not Detected	Not Detected
trans-1,2-Dichloroethene	0.10	40	Not Detected	Not Detected
Trichloroethene	0.050	6.8	0.16	22
Tetrachloroethene	0.050	4.3	Not Detected	Not Detected

Temperature = 68.0F , duration time = 8800 minutes.
Container Type: WMS-VP

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130

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Client Sample ID: SVP-2

Lab ID#: 2412339-02A

VOC BY PASSIVE SAMPLER - GC/MS

File Name:	**c121911sim**	**Date of Collection: 12/10/24 3:10:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/19/24 01:08 PM**	
		Date of Extraction: 12/19/24	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.050	12	Not Detected	Not Detected
trans-1,2-Dichloroethene	0.10	40	Not Detected	Not Detected
Trichloroethene	0.050	6.6	0.87	120
Tetrachloroethene	0.050	4.3	Not Detected	Not Detected

Temperature = 68.0F , duration time = 8950 minutes.
Container Type: WMS-VP

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130

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Client Sample ID: SVP-3

Lab ID#: 2412339-03A

VOC BY PASSIVE SAMPLER - GC/MS

File Name:	**c121912sim**	**Date of Collection: 12/10/24 3:15:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/19/24 01:34 PM**	
		Date of Extraction: 12/19/24	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.050	12	Not Detected	Not Detected
trans-1,2-Dichloroethene	0.10	40	Not Detected	Not Detected
Trichloroethene	0.050	6.6	0.56	74
Tetrachloroethene	0.050	4.3	0.066	5.6

Temperature = 68.0F , duration time = 8950 minutes.

Container Type: WMS-VP

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130

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Client Sample ID: SVP-4

Lab ID#: 2412339-04A

VOC BY PASSIVE SAMPLER - GC/MS

File Name:	**c121913sim**	**Date of Collection: 12/10/24 2:35:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/19/24 02:01 PM**	
		Date of Extraction: 12/19/24	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.050	12	Not Detected	Not Detected
trans-1,2-Dichloroethene	0.10	40	Not Detected	Not Detected
Trichloroethene	0.050	6.7	0.57	76
Tetrachloroethene	0.050	4.3	0.067	5.7

Temperature = 68.0F , duration time = 8925 minutes.

Container Type: WMS-VP

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130

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Client Sample ID: SVP-5

Lab ID#: 2412339-05A

VOC BY PASSIVE SAMPLER - GC/MS

File Name:	**c121914sim**	**Date of Collection: 12/10/24 2:30:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/19/24 02:28 PM**	
		Date of Extraction: 12/19/24	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.050	12	Not Detected	Not Detected
trans-1,2-Dichloroethene	0.10	40	Not Detected	Not Detected
Trichloroethene	0.050	6.6	0.27	36
Tetrachloroethene	0.050	4.2	Not Detected	Not Detected

Temperature = 68.0F , duration time = 8970 minutes.

Container Type: WMS-VP

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130

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Client Sample ID: SVP-6

Lab ID#: 2412339-06A

VOC BY PASSIVE SAMPLER - GC/MS

File Name:	**c121915sim**	**Date of Collection: 12/10/24 3:20:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/19/24 02:55 PM**	
		Date of Extraction: 12/19/24	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.050	12	Not Detected	Not Detected
trans-1,2-Dichloroethene	0.10	40	Not Detected	Not Detected
Trichloroethene	0.050	6.6	5.0	660
Tetrachloroethene	0.050	4.2	0.090	7.6

Temperature = 68.0F , duration time = 8980 minutes.

Container Type: WMS-VP

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130

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Client Sample ID: SVP-7

Lab ID#: 2412339-07A

VOC BY PASSIVE SAMPLER - GC/MS

File Name:	**c121916sim**	**Date of Collection: 12/10/24 3:25:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/19/24 03:21 PM**	
		Date of Extraction: 12/19/24	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.050	12	Not Detected	Not Detected
trans-1,2-Dichloroethene	0.10	40	Not Detected	Not Detected
Trichloroethene	0.050	6.6	Not Detected	Not Detected
Tetrachloroethene	0.050	4.2	Not Detected	Not Detected

Temperature = 68.0F , duration time = 9000 minutes.
Container Type: WMS-VP

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130

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Client Sample ID: SVP-8

Lab ID#: 2412339-08A

VOC BY PASSIVE SAMPLER - GC/MS

File Name:	**c121917sim**	**Date of Collection: 12/10/24 3:05:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/19/24 03:48 PM**	
		Date of Extraction: 12/19/24	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.050	12	Not Detected	Not Detected
trans-1,2-Dichloroethene	0.10	40	Not Detected	Not Detected
Trichloroethene	0.050	6.7	5.4	720
Tetrachloroethene	0.050	4.3	Not Detected	Not Detected

Temperature = 68.0F , duration time = 8899 minutes.
Container Type: WMS-VP

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130

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Client Sample ID: SVP-9

Lab ID#: 2412339-09A

VOC BY PASSIVE SAMPLER - GC/MS

File Name:	**c121918sim**	**Date of Collection: 12/10/24 3:00:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/19/24 04:15 PM**	
		Date of Extraction: 12/19/24	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.050	12	Not Detected	Not Detected
trans-1,2-Dichloroethene	0.10	40	Not Detected	Not Detected
Trichloroethene	0.050	6.7	1.0	130
Tetrachloroethene	0.050	4.3	0.071	6.1

Temperature = 68.0F , duration time = 8910 minutes.

Container Type: WMS-VP

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2412339-10A

VOC BY PASSIVE SAMPLER - GC/MS

File Name:	**c121906sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/19/24 10:49 AM**	
		Date of Extraction: 12/19/24	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.050	12	Not Detected	Not Detected
trans-1,2-Dichloroethene	0.10	40	Not Detected	Not Detected
Trichloroethene	0.050	6.6	Not Detected	Not Detected
Tetrachloroethene	0.050	4.2	Not Detected	Not Detected

Temperature = 68.0F , duration time = 9000 minutes.

Container Type: WMS-VP

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130

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Client Sample ID: CCV

Lab ID#: 2412339-11A

VOC BY PASSIVE SAMPLER - GC/MS

File Name:	**c121902sim**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 12/19/24 08:52 AM**
		Date of Extraction: NA

Compound	%Recovery
cis-1,2-Dichloroethene	107
trans-1,2-Dichloroethene	112
Trichloroethene	102
Tetrachloroethene	98

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130

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Client Sample ID: LCS

Lab ID#: 2412339-12A

VOC BY PASSIVE SAMPLER - GC/MS

File Name:	**c121904sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/19/24 09:45 AM**	
		Date of Extraction: 12/19/24	

Compound	%Recovery	Method Limits
cis-1,2-Dichloroethene	97	70-130
trans-1,2-Dichloroethene	100	70-130
Trichloroethene	96	70-130
Tetrachloroethene	90	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 2412339-12AA

VOC BY PASSIVE SAMPLER - GC/MS

File Name:	**c121905sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/19/24 10:22 AM**	
		Date of Extraction: 12/19/24	

Compound	%Recovery	Method Limits
cis-1,2-Dichloroethene	94	70-130
trans-1,2-Dichloroethene	99	70-130
Trichloroethene	95	70-130
Tetrachloroethene	91	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130

eurofins | Air Toxics

Method : Passive SE GC/MS WMS (Sh)-c/t-1,2-DCE, PCE & TCE

CAS Number	Compound	Rpt. Limit (ug)
156-59-2	cis-1,2-Dichloroethene	0.050
156-60-5	trans-1,2-Dichloroethene	0.10
79-01-6	Trichloroethene	0.050
127-18-4	Tetrachloroethene	0.050

	Surrogate	Method Limits
2037-26-5	Toluene-d8	70-130

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Analysis Request / Passive Sorbent Chain of Custody

eurofinsus.com

Eurofins Environment Testing Northern California, LLC
180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Workorder #: 2412339

page 1 of 1

Client: Sigma
Site Name: H-D - 19125
Project Manager: Chelsea Engvall
Sampler: Chelsea Engvall

Project Name: H-D
Project #: 19125
PO#:

Turnaround Time (Specify Below)
Standard X Rush _____ (Surcharges will apply, per availability)
Samples received after 3PM PST are considered to be received on the following workday
Requested Date (mm/dd/yy):
OR Number of Days:

Sample Matrix (Check One)
Reporting Units (Circle One)
ppbv µg/m³ ppmv mg/m³ µg ng

Lab ID	Field Sample Identification (Location)	Tube # / Sampler ID	Times are military unless am/pm is indicated: Deployment Information Date	Deployment Information Time	Retrieval Information Date	Retrieval Information Time	Indoor/Outdoor Air	Soil Gas	Workplace Monitoring	(Other) SSV	Temperature	Analysis Requested	Sample Comments:
01A	SVP-1	AN-VP-24-208	12/4	1140	12/10	220				X	68°F	*	
02A	SVP-2	AN-VP-24-201	"	1000	"	310				X	"	"	
03A	SVP-3	AN-VP-24-202	"	1005	"	315				X	"	"	
04A	SVP-4	AN-VP-24-205	"	950	"	235				X	"	"	
05A	SVP-5	AN-VP-24-210	"	900	"	230				X	"	"	
06A	SVP-6	AN-VP-24-203	"	940	"	320				X	"	"	
07A	SVP-7	AN-VP-24-209	"	925	"	325				X	"	"	
08A	SVP-8	AN-VP-24-207	"	1046	"	305				X	"	"	
09A	SVP-9	AN-VP-24-204	"	1030	"	300				X	"	"	

Special Instructions/Notes:
* cis-1,2-DCE, trans-1,2-DCE, PCE, +TCE

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Engvall / Sigma	12/11/24	1000	BTS EAL	12/12/24	1001
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: Fedex | **Custody Seals Intact?** Yes No (None) | **Temperature:** | **Condition:** Good

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

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1/3/2025
Ms. Chelsea Engnath
The Sigma Group
1300 West Canal Street

Milwaukee WI 53233

Project Name: H-D 19125
Project #: 19125
Workorder #: 2412537

Dear Ms. Chelsea Engnath

The following report includes the data for the above referenced project for sample(s) received on 12/18/2024 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Passive S.E. WMS are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

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WORK ORDER #: 2412537

Work Order Summary

CLIENT:	Ms. Chelsea Engnath The Sigma Group 1300 West Canal Street Milwaukee, WI 53233	**BILL TO:**	Ms. Chelsea Engnath The Sigma Group 1300 West Canal Street Milwaukee, WI 53233
PHONE:		**P.O. #**	
FAX:		**PROJECT #**	19125 H-D 19125
DATE RECEIVED:	12/18/2024	**CONTACT:**	Jade White
DATE COMPLETED:	01/03/2025		

FRACTION #	NAME	TEST
01A	SVP-10	Passive S.E. WMS
02A	Lab Blank	Passive S.E. WMS
03A	CCV	Passive S.E. WMS
04A	LCS	Passive S.E. WMS
04AA	LCSD	Passive S.E. WMS

CERTIFIED BY: Heidi Hayes DATE: 01/03/25

Technical Director

Cert. No.: AZ Licensure-AZ0775, FL NELAP-E87680, LA NELAP–02089, MN NELAP-2836569, NH NELAP–209224-A, NJ NELAP-CA016, NY NELAP-11291, TX NELAP-T104704434, UT NELAP-CA009332023-16, VA NELAP-13180, WA NELAP-C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-21
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000

LABORATORY NARRATIVE
WMS Passive SE by Mod EPA TO-17
The Sigma Group
Workorder# 2412537

One WMS-VP sample was received on December 18, 2024. The laboratory analyzed the charcoal sorbent bed of the passive sampler following modified method EPA TO-17. The VOCs were chemically extracted using carbon disulfide and an aliquot of the extract was injected into a GC/MS for identification and quantification of volatile organic compounds (VOCs).

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value. Results are not corrected for desorption efficiency.

Please note that 1,1,2,2-Tetrachloroethane (1,1,2,2-PCA) can degrade into Trichloroethene (TCE) during storage on the charcoal-based sorbent used in the WMS device. Samples containing 1,1,2,2-PCA may yield reduced concentrations of 1,1,2,2-PCA and elevated concentrations of TCE.

The reference method used for this procedure is EPA TO-17, which describes the collection of VOCs in ambient air using sorbents and analysis by GC/MS. Because TO-17 describes active sample collection using a pump and thermal desorption as the preparation step, several modifications are required. Modifications to TO-17 are listed in the table below:

Requirement	***TO-17***	***ATL Modifications***
Sample Collection	Pump pulls measured air volume through sorbent tube	VOCs in air adsorbed onto sorbent bed passively through diffusion
Sample Preparation	Thermal extraction	Solvent extraction
Sorbent tube conditioning	Condition newly packed tubes prior to use	Charcoal-based sorbent is a single use media and conditioning is conducted by vendor.
Instrumentation	Thermal desorption introduction system	Liquid injection introduction system
Internal Standard	Gas-phase internal standard introduced on the tube or focusing trap during analysis	Liquid-phase internal standard introduced on the tube at the time of extraction
Media and sample storage	<4 deg C, 30 days	Media shelf life is determined by vendor; sample hold-time is 6 months for the RAD130 and WMS. Sample preservation requirements are storage in a cool, solvent-free refrigerator and optional use of ice during shipping.
Internal Standard Recovery	+/-40% of daily CCV area	-50% to +100% of daily CCV area

Receiving Notes

The Chain of Custody was missing method assignment in the 'Requested Analyses' checkbox for the

associated sample. The laboratory proceeded with the analysis as per the original contract or verbal agreement.

Analytical Notes

To calculate ug/m3 concentrations in the Lab Blank, a sampling duration of 5730 minutes was applied.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.
C - Estimated concentration due to calculated sampling rate
CN - See case narrative explanation.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
VOC BY PASSIVE SAMPLER - GC/MS

Client Sample ID: SVP-10

Lab ID#: 2412537-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.050	10	0.15	31

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Client Sample ID: SVP-10

Lab ID#: 2412537-01A

VOC BY PASSIVE SAMPLER - GC/MS

File Name:	**18122611sim**	**Date of Collection: 12/16/24 11:00:00 A**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/26/24 01:01 PM**	
		Date of Extraction: 12/26/24	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.050	19	Not Detected	Not Detected
trans-1,2-Dichloroethene	0.10	62	Not Detected	Not Detected
Trichloroethene	0.050	10	0.15	31
Tetrachloroethene	0.050	6.7	Not Detected	Not Detected

Temperature = 68.0F , duration time = 5730 minutes.

Container Type: WMS-VP

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2412537-02A

VOC BY PASSIVE SAMPLER - GC/MS

File Name:	**18122608sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/26/24 11:33 AM**	
		Date of Extraction: 12/26/24	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.050	19	Not Detected	Not Detected
trans-1,2-Dichloroethene	0.10	62	Not Detected	Not Detected
Trichloroethene	0.050	10	Not Detected	Not Detected
Tetrachloroethene	0.050	6.7	Not Detected	Not Detected

Temperature = 68.0F , duration time = 5730 minutes.
Container Type: WMS-VP

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130

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Client Sample ID: CCV

Lab ID#: 2412537-03A

VOC BY PASSIVE SAMPLER - GC/MS

File Name:	**18122602sim**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 12/26/24 08:47 AM**
		Date of Extraction: NA

Compound	%Recovery
cis-1,2-Dichloroethene	104
trans-1,2-Dichloroethene	101
Trichloroethene	100
Tetrachloroethene	99

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130

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Client Sample ID: LCS

Lab ID#: 2412537-04A

VOC BY PASSIVE SAMPLER - GC/MS

File Name:	**18122606sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/26/24 10:40 AM**	
		Date of Extraction: 12/26/24	

Compound	%Recovery	Method Limits
cis-1,2-Dichloroethene	101	70-130
trans-1,2-Dichloroethene	101	70-130
Trichloroethene	95	70-130
Tetrachloroethene	89	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130

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Client Sample ID: LCSD

Lab ID#: 2412537-04AA

VOC BY PASSIVE SAMPLER - GC/MS

File Name:	**18122607sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/26/24 11:07 AM**	
		Date of Extraction: 12/26/24	

Compound	%Recovery	Method Limits
cis-1,2-Dichloroethene	104	70-130
trans-1,2-Dichloroethene	103	70-130
Trichloroethene	95	70-130
Tetrachloroethene	89	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130

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Method : Passive SE GC/MS WMS (Sh)-c/t-1,2-DCE, PCE & TCE

CAS Number	Compound	Rpt. Limit (ug)
156-59-2	cis-1,2-Dichloroethene	0.050
156-60-5	trans-1,2-Dichloroethene	0.10
79-01-6	Trichloroethene	0.050
127-18-4	Tetrachloroethene	0.050

	Surrogate	Method Limits
2037-26-5	Toluene-d8	70-130

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Analysis Request / Passive Sorbent Chain of Custody

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Eurofins Environment Testing Northern California, LLC
180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Workorder #: 24112537

page 1 of 1

Client: Sigma
Site Name: H-D 19125
Project Manager: Chelsea Thomas
Sampler: Chelsea Thomas

Project Name: H-D 19125
Project #: 19125
PO#:

Turnaround Time (Specify Below)
Standard X Rush _____ (Surcharges will apply, per availability)
Samples received after 3PM PST are considered to be received on the following workday.
Requested Date (mm/dd/yy):
OR Number of Days:

Sample Matrix (Check One)

Reporting Units (Circle One)
ppbv µg/m³ ppmv mg/m³ µg ng

Times are military unless am/pm is indicated

Lab ID	Field Sample Identification (Location)	Tube # / Sampler ID	Deployment Information Date	Deployment Information Time	Retrieval Information Date	Retrieval Information Time	Indoor/Outdoor Air	Soil Gas	Workplace Monitoring	(Other) Sub-Slab	Temperature	Analysis Requested	Sample Comments:
01A	SVP-10	AN-VP-24-215	12/12	1130	12/14	1100				X	65°F		

INITIAL °C: NA OF: 12/18/24 FINAL °C: ___
PROBE: ___ TIME STORED:
CUSTODY SEAL? (YES) NO NONE
CARRIER: Fed Ex

Special Instructions/Notes:
*analyze for cis 1,2 DCE trans 1,2 DCE PCE & TCE

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Chelsea Thomas	12/11/24	1000	Eurofins	12/17/24	1420
Eurofins	12/17/24	1630		12/18/24	1100

Lab Use Only

Shipper Name:	Custody Seals Intact?	Temperature:	Condition:
Fed Ex	(Yes) No None	NA	Good

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922