SEABOARD GROUP II AND THE CITY OF HIGH POINT

December 27, 2024

Ms. Rebecca Funderburg, Environmental Program Consultant
Ms. Jackie Drummond, Hydrogeologist
NC Division of Waste Management
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

Re: 2024 Annual Water Quality Monitoring Report
Former Seaboard Chemical/Riverdale Drive Landfill Site
Jamestown, North Carolina
EPA ID No. NCD 071 574 164
NC DEQ Landfill Permit No. 41-01

Dear Rebecca and Jackie:

Please find attached the 2024 Annual Water Quality Monitoring Report for the former Seaboard Chemical/Riverdale Drive Landfill Site in Jamestown, North Carolina.

If there are any questions or comments regarding this report, please contact the undersigned at (919) 605-4719.

Respectfully,

Babb & Associates, P.A.

Gary D. Babb, P.G.
President

Enclosure

Cc: Craig Coslett
Mike Spencer

DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Babb & Associates, P.A.

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Gary D. Babb Phone: 919-605-4719

E-mail: gdbabb@gmail.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Closed Riverdale Drive Landfill	5899 Riverdale Drive Jamestown, NC	41-01	.0500	November 6-13-2024

Environmental Status: (Check all that apply)

☐ Initial/Background Monitoring ☐ Detection Monitoring ☐ Assessment Monitoring ☒ Corrective Action

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☐ Leachate monitoring data
☒ Surface water monitoring data
☐ Methane gas monitoring data
☐ Corrective action data (specify) _____
☐ Other(specify) _____

Notification attached?

☐ No. No groundwater or surface water standards were exceeded.
☒ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Gary D. Babb | Licensed Geologist | 919-605-4719

Facility Representative Name (Print) | Title | (Area Code) Telephone Number

Signature: Gary D. Babb | December 4, 2024 (Date)

Affix NC Licensed/ Professional Geologist Seal

Babb & Associates, P.A., 2917 Beehnon Way, Raleigh, NC 27603

Facility Representative Address

NC PE Firm License Number (if applicable effective May 1, 2009)

Revised 6/2009

Water Quality Monitoring Report

Former Seaboard Chemical/Riverdale Drive Landfill
5899 Riverdale Drive
Jamestown, North Carolina
NCSW Permit No. 41-01
EPA ID NCD 071 574 164

Prepared for:

Seaboard Group II and City of High Point
High Point, NC

Prepared by:

Babb & Associates, P.A.
Raleigh, North Carolina

November 2024

Gary D. Babb, Licensed Geologist

NORTH CAROLINA LICENSED SEAL 488 GEOLOGIST GARY D. BABB

Babb & Associates, P.A.

Table of Contents

1.0 Introduction

The former Seaboard Chemical/Riverdale Drive Landfill Site (Site) is located approximately five miles east-southeast of High Point, NC near the intersection of Riverdale Drive and Interstate 85 (Figure 1). The Site consists of two properties, the former Seaboard Chemical Corporation facility and the closed municipal Riverdale Drive Landfill as shown on Figures 2 and 3.

2.0 Site Geology

The Site is located in the central Piedmont Physiographic Province in the northern portion of the Carolina Slate Belt. Granite is the predominant rock type in the area and outcrops are observed along the creeks and within the Site. The granitic rock consists of a light tan to pinkish white, medium to coarse grained porphyritic granite with abundant quartz, potassium feldspar and mica. Mafic dikes intrude the granitic rock which trend in a north-northeastly direction.

The geology at the Site was fully evaluated during the Remedial Investigation /Feasibility Study which was completed in October 2000. The full text and figures of this evaluation can be reviewed at the following NCDEQ document portal locations:

RI/FS:Volume 1
https://edocs.deq.nc.gov/WasteManagement/DocView.aspx?id=1655021&dbid=0&repo=WasteManagement&searchid=dbe35611-6ca6-4c3c-8e5c-f4f07b10865e

RI/FS: Volumes 2 & 3
https://edocs.deq.nc.gov/WasteManagement/DocView.aspx?id=1655015&dbid=0&repo=WasteManagement&searchid=dbe35611-6ca6-4c3c-8e5c-f4f07b10865e

3.0 Sample Locations

The existing groundwater monitoring network consists of 24 monitoring wells which have been selected to evaluate the lateral and vertical extent of the contaminant plume as well as the effectiveness of the groundwater extraction system (Figure 2).

Surface water sampling is conducted at eight surface water locations (Figure 3), which include: three locations along Randleman Lake (SW-6, SW-7, and SW-DRP-2); three locations on the Southern Intermittent Stream (SW-3, SW-4, and SW-5); and two monitoring locations on the Northern Intermittent Stream (SW-1 and SW-2). The Randleman Lake samples are collected at two depths: One foot below water surface and one foot off the bottom of the Lake. Note that surface water monitoring location SW-DRP11 has been removed from the Water Quality Monitoring Program as approved by August 17, 2023 correspondence from the NC DEQ.

The locations of the water quality samples collected during the annual monitoring event are shown on Figure 2 (groundwater) and Figure 3 (surface water). Groundwater elevations for the monitoring wells at the Site and the latitude/longitude of each well location are provided in Table 3 and Table 4, respectively.

4.0 Water Quality Sample Procedures

The 2024 annual groundwater and surface water monitoring activities were conducted at the Site during the period of November 6-13, 2024. The samples of groundwater and surface water were collected in accordance with the approved *Annual Monitoring Plan – 2010* dated March 17, 2010. This monitoring plan is available on the NCDEQ document portal at the following link:

Annual Monitoring Plan
https://edocs.deq.nc.gov/WasteManagement/DocView.aspx?id=221996&dbid=0&repo=WasteManagement&searchid=5647ca17-404d-4bad-8f2f-5526e30d6faa

The groundwater and surface water samples were analyzed for VOC compounds by EPA Method 8260D and 1,4-dioxane by EPA Method 8260D SIM. The laboratory performing the water quality analysis is Eurofins Environmental Testing, which is a NC Certified Laboratory. Water quality samples were properly preserved, placed on ice, and transported to the laboratory using chain-of-custody documentation within the specified holding times for each analysis.

Field parameters (pH, specific conductivity, temperature, and dissolved oxygen) were also measured during sample collection for each groundwater and surface water location using calibrated meters. The results of the field parameters collected during this monitoring event are provided on Table 3 of this report.

5.0 Field and Laboratory Results

5.1 Field Results

Field parameters collected at the time of sample collection are generally consistent with previous sampling events. The field parameters are summarized for each sample location on Table 3 of this report.

The depth to groundwater was measured in the 24 compliance monitoring wells and the elevations were determined for each monitoring well location. A groundwater potentiometric map was developed using this elevation data and is provided as Figure 4. The groundwater elevation data for the Site monitoring wells is summarized in Table 3.

The general lateral groundwater flow direction across the Site is northeastward toward Randleman Lake. The vertical hydraulic gradient in the shallow bedrock aquifer, as measured between monitoring wells MW-3C and OW-DR2 during this monitoring event, was 0.140 feet/feet upward.

5.2 Laboratory Analytical Results

The complete analytical results for the samples collected during the period of November 6-13, 2024 were received from the laboratory on November 19, 21, and 22, 2024. A summary of the analytical results is provided for groundwater (Table 1) and surface water (Table 2) along with the applicable regulatory water quality standards. The Eurofins Environmental Testing reports are provided in Appendix A of this report.

5.2.1 Groundwater Analytical Results

The laboratory results for selected analytical compounds collected during this monitoring event are provided on a series of concentration isopleths included with

this report. Groundwater isopleth maps are provided for 1,4-dioxane (Figure 5), total VOCs (Figure 6), 1,2-dichloroethane (Figure 7), chlorobenzene (Figure 8), and vinyl chloride (Figure 9). The current and historical groundwater analytical results for all VOC and 1,4-dioxane compounds are provided on Table 1.

The analytical compounds reported in the groundwater generally extends northeastward across the Site to the Randleman Lake basin. During this monitoring event, VOCs were detected in a limited area across Randleman Lake to the northeast of the Site (Figure 6). The extent of the VOC contaminants on the north side of Randleman Lake appears to be limited to property encompassed by Randleman Lake's buffer zone. This buffer zone is maintained and regulated by the Piedmont Triad Regional Water Authority.

5.2.2 Surface Water Analytical Results

Randleman Lake Samples

The laboratory analytical data indicated no VOC compounds were detected above the laboratory reporting limits in any of Randleman Lake surface water samples.

Two of the Randleman Lake sampling locations reported 1,4-dioxane at a concentration above the laboratory reporting limit of 0.50 ug/l. Surface water sample SW-7, collected downstream of the Site at the I-85 bridge, reported a 1,4-dioxane concentration of 0.86 ug/l (shallow) and 0.75 ug/l (deep). The surface water sample SW-DRP2, collected adjacent to the Site near Lift Station 1, reported a 1,4-dioxane concentration of 0.89 ug/l (shallow) and 0.48 ug/l (deep). The NC In-Stream Target Value for 1,4-dioxane in surface water is 0.35 ug/l.

The upstream surface water sample locations (SW-6 - surface and bottom) did not report concentrations of 1,4-dioxane above the laboratory reporting limit. A summary of the Randleman Lake surface water analytical results is provided in Table 2 which is included with this report.

Southern Intermittent Stream Samples

No VOC compounds were reported above the laboratory reporting limits in the surface water samples collected at the SW-3 or SW-5 locations. The surface water sample collected at the SW-4 location reported three VOCs above the laboratory reporting limits. Of the three reported compounds, the concentration of vinyl chloride at the SW-4 location exceeds the established NC 2B Surface Water Standard.

The compound 1,4-dioxane was reported in all three of the Southern Intermittent Stream surface water monitoring locations. The upstream surface water monitoring location SW-5 reported 1,4-dioxane at a concentration of 3.3 ug/l. The surface water monitoring locations SW-3 and SW-4 reported 1,4-dioxane concentrations of 3.7 ug/l and 47 ug/l, respectively.

Northern Intermittent Stream

No VOC compounds were reported above the laboratory reporting limits in any of the samples collected from the Northern Intermittent Stream during this monitoring event.

The compound 1,4-dioxane was reported at the downstream sample location (SW-2) at a concentration of 9.3 ug/l during this monitoring event. The upstream (SW-1) did not report the presence of 1,4-dioxane above the laboratory reporting limit.

A summary of the analytical results for all surface water samples collected during this monitoring event is provided on Table 2 of this report.

5.2.3 Quality Control Sample

Two trip blank samples were analyzed for quality assurance purposes. No VOCs were detected above the laboratory reporting limits in either of the trip blank samples.

6.0 Conclusions

The findings of the November 2024 annual groundwater and surface water monitoring event at the Site include the following:

- Overall, the November 2024 groundwater monitoring results are showing a general decrease in total VOC and 1,4-dioxane concentrations as compared to historical monitoring data.

- The groundwater flow direction at the Site is to the northeast, toward Randleman Lake which is consistent with prior evaluations (Figure 4).

- Based on the November 2024 monitoring results and historical data, the primary groundwater contaminant plume extends along the Southern Intermittent Stream valley in a northeastward direction toward Randleman Lake (Figures 5 – 9).

- During the November 2024 monitoring event, concentrations of 1,4-dioxane above the laboratory reporting limit were reported at two of the Randleman Lake and three of the Southern Intermittent Stream surface water sample locations. With the exception of the vinyl chloride concentration in surface water sample SW-4, no VOCs were reported in any of the surface water samples above the laboratory reporting limits.

- Based on the results of this report, no changes to the monitoring program or schedule are recommended. The 2025 Annual Water Quality Monitoring Event is tentatively scheduled for October/November 2025.

FIGURES

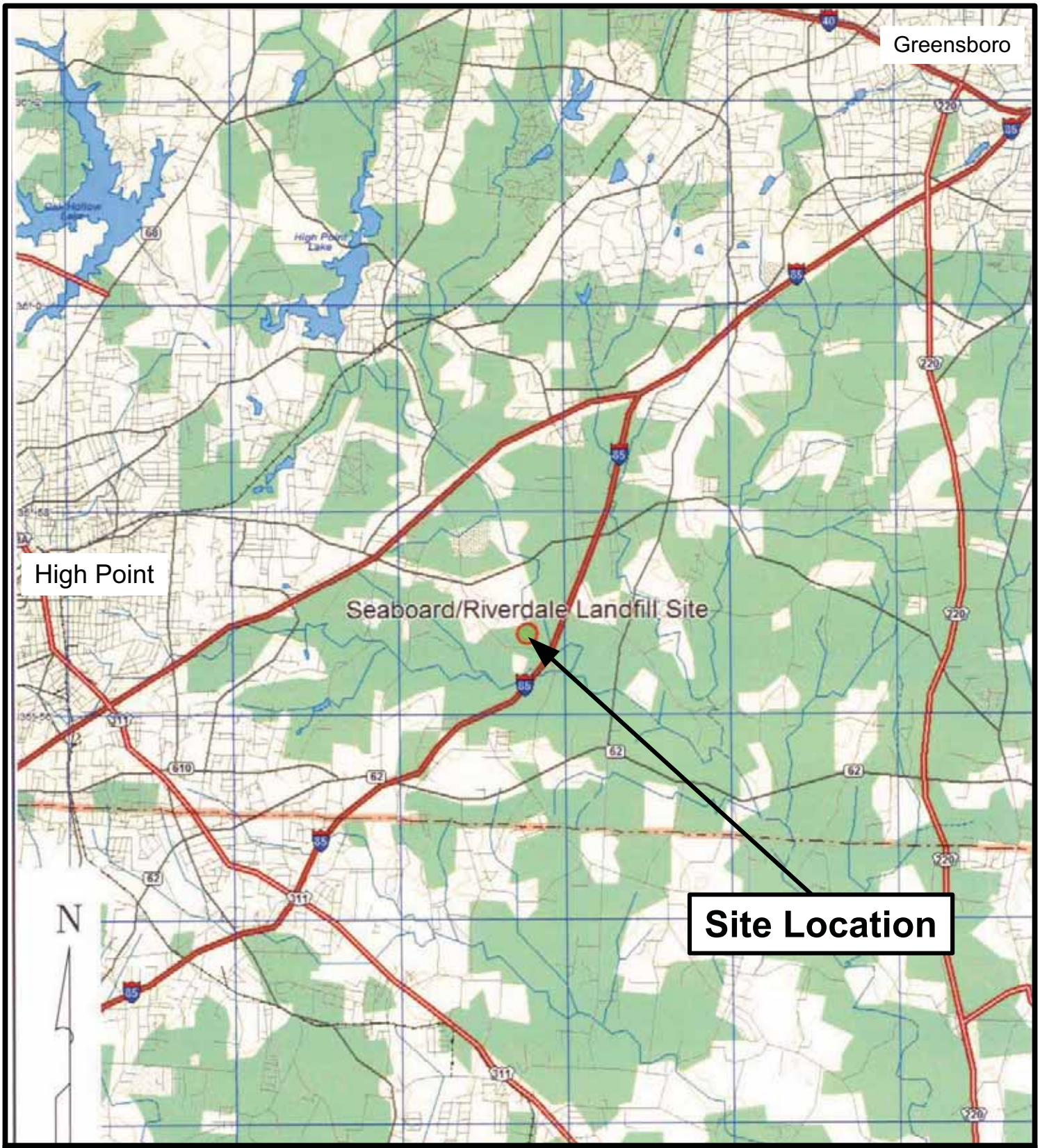

Figure 1 – Site Location Map

Former Seaboard/Riverdale Drive Landfill Site
5899 Riverdale Drive
Jamestown, North Carolina

Babb & Associates, P.A.

5506 Bradford Pear Court
Raleigh, North Carolina 27606-1379
(919) 605-4719

Scale:	Prep. By:	Rev. By:	Date:
1” = 1.5 miles	G. Babb	G. Babb	November 2024

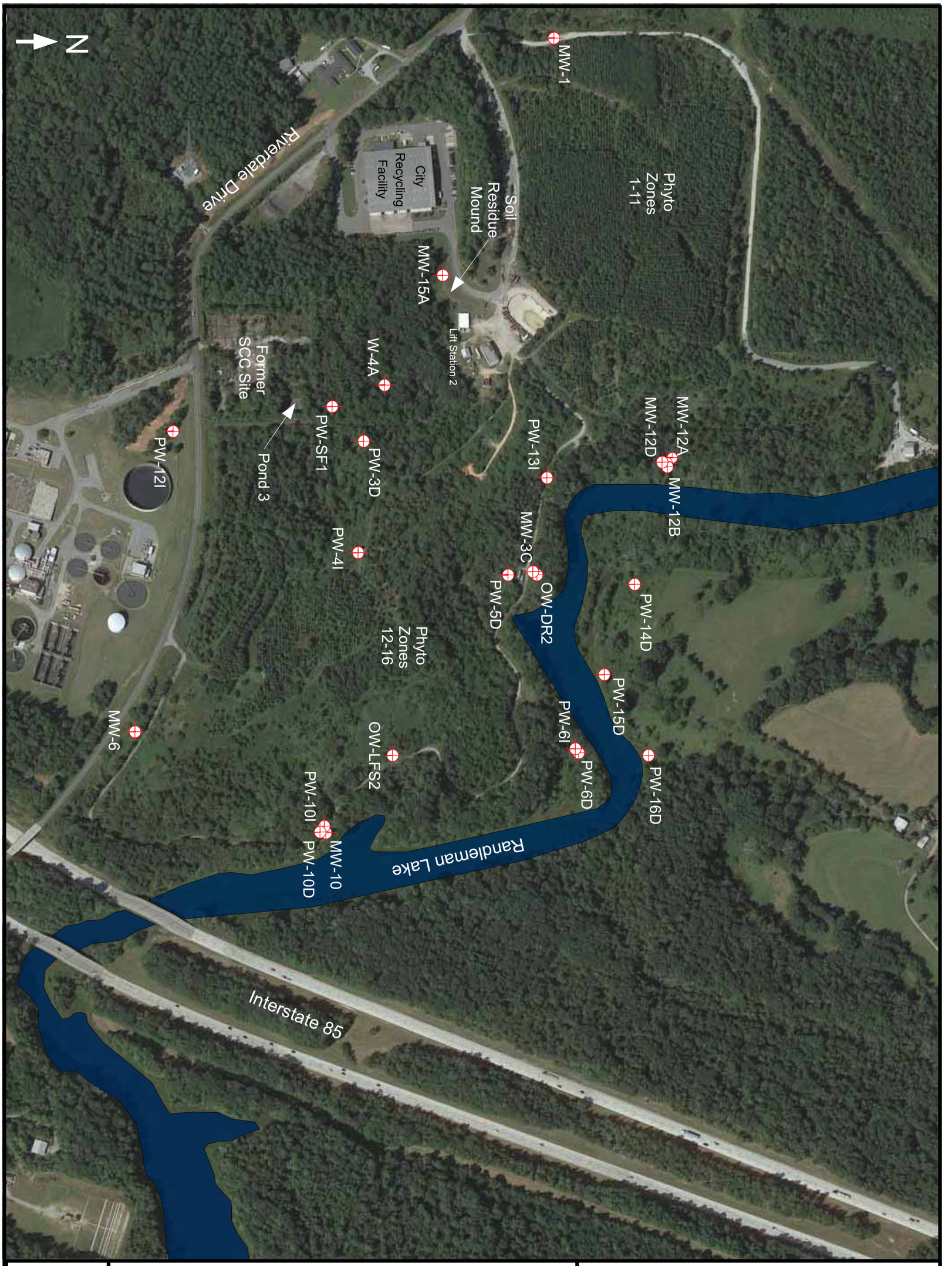

Figure 2

Figure 2

Groundwater Monitoring Well Locations
Former Seaboard/Riverdale Drive Landfill Site
5899 Riverdale Drive
Jamestown, North Carolina

Babb & Associates, P.A.

5506 Bradford Pear Court
Raleigh, North Carolina 27606
(919) 605-4719

Scale:	Prep. By:	Rev. By:	Date:
1” = 360'	G. Babb	G. Babb	November 2024

SW-6
Located Upstream
At Kivett Dr. Bridge

SW-2

SW-1

Phyto
Zones
1-11

SW-DRP2

Soil
Residue
Mound

SW-4

SIS Pipe

City
Recycling
Facility

SW-5

SW-3

Phyto
Zones
12-16

Randleman Lake

Interstate 85

Riverdale Drive

Former
SCC Site

Pond 3

SW-7

N

Babb & Associates, P.A.

5506 Bradford Pear Court
Raleigh, North Carolina 27606
(919) 605-4719

Date: November 2024

Rev. By: G. Babb

Prep. By: G. Babb

Figure 3

Surface Water Monitoring Locations
Former Seaboard/Riverdale Drive Landfill Site
5899 Riverdale Drive
Jamestown, North Carolina

Scale: 1" = 360'

Figure 3

720 710 700 690

682.44
MW-12A

659.04
PW-14D

680.90
PW-16D

680.65
PW-15D

PW-6I
681.00

765.95
MW-1

680.93
PW-13I

677.91
MW-3C

PW-SF1

Phyto
Zones
1-11

Soil
Residue
Mound

670

670

SIS Pipe

MW-15A
741.24

City
Recycling
Facility

OW-LFS2
659.98

W-4A
697.82

PW-3D

PW-4I
692.84

680
684.86

Phyto
Zones
12-16

677.65
MW-10

Interstate 85

Riverdale Drive

Former
SCC Site

Pond 3

720

710

PW-12I
723.33

700

MW-6
697.50

690

680

N

Babb & Associates, P.A.

5506 Bradford Pear Court
Raleigh, North Carolina 27606
(919) 605-4719

Date: November 2024

Rev. By: G. Babb

Prep. By: G. Babb

Figure 4

Groundwater Potentiometric Map – November 2024
Former Seaboard/Riverdale Drive Landfill Site
5899 Riverdale Drive
Jamestown, North Carolina

Scale: 1" = 360'

Figure 4

Concentration >10 ug/l
Concentration >100 ug/l
Monitoring Well Location
23 1,4-Dioxane Concentration

Note: At paired well locations, highest concentration used for isopleth map

Phyto Zones 1-11
Phyto Zones 12-16
Soil Residue Mound
City Recycling Facility
Pond 3
Former SCC Site
Riverdale Drive
Randleman Lake
Interstate 85

MW-1 BQL
MW-12B 130 ug/l
PW-14D BQL
PW-15D BQL
PW-16D BQL
PW-6D 190 ug/l
PW-13I 67ug/l
OW-DR2 250 ug/l
PW-5D 360 ug/l
MW-15A 750 ug/l
W-4A 10 ug/l
PW-3D 110 ug/l
PW-4I 240 ug/l
OW-LFS2 230 ug/l
PW-10I 320 ug/l
PW-12I BQL
MW-6 19 ug/l

N

Babb & Associates, P.A.
5506 Bradford Pear Court
Raleigh, North Carolina 27606
(919) 605-4719

Date: November 2024
Rev. By: G. Babb
Prep. By: G. Babb

Figure 5
1,4-Dioxane Isoconcentration Map – November 2024
Former Seaboard/Riverdale Drive Landfill Site
5899 Riverdale Drive
Jamestown, North Carolina

Scale: 1" = 360'

Figure 5

Concentration >10 ug/l
Concentration >100 ug/l
Concentration >1,000 ug/l
Concentration >10,000 ug/l

Monitoring Well Location

23 ug/l Total VOC Concentration (not including 1,4-Dioxane)

Note: At paired well locations, highest concentration used for isopleth map

Phyto Zones 1-11

MW-1
BQL

Soil Residue Mound

MW-15A
68 ug/l

City Recycling Facility

MW-12A
9 ug/l

PW-14D
25 ug/l

PW-15D
6 ug/l

PW-16D
11 ug/l

PW-6D
116 ug/l

PW13I
93 ug/l

OW-DR2
578 ug/l

PW-5D
360 ug/l

Phyto Zones 12-16

W-4A
41 ug/l

PW-3D
34,371 ug/l

PW-4I
192 ug/l

OW-LFS2
9 ug/l

PW-10I
14 ug/l

Randleman Lake

Interstate 85

Riverdale Drive

Former SCC Site

Pond 3

PW-12I
BQL

MW-6
28 ug/l

N

Babb & Associates, P.A.
5506 Bradford Pear Court
Raleigh, North Carolina 27606
(919) 605-4719

Date: November 2024
Rev. By: G. Babb
Prep. By: G. Babb

Figure 6
Total VOCs* - Isoconcentration Map – November 2024
Former Seaboard/Riverdale Drive Landfill Site
5899 Riverdale Drive
Jamestown, North Carolina
* Does Not Include 1,4-Dioxane

Scale: 1" = 360'

Figure 6

Concentration >10 ug/l
Concentration >100 ug/l
Concentration >1,000 ug/l
Monitoring Well Location
23 ug/l Total 1,2-DCA Concentration

Note: At paired well locations, highest concentration used for isopleth map

Phyto Zones 1-11
Phyto Zones 12-16
MW-1 BQL
Soil Residue Mound
MW-15A BQL
City Recycling Facility
MW-12A MW-12B MW-12D BQL
PW-14D BQL
PW-15D BQL
PW-16D BQL
PW-13I 3 ug/l
OW-DR2 6 ug/l
PW-5D 13 ug/l
PW-6D 2 ug/l
Randleman Lake
W-4A BQL
PW-3D 11,000 ug/l
PW-4I 8 ug/l
OW-LFS2 BQL
MW-10 PW-10I PW-10D BQL
Interstate 85
Riverdale Drive
Former SCC Site
Pond 3
PW-12I BQL
MW-6 BQL
N

Babb & Associates, P.A.
5506 Bradford Pear Court
Raleigh, North Carolina 27606
(919) 605-4719

Date: November 2024
Rev. By: G. Babb
Prep. By: G. Babb
Scale: 1" = 360'

Figure 7
1,2-Dichloroethane - Isoconcentration Map – November 2024
Former Seaboard/Riverdale Drive Landfill Site
5899 Riverdale Drive
Jamestown, North Carolina

Figure 7

Concentration >10 ug/l
Concentration >100 ug/l
Concentration >1,000 ug/l
Monitoring Well Location
23 ug/l Chlorobenzene Concentration

Note: At paired well locations, highest concentration used for isopleth map

Phyto Zones 1-11

MW-12B
9 ug/l

PW-14D
BQL

PW-16D
BQL

PW-15D
2 ug/l

PW-6D
29 ug/l

MW-1
BQL

PW-13I
11 ug/l

OW-DR2
110 ug/l

PW-5D
150 ug/l

Soil Residue Mound

MW-15A
66 ug/l

City Recycling Facility

W-4A
BQL

PW-3D
14,000 ug/l

PW-4I
19 ug/l

Phyto Zones 12-16

OW-LFS2
3 ug/l

PW-10I
3 ug/l

Riverdale Drive

Former SCC Site

Pond 3

PW-12I
BQL

MW-6
1 ug/l

Randleman Lake

Interstate 85

N

Babb & Associates, P.A.
5506 Bradford Pear Court
Raleigh, North Carolina 27606
(919) 605-4719

Date: November 2024
Rev. By: G. Babb
Prep. By: G. Babb

Figure 8
Chlorobenzene - Isoconcentration Map – November 2024
Former Seaboard/Riverdale Drive Landfill Site
5899 Riverdale Drive
Jamestown, North Carolina

Scale: 1" = 360'

Figure 8

Concentration >10 ug/l

Monitoring Well Location

23 Vinyl Chloride Concentration

Note: At paired well locations, highest concentration used for isopleth map

MW-3C

MW-10

MW-12A

MW-12D

MW-12B

BQL

PW-14D

BQL

PW-16D

BQL ug/l

PW-15D

1 ug/l

PW-6D

2 ug/l

Phyto Zones 1-11

MW-1

BQL

PW-13I

5 ug/l

OW-DR2

30 ug/l

PW-5D

4 ug/l

Randleman Lake

Soil Residue Mound

MW-15A

BQL

City Recycling Facility

W-4A

BQL

PW-3D

71 ug/l

PW-4I

25 ug/l

Phyto Zones 12-16

OW-LFS2

1 ug/l

PW-10I

2 ug/l

Interstate 85

Riverdale Drive

Former SCC Site

Pond 3

PW-12I

BQL

MW-6

2 ug/l

N

Babb & Associates, P.A.

5506 Bradford Pear Court
Raleigh, North Carolina 27606
(919) 605-4719

Date: November 2024

Rev. By: G. Babb

Prep. By: G. Babb

Figure 9

Vinyl Chloride - Isoconcentration Map – November 2024
Former Seaboard/Riverdale Drive Landfill Site
5899 Riverdale Drive
Jamestown, North Carolina

Scale: 1" = 360'

Figure 9

TABLES

TABLE 1
GROUND WATER ANALYTICAL RESULTS - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample ID	Sample Date	VOLATILE ORGANIC COMPOUNDS (ug/L)																							
		Total VOCs & 1,4-Doxane	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	1,4-Dioxane	Acetone	Benzene	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes (total)	Other VOCs
NC 2L Standard		**NE**	**200**	**0.6**	**6**	**350**	**0.4**	**0.6**	**3**	**6000**	**1**	**0.3**	**50**	**3,000**	**70**	**3**	**70**	**600**	**5**	**0.7**	**600**	**100**	**3**	**0.03**	**500**	**-**
MW-1																									
	10/26/2015	ND	<1	<1	<1	<1	<1	<1	<2	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
	11/14/2016	ND	<1	<1	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
	10/11/2017	ND	<1	<1	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
	11/1/2018	ND	<1	<1	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
	9/10/2019	ND	<1	<1	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
	10/13/2020	ND	<1	<1	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	ND
	10/26/2021	ND	<1	<1	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	ND
	10/12/2022	ND	<1	<1	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
	11/28/2023	ND	<1	<1	<1	<1	<1	<1	<1	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
	11/6/2024	ND	<1	<1	<1	<1	<1	<1	<1	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
MW-3C																									
	10/27/2015	1,262	66	<1	**210**	100	<1	<1	**308**	>50	**10**	<1	**350**	40	<1	<1	**410**	<1	<1	<1	<1	<1	9.4 J	**67.0**	<30	ND
	11/14/2016	872	67	<10	**94**	56	<10	<10	**190**	<10	5.4 J	**12.0**	**150**	<10	<10	<10	**270**	<10	<10	<10	<10	<10	**6.0**	**27.0**	<30	ND
	10/10/2017	402	15	<1	**57**	22	**1.8**	<1	**120**	<20	**2.2**	<1	49	6.2 J	<1	<1	**100**	<1	<1	0.81 J	<1	0.73 J	2.0	**31.0**	<3	1.70
	11/2/2018	414	6	<1	**54**	30	**1.9**	<1	**110**	<20	**3.2**	<1	**66**	6.3	<1	<1	**110**	<1	<1	0.62 J	<1	0.61 J	2.3	**22.0**	<3	2.60
	9/11/2019	288	<10	<10	**41**	17	<10	<10	**94**	<200	<10	<10	**50**	<10	<10	<10	**72**	<10	<10	<10	<10	<10	<10	**14.0**	<30	ND
	10/13/2020	246	1.7	<1	**38**	13	**1.5**	<1	**64**	<20	**1.6**	<1	**50**	5.4	<1	<1	46	<1	<1	<1	0.57 J	0.55 J	1.4	**23.0**	<2	ND
	10/26/2021	156	<1	<1	**37**	2	**1.4**	<1	**67**	<20	0.93 J	<1	36	2.8	<1	<1	9.8	<1	<1	<1	<1	0.53 J	<1	**21.0**	<2	ND
	10/17/2022	173	<1	<1	**28**	5	**1.3**	<1	**39**	<20	0.97 J	<1	**64**	<1	<1	<1	18.0	<1	<1	<1	<1	0.56 J	<1	**15.0**	<3	1.51
	11/29/2023	117	<1	<1	**22**	0.48 J	**0.6 J**	<1	**33**	<20	0.66 J	<1	45	<1	<1	<1	3.5	<1	<1	<1	0.43 J	0.53 J	0.97 J	**8.3**	<3	1.14
	11/6/2024	69	<1	<1	**14**	0.53 J	**0.41 J**	<1	**37**	<20	<1	<1	12	<1	<1	<1	0.3 J	<1	<1	<1	<1	<1	<1	**4.4**	<3	ND
MW-6																									
	10/30/2015	69	<1	<1	**10**	<1	<1	<1	**44.8**	<5	0.63 J	<1	2.0 J	2.2 J	<1	<1	8.3	<1	<1	0.99 J	<1	<1	1.2	**3.2**	<3	1.5
	11/17/2016	90	<1	<1	**12**	<1	<1	<1	**59**	<20	0.74 J	<1	1.9 J	2.1 J	<1	<1	11	<1	<1	**1.6**	<1	0.56 J	1.6	**3.2**	<3	1.4
	10/10/2017	53	<1	<1	**7**	<1	<1	<1	**34**	<20	15 J	<1	1.7 J	<1	<1	<1	6	<1	<1	<1	<1	<1	**4.2**	**2.0**	<3	ND
	11/2/2018	118	<1	<1	**12**	<1	<1	<1	**82**	<20	0.63 J	<1	2.7	2.1	<1	<1	13	<1	<1	0.79 J	<1	0.54 J	1.1	**3.3**	<3	1.6
	9/12/2019	67	<1	<1	5.4	<1	<1	<1	**29**	27.0	0.45 J	<1	<1	<1	<1	<1	4.2	<1	<1	<1	<1	<1	<1	**1.1**	<3	ND
	10/14/2020	76	<1	<1	**12.0**	<1	<1	<1	**43**	<20	0.75 J	<1	2.8	2.0	<1	<1	10.0	<1	<1	0.81 J	<1	0.51 J	1.7	**3.0**	<2	1.9
	10/28/2021	51	<1	<1	**7.2**	<1	<1	<1	**24**	<20	0.63 J	<1	3.2	1.8	<1	<1	8.8	<1	<1	0.85 J	<1	0.41 J	2.0	**2.2**	<2	1.7
	10/19/2022	43	<1	<1	**6.2**	<1	<1	<1	**23**	<20	0.64 J	<1	2.4	2.2	<1	<1	5.5	<1	<1	<1	<1	<1	<1	**2.0**	<3	1.3
	11/29/2023	38	<1	<1	**6.7**	<1	<1	<1	**16**	<20	0.54 J	<1	1.8	<1	<1	<1	6.0	<1	<1	<1	<1	<1	**4.3**	**2.0**	<3	0.75 J
	11/13/2024	47	<1	<1	5.6	<1	<1	<1	**19**	10 J	0.65 J	<1	1.2	<1	<1	<1	5.0	<1	<1	<1	<1	<1	**3.5**	**1.9**	<3	ND
MW-10																									
	10/26/2015	104	<1	<1	<1	<1	<1	<1	**103**	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	1.1
	11/14/2016	130	<1	<1	<1	<1	<1	<1	**130**	<20	0.78 J	<1	2.8 J	<1	<1	<1	0.41 J	<1	<1	<1	<1	<1	<1	<1	<3	ND
	10/10/2017	150	<1	<1	<1	<1	<1	<1	**150**	<20	<1	<1	<1	1.8 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
	10/31/2018	160	<1	<1	<1	<1	<1	<1	**160**	<20	<1	<1	0.93 J	1.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
	9/10/2019	74	<1	<1	<1	<1	<1	<1	**72**	<20	<1	<1	1.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
	10/12/2020	14	<1	<1	<1	<1	<1	<1	**14**	<20	<1	<1	0.46 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	ND
	10/26/2021	10	<1	<1	<1	<1	<1	<1	**10**	<20	<1	<1	0.46 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	ND
	10/14/2022	12	<1	<1	<1	<1	<1	<1	**12**	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
	11/29/2023	5	<1	<1	<1	<1	<1	<1	**4.8**	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
	11/7/2024	25	<1	<1	<1	<1	<1	<1	**25**	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND

TABLE 1
GROUND WATER ANALYTICAL RESULTS - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample ID	Sample Date	Total VOCs & 1,4-Doxane	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	1,4-Dioxane	Acetone	Benzene	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes (total)	Other VOCs
NC 2L Standard		**NE**	**200**	**0.6**	**6**	**350**	**0.4**	**0.6**	**3**	**6000**	**1**	**0.3**	**50**	**3,000**	**70**	**3**	**70**	**600**	**5**	**0.7**	**600**	**100**	**3**	**0.03**	**500**	**-**
MW-12A																										
	10/27/2015	213	<1	<1	<1	<1	<1	<1	**200**	<5	<1	<1	11	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	2.2
	11/14/2016	207	<1	<1	<1	<1	<1	<1	**200**	19 J	<1	<1	5.9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	1.5
	10/10/2017	273	<1	<1	<1	<1	<1	<1	**260**	<20	<1	<1	11	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	1.7
	11/1/2018	93	<1	<1	<1	<1	<1	<1	**79**	<20	<1	<1	11	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	2.9
	9/10/2019	189	<1	<1	<1	<1	<1	<1	**180**	16 J	<1	<1	6.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	2.9
	10/13/2020	34	<1	<1	<1	<1	<1	<1	**31**	<20	<1	<1	1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	2.0
	10/26/2021	188	<1	<1	<1	<1	<1	<1	**180**	<20	<1	<1	5.8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	1.7
	10/17/2022	157	<1	<1	<1	<1	<1	<1	**150**	<20	<1	<1	6.9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
	11/28/2023	157	<1	<1	<1	<1	<1	<1	**150**	<20	<1	<1	4.8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	1.8
	11/6/2024	37	<1	<1	<1	<1	<1	<1	**28**	<20	<1	<1	9.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	3.0
MW-12B																										
	10/27/2015	123	<1	<1	<1	<1	<1	<1	**117**	<5	<1	<1	4.7	<1	<1	<1	1.1 J	<1	<1	<1	<1	<1	<1	<1	<3	ND
	11/14/2016	164	<1	<1	<1	<1	<1	<1	**150**	<20	0.5 J	<1	11.0	<1	<1	<1	2.7 J	<1	<1	<1	<1	<1	0.58 J	<1	<3	3.4
	10/10/2017	181	<1	<1	<1	<1	<1	<1	**170**	<20	0.94 J	<1	8.3	<1	<1	<1	2.3 J	<1	<1	<1	<1	<1	0.61 J	<1	<3	2.7
	11/1/2018	112	<1	<1	<1	<1	<1	<1	**95**	<20	0.51 J	<1	11	<1	<1	<1	2.7	<1	<1	<1	<1	<1	<1	<1	<3	3.1
	9/11/2019	133	<1	<1	<1	<1	<1	<1	**120**	<20	0.48 J	<1	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	3.1
	10/13/2020	125	<1	<1	<1	<1	<1	<1	**110**	<20	0.75 J	<1	9.5	<1	<1	<1	2.8	<1	<1	<1	<1	<1	<1	<1	<2	3.0
	10/26/2021	120	<1	<1	<1	<1	<1	<1	**110**	<20	0.75 J	<1	7.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	2.2
	10/17/2022	111	<1	<1	<1	<1	<1	<1	**99**	<20	<1	<1	8.0	<1	<1	<1	1.5	<1	<1	<1	<1	<1	<1	<1	<3	2.3
	11/2/2023	112	<1	<1	<1	<1	<1	<1	**100**	<20	**1.5**	<1	7.0	<1	<1	<1	1.6	<1	<1	<1	<1	<1	<1	<1	<3	2.3
	11/11/2024	130	<1	<1	<1	<1	<1	<1	**130**	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
MW-12D																										
	10/25/2015	ND	<1	<1	<1	<1	<1	<1	4.29 J	<5	<1	<1	1.1 J	<1	<1	<1	0.49 J	<1	<1	<1	<1	<1	0.56 J	<1	<3	ND
	11/18/2016	ND	<1	<1	0.48 J	0.41 J	<1	<1	4.9 J	<20	<1	<1	0.76 J	<1	<1	<1	0.79 J	<1	<1	<1	<1	<1	<1	<1	<3	ND
	10/11/2017	8	<1	<1	<1	<1	<1	<1	**8.2 J**	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
	11/1/2018	16	<1	<1	0.82 J	1.4	<1	<1	**7.2**	<20	<1	<1	0.95 J	<1	<1	<1	4.1	<1	<1	<1	<1	<1	1.8	1.5	<3	ND
	9/11/2019	4	<10	<10	<10	<10	<10	<10	**3.7**	<200	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<30	ND
	10/13/2020	3	<1	<1	<1	<1	<1	<1	**3.1**	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	ND
	10/26/2021	3	<1	<1	<1	<1	<1	<1	2.9	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	ND
	10/17/2022	ND	<1	<1	<1	<1	<1	<1	<0.3	<20	<1	<1	<1	<1	<1	<1	<1	<1	0.47 J	<1	<1	<1	<1	<1	<3	ND
	11/2/2023	2	<1	<1	<1	<1	<1	<1	2.0	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
	11/11/2024	ND	<1	<1	<1	<1	<1	<1	0.47 J	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
MW-15A																										
	10/27/2015	2,159	<5	<5	<5	<5	<5	<5	**1,740**	<25	<5	<5	**410**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<15	9.0
	11/14/2016	2,334	<1	<1	<1	<1	<1	**1.4**	**2,200**	<20	0.49 J	<1	**110**	<1	<1	<1	5.3	<1	<1	<1	<1	<1	0.45 J	0.93 J	<3	17.3
	10/11/2017	2,734	<1	<1	<1	<1	<1	**1.8**	**2,600**	<20	0.51 J	<1	**110**	<1	<1	<1	5.8	<1	<1	<1	<1	<1	0.43 J	0.69 J	<3	16.1
	10/31/2018	1,796	<1	<1	<1	<1	<1	0.42 J	**1,600**	<20	0.67J	<1	**190**	<1	<1	<1	0.45J	<1	<1	<1	<1	<1	<1	<1	<3	6.2
	9/10/2019	1,590	<5	<5	<5	<5	<5	<5	**1,400**	<100	<5	<5	**190**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<15	ND
	10/8/2020	1,449	<2	<2	**7.7**	9.9	<2	<2	**1,100**	<40	0.92 J	<2	**300**	<2	<2	<2	17.0	<2	<2	<2	2.6	<2	<2	**5.4**	<4	9.0
	10/28/2021	1,262	<1	<1	<1	<1	<1	<1	**1,200**	<20	<1	<1	**60**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	1.9
	10/18/2022	1,004	<1	<1	<1	<1	<1	0.46 J	**830**	<20	<1	<1	**170**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	3.6
	11/28/2023	1,053	<1	<1	<1	<1	<1	<1	**920**	<20	<1	<1	**130**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	3.1
	11/11/2024	818	<1	<1	<1	<1	<1	<1	**750**	<20	<1	<1	**66**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	2.1

TABLE 1
GROUND WATER ANALYTICAL RESULTS - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample ID	Sample Date	Total VOCs & 1,4-Doxane	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	1,4-Dioxane	Acetone	Benzene	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes (total)	Other VOCs
NC 2L Standard		**NE**	**200**	**0.6**	**6**	**350**	**0.4**	**0.6**	**3**	**6000**	**1**	**0.3**	**50**	**3,000**	**70**	**3**	**70**	**600**	**5**	**0.7**	**600**	**100**	**3**	**0.03**	**500**	**-**
OW-DR2																										
	10/30/2015	12,595	**720**	<20	**1,300**	**800**	**71**	<20	**1,630**	<100	**79**	<20	**3,400**	480	<20	<20	**3,200**	<20	<20	**24**	95	14 J	**22**	**750**	24 J	ND
	11/18/2016	11,740	**830**	<20	**1,300**	**860**	**150**	<20	**1,800**	<400	**65**	<20	**2,800**	340	8.8 J	<20	**2,800**	9.4 J	<20	**19 J**	65	12 J	**20**	**710**	21 J	ND
	10/10/2017	4,103	100	<5	**590**	290	**48**	<5	**990**	<50	**23**	<100	**920**	45	<5	<5	**840**	<5	<5	**5.9**	5.4	4.7 J	**5.4**	**240**	4.5 J	ND
	11/2/2018	1,882	20	<10	**250**	110	**16**	<10	**560**	<200	**8.9 J**	<10	**380**	13	<10	<10	**430**	<10	<10	<10	<10	<10	<10	**94**	<30	ND
	9/11/2019	1,178	12	<5	**200**	84	**11**	<5	**250**	<100	**7**	<5	**260**	12	<5	<5	**290**	<5	<5	<5	<5	<5	<5	**52**	<15	ND
	10/13/2020	1,060	10	<5	**220**	86	**15**	<5	**280**	<100	<5	<5	**71**	15	<5	<5	**310**	<5	<5	**2.3 J**	<5	2.6 J	<5	**53**	<10	ND
	10/28/2021	742	5.2	<5	**130**	54	**6.0**	<5	**250**	<100	<5	<5	36	11	<5	<5	**230**	<5	<5	<5	<5	<5	<5	**20**	<10	ND
	10/18/2022	529	5.2	<5	**130**	50	**7.8**	<5	**170**	<100	<5	<5	72	23	<5	<5	**220**	<5	<5	<5	<5	<5	<5	**21**	<5	ND
	11/29/2023	831	3.2	<1	**130**	89	**7.4**	<1	**170**	<20	**3**	<1	**150**	23	<1	<1	**220**	<1	<1	**1.3**	<1	2	1.7	**30**	<3	0.31 J
	11/11/2024	828	3.4	<1	**130**	57	**6.4**	<1	**250**	<20	**2**	<1	**110**	13	<1	<1	<1	<1	<1	**1.9**	<1	2	1.6	**30**	<3	ND
OW-LFS-2																										
	10/26/2015	285	<1.0	<1.0	1.8 J	<1.0	<1.0	<1.0	**253**	<5	**4.5**	<1.0	11	<1.0	<1.0	<1.0	13	<1.0	<1.0	<1.0	<1.0	<1.0	0.93 J	<1.0	0.45 J	3.4
	11/14/2016	276	<1.0	<1.0	1.2 J	<1.0	<1.0	<1.0	**250**	12 J	**2.4**	<1.0	11	0.76 J	<1.0	<1.0	9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3	3.2
	10/10/2017	248	<1	<1	1.1 J	<1	<1	<1	**240**	<20	**1.4**	<1	4.6	1.5 J	<1	<1	4.6 J	<1	<1	<1	<1	<1	<1	<3	0.50 J	2.0
	10/31/2018	404	<1	<1	<1	<1	<1	<1	**360**	<20	**32.0**	<1	9.3	1.3	<1	<1	0.80 J	<1	<1	<1	<1	<1	<1	<1	<3	1.2
	9/12/2019	213	<1	<1	0.8 J	<1	<1	<1	**210**	<20	0.48 J	<1	3.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
	10/12/2020	153	<1	<1	0.74 J	<1	<1	<1	**150**	<20	**1.2**	<1	2.0	0.53 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	ND
	10/28/2021	284	<1	<1	0.79 J	<1	<1	<1	**270**	<20	**7.0**	<1	3.8	1.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	**1.4**	<2	ND
	10/17/2022	223	<1	<1	0.78 J	<1	<1	<1	**220**	<20	**1.6**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**0.48 J**	<3	ND
	11/28/2023	233	<1	<1	0.4 J	<1	<1	<1	**220**	<20	**3.7**	<1	3.0	5.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	0.79 J
	11/13/2024	239	<1	<1	0.53 J	<1	<1	<1	**230**	<20	**2.6**	<1	2.9	<1	<1	<1	1.1	<1	<1	<1	<1	<1	<1	1.1	<3	0.72 J
PW-3D																										
	10/29/2015	67,602	**2,300**	<200	**660**	**2,100**	**17,000**	<200	**112**	<1000	**350**	<200	**32,000**	<200	<200	<200	**380**	86 J	**1,000**	**3,300**	**1,400**	<200	**7,000**	120 J	>600	160 J
	11/16/2016	45,170	**970**	<100	**400**	870	**20,000**	<100	**120**	<2000	**190**	<100	**16,000**	<100	<100	<100	**110**	<100	**1,100**	**1,300**	**610**	<100	**3,500**	<100	<300	470 J
	10/11/2017	70,050	**1,700**	<200	**730**	**2,000**	**20,000**	<200	**180**	<4000	**330**	<200	**31,000**	<200	<200	<200	**280**	<200	**1,700**	**3,700**	**1,200**	<200	**7,100**	120 J	130	760 J
	11/2/2018	61,400	**1,600**	<200	**660**	**2,000**	**17,000**	<200	**170**	<4000	**320**	<200	**27,000**	<200	<200	<200	**510**	<200	**1,400**	**3,100**	**1,100**	<200	**6,100**	130 J	100 J	110 J
	9/11/2019	31,290	**860**	<200	**480**	**1,100**	**14,000**	<200	**140**	<200	**190 J**	<200	**11,000**	<200	<200	<200	**350**	<200	**1,300**	**620**	470	<200	<200	<200	<600	780 J
	10/14/2020	76,030	**1,700**	<200	**800**	**2,900**	**20,000**	<200	**160**	<4000	**450**	<200	**32,000**	<200	<200	<200	**540**	<200	**1,800**	**4,800**	**1,300**	<200	**8,400**	**190**	210	780
	10/27/2021	42,540	**890**	<500	**660**	**1,500**	**17,000**	<500	**160**	<10000	**280**	<500	**18,000**	<500	<500	<500	**380**	<500	**1,800**	**1,200**	**670**	<500	**4,200**	<500	<1500	ND
	10/12/2022	43,440	**620**	<500	**540**	**1,300**	**12,000**	<500	**180**	<10000	**240**	<500	**20,000**	<500	<500	<500	**380**	<500	**1,400**	**1,900**	**680**	<500	**4,200**	<500	<1500	ND
	11/27/2023	68,743	**390**	<1.0	**410**	**1,100**	**16,000**	0.92 J	**110**	93	**200**	<1.0	**22,000**	<1.0	2.4	<1.0	**370**	26	**1,000**	**1,600**	560	2.1	**2,400**	**82**	92	304
	11/7/2024	34,481	**330**	**9.8**	**440**	**960**	**11,000**	<1.0	**110**	86	**140**	<1.0	**14,000**	<1.0	2.6	<1.0	**370**	18	**1,000**	**1,800**	570	2.6	**3,200**	**71**	66	239
PW-4I																										
	10/29/2015	942	33	<2	**75**	43	**55**	<2	**206**	<10	**2.0**	<2	**88**	<2	<2	<2	**240**	<2	<2	**44**	<2	1.3 J	**95**	**57**	<6	3.9
	11/17/2016	933	59	<2	**75**	51	**74**	<2	**210**	<40	**2.0**	<2	**71**	<2	<2	<2	**230**	<2	<2	**31**	<2	1.5 J	**80**	**47**	<6	3.3
	10/11/2017	906	46	<2	**72**	42	**49**	<2	**240**	<40	**2.0**	<2	**77**	3.5 J	<2	<2	**230**	<2	<2	**30**	<2	1.7 J	**70**	**45**	<6	2.9
	11/2/2018	853	46	<2	**57**	42	**36**	<2	**220**	<40	**1.6 J**	<2	**78**	2.8	<2	<2	**230**	<2	<2	**26**	<2	1.3 J	**64**	**46**	<6	2.7
	9/11/2019	720	32	<5	**69**	37	**36**	<5	**200**	<100	<5	<5	**60**	<5	<5	<5	**230**	<5	<5	**13**	<5	<5	<5	**43**	<15	ND
	10/14/2020	789	30	<5	**62**	41	**37**	<5	**160**	<100	**2.8 J**	<5	**100**	<5	<5	<5	**220**	<5	<5	**32**	2.0 J	<5	**65**	**42**	<10	3.5
	10/27/2021	585	26	<5	**43**	32	**22**	<5	**180**	<100	**2.1 J**	<5	**60**	<5	<5	<5	**170**	<5	2.2 J	**12**	2.0 J	<5	**41**	**33**	<10	2.6
	10/18/2022	485	9.0	<5	**39**	17	**20**	<5	**150**	<100	**<5**	<5	**53**	<5	<5	<5	**120**	<5	<5	**9**	<5	<5	**30**	**35**	<15	3.0
	11/2/2023	400	3.3	<1.0	**19**	18	**10**	<1.0	**160**	>20	**1.7**	<1.0	28	<1.0	<1.0	<1.0	**110**	<1.0	<1.0	**3**	0.51 J	1.1	**18**	**24**	<3	3.4
	11/12/2024	432	<1.0	<1.0	**13**	8	**8**	<1.0	**240**	<20	**1.6**	<1.0	19	<1.0	<1.0	<1.0	**100**	<1.0	<1.0	**2**	<1.0	0.82 J	**12**	**25**	<3	3.0

TABLE 1
GROUND WATER ANALYTICAL RESULTS - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample ID	Sample Date	Total VOCs & 1,4-Doxane	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	1,4-Dioxane	Acetone	Benzene	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes (total)	Other VOCs
NC 2L Standard		**NE**	**200**	**0.6**	**6**	**350**	**0.4**	**0.6**	**3**	**6000**	**1**	**0.3**	**50**	**3,000**	**70**	**3**	**70**	**600**	**5**	**0.7**	**600**	**100**	**3**	**0.03**	**500**	**-**
PW-5D																										
	10/30/2015	7,514	**280**	<20	**870**	**490**	**61**	<20	**1,390**	<100	**46**	<20	**2,000**	52	<20	<20	**1,900**	<20	<20	14 J	45	8.8 J	9.2 J	**380**	13 J	ND
	11/18/2016	11,941	**830**	<50	**1,400**	**960**	**190**	<50	**1,600**	<1000	**65**	<50	**3,000**	240	<50	<50	**2,900**	<50	<50	28 J	66	<50	28 J	**690**	22 J	ND
	10/10/2017	4,536	120	<10	**640**	300	**57**	<10	**1,100**	<200	**23**	<10	**830**	36	<10	<10	**1,200**	<10	<10	5.0 J	4.0 J	<10	5.1 J	**230**	4.1 J	ND
	11/2/2018	2,010	20	<10	**280**	110	**15**	<10	**560**	<200	**11**	<10	**450**	14	<10	<10	**440**	<10	<10	<10	<10	<10	<10	**110**	<30	ND
	9/11/2019	940	7	<5	**170**	55	**8**	<5	**240**	<100	4.4 J	<5	**220**	<5	<5	<5	**180**	<5	<5	<5	<5	<5	<5	**56.0**	<15	ND
	10/13/2020	1,272	25	<5	**370**	21	**26**	<5	**460**	<100	**9.2**	<5	**280**	7.8	<5	<5	44	<5	<5	**3.1 J**	3.4 J	2.4 J	<5	**29.0**	<10	ND
	10/28/2021	834	7.6	<5	**200**	4	**15**	<5	**400**	<100	**5.4**	<5	**180**	<5	<5	<5	12	<5	<5	<5	<5	<5	<5	**9.5**	<10	ND
	10/18/2022	686	7.7	<10	**190**	<10	**17**	<10	**310**	<200	<10	<10	**150**	<10	<10	<10	5	<10	<10	<10	<10	<10	<10	**6.2**	<30	ND
	11/29/2023	704	2.5	<1.0	**180**	0.74 J	**12**	<1.0	**330**	<20	**3.7**	<1.0	**150**	12.0	<1.0	<1.0	2.2	<1.0	<1.0	**1.8**	1.6	1.2	1.2	**2.6**	0.61 J	0.96 J
	11/11/2024	720	2.0	<1.0	**180**	2	**13**	<1.0	**360**	<20	**3.5**	<1.0	**150**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.7**	1.5	0.94 J	0.97 J	**4.0**	0.5 J	ND
PW-6D																										
	10/30/2015	116	2.7	<1	**20**	8.6	<1	<1	8.85 J	<5	0.9 J	<1	46	3.0 J	<1	<1	31	<1	<1	<1	<1	<1	<1	**7.9**	<3	ND
	11/17/2016	935	14.0	<5	**140**	59.0	**5.2**	<5	**190**	<100	**5.4**	<5	**260**	12.0	<5	<5	**210**	<5	<5	<5	<5	<5	<5	**39**	<15	ND
	12/28/2016	13	NA	NA	NA	NA	NA	NA	**13**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/1/2017	600	NA	NA	NA	NA	NA	NA	**600**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/10/2017	1,626	19.0	<2	**270**	95	**12.0**	<2	**450**	<40	**7.3**	<2	**320**	20.0	<2	<2	**370**	<2	<2	**1.5**	<2	1.4 J	1.4 J	**61**	<6	ND
	11/1/2018	996	7.4	<2	**130**	50	**6.5**	<2	**320**	<40	**2.7**	<2	**230**	6.1	<2	<2	**210**	<2	<2	**1.3**	<2	<2	1.1 J	**31**	<6	ND
	9/12/2019	492	4.5	<1	**120**	42	**4.7**	<1	**100**	<20	**1.4**	<1	**120**	7.0	<1	<1	**150**	<1	0.84 J	0.84 J	<1	1.6	<1	**25**	<3	ND
	10/12/2020	210	<1	<1	**47**	1.1	**3.2**	<1	**120**	<20	0.92 J	<1	27	2.3	<1	<1	**6.7**	<1	<1	<1	0.99 J	<1	<1	**3.1**	<2	ND
	10/28/2021	620	3.4	<5	**110**	38	**5.3**	<5	**190**	<100	**2.2 J**	<5	**93**	5.6	<5	<5	**150**	<5	<5	<5	<5	<5	<5	**22**	<15	ND
	10/14/2022	234	<1	<1	**29**	<1	**2.6**	<1	**180**	<20	**0.54 J**	<1	**17**	<1	<1	<1	<1	<1	1.1	<1	0.75 J	<1	<1	**2.6**	<3	ND
	11/29/2023	690	3.7	<1	**170**	25	**7.1**	<1	**260**	<20	**4.4**	<1	**110**	6.9	<1	<1	**70**	<1	<1	**0.94 J**	0.48 J	0.71 J	1.4	**29.0**	<3	ND
	11/12/2024	306	<1	<1	**81**	<1	**1.8**	<1	**190**	<20	**1.7**	<1	29	<1	<1	<1	<1	<1	<1	<1	0.78 J	<1	<1	**1.8**	<3	ND
PW-6I																										
	10/27/2015	98	<1	<1	**20**	1.1 J	**3**	<1	**46.7**	<5	<1	<1	7.6	<1	<1	<1	18	<1	<1	0.74 J	<1	<1	1.4	<1	<3	1.1
	11/17/2016	132	<1	<1	**19**	1.1 J	**11**	<1	**56**	<20	0.47 J	<1	21	<1	<1	<1	18	<1	0.53 J	**1.0**	<1	<1	2.5	**3.6**	<3	3.89 J
	10/10/2017	148	<1	<1	**25**	0.92 J	**3.6**	<1	**71**	<20	0.52 J	<1	19	<1	<1	<1	25	<1	<1	0.42 J	<1	<1	1.1	**3.0**	<3	1.4
	11/1/2018	128	<1	<1	**17**	1.1	**3.2**	0.4 J	**60**	<20	0.58 J	<1	14	<1	<1	<1	24	<1	<1	0.8 J	<1	<1	1.7	**4.7**	<3	1.8
	9/12/2019	148	<1	<1	**19**	1.0	**2.9**	<1	**79**	<20	0.74 J	<1	13	<1	<1	<1	26	<1	<1	0.42 J	<1	<1	<1	**5.3**	<3	1.8
	10/13/2020	137	<1	<1	**20**	1.4	**3.3**	<1	**63**	<20	0.74 J	<1	15	<1	<1	<1	26	<1	<1	0.52 J	<1	0.43 J	1.6	**4.5**	<2	1.8
	10/28/2021	115	<1	<1	**11**	0.74 J	**2.1**	<1	**69**	<20	0.62 J	<1	9.6	<1	<1	<1	18	<1	<1	0.50 J	<1	<1	<1	**3.2**	<2	2.0
	10/14/2022	116	<1	<1	**8.3**	<1	**2.0**	<1	**86**	<20	<1	<1	5.2	<1	<1	<1	12	<1	<1	<1	<1	<1	<1	**1.6**	<3	1.2
	11/29/2023	119	<1	<1	**10.0**	<1	**1.6**	<1	**73**	<20	0.59 J	<1	10.0	<1	<1	<1	16	<1	<1	0.46 J	<1	<1	1.4	**2.2**	<3	3.9
	11/6/2024	89	<1	<1	**8.3**	0.49 J	**1.7**	<1	**58**	<20	0.44 J	<1	5.4	<1	<1	<1	12	<1	<1	0.41 J	<1	<1	0.84 J	<1	<3	1.3
PW-10D																										
	11/3/2015	ND	<1	<1	<1	<1	<1	<1	<2	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
	11/17/2016	15	1.5	<1	2.3 J	4.9 J	<1	<1	<1	<20	<1	<1	2.6 J	<1	<1	<1	7.8	<1	<1	0.60 J	0.49 J	<1	2.4	**3.3**	<3	ND
	10/10/2017	ND	<1	<1	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
	10/31/2018	20	0.96 J	<1	1.6	2.3	<1	<1	<2	<20	<1	<1	1.1	<1	<1	<1	8.6	<1	<1	<1	0.5 J	<1	2.7	3.2	<3	ND
	9/12/2019	ND	<1	<1	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
	10/12/2020	ND	<1	<1	<1	<1	<1	<1	<1	<20	<1	<1	0.85 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	ND
	10/26/2021	ND	<1	<1	<1	<1	<1	<1	<1	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	ND
	10/13/2022	1	<1	<1	<1	<1	<1	<1	<0.3	<20	<1	<1	<1	<1	<1	<1	<1	<1	1.3	<1	<1	<1	<1	<1	<3	ND
	11/29/2023	2	<1	<1	<1	<1	<1	<1	<1	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	1.5 J
	11/13/2024	ND	<1	<1	<1	<1	<1	<1	<1	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND

TABLE 1
GROUND WATER ANALYTICAL RESULTS - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample ID	Sample Date	Total VOCs & 1,4-Doxane	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	1,4-Dioxane	Acetone	Benzene	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes (total)	Other VOCs
NC 2L Standard		**NE**	**200**	**0.6**	**6**	**350**	**0.4**	**0.6**	**3**	**6000**	**1**	**0.3**	**50**	**3,000**	**70**	**3**	**70**	**600**	**5**	**0.7**	**600**	**100**	**3**	**0.03**	**500**	**-**
PW-10I																										
	10/29/2015	22	<1	<1	**16**	<1	<1	<1	**222**	<5	0.57 J	<1	2.7 J	3.3 J	<1	<1	4.2 J	<1	<1	<1	<1	<1	<1	**3.9**	<3	2.3
	11/17/2016	270	<1	<1	**18**	0.41 J	<1	<1	**240**	<20	0.85 J	<1	3.0	2.6 J	<1	<1	5.2	<1	<1	<1	<1	0.45 J	<1	**4.1**	<3	2.93 J
	10/10/2017	226	<1	<1	5.7	<1	<1	<1	**220**	<20	<1	<1	<1	<1	<1	<1	1.4 J	<1	<1	<1	<1	<1	<1	0.51 J	<3	0.44 J
	11/1/2018	319	<1	<1	**13**	<1	<1	<1	**290**	<20	0.96 J	<1	2.5	3.7	<1	<1	4.2	<1	<1	<1	<1	<1	<1	**3.4**	<3	2.0
	9/12/2019	292	<1	<1	**12**	<1	<1	<1	**260**	<20	1.0	<1	2.6	<1	<1	**5.9**	4.2	<1	<1	<1	<1	<1	<1	**3.7**	<3	2.4
	10/12/2020	281	<1	<1	**11**	<1	<1	<1	**250**	<20	**1.4**	<1	2.9	4.0	<1	<1	4.5	<1	1.1	<1	<1	<1	<1	**3.2**	<2	2.7
	10/26/2021	327	<1	<1	**7**	<1	<1	<1	**310**	<20	**1.2**	<1	2.2	2.9	<1	<1	<1	<1	<1	<1	<1	<1	<1	**1.9**	<2	1.7
	10/13/2022	604	<1	<1	4.9	<1	<1	<1	**590**	<20	**1.3**	<1	3.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**1.7**	<3	3.1
	11/29/2023	133	<1	<1	2.3	<1	<1	<1	**130**	<20	<1	<1	<1	<1	<1	<1	0.71 J	<1	<1	<1	<1	<1	<1	<1	<3	ND
	11/13/2024	334	<1	<1	5.0	<1	<1	<1	**320**	<20	0.92 J	<1	2.6	<1	<1	<1	2.0	<1	<1	<1	<1	<1	<1	1.9	<3	1.8
PW-12I																										
	10/30/2015	ND	<1	<1	<1	<1	<1	<1	<2	<5	<1	<1	1.3 J	<1	<1	<1	0.70 J	<1	<1	<1	<1	<1	<1	<1	<3	ND
	11/21/2016	ND	<1	<1	<1	<1	<1	<1	<1	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
	10/11/2017	ND	<1	<1	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
	11/6/2018	ND	<1	<1	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
	9/11/2019	ND	<1	<1	<1	<1	<1	<1	1.2 J	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
	10/14/2020	ND	<1	<1	<1	<1	<1	<1	<1	<20	<1	<1	0.63 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	ND
	10/28/2021	ND	<1	<1	<1	<1	<1	<1	<1	<20	<1	<1	0.63 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	ND
	10/19/2022	ND	<1	<1	<1	<1	<1	<1	<0.3	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
	11/30/2023	ND	<1	<1	<1	<1	<1	<1	<0.3	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
	11/13/2024	ND	<1	<1	<1	<1	<1	<1	0.39 J	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
PW-13I																										
	10/26/2015	419	<1	<1	**120**	28	**4.6**	<1	**88.6**	<5	**3.2**	<1	18	2.0 J	<1	<1	**110**	<1	<1	**1.2**	<1	<1	2.1	**41**	<3	2.2
	11/18/2016	433	<1	<1	**120**	34	**5.0**	<1	**89**	<20	**2.9**	<1	17	1.6 J	<1	<1	**120**	<1	<1	**1.3**	<1	<1	2.3	**40**	<3	1.9
	10/11/2017	350	<1	<1	**100**	20	**4.8**	<1	**88**	<20	**2.5**	<1	11	1.7 J	<1	<1	**80**	<1	<1	0.83 J	<1	<1	1.6	**40**	<3	1.9
	10/31/2018	322	<1	<1	**82**	20	**4.1**	<1	**81**	<20	**2.3**	<1	12	1.3	<1	<1	**84**	<1	<1	0.86 J	<1	<1	1.7	**32**	<3	1.5
	9/11/2019	282	<1	<1	**94**	18	**3.6**	<1	**44**	<20	**2.4**	<1	8.9	1.4	<1	<1	**72**	<1	<1	0.72 J	<1	0.44 J	<1	**38**	<3	ND
	10/13/2020	146	<1	<1	**110**	1.6	**4.0**	<1	**68**	<20	**2.7**	<1	11.0	2.5	<1	<1	7.8	<1	<1	<1	0.65 J	<1	0.51 J	**6.1**	<2	0.93 J
	10/28/2021	171	<1	<1	**87**	<1	**1.2**	<1	**70**	<20	**2.3**	<1	9.4	1.2	<1	<1	<1	<1	<1	<1	0.53 J	<1	<1	**0.94 J**	<2	0.74 J
	10/12/2022	194	<1	<1	**76**	1.4	**1.4**	<1	**84**	<20	**2.0**	<1	11.0	2.0	<1	<1	6.9	<1	<1	0.53 J	0.59 J	<1	<1	**7.1**	<3	0.91 J
	11/27/2023	150	<1	<1	**76**	0.85 J	**1.2**	<1	**46**	>20	**2.2**	<1	12.0	<1	<1	<1	3.6	<1	<1	0.68 J	0.59 J	<1	1.2	**5.1**	<3	0.63 J
	11/12/2024	160	<1	<1	**70**	<1	**2.6**	<1	**67**	<20	**1.9**	<1	11.0	<1	<1	<1	<1	<1	<1	<1	0.54 J	<1	1.5	**4.5**	<3	0.86 J
PW-14D																										
	11/3/2015	10	0.53 J	<1	4.2 J	1.0 J	<1	<1	8.33 J	8.5 J	<1	<1	4.0	<1	<1	<1	5.9	<1	<1	<1	<1	<1	<1	<1	<3	ND
	11/16/2016	9	0.64 J	<1	3.1 J	0.96 J	<1	<1	7.6 J	<20	<1	<1	4.4	<1	<1	<1	5	<1	<1	<1	<1	<1	<1	0.89 J	<3	ND
	10/12/2017	972	5.9	<1	**100**	24	0.63 J	<1	**640**	<20	**1.7**	<1	**83.0**	4.7 J	<1	<1	**110**	<1	<1	0.87 J	<1	<1	0.59 J	**7.8**	<3	ND
	11/5/2018	153	<1	<1	0.91 J	<1	<1	<1	2.4	<20	0.71 J	<1	1.5	<1	<1	<1	1.6	7.7	<1	<1	23	<1	<1	<1	59	ND
	9/17/2019	19	<1	<1	0.55 J	<1	<1	<1	<2	10 J	<1	<1	1.4	<1	<1	<1	0.89 J	1.6	<1	<1	5.2	<1	<1	<1	11	ND
	10/15/2020	16	<1	<1	0.44 J	<1	<1	<1	<2	<20	<1	<1	1.4	<1	<1	<1	0.99 J	0.90 J	<1	<1	2.7	<1	<1	<1	5.7	ND
	10/27/2021	10	<1	<1	<1	<1	<1	<1	<2	<20	<1	<1	0.80 J	<1	<1	<1	0.76 J	0.67 J	<1	<1	1.7	<1	<1	<1	4.2	ND
	10/13/2022	37	<1	<1	<1	<1	<1	<1	0.49 J	15 J	<1	<1	1.3	<1	3.5	<1	0.77 J	0.58 J	0.52 J	<1	2.2	<1	<1	**0.58 J**	3.9	4.3
	11/27/2023	26	<1	<1	<1	<1	<1	<1	<1	<20	<1	<1	0.74 J	<1	<1	<1	0.63 J	0.51 J	<1	<1	2.1	<1	<1	**0.47 J**	4.3	ND
	11/12/2024	25	<1	<1	<1	<1	<1	<1	0.44 J	14 J	0.35 J	<1	0.95 J	<1	<1	<1	0.42 J	0.45 J	<1	<1	1.6	<1	<1	**0.84 J**	3.1	ND

TABLE 1
GROUND WATER ANALYTICAL RESULTS - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample ID	Sample Date	Total VOCs & 1,4-Doxane	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	1,4-Dioxane	Acetone	Benzene	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes (total)	Other VOCs
NC 2L Standard		**NE**	**200**	**0.6**	**6**	**350**	**0.4**	**0.6**	**3**	**6000**	**1**	**0.3**	**50**	**3,000**	**70**	**3**	**70**	**600**	**5**	**0.7**	**600**	**100**	**3**	**0.03**	**500**	**-**
PW-15D																										
	10/28/2015	4,734	68	<50	**570**	220	<50	<50	**1,280**	<250	**28.0**	<50	**1,300**	<50	<50	**96**	**1,000**	<50	<50	<50	<50	<50	<50	**200**	<150	ND
	11/15/2016	3,812	63	<10	**430**	170	**24**	<10	**1,300**	<200	**16.0**	<10	**910**	99	<10	<10	**690**	<10	<10	<10	<10	<10	<10	**110**	<30	ND
	10/12/2017	1,321	12	<1	**200**	66	**7.9**	<1	**510**	<20	**4.2**	<1	**190**	12	<1	<1	**280**	<1	<1	1.5 J	<1	1.1 J	1.0 J	**39**	<3	ND
	11/5/2018	572	3.1	<2	**81**	27	**2.2**	<2	**240**	<40	**1.1 J**	<2	**79**	5.3	<2	<2	**120**	<2	<2	1.2 J	<2	1.1 J	<2	**11**	<6	ND
	9/17/2019	176	<5	<5	**30**	8.9	<5	<5	**91**	<100	<5	<5	7.4	<5	<5	<5	39	<5	<5	<5	<5	<5	<5	<5	<15	ND
	10/14/2020	36	<1	<1	3	6.2	<1	<1	<2	<20	<1	<1	4.7	<1	<1	<1	20	<1	<1	<1	<1	<1	<1	**2.5**	<2	ND
	10/27/2021	106	<1	<1	**18**	5.2	0.53 J	<1	**53**	<20	<1	<1	2.0	<1	<1	<1	27	<1	<1	<1	<1	<1	<1	**1.1**	<2	ND
	10/13/2022	146	<1	<1	**21**	6.1	0.61 J	<1	**83**	<20	<1	<1	3.9	<1	<1	<1	29	<1	1.0	<1	<1	<1	<1	**1.2**	<3	ND
	11/28/2023	139	<1	<1	**6.5**	12.0	0.41 J	<1	0.47 J	<20	0.43 J	<1	46.0	<1	<1	<1	43	<1	<1	<1	0.41 J	0.66 J	0.41 J	**29.0**	<3	ND
	11/12/2024	6	<1	<1	<1	<1	<1	<1	<1	<20	<1	<1	2.0	<1	<1	<1	2.7	<1	<1	<1	<1	<1	<1	**1.4**	<3	ND
PW-16D																										
	10/28/2015	3,527	51	<20	**480**	190	**18**	<20	**772**	<100	**22**	<20	**1,000**	44	<20	<20	**790**	<20	<20	<20	<20	<20	<20	**160**	<60	ND
	11/15/2016	2,461	46	<10	**390**	180	**23**	<10	**650**	<200	**12**	<10	**520**	<10	<10	<10	**540**	<10	<10	3.2 J	<10	<10	2.1 J	**100**	<30	ND
	10/12/2017	4	<1	<1	1.5 J	0.47 J	<1	<1	3.9 J	13 J	<1	<1	2.4 J	<1	<1	<1	2.5 J	<1	<1	<1	<1	<1	<1	0.66 J	<3	ND
	11/29/2017	2,284	21	<5	**340**	76	**16**	<5	**870**	<100	**14**	<5	**490**	14	<5	<5	**370**	<5	<5	2.4 J	<5	<5	<5	**73**	<15	ND
	11/5/2018	195	1.5	<1	**40**	12	**0.96 J**	<1	**84**	<20	<1	<1	2.3	<1	<1	<1	53	<1	<1	<1	<1	<1	0.46 J	**1.8**	<3	ND
	9/17/2019	99	0.51 J	<1	**20**	4.5	<1	<1	**28**	<20	0.45 J	<1	22	3.3	<1	<1	20	<1	<1	<1	<1	<1	<1	**1.3**	<3	ND
	10/14/2020	68	<1	<1	4.6	9.1	<1	<1	<2	<20	<1	<1	17	1.2	<1	<1	30	<1	<1	<1	<1	<1	<1	**5.8**	<2	ND
	10/27/2021	127	<1	<1	**20.0**	7.1	<1	<1	**23**	<20	<1	<1	40	1.5	<1	<1	32	<1	<1	<1	<1	<1	<1	**3.6**	<2	ND
	10/13/2022	174	<1	<1	**23.0**	9.9	0.62 J	<1	**45**	<20	0.7 J	<1	**50**	<1	<1	<1	39	<1	0.53 J	<1	<1	<1	<1	**5.3**	<3	ND
	11/28/2023	126	<1	<1	**10.0**	2.0	0.59 J	<1	<1	<20	**1.0**	<1	**86**	<1	<1	<1	11	<1	<1	<1	<1	0.55 J	<1	**15.0**	<3	ND
	11/12/2024	11	<1	<1	1.2	1.9	<1	<1	<1	<20	<1	<1	0.36 J	<1	<1	<1	8	<1	<1	<1	<1	<1	<1	<1	<3	ND
W-4A																										
	10/27/2015	8,952	**270**	<100	**1,400**	**640**	<100	<100	**962**	<500	**210**	<100	**110**	540	<100	<100	**2,500**	<100	<100	<100	120	<100	76 J	**2,200**	<300	ND
	11/16/2016	9,410	**380**	<100	**2,000**	**690**	**67**	<100	**660**	<2000	**260**	<100	**140**	560	<100	<100	**2,400**	<100	**220**	<100	72 J	<100	92 J	**2,100**	<300	ND
	10/11/2017	2,832	24	<10	**440**	190	**36**	<10	**630**	<200	**40**	<10	39	66	<10	<10	**570**	<10	<10	**4.3 J**	<10	<10	**5.3**	**780**	12	ND
	10/31/2018	1,400	33	<5	**260**	110	**7.6**	<5	**210**	<100	**14**	<5	11	30	<5	<5	**500**	<5	<5	**3.4 J**	<5	2.4 J	**28**	**190**	<15	ND
	9/11/2019	435	12	<1	**83**	33	**2.8**	<1	**54**	<20	**7.5**	<1	4.4	13	<1	<1	**130**	<1	0.45 J	0.81 J	<1	1.3	**6**	**88**	<3	ND
	10/9/2020	344	13	<2	**74**	35	**2.3**	<2	**30**	<40	**3.1**	<2	6.7	4	<2	<2	**120**	<2	<2	<2	1.7 J	0.88 J	**5.5**	**50**	<4	ND
	10/27/2021	513	24	<5	**110**	43	**2.8**	<5	**54**	<100	**6.6**	<5	<5	4.5 J	<5	<5	**170**	<5	<5	<5	<5	<5	<5	**98**	<15	ND
	10/18/2022	125	5.2	<1	**31**	8.8	**0.93 J**	<1	**10**	<20	**0.99 J**	<1	3.9	<1	<1	<1	34	<1	1.1	**1.2**	<1	0.51 J	2.1	**25**	<3	ND
	11/28/2023	83	1.3	<1	**20**	7.2	**0.55 J**	<1	**11**	<20	**0.86 J**	<1	1.2	<1	<1	<1	20	<1	<1	0.59 J	<1	0.66 J	2.5	**17**	<3	ND
	11/6/2024	51	0.84 J	<1	**11**	15.0	**0.61 J**	<1	**10**	<20	<1	<1	<1	<1	<1	<1	10	<1	<1	**0.70 J**	<1	0.95 J	2.3	<1	<3	ND
PW-SF1																										
	10/27/2015	41,479	**1,100**	<100	**3,200**	**3,600**	**780**	<100	**3,550**	<500	<100	<100	**2,100**	790	**160**	<100	**18,000**	<100	<100	**420**	**800**	<100	**2,200**	**4,700**	<300	79 J
	11/17/2016	48,530	**1,800**	<500	**4,400**	**4,900**	**780**	<500	**3,600**	<10000	<500	<500	**2,200**	450 J	280 J	<500	**22,000**	<500	<500	**660**	**690**	<500	**2,800**	**4,700**	<1500	ND
	10/11/2017	43,254	**1,300**	<100	**3,900**	**4,000**	**880**	<100	**3,600**	<2000	<100	<100	**1,900**	340	180	<100	**19,000**	<100	<100	**650**	**530**	<100	**2,900**	**4,000**	43 J	74
	10/30/2018	40,063	**1,200**	<100	**3,400**	**3,600**	**660**	<100	**2,800**	<2000	<100	<100	**2,100**	<100	110	<100	**18,000**	<100	<100	**680**	**660**	<100	**3,100**	**3,600**	45 J	63 J
	9/10/2019	43,240	**3,100**	<200	**3,500**	**4,100**	**600**	<200	**3,200**	<4000	<200	<200	**1,800**	<200	120	<200	**20,000**	<200	**160**	**830**	530	<200	**2,900**	**2,400**	<600	ND
	10/9/2020	42,870	130 J	<200	**6,400**	**4,300**	<200	<200	**2,400**	<4000	<200	<200	**1,900**	970	<200	<200	**14,000**	<200	**260**	<200	**640**	<200	<200	**12,000**	<600	ND
	10/27/2021	61,780	**3,300**	<500	**6,200**	**5,300**	<500	<500	**2,300**	<10000	<500	<500	**2,100**	<500	<500	<500	**38,000**	<500	**260 J**	<500	**720**	<500	<500	**3,200**	<1500	400
	10/18/2022	160,420	**25,000**	<1000	**15,000**	**12,000**	**3,100**	<1000	**6,900**	<20000	<1000	<1000	**22,000**	1,300	<1000	<1000	**39,000**	<1000	**5,800**	**4,500**	**5,100**	<1000	**2,100**	**11,000**	**710**	6,200
	11/28/2023	78,333	**13,000**	<1000	**7,100**	**6,700**	**1,100**	<1000	**5,200**	530 J	**120**	<1000	**14,000**	470 J	<1000	<1000	**17,000**	170	**1,700**	**960**	**2,200**	<1000	**1,300**	**6,100**	**570**	113
	11/12/2024	48,886	**8,500**	**12.0**	**3,800**	**3,200**	**710**	<1.0	**3,900**	630.0	**76**	<1.0	**8,900**	86	26	1.1	**12,000**	79	<1.0	**450**	**1,400**	25.0	**1,300**	**3,300**	350	141

ug/l = micrograms per liter *J = Estimated Value* ND = Not Detected NA - Not Analyzed *Bold type indicates value exceeds NC 2L ground water standard*

TABLE 2

SURFACE WATER ANALYTICAL RESULTS - VOCs[1]

SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample ID	Sample Date	1,1,1-Trichloroethane[2]	1,1-Dichloroethane[2]	1,1-Dichloroethene[3]	1,2-Dichloroethane[3]	1,4-Dioxane[2]	Acetone[2]	Benzene[4]	Chlorobenzene[4]	Chloroethane	Chloromethane[2]	cis-1,2-Dichloroethene[2]	Methylene Chloride[3]	Tetrachloroethene[4]	Toluene[4]	trans-1,2-Dichloroethene[2]	Trichloroethene[4]	Vinyl Chloride[4]	Xylenes (Total)[2]	2-Butanone[2]
		(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
NC 2B Std. (WS-IV)		**2500**	**6**	**300**	**9.90**	**0.35**	**3100**	**1.19**	**488**	**NE**	**3**	**60**	**11000**	**0.7**	**11**	**290**	**2.5**	**0.025**	**6200**	**20000**
Northern Intermittent Stream																				
SW-1	10/22/2015	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/17/2016	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/1/2017	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/13/2017	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/29/2017	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/7/2018	<1	<1	<1	<1	**12**	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
	1/10/2019	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
	9/18/2019	Dry																		
	10/22/2020	Dry																		
	10/21/2021	Dry																		
	10/19/2022	Dry																		
	11/30/2023	Dry																		
	11/7/2024	<1	<1	<1	<1	<0.32	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10
SW-2	10/22/2015	Dry	--	--	--	**--**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/17/2016	Dry	--	--	--	**--**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/1/2017	Dry	--	--	--	**--**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/13/2017	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
	11/29/2017	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/7/2018	<1	<1	<1	<1	**22**	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
	1/10/2019	<1	<1	<1	<1	**15**	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
	9/18/2019	Dry																		
	10/22/2020	Dry																		
	10/21/2021	Dry																		
	10/19/2022	<1	<1	<1	<1	**14**	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
	11/30/2023	Dry																		
	11/6/2024	<1	<1	<1	<1	**9.3**	<1	<1	<1	<1	<1	0.27 J	<1	<1	<1	<1	<1	<1	<1	<10

TABLE 2
SURFACE WATER ANALYTICAL RESULTS - VOCs[1]
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample ID	Sample Date	1,1,1-Trichloroethane[2]	1,1-Dichloroethane[2]	1,1-Dichloroethene[3]	1,2-Dichloroethane[3]	1,4-Dioxane[2]	Acetone[2]	Benzene[4]	Chlorobenzene[4]	Chloroethane	Chloromethane[2]	cis-1,2-Dichloroethene[2]	Methylene Chloride[3]	Tetrachloroethene[4]	Toluene[4]	trans-1,2-Dichloroethene[2]	Trichloroethene[4]	Vinyl Chloride[4]	Xylenes (Total)[2]	2-Butanone[2]
		(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
NC 2B Std. (WS-IV)		**2500**	**6**	**300**	**9.90**	**0.35**	**3100**	**1.19**	**488**	**NE**	**3**	**60**	**11000**	**0.7**	**11**	**290**	**2.5**	**0.025**	**6200**	**20000**
Southern Intermittent Stream																				
SW-3	10/22/2015	27	81	37	**2.7**	**104**	<5	0.88 J	<1	**24**	<1	140	**81**	**4.8**	<1	0.87 J	**19**	**28**	<3	<5
	11/17/2016	<1	<1	<1	<1	**16**	28 J	<1	<1	<1	<1	0.44 J	<1	<1	<1	<1	<1	<1	<3	<5
	2/1/2017	NA	NA	NA	NA	**12**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/13/2017	<1	<1	<1	<1	**9.7 J**	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
	11/29/2017	NA	NA	NA	NA	**15**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/7/2018	<1	1.2	<1	<1	**13**	<20	<1	<1	<1	<1	**2.3**	<1	<1	<1	<1	<1	<1	<3	<5
	9/18/2019	<1	<1	<1	<1	**1.7**	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<1
	10/22/2020	<1	0.89 J	<1	<1	**3.9**	<20	<1	<1	<1	<1	1.6	<1	<1	<1	<1	<1	<1	<2	<1
	10/21/2021	0.95 J	2.1	<1	<1	**4.6**	<20	<1	<1	<1	<1	2.6	<1	<1	<1	<1	<1	<1	<2	<1
	10/19/2022	<1	0.88 J	<1	<1	**2.1**	<20	<1	<1	<1	<1	1.2	<1	<1	<1	<1	<1	<1	<3	<5
	11/30/2023	<1	<1	<1	<1	**2.5**	<20	<1	<1	<1	<1	0.59 J	<1	<1	<1	<1	<1	<1	>3	<10
	11/7/2024	<1	<1	<1	<1	**3.7**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10
SW-4	10/22/2015	<1	<1	<1	<1	**4.1 J**	<5	<1	0.82 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
	11/21/2016	<1	<1	<1	<1	**18**	<10	<1	1.3 J	0.70 J	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
	2/1/2017	NA	NA	NA	NA	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/13/2017	86	710	280	**63**	**1700**	<200	**20**	**840**	**120**	<10	**1100**	<10	6.7 J	4.8 J	4.3 J	4.1 J	**1000**	9.1	<50
	11/29/2017	120	770	**370**	**58**	**1500**	<200	**24**	**950**	**65**	<10	**1400**	<10	**15**	6.7	4.1	**22**	**970**	14	<50
	11/7/2018	<1	25	13	**2.5**	**48**	<20	<1	23	2.4	<1	40	<1	<1	<1	<1	<1	**45**	<3	<5
	9/18/2019	51	400	120	**34**	**1800**	<200	<10	**820**	**250**	<10	**540**	<10	**4.4**	4.9 J	7.1 J	<1	**420**	7.7 J	<50
	10/22/2020	7.7	52	27	**4.7**	**79**	<20	0.41 J	6	6.6	<1	100	<1	**1**	<1	<1	<1	**73**	0.47 J	<5
	10/21/2021	170	**1100**	**670**	**120**	**1500**	<20	0.41 J	**1700**	100	<1	**3300**	<1	**18**	**11**	<1	<1	**1500**	<1	<5
	10/19/2022	1.4	**12**	4.2	1.1	**14**	<20	<1	1.8	<1	<1	18	<1	<1	<1	<1	<1	**19**	<3	<5
	11/30/2023	25	**250**	90	27	**300**	<20	8.8	400	73	<1	330	<1	2.3	3.2	2	2.3	**270**	8.1	<10
	11/6/2024	<1	1.3	<1	<1	**47**	<1	<1	11	<1	<1	0.79 J	<1	<1	<1	<1	<1	**1.2**	<1	<10
SW-5	10/22/2015	<1	<1	<1	<1	1.8 J	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
	11/17/2016	<1	<1	<1	<1	3.1 J	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
	2/1/2017	NA	NA	NA	NA	**8.3**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/13/2017	<1	<1	<1	<1	**14.0**	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
	11/29/2017	NA	NA	NA	NA	**8.6**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/7/2018	<1	<1	<1	<1	**23.0**	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
	9/18/2019	<1	<1	<1	<1	**5.8**	<20	<1	<1	<1	<1	0.63 J	<1	<1	<1	<1	<1	0.46 J	<3	<5
	10/22/2020	<1	<1	<1	<1	**3.5**	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<5
	10/21/2021	<1	<1	<1	<1	**2.2**	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<5
	10/19/2022	<1	<1	<1	<1	**1.6**	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
	11/30/2023	<1	<1	<1	<1	**7.6**	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
	11/7/2024	<1	<1	<1	<1	**3.3**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10

TABLE 2

SURFACE WATER ANALYTICAL RESULTS - VOCs[1]

SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample ID	Sample Date	1,1,1-Trichloroethane[2]	1,1-Dichloroethane[2]	1,1-Dichloroethene[3]	1,2-Dichloroethane[3]	1,4-Dioxane[2]	Acetone[2]	Benzene[4]	Chlorobenzene[4]	Chloroethane	Chloromethane[2]	cis-1,2-Dichloroethene[2]	Methylene Chloride[3]	Tetrachloroethene[4]	Toluene[4]	trans-1,2-Dichloroethene[2]	Trichloroethene[4]	Vinyl Chloride[4]	Xylenes (Total)[2]	2-Butanone[2]
		(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
NC 2B Std. (WS-IV)		**2500**	**6**	**300**	**9.90**	**0.35**	**3100**	**1.19**	**488**	**NE**	**3**	**60**	**11000**	**0.7**	**11**	**290**	**2.5**	**0.025**	**6200**	**20000**
Randleman Lake (formerly the Deep River)																				
SW-6																				
Surface	10/22/2015	<1	<1	<1	<1	<2	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	10/22/2015	<1	<1	<1	<1	<2	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Surface	11/21/2016	<1	<1	<1	<1	<2	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	11/21/2016	<1	<1	<1	<1	<2	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Surface	2/1/2017	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bottom	2/1/2017	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Surface	10/13/2017	<1	<1	<1	<1	**13**	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	10/13/2017	<1	<1	<1	<1	**14**	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Surface	11/29/2017	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bottom	11/29/2017	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Surface	11/7/2018	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	11/7/2018	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Surface	9/18/2019	<1	<1	<1	<1	**1.6 J**	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	9/18/2019	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Surface	10/22/2020	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<5
Bottom	10/22/2020	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<5
Surface	10/21/2021	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<5
Bottom	10/21/2021	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<5
Surface	10/20/2022	<1	<1	<1	<1	<0.3	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	10/20/2022	<1	<1	<1	<1	<0.3	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Surface	11/30/2023	<1	<1	<1	<1	**3.1**	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	11/30/2023	<1	<1	<1	<1	<0.3	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Surface	11/7/2024	<1	<1	<1	<1	<0.32	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10
Bottom	11/7/2024	<1	<1	<1	<1	<0.32	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10

TABLE 2

SURFACE WATER ANALYTICAL RESULTS - VOCs[1]

SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample ID	Sample Date	1,1,1-Trichloroethane[2]	1,1-Dichloroethane[2]	1,1-Dichloroethene[3]	1,2-Dichloroethane[3]	1,4-Dioxane[2]	Acetone[2]	Benzene[4]	Chlorobenzene[4]	Chloroethane	Chloromethane[2]	cis-1,2-Dichloroethene[2]	Methylene Chloride[3]	Tetrachloroethene[4]	Toluene[4]	trans-1,2-Dichloroethene[2]	Trichloroethene[4]	Vinyl Chloride[4]	Xylenes (Total)[2]	2-Butanone[2]
		(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
NC 2B Std. (WS-IV)		**2500**	**6**	**300**	**9.90**	**0.35**	**3100**	**1.19**	**488**	**NE**	**3**	**60**	**11000**	**0.7**	**11**	**290**	**2.5**	**0.025**	**6200**	**20000**
Randleman Lake (formerly the Deep River)																				
SW-7																				
Surface	10/22/2015	<1	<1	<1	<1	1.43 J	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	10/22/2015	<1	<1	<1	<1	1.60 J	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Surface	11/21/2016	<1	<1	<1	<1	**27**	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	11/21/2016	<1	<1	<1	<1	**28**	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	12/28/2016	NA	NA	NA	NA	**10**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Surface	2/1/2017	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bottom	2/1/2017	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Surface	10/13/2017	<1	<1	<1	<1	**26**	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	10/13/2017	<1	<1	<1	<1	**20**	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Surface	11/29/2017	NA	NA	NA	NA	**8.9**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bottom	11/29/2017	NA	NA	NA	NA	**9.1**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Surface	11/7/2018	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	11/7/2018	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Surface	9/18/2019	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	9/18/2019	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Surface	10/22/2020	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<5
Bottom	10/22/2020	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<5
Surface	10/21/2021	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<5
Bottom	10/21/2021	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<5
Surface	10/20/2022	<1	<1	<1	<1	<0.3	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	10/20/2022	<1	<1	<1	<1	<0.3	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Surface	11/30/2023	<1	<1	<1	<1	<0.3	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	11/30/2023	<1	<1	<1	<1	<0.3	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Surface	11/8/2024	<1	<1	<1	<1	**0.86**	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10
Bottom	11/8/2024	<1	<1	<1	<1	**0.75**	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10

TABLE 2

SURFACE WATER ANALYTICAL RESULTS - VOCs[1]

SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample ID	Sample Date	1,1,1-Trichloroethane[2]	1,1-Dichloroethane[2]	1,1-Dichloroethene[3]	1,2-Dichloroethane[3]	1,4-Dioxane[2]	Acetone[2]	Benzene[4]	Chlorobenzene[4]	Chloroethane	Chloromethane[2]	cis-1,2-Dichloroethene[2]	Methylene Chloride[3]	Tetrachloroethene[4]	Toluene[4]	trans-1,2-Dichloroethene[2]	Trichloroethene[4]	Vinyl Chloride[4]	Xylenes (Total)[2]	2-Butanone[2]
		(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
NC 2B Std. (WS-IV)		**2500**	**6**	**300**	**9.90**	**0.35**	**3100**	**1.19**	**488**	**NE**	**3**	**60**	**11000**	**0.7**	**11**	**290**	**2.5**	**0.025**	**6200**	**20000**
Randleman Lake (formerly the Deep River)																				
SW-DRP-2																				
Surface	10/22/2015	<1	<1	<1	<1	**3.02 J**	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	10/22/2015	<1	<1	<1	<1	**3.11 J**	<5	<1	0.47 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Surface	11/21/2016	<1	<1	<1	<1	**18**	<10	<1	1.3 J	0.59 J	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	11/21/2016	<1	<1	<1	<1	**18**	<10	<1	1.3 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	12/28/2016	NA	NA	NA	NA	**7.2**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Surface	2/1/2017	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bottom	2/1/2017	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Surface	10/13/2017	<1	<1	<1	<1	**19**	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	10/13/2017	<1	<1	<1	<1	**21**	<20	<1	0.53 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Surface	11/29/2017	NA	NA	NA	NA	**3.4**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bottom	11/29/2017	NA	NA	NA	NA	**3.4**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Surface	11/7/2018	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	11/7/2018	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Surface	9/18/2019	<1	<1	<1	<1	**1.4 J**	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	9/8/2019	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Surface	10/22/2020	<1	<1	<1	<1	0.83 J	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<5
Bottom	10/22/2020	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<5
Surface	10/21/2021	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<5
Bottom	10/21/2021	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<5
Surface	10/20/2022	<1	<1	<1	<1	<0.3	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	10/20/2022	<1	<1	<1	<1	<0.3	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Surface	11/30/2023	<1	<1	<1	<1	<0.3	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	11/30/2023	<1	<1	<1	<1	<0.3	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Surface	11/8/2024	<1	<1	<1	<1	**0.89**	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10
Bottom	11/8/2024	<1	<1	<1	<1	**0.49**	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10

[1] *All Results in ug/l or parts per billion*

[2] *NC In-Stream Target Value*

[3] *EPA National Recommended Water Quality Criteria*

[4] *NC 2B Surface Water Quality Standard*

Bold type indicates value exceeds standard

ND = Not Detected

NE = Not Established

NA = Not Analyzed

J = Estimated value

TABLE 3
FIELD PARAMETER DATA - GROUND WATER AND SURFACE WATER
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

Monitoring Station	Sample Date	Sample Time	Conductivity	Temperature C	pH	DO	Turbidity	GW Depth	GW Elev.
MW-1	11/6/2024	9:35	480	18.4	7.6	7.9	3.7	24.39	765.95
MW-3C	11/6/2024	12:55	686	19.1	6.9	2.4	1.0	14.83	677.91
MW-6	11/13/2024	9:15	837	12.4	6.5	3.3	6.8	63.97	697.50
MW-10	11/7/2024	8:00	710	18.4	6.6	3.2	18.7	17.36	677.65
MW-12A	11/6/2024	12:25	1368	19.6	6.2	2.2	3.2	10.63	682.44
MW-12B	11/11/2024	10:55	1416	17.4	7.1	2.4	4.3	11.07	682.79
MW-12D	11/11/2024	11:15	142	17.3	9.1	2.5	9.1	4.12	690.09
MW-15A	11/11/2024	10:25	431	16.5	6.5	3.4	9.8	23.09	741.24
OW-DR2	11/11/2024	11:40	601	17.6	7.7	2.4	3.3	16.28	679.59
OW-LFS2	11/13/2024	7:40	2560	11.6	6.8	4.0	8.3	39.47	659.98
PW-3D	11/7/2024	8:30	429	17.7	7.8	3.0	16.1	50.81	687.79
PW-4I	11/12/2024	12:30	2074	17.5	6.3	2.3	9.6	42.16	692.84
PW-5D	11/11/2024	12:05	721	17.6	7.8	2.9	6.1	15.82	680.45
PW-6I	11/6/2024	13:40	1198	18.8	6.3	2.9	1.0	16.41	681.00
PW-6D	11/12/2024	13:25	477	16.5	8.1	2.9	4.8	16.25	680.54
PW-10I	11/13/2024	8:10	2250	11.6	6.5	3.7	1.7	17.80	678.17
PW-10D	11/13/2024	8:30	240	12.4	9.3	4.0	3.6	15.35	681.91
PW-12I	11/13/2024	9:35	692	12.5	7.1	3.9	8.1	26.15	723.33
PW-13I	11/12/2024	8:25	969	14.1	7.2	2.2	4.1	58.08	680.93
PW-14D	11/12/2024	10:35	5310	15.3	10.4	2.2	7.6	27.46	659.04
PW-15D	11/12/2024	9:45	65	15.5	7.5	2.9	9.2	5.15	680.65
PW-16D	11/12/2024	9:35	71	15.5	7.7	2.4	2.1	5.78	680.90
PW-SF1	11/12/2024	12:50	1491	16.5	6.7	3.3	3.3	59.79	672.40
W-4A	11/6/2024	10:25	208	18.5	6.6	3.1	4.7	14.82	697.82
Surface Water									
SW-1	11/7/2024	11:00	379	19.0	7.3	3.2	NA	NA	NA
SW-2	11/6/2024	10:30	487	17.8	6.7	3.5	NA	NA	NA
SW-3	11/7/2024	11:30	355	19.3	7.3	8.2	NA	NA	NA
SW-4	11/6/2024	13:10	677	19.1	7.0	1.5	NA	NA	NA
SW-5	11/7/2024	11:20	397	20.3	6.9	5.9	NA	NA	NA
SW-6s (1')	11/7/2024	12:35	211	22.5	7.4	12.5	NA	NA	NA
SW-6d (7.5')	11/7/2024	12:40	205	19.5	7.3	7.2	NA	NA	NA
SW-7s (1')	11/8/2024	10:00	329	19.1	7.2	11.4	NA	NA	NA
SW-7d (14')	11/8/2024	10:00	224	17.6	7.2	3.9	NA	NA	NA
SW-DRP-2s (1')	11/8/2024	9:30	312	18.7	7.3	10.8	NA	NA	NA
SW-DRP-2d (9')	11/8/2024	9:30	230	17.9	7.2	5.8	NA	NA	NA

NA - Not Applicable

TABLE 4
*MONITORING WELL LATITUDE/LONGITUDE, DEPTHS AND ELEVATIONS **
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Facility Name	Seaboard Chemical/Riverdale Drive Landfill								
EPA ID Number: NCD 071 574 164									
Well ID	Type	Well Use	Northing	Easting	Reference	Source of Information		TOC Elevation	Well Depth
MW-1	well	monitoring	801318.45	1729231.88	state plane coord	Jamestown Engineering		790.34 ***	57.7
MW-3C	well	monitoring	801265.20	1731350.08	state plane coord	Jamestown Engineering		692.74	57
MW-6	well	monitoring	799702.65	1731990.93	state plane coord	Jamestown Engineering		761.47	110
MW-10	well	monitoring	800464.20	1732378.92	state plane coord	Jamestown Engineering		695.01	28
MW-12A	well	monitoring	801788.63	1730912.94	state plane coord	Jamestown Engineering		693.07	20
MW-12B	well	monitoring	801780.30	1730911.77	state plane coord	Jamestown Engineering		693.86	58
MW-12D	well	monitoring	801770.20	1730908.12	state plane coord	Jamestown Engineering		694.21	202
MW-15A	well	monitoring	800903.23	1730181.46	state plane coord	Jamestown Engineering		764.33	34
OW-DR2	well	monitoring	801266.66	1731357.68	state plane coord	Jamestown Engineering		695.87	186
OW-DR3	well	monitoring	801185.56	1731735.15	state plane coord	Jamestown Engineering		702.93	160
OW-LFS-2	well	monitoring	800674.15	1732093.91	state plane coord	Jamestown Engineering		699.45	50
PW-3D	well	monitoring	800603.04	1730831.13	state plane coord	Jamestown Engineering		738.60	209.5
PW-4I	well	monitoring	800545.88	1731099.56	state plane coord	Jamestown Engineering		735.00 **	122
PW-5D	well	monitoring	801164.35	1731363.53	state plane coord	Jamestown Engineering		696.27	306.5
PW-6D	well	monitoring	801425.12	1732032.71	state plane coord	Jamestown Engineering		696.79	275
PW-6I	well	monitoring	801415.38	1732022.44	state plane coord	Jamestown Engineering		697.41	75
PW-10D	well	monitoring	800446.73	1732384.15	state plane coord	Jamestown Engineering		697.26	200
PW-10I	well	monitoring	800456.28	1732373.34	state plane coord	Jamestown Engineering		695.97	100
PW-12I	well	monitoring	799844.10	1730816.38	state plane coord	Jamestown Engineering		749.48	105
PW-13I	well	monitoring	801310.27	1730977.69	state plane coord	Jamestown Engineering		739.01	250
PW-14D	well	monitoring	801653.66	1731389.41	state plane coord	Jamestown Engineering		686.50 *	198.8
PW-15D	well	monitoring	801544.36	1731748.91	state plane coord	Jamestown Engineering		685.80	163.5
PW-16D	well	monitoring	801711.36	1732067.64	state plane coord	Jamestown Engineering		686.68	179
W-4A	well	monitoring	800667.98	1730625.66	state plane coord	Jamestown Engineering		712.64	38.5

* Elevation corrected for repairs performed on PW-14D during October 2015 monitoring event.
** Elevation corrected for repairs performed on PW-4I during November 2016 monitoring event.
*** Elevation corrected for repairs performed on MW-1 during November 2023 monitoring event.

APPENDIX A

Laboratory Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Gary Babb
Babb & Associates
2917 Beehnon Way
Raleigh, North Carolina 27603

Generated 11/22/2024 3:47:22 PM

JOB DESCRIPTION

Seaboard/Riverdale Drive MSWLF

JOB NUMBER

680-258309-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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 Environment Testing Southeast, LLC Project Manager.

Authorization

Generated
11/22/2024 3:47:22 PM

Authorized for release by
John Andros, Project Manager I
John.Andros@et.eurofinsus.com
(404)944-4744

Sample Summary

Client: Babb & Associates
Job ID: 680-258309-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-258309-1	4101-MW1	Ground Water	11/06/24 09:35	11/08/24 10:09
680-258309-2	4101-MW3C	Ground Water	11/06/24 12:55	11/08/24 10:09
680-258309-3	4101-MW10	Ground Water	11/07/24 08:00	11/08/24 10:09
680-258309-4	4101-MW12A	Ground Water	11/06/24 12:25	11/08/24 10:09
680-258309-5	4101-PW3D	Ground Water	11/07/24 08:30	11/08/24 10:09
680-258309-6	4101-PW6I	Ground Water	11/06/24 13:40	11/08/24 10:09
680-258309-7	4101-W4A	Ground Water	11/06/24 10:25	11/08/24 10:09
680-258309-8	4101-SW2	Surface Water	11/06/24 10:30	11/08/24 10:09
680-258309-9	4101-SW4	Surface Water	11/06/24 13:10	11/08/24 10:09
680-258309-10	4101-Duplicate	Ground Water	11/06/24 12:55	11/08/24 10:09
680-258309-11	4101-EB Hydrosleeve	Water	11/06/24 08:45	11/08/24 10:09
680-258309-12	4101- EB Low Flow	Water	11/06/24 09:05	11/08/24 10:09

Method Summary

Client: Babb & Associates
Job ID: 680-258309-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
8260D SIM 14D	Volatile Organic Compounds (GC/MS)	SW846	EET SAV
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	ELLE
1633	Solid-Phase Extraction (SPE)	EPA	ELLE
5030B	Purge and Trap	SW846	EET SAV
5030C	Purge and Trap	SW846	EET SAV

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 SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Definitions/Glossary

Client: Babb & Associates
Job ID: 680-258309-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Indicates an estimated value.
J2	Estimated value; value may not be accurate.
U	Indicates that the compound was analyzed for but not detected.

LCMS

Qualifier	Qualifier Description
J	Indicates an estimated value.
U	Indicates that the compound was analyzed for but not detected.

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

Job ID: 680-258309-1 — Eurofins Savannah

Job Narrative
680-258309-1

Receipt
The samples were received on 11/8/2024 10:09 AM. 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 time was 5.5°C.

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

PFAS
Method 1633_Final: Analyte Perfluoroundecanoic acid (PFUnA) and 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) were marked as non-detect for sample 4101-SW4 (680-258309-9) due to a detection below RL and failing ion ratio.

Method 1633_Final: Analyte 3-Perfluoropentylpropanoic acid (5:3 FTCA) was marked as non-detect for sample 4101-SW2 (680-258309-8) due to a detection below RL and failing ion ratio.

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

Detection Summary

Client: Babb & Associates
Job ID: 680-258309-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-MW1 — Lab Sample ID: 680-258309-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	68		2.9	0.95	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	57		1.5	0.44	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	68		1.5	0.37	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	71		1.5	0.58	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	410		1.5	0.66	ng/L	1		1633	Total/NA
Perfluorononanoic acid (PFNA)	30		1.5	0.37	ng/L	1		1633	Total/NA
Perfluorodecanoic acid (PFDA)	1.2	J	1.5	0.37	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	18		1.5	0.37	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	12		1.5	0.37	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	49		1.5	0.58	ng/L	1		1633	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	24		1.5	0.37	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	830		1.5	0.37	ng/L	1		1633	Total/NA

Client Sample ID: 4101-MW3C — Lab Sample ID: 680-258309-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	37		5.0	1.6	ug/L	5		8260D SIM 14D	Total/NA
1,1-Dichloroethane	14		1.0	0.33	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.53	J	1.0	0.33	ug/L	1		8260D	Total/NA
1,2-Dichloroethane	0.41	J	1.0	0.25	ug/L	1		8260D	Total/NA
Chlorobenzene	12		1.0	0.15	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.30	J	1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	4.4		1.0	0.40	ug/L	1		8260D	Total/NA
Perfluorobutanoic acid (PFBA)	190		3.0	0.96	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	110		1.5	0.44	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	270		1.5	0.37	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	82		1.5	0.59	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	260		1.5	0.67	ng/L	1		1633	Total/NA
Perfluorononanoic acid (PFNA)	5.8		1.5	0.37	ng/L	1		1633	Total/NA
Perfluorodecanoic acid (PFDA)	2.0		1.5	0.37	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	23		1.5	0.37	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	15		1.5	0.37	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	73		1.5	0.59	ng/L	1		1633	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	7.3		1.5	0.37	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	310		1.5	0.37	ng/L	1		1633	Total/NA
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	3.0		3.0	0.74	ng/L	1		1633	Total/NA
Perfluorooctanesulfonamide (PFOSA)	6.2		1.5	0.37	ng/L	1		1633	Total/NA
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.55	J	1.5	0.37	ng/L	1		1633	Total/NA
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	21		1.5	0.37	ng/L	1		1633	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	9.5		1.5	0.37	ng/L	1		1633	Total/NA
3-Perfluoropropylpropanoic acid (3:3 FTCA)	11		3.0	0.74	ng/L	1		1633	Total/NA
3-Perfluoropentylpropanoic acid (5:3 FTCA)	33		7.4	2.1	ng/L	1		1633	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: Babb & Associates
Job ID: 680-258309-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-MW10 — Lab Sample ID: 680-258309-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	25		2.0	0.64	ug/L	2		8260D SIM 14D	Total/NA
Perfluorobutanoic acid (PFBA)	220		3.0	0.97	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	91		1.5	0.45	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	290		1.5	0.37	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	110		1.5	0.59	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	300		1.5	0.67	ng/L	1		1633	Total/NA
Perfluorononanoic acid (PFNA)	6.8		1.5	0.37	ng/L	1		1633	Total/NA
Perfluorodecanoic acid (PFDA)	1.4	J	1.5	0.37	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	98		1.5	0.37	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	55		1.5	0.37	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	130		1.5	0.59	ng/L	1		1633	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	5.3		1.5	0.37	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	77		1.5	0.37	ng/L	1		1633	Total/NA
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.5	J	3.0	0.74	ng/L	1		1633	Total/NA
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.5	J	3.0	0.74	ng/L	1		1633	Total/NA
Perfluorooctanesulfonamide (PFOSA)	1.1	J	1.5	0.37	ng/L	1		1633	Total/NA
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.2	J	1.5	0.37	ng/L	1		1633	Total/NA
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	44		1.5	0.37	ng/L	1		1633	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.9		1.5	0.37	ng/L	1		1633	Total/NA
3-Perfluoropropylpropanoic acid (3:3 FTCA)	2.5	J	3.0	0.74	ng/L	1		1633	Total/NA
3-Perfluoropentylpropanoic acid (5:3 FTCA)	56		7.4	2.1	ng/L	1		1633	Total/NA

Client Sample ID: 4101-MW12A — Lab Sample ID: 680-258309-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	28		20	6.4	ug/L	20		8260D SIM 14D	Total/NA
1,2-Dichlorobenzene	0.50	J	1.0	0.31	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	2.5		1.0	0.31	ug/L	1		8260D	Total/NA
Chlorobenzene	9.3		1.0	0.15	ug/L	1		8260D	Total/NA
Perfluorobutanoic acid (PFBA)	450		2.9	0.95	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	150		1.5	0.44	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	400		1.5	0.37	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	170		1.5	0.59	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	750		1.5	0.66	ng/L	1		1633	Total/NA
Perfluorononanoic acid (PFNA)	20		1.5	0.37	ng/L	1		1633	Total/NA
Perfluorodecanoic acid (PFDA)	6.9		1.5	0.37	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	60		1.5	0.37	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	26		1.5	0.37	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	170		1.5	0.59	ng/L	1		1633	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	4.6		1.5	0.37	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	160		1.5	0.37	ng/L	1		1633	Total/NA
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	14		2.9	0.73	ng/L	1		1633	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Client Sample ID: 4101-MW12A (Continued)
Lab Sample ID: 680-258309-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	12		2.9	0.73	ng/L	1		1633	Total/NA
Perfluorooctanesulfonamide (PFOSA)	2.2		1.5	0.37	ng/L	1		1633	Total/NA
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.4	J	1.5	0.37	ng/L	1		1633	Total/NA
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	150		1.5	0.37	ng/L	1		1633	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	45		1.5	0.37	ng/L	1		1633	Total/NA
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.1	J	7.3	1.8	ng/L	1		1633	Total/NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.9		1.5	0.55	ng/L	1		1633	Total/NA
3-Perfluoropropylpropanoic acid (3:3 FTCA)	38		2.9	0.73	ng/L	1		1633	Total/NA
3-Perfluoropentylpropanoic acid (5:3 FTCA)	650		7.3	2.1	ng/L	1		1633	Total/NA
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	61		7.3	1.8	ng/L	1		1633	Total/NA

Client Sample ID: 4101-PW3D
Lab Sample ID: 680-258309-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	110		10	3.2	ug/L	10		8260D SIM 14D	Total/NA
1,1,2-Trichloroethane	9.8		1.0	0.32	ug/L	1		8260D	Total/NA
1,2-Dichlorobenzene	3.1		1.0	0.31	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	1.0		1.0	0.31	ug/L	1		8260D	Total/NA
2-Butanone	87		10	6.4	ug/L	1		8260D	Total/NA
2-Hexanone	3.2	J	10	3.2	ug/L	1		8260D	Total/NA
4-Methyl-2-pentanone	110		10	2.7	ug/L	1		8260D	Total/NA
Acetone	86		20	3.7	ug/L	1		8260D	Total/NA
Benzene	140		1.0	0.27	ug/L	1		8260D	Total/NA
Carbon disulfide	2.1	J	5.0	0.43	ug/L	1		8260D	Total/NA
Chloroform	2.6		1.0	0.27	ug/L	1		8260D	Total/NA
Ethylbenzene	18		1.0	0.20	ug/L	1		8260D	Total/NA
m,p-Xylenes	48		2.0	0.49	ug/L	1		8260D	Total/NA
o-Xylene	18		1.0	0.26	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	2.6		1.0	0.34	ug/L	1		8260D	Total/NA
Trichlorofluoromethane	33		1.0	0.33	ug/L	1		8260D	Total/NA
Vinyl chloride	71		1.0	0.40	ug/L	1		8260D	Total/NA
Xylenes (total)	66		3.0	0.23	ug/L	1		8260D	Total/NA
1,1,1-Trichloroethane - DL	330		100	21	ug/L	100		8260D	Total/NA
1,1-Dichloroethane - DL	440		100	33	ug/L	100		8260D	Total/NA
1,1-Dichloroethene - DL	960		100	33	ug/L	100		8260D	Total/NA
1,2-Dichloroethane - DL	11000		100	25	ug/L	100		8260D	Total/NA
Chlorobenzene - DL	14000		100	15	ug/L	100		8260D	Total/NA
cis-1,2-Dichloroethene - DL	370		100	25	ug/L	100		8260D	Total/NA
Methylene Chloride - DL	1000		500	320	ug/L	100		8260D	Total/NA
Tetrachloroethene - DL	1800		100	35	ug/L	100		8260D	Total/NA
Toluene - DL	570		100	25	ug/L	100		8260D	Total/NA
Trichloroethene - DL	3200		100	20	ug/L	100		8260D	Total/NA
Perfluorobutanoic acid (PFBA)	6.0		2.8	0.92	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	5.9		1.4	0.42	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	16		1.4	0.35	ng/L	1		1633	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 4101-PW3D (Continued) — Lab Sample ID: 680-258309-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	6.2		1.4	0.56	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	58		1.4	0.64	ng/L	1		1633	Total/NA
Perfluorononanoic acid (PFNA)	0.35	J	1.4	0.35	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	5.2		1.4	0.35	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	5.0		1.4	0.35	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	26		1.4	0.56	ng/L	1		1633	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	0.77	J	1.4	0.35	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	16		1.4	0.35	ng/L	1		1633	Total/NA
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.8	J	7.1	2.0	ng/L	1		1633	Total/NA

Client Sample ID: 4101-PW6I — Lab Sample ID: 680-258309-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	58		10	3.2	ug/L	10		8260D SIM 14D	Total/NA
1,1-Dichloroethane	8.3		1.0	0.33	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.49	J	1.0	0.33	ug/L	1		8260D	Total/NA
1,2-Dichloroethane	1.7		1.0	0.25	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	1.3		1.0	0.31	ug/L	1		8260D	Total/NA
Benzene	0.44	J	1.0	0.27	ug/L	1		8260D	Total/NA
Chlorobenzene	5.4		1.0	0.15	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	12		1.0	0.25	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.41	J	1.0	0.35	ug/L	1		8260D	Total/NA
Trichloroethene	0.84	J	1.0	0.20	ug/L	1		8260D	Total/NA
Perfluorobutanoic acid (PFBA)	530		2.9	0.95	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	130		1.5	0.44	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	460		1.5	0.37	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	88		1.5	0.58	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	190		1.5	0.66	ng/L	1		1633	Total/NA
Perfluorononanoic acid (PFNA)	2.4		1.5	0.37	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	62		1.5	0.37	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	29		1.5	0.37	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	63		1.5	0.58	ng/L	1		1633	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	1.2	J	1.5	0.37	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	22		1.5	0.37	ng/L	1		1633	Total/NA
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.7	J	2.9	0.73	ng/L	1		1633	Total/NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.51	J	1.5	0.37	ng/L	1		1633	Total/NA
3-Perfluoropropylpropanoic acid (3:3 FTCA)	1.2	J	2.9	0.73	ng/L	1		1633	Total/NA
3-Perfluoropentylpropanoic acid (5:3 FTCA)	3.6	J	7.3	2.0	ng/L	1		1633	Total/NA

Client Sample ID: 4101-W4A — Lab Sample ID: 680-258309-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	9.9		2.0	0.64	ug/L	2		8260D SIM 14D	Total/NA
1,1,1-Trichloroethane	0.84	J	1.0	0.21	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	11		1.0	0.33	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Client Sample ID: 4101-W4A (Continued) — Lab Sample ID: 680-258309-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	15		1.0	0.33	ug/L	1		8260D	Total/NA
1,2-Dichloroethane	0.61	J	1.0	0.25	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	10		1.0	0.25	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.70	J	1.0	0.35	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.95	J	1.0	0.34	ug/L	1		8260D	Total/NA
Trichloroethene	2.3		1.0	0.20	ug/L	1		8260D	Total/NA
Perfluorobutanoic acid (PFBA)	16		2.9	0.94	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	15		1.4	0.43	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	46		1.4	0.36	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	15		1.4	0.58	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	66		1.4	0.65	ng/L	1		1633	Total/NA
Perfluorononanoic acid (PFNA)	4.8		1.4	0.36	ng/L	1		1633	Total/NA
Perfluorodecanoic acid (PFDA)	2.9		1.4	0.36	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	34		1.4	0.36	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	39		1.4	0.36	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	360		1.4	0.58	ng/L	1		1633	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	15		1.4	0.36	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	710		1.4	0.36	ng/L	1		1633	Total/NA
Perfluorononanesulfonic acid (PFNS)	1.9		1.4	0.36	ng/L	1		1633	Total/NA

Client Sample ID: 4101-SW2 — Lab Sample ID: 680-258309-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	9.3		1.0	0.32	ug/L	1		8260D SIM 14D	Total/NA
cis-1,2-Dichloroethene	0.27	J	1.0	0.25	ug/L	1		8260D	Total/NA
Perfluorobutanoic acid (PFBA)	140		2.9	0.96	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	60		1.5	0.44	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	130		1.5	0.37	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	63		1.5	0.59	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	220		1.5	0.66	ng/L	1		1633	Total/NA
Perfluorononanoic acid (PFNA)	12		1.5	0.37	ng/L	1		1633	Total/NA
Perfluorodecanoic acid (PFDA)	3.9		1.5	0.37	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	36		1.5	0.37	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	13		1.5	0.37	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	34		1.5	0.59	ng/L	1		1633	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	3.3		1.5	0.37	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	180		1.5	0.37	ng/L	1		1633	Total/NA
Perfluorooctanesulfonamide (PFOSA)	4.2		1.5	0.37	ng/L	1		1633	Total/NA
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	46		1.5	0.37	ng/L	1		1633	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	30		1.5	0.37	ng/L	1		1633	Total/NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.3		1.5	0.55	ng/L	1		1633	Total/NA
3-Perfluoropropylpropanoic acid (3:3 FTCA)	5.7		2.9	0.74	ng/L	1		1633	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Babb & Associates
Job ID: 680-258309-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-SW4
Lab Sample ID: 680-258309-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	47		5.0	1.6	ug/L	5		8260D SIM 14D	Total/NA
1,1-Dichloroethane	1.3		1.0	0.33	ug/L	1		8260D	Total/NA
Chlorobenzene	11		1.0	0.15	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.79	J	1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	1.2		1.0	0.40	ug/L	1		8260D	Total/NA
Perfluorobutanoic acid (PFBA)	920		3.0	0.97	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	180		1.5	0.45	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	440		1.5	0.37	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	150		1.5	0.60	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	350		1.5	0.67	ng/L	1		1633	Total/NA
Perfluorononanoic acid (PFNA)	14		1.5	0.37	ng/L	1		1633	Total/NA
Perfluorodecanoic acid (PFDA)	13		1.5	0.37	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	230		1.5	0.37	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	65		1.5	0.37	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	260		1.5	0.60	ng/L	1		1633	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	14		1.5	0.37	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	540		1.5	0.37	ng/L	1		1633	Total/NA
Perfluorodecanesulfonic acid (PFDS)	0.53	J	1.5	0.37	ng/L	1		1633	Total/NA
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.2		3.0	0.75	ng/L	1		1633	Total/NA
Perfluorooctanesulfonamide (PFOSA)	5.6		1.5	0.37	ng/L	1		1633	Total/NA
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	19		1.5	0.37	ng/L	1		1633	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	21		1.5	0.37	ng/L	1		1633	Total/NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	7.8		1.5	0.56	ng/L	1		1633	Total/NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.40	J	1.5	0.37	ng/L	1		1633	Total/NA
3-Perfluoropropylpropanoic acid (3:3 FTCA)	11		3.0	0.75	ng/L	1		1633	Total/NA
3-Perfluoropentylpropanoic acid (5:3 FTCA)	30		7.5	2.1	ng/L	1		1633	Total/NA

Client Sample ID: 4101-Duplicate
Lab Sample ID: 680-258309-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	190		3.0	0.97	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	120		1.5	0.45	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	280		1.5	0.37	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	78		1.5	0.60	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	270		1.5	0.67	ng/L	1		1633	Total/NA
Perfluorononanoic acid (PFNA)	4.6		1.5	0.37	ng/L	1		1633	Total/NA
Perfluorodecanoic acid (PFDA)	2.6		1.5	0.37	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	23		1.5	0.37	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	17		1.5	0.37	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	81		1.5	0.60	ng/L	1		1633	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	7.1		1.5	0.37	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	300		1.5	0.37	ng/L	1		1633	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Client Sample ID: 4101-Duplicate (Continued)
Lab Sample ID: 680-258309-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.3	J	3.0	0.74	ng/L	1		1633	Total/NA
Perfluorooctanesulfonamide (PFOSA)	6.3		1.5	0.37	ng/L	1		1633	Total/NA
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	21		1.5	0.37	ng/L	1		1633	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	10		1.5	0.37	ng/L	1		1633	Total/NA
3-Perfluoropropylpropanoic acid (3:3 FTCA)	9.8		3.0	0.74	ng/L	1		1633	Total/NA
3-Perfluoropentylpropanoic acid (5:3 FTCA)	41		7.4	2.1	ng/L	1		1633	Total/NA

Client Sample ID: 4101-EB Hydrosleeve
Lab Sample ID: 680-258309-11

No Detections.

Client Sample ID: 4101- EB Low Flow
Lab Sample ID: 680-258309-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	2.0		1.4	0.36	ng/L	1		1633	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 4101-MW1
Lab Sample ID: 680-258309-1
Date Collected: 11/06/24 09:35
Matrix: Ground Water
Date Received: 11/08/24 10:09

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.0	U	1.0	0.32	ug/L			11/09/24 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*		*46 - 154*		*11/09/24 00:25*	*1*

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	1.0	U	1.0	0.36	ug/L			11/12/24 00:47	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/12/24 00:47	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/12/24 00:47	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/12/24 00:47	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/12/24 00:47	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/12/24 00:47	1
1,2,3-Trichloropropane	1.0	U	1.0	0.48	ug/L			11/12/24 00:47	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/12/24 00:47	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/12/24 00:47	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 00:47	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/12/24 00:47	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/12/24 00:47	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 00:47	1
2-Butanone	10	U	10	6.4	ug/L			11/12/24 00:47	1
2-Hexanone	10	U	10	3.2	ug/L			11/12/24 00:47	1
4-Methyl-2-pentanone	10	U	10	2.7	ug/L			11/12/24 00:47	1
Acetone	20	U	20	3.7	ug/L			11/12/24 00:47	1
Acrylonitrile	20	U	20	5.5	ug/L			11/12/24 00:47	1
Benzene	1.0	U	1.0	0.27	ug/L			11/12/24 00:47	1
Bromochloromethane	1.0	U	1.0	0.34	ug/L			11/12/24 00:47	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/12/24 00:47	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/12/24 00:47	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/12/24 00:47	1
Carbon disulfide	5.0	U	5.0	0.43	ug/L			11/12/24 00:47	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/12/24 00:47	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/12/24 00:47	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/12/24 00:47	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/12/24 00:47	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/12/24 00:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/12/24 00:47	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/12/24 00:47	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/12/24 00:47	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/12/24 00:47	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/12/24 00:47	1
Iodomethane	10	U	10	3.9	ug/L			11/12/24 00:47	1
m,p-Xylenes	2.0	U	2.0	0.49	ug/L			11/12/24 00:47	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/12/24 00:47	1
o-Xylene	1.0	U	1.0	0.26	ug/L			11/12/24 00:47	1
Styrene	1.0	U	1.0	0.27	ug/L			11/12/24 00:47	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/12/24 00:47	1
Toluene	1.0	U	1.0	0.25	ug/L			11/12/24 00:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/12/24 00:47	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/12/24 00:47	1

Client Sample ID: 4101-MW1
Lab Sample ID: 680-258309-1
Date Collected: 11/06/24 09:35
Matrix: Ground Water
Date Received: 11/08/24 10:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/12/24 00:47	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/12/24 00:47	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/12/24 00:47	1
Vinyl acetate	5.0	U J2	5.0	0.69	ug/L			11/12/24 00:47	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/12/24 00:47	1
Xylenes (total)	3.0	U	3.0	0.23	ug/L			11/12/24 00:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*		*11/12/24 00:47*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*11/12/24 00:47*	*1*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*11/12/24 00:47*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*11/12/24 00:47*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**68**		2.9	0.95	ng/L		11/13/24 15:32	11/16/24 18:51	1
Perfluoropentanoic acid (PFPeA)	**57**		1.5	0.44	ng/L		11/13/24 15:32	11/16/24 18:51	1
Perfluorohexanoic acid (PFHxA)	**68**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 18:51	1
Perfluoroheptanoic acid (PFHpA)	**71**		1.5	0.58	ng/L		11/13/24 15:32	11/16/24 18:51	1
Perfluorooctanoic acid (PFOA)	**410**		1.5	0.66	ng/L		11/13/24 15:32	11/16/24 18:51	1
Perfluorononanoic acid (PFNA)	**30**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 18:51	1
Perfluorodecanoic acid (PFDA)	**1.2**	**J**	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 18:51	1
Perfluoroundecanoic acid (PFUnA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 18:51	1
Perfluorododecanoic acid (PFDoA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 18:51	1
Perfluorotridecanoic acid (PFTrDA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 18:51	1
Perfluorotetradecanoic acid (PFTeDA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 18:51	1
Perfluorobutanesulfonic acid (PFBS)	**18**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 18:51	1
Perfluoropentanesulfonic acid (PFPeS)	**12**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 18:51	1
Perfluorohexanesulfonic acid (PFHxS)	**49**		1.5	0.58	ng/L		11/13/24 15:32	11/16/24 18:51	1
Perfluoroheptanesulfonic acid (PFHpS)	**24**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 18:51	1
Perfluorooctanesulfonic acid (PFOS)	**830**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 18:51	1
Perfluorononanesulfonic acid (PFNS)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 18:51	1
Perfluorodecanesulfonic acid (PFDS)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 18:51	1
Perfluorododecanesulfonic acid (PFDoS)	1.5	U	1.5	0.44	ng/L		11/13/24 15:32	11/16/24 18:51	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.9	U	2.9	0.73	ng/L		11/13/24 15:32	11/16/24 18:51	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.9	U	2.9	0.73	ng/L		11/13/24 15:32	11/16/24 18:51	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.9	U	2.9	0.73	ng/L		11/13/24 15:32	11/16/24 18:51	1
Perfluorooctanesulfonamide (PFOSA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 18:51	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 18:51	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 18:51	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 18:51	1

Client Sample ID: 4101-MW1
Lab Sample ID: 680-258309-1
Date Collected: 11/06/24 09:35
Matrix: Ground Water
Date Received: 11/08/24 10:09

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 18:51	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	7.3	U	7.3	1.8	ng/L		11/13/24 15:32	11/16/24 18:51	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	7.3	U	7.3	1.8	ng/L		11/13/24 15:32	11/16/24 18:51	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.5	U	1.5	0.55	ng/L		11/13/24 15:32	11/16/24 18:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 18:51	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 18:51	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 18:51	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 18:51	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 18:51	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 18:51	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 18:51	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	2.9	U	2.9	0.73	ng/L		11/13/24 15:32	11/16/24 18:51	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	7.3	U	7.3	2.0	ng/L		11/13/24 15:32	11/16/24 18:51	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	7.3	U	7.3	1.8	ng/L		11/13/24 15:32	11/16/24 18:51	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4-PFBA	*98.8*		*5 - 130*	*11/13/24 15:32*	*11/16/24 18:51*	*1*
13C5-PFPeA	*112*		*40 - 130*	*11/13/24 15:32*	*11/16/24 18:51*	*1*
13C5-PFHxA	*103*		*40 - 130*	*11/13/24 15:32*	*11/16/24 18:51*	*1*
13C4-PFHpA	*123*		*40 - 130*	*11/13/24 15:32*	*11/16/24 18:51*	*1*
13C8-PFOA	*112*		*40 - 130*	*11/13/24 15:32*	*11/16/24 18:51*	*1*
13C9-PFNA	*111*		*40 - 130*	*11/13/24 15:32*	*11/16/24 18:51*	*1*
13C6-PFDA	*105*		*40 - 130*	*11/13/24 15:32*	*11/16/24 18:51*	*1*
13C7-PFUnA	*91.4*		*30 - 130*	*11/13/24 15:32*	*11/16/24 18:51*	*1*
13C2-PFTeDA	*72.2*		*10 - 130*	*11/13/24 15:32*	*11/16/24 18:51*	*1*
13C3-PFBS	*102*		*40 - 135*	*11/13/24 15:32*	*11/16/24 18:51*	*1*
13C3-PFHxS	*112*		*40 - 130*	*11/13/24 15:32*	*11/16/24 18:51*	*1*
13C8-PFOS	*96.5*		*40 - 130*	*11/13/24 15:32*	*11/16/24 18:51*	*1*
13C8-PFOSA	*78.3*		*40 - 130*	*11/13/24 15:32*	*11/16/24 18:51*	*1*
d3-NMeFOSAA	*83.1*		*40 - 170*	*11/13/24 15:32*	*11/16/24 18:51*	*1*
d5-NEtFOSAA	*80.5*		*25 - 135*	*11/13/24 15:32*	*11/16/24 18:51*	*1*
13C2 4:2 FTS	*110*		*40 - 200*	*11/13/24 15:32*	*11/16/24 18:51*	*1*
13C2 6:2 FTS	*112*		*40 - 200*	*11/13/24 15:32*	*11/16/24 18:51*	*1*
13C2 8:2 FTS	*103*		*40 - 300*	*11/13/24 15:32*	*11/16/24 18:51*	*1*
13C3-HFPO-DA	*104*		*40 - 130*	*11/13/24 15:32*	*11/16/24 18:51*	*1*
D7-NMeFOSE	*54.0*		*10 - 130*	*11/13/24 15:32*	*11/16/24 18:51*	*1*
D9-NEtFOSE	*51.4*		*10 - 130*	*11/13/24 15:32*	*11/16/24 18:51*	*1*
d5-NEtPFOSA	*52.7*		*10 - 130*	*11/13/24 15:32*	*11/16/24 18:51*	*1*
d3-NMePFOSA	*57.8*		*10 - 130*	*11/13/24 15:32*	*11/16/24 18:51*	*1*
13C2 PFDoA	*77.7*		*10 - 130*	*11/13/24 15:32*	*11/16/24 18:51*	*1*

Client: Babb & Associates
Job ID: 680-258309-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-MW3C
Lab Sample ID: 680-258309-2
Date Collected: 11/06/24 12:55
Matrix: Ground Water
Date Received: 11/08/24 10:09

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**37**		5.0	1.6	ug/L			11/09/24 02:59	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*46 - 154*		*11/09/24 02:59*	*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	1.0	U	1.0	0.36	ug/L			11/12/24 01:09	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/12/24 01:09	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/12/24 01:09	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/12/24 01:09	1
1,1-Dichloroethane	**14**		1.0	0.33	ug/L			11/12/24 01:09	1
1,1-Dichloroethene	**0.53**	**J**	1.0	0.33	ug/L			11/12/24 01:09	1
1,2,3-Trichloropropane	1.0	U	1.0	0.48	ug/L			11/12/24 01:09	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/12/24 01:09	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/12/24 01:09	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 01:09	1
1,2-Dichloroethane	**0.41**	**J**	1.0	0.25	ug/L			11/12/24 01:09	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/12/24 01:09	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 01:09	1
2-Butanone	10	U	10	6.4	ug/L			11/12/24 01:09	1
2-Hexanone	10	U	10	3.2	ug/L			11/12/24 01:09	1
4-Methyl-2-pentanone	10	U	10	2.7	ug/L			11/12/24 01:09	1
Acetone	20	U	20	3.7	ug/L			11/12/24 01:09	1
Acrylonitrile	20	U	20	5.5	ug/L			11/12/24 01:09	1
Benzene	1.0	U	1.0	0.27	ug/L			11/12/24 01:09	1
Bromochloromethane	1.0	U	1.0	0.34	ug/L			11/12/24 01:09	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/12/24 01:09	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/12/24 01:09	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/12/24 01:09	1
Carbon disulfide	5.0	U	5.0	0.43	ug/L			11/12/24 01:09	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/12/24 01:09	1
Chlorobenzene	**12**		1.0	0.15	ug/L			11/12/24 01:09	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/12/24 01:09	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/12/24 01:09	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/12/24 01:09	1
cis-1,2-Dichloroethene	**0.30**	**J**	1.0	0.25	ug/L			11/12/24 01:09	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/12/24 01:09	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/12/24 01:09	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/12/24 01:09	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/12/24 01:09	1
Iodomethane	10	U	10	3.9	ug/L			11/12/24 01:09	1
m,p-Xylenes	2.0	U	2.0	0.49	ug/L			11/12/24 01:09	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/12/24 01:09	1
o-Xylene	1.0	U	1.0	0.26	ug/L			11/12/24 01:09	1
Styrene	1.0	U	1.0	0.27	ug/L			11/12/24 01:09	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/12/24 01:09	1
Toluene	1.0	U	1.0	0.25	ug/L			11/12/24 01:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/12/24 01:09	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/12/24 01:09	1

Client Sample ID: 4101-MW3C
Lab Sample ID: 680-258309-2
Date Collected: 11/06/24 12:55
Matrix: Ground Water
Date Received: 11/08/24 10:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/12/24 01:09	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/12/24 01:09	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/12/24 01:09	1
Vinyl acetate	5.0	U J2	5.0	0.69	ug/L			11/12/24 01:09	1
Vinyl chloride	**4.4**		1.0	0.40	ug/L			11/12/24 01:09	1
Xylenes (total)	3.0	U	3.0	0.23	ug/L			11/12/24 01:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*		*11/12/24 01:09*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*11/12/24 01:09*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*11/12/24 01:09*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*11/12/24 01:09*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**190**		3.0	0.96	ng/L		11/13/24 15:32	11/16/24 19:04	1
Perfluoropentanoic acid (PFPeA)	**110**		1.5	0.44	ng/L		11/13/24 15:32	11/16/24 19:04	1
Perfluorohexanoic acid (PFHxA)	**270**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:04	1
Perfluoroheptanoic acid (PFHpA)	**82**		1.5	0.59	ng/L		11/13/24 15:32	11/16/24 19:04	1
Perfluorooctanoic acid (PFOA)	**260**		1.5	0.67	ng/L		11/13/24 15:32	11/16/24 19:04	1
Perfluorononanoic acid (PFNA)	**5.8**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:04	1
Perfluorodecanoic acid (PFDA)	**2.0**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:04	1
Perfluoroundecanoic acid (PFUnA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:04	1
Perfluorododecanoic acid (PFDoA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:04	1
Perfluorotridecanoic acid (PFTrDA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:04	1
Perfluorotetradecanoic acid (PFTeDA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:04	1
Perfluorobutanesulfonic acid (PFBS)	**23**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:04	1
Perfluoropentanesulfonic acid (PFPeS)	**15**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:04	1
Perfluorohexanesulfonic acid (PFHxS)	**73**		1.5	0.59	ng/L		11/13/24 15:32	11/16/24 19:04	1
Perfluoroheptanesulfonic acid (PFHpS)	**7.3**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:04	1
Perfluorooctanesulfonic acid (PFOS)	**310**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:04	1
Perfluorononanesulfonic acid (PFNS)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:04	1
Perfluorodecanesulfonic acid (PFDS)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:04	1
Perfluorododecanesulfonic acid (PFDoS)	1.5	U	1.5	0.44	ng/L		11/13/24 15:32	11/16/24 19:04	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	3.0	U	3.0	0.74	ng/L		11/13/24 15:32	11/16/24 19:04	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	**3.0**		3.0	0.74	ng/L		11/13/24 15:32	11/16/24 19:04	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	3.0	U	3.0	0.74	ng/L		11/13/24 15:32	11/16/24 19:04	1
Perfluorooctanesulfonamide (PFOSA)	**6.2**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:04	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	**0.55**	**J**	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:04	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:04	1

Client Sample ID: 4101-MW3C
Lab Sample ID: 680-258309-2
Date Collected: 11/06/24 12:55
Matrix: Ground Water
Date Received: 11/08/24 10:09

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	**21**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	**9.5**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:04	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	7.4	U	7.4	1.9	ng/L		11/13/24 15:32	11/16/24 19:04	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	7.4	U	7.4	1.9	ng/L		11/13/24 15:32	11/16/24 19:04	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.5	U	1.5	0.56	ng/L		11/13/24 15:32	11/16/24 19:04	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:04	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:04	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:04	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:04	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:04	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:04	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:04	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	**11**		3.0	0.74	ng/L		11/13/24 15:32	11/16/24 19:04	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	**33**		7.4	2.1	ng/L		11/13/24 15:32	11/16/24 19:04	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	7.4	U	7.4	1.9	ng/L		11/13/24 15:32	11/16/24 19:04	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4-PFBA	*95.5*		*5 - 130*	*11/13/24 15:32*	*11/16/24 19:04*	*1*
13C5-PFPeA	*100*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:04*	*1*
13C5-PFHxA	*95.2*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:04*	*1*
13C4-PFHpA	*107*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:04*	*1*
13C8-PFOA	*121*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:04*	*1*
13C9-PFNA	*113*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:04*	*1*
13C6-PFDA	*112*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:04*	*1*
13C7-PFUnA	*103*		*30 - 130*	*11/13/24 15:32*	*11/16/24 19:04*	*1*
13C2-PFTeDA	*82.5*		*10 - 130*	*11/13/24 15:32*	*11/16/24 19:04*	*1*
13C3-PFBS	*106*		*40 - 135*	*11/13/24 15:32*	*11/16/24 19:04*	*1*
13C3-PFHxS	*113*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:04*	*1*
13C8-PFOS	*94.9*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:04*	*1*
13C8-PFOSA	*80.3*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:04*	*1*
d3-NMeFOSAA	*89.0*		*40 - 170*	*11/13/24 15:32*	*11/16/24 19:04*	*1*
d5-NEtFOSAA	*85.8*		*25 - 135*	*11/13/24 15:32*	*11/16/24 19:04*	*1*
13C2 4:2 FTS	*114*		*40 - 200*	*11/13/24 15:32*	*11/16/24 19:04*	*1*
13C2 6:2 FTS	*105*		*40 - 200*	*11/13/24 15:32*	*11/16/24 19:04*	*1*
13C2 8:2 FTS	*108*		*40 - 300*	*11/13/24 15:32*	*11/16/24 19:04*	*1*
13C3-HFPO-DA	*101*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:04*	*1*
D7-NMeFOSE	*62.4*		*10 - 130*	*11/13/24 15:32*	*11/16/24 19:04*	*1*
D9-NEtFOSE	*62.6*		*10 - 130*	*11/13/24 15:32*	*11/16/24 19:04*	*1*
d5-NEtPFOSA	*59.7*		*10 - 130*	*11/13/24 15:32*	*11/16/24 19:04*	*1*

Client Sample ID: 4101-MW3C
Lab Sample ID: 680-258309-2
Date Collected: 11/06/24 12:55
Matrix: Ground Water
Date Received: 11/08/24 10:09

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMePFOSA	62.7		10 - 130	11/13/24 15:32	11/16/24 19:04	1
13C2 PFDoA	86.8		10 - 130	11/13/24 15:32	11/16/24 19:04	1

Client: Babb & Associates
Job ID: 680-258309-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-MW10
Lab Sample ID: 680-258309-3
Date Collected: 11/07/24 08:00
Matrix: Ground Water
Date Received: 11/08/24 10:09

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	25		2.0	0.64	ug/L			11/09/24 10:19	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*46 - 154*		*11/09/24 10:19*	*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	1.0	U	1.0	0.36	ug/L			11/12/24 01:31	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/12/24 01:31	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/12/24 01:31	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/12/24 01:31	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/12/24 01:31	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/12/24 01:31	1
1,2,3-Trichloropropane	1.0	U	1.0	0.48	ug/L			11/12/24 01:31	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/12/24 01:31	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/12/24 01:31	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 01:31	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/12/24 01:31	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/12/24 01:31	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 01:31	1
2-Butanone	10	U	10	6.4	ug/L			11/12/24 01:31	1
2-Hexanone	10	U	10	3.2	ug/L			11/12/24 01:31	1
4-Methyl-2-pentanone	10	U	10	2.7	ug/L			11/12/24 01:31	1
Acetone	20	U	20	3.7	ug/L			11/12/24 01:31	1
Acrylonitrile	20	U	20	5.5	ug/L			11/12/24 01:31	1
Benzene	1.0	U	1.0	0.27	ug/L			11/12/24 01:31	1
Bromochloromethane	1.0	U	1.0	0.34	ug/L			11/12/24 01:31	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/12/24 01:31	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/12/24 01:31	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/12/24 01:31	1
Carbon disulfide	5.0	U	5.0	0.43	ug/L			11/12/24 01:31	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/12/24 01:31	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/12/24 01:31	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/12/24 01:31	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/12/24 01:31	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/12/24 01:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/12/24 01:31	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/12/24 01:31	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/12/24 01:31	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/12/24 01:31	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/12/24 01:31	1
Iodomethane	10	U	10	3.9	ug/L			11/12/24 01:31	1
m,p-Xylenes	2.0	U	2.0	0.49	ug/L			11/12/24 01:31	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/12/24 01:31	1
o-Xylene	1.0	U	1.0	0.26	ug/L			11/12/24 01:31	1
Styrene	1.0	U	1.0	0.27	ug/L			11/12/24 01:31	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/12/24 01:31	1
Toluene	1.0	U	1.0	0.25	ug/L			11/12/24 01:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/12/24 01:31	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/12/24 01:31	1

Client Sample ID: 4101-MW10
Lab Sample ID: 680-258309-3
Date Collected: 11/07/24 08:00
Matrix: Ground Water
Date Received: 11/08/24 10:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/12/24 01:31	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/12/24 01:31	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/12/24 01:31	1
Vinyl acetate	5.0	U J2	5.0	0.69	ug/L			11/12/24 01:31	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/12/24 01:31	1
Xylenes (total)	3.0	U	3.0	0.23	ug/L			11/12/24 01:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*		*11/12/24 01:31*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*11/12/24 01:31*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*11/12/24 01:31*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*11/12/24 01:31*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**220**		3.0	0.97	ng/L		11/13/24 15:32	11/16/24 19:18	1
Perfluoropentanoic acid (PFPeA)	**91**		1.5	0.45	ng/L		11/13/24 15:32	11/16/24 19:18	1
Perfluorohexanoic acid (PFHxA)	**290**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:18	1
Perfluoroheptanoic acid (PFHpA)	**110**		1.5	0.59	ng/L		11/13/24 15:32	11/16/24 19:18	1
Perfluorooctanoic acid (PFOA)	**300**		1.5	0.67	ng/L		11/13/24 15:32	11/16/24 19:18	1
Perfluorononanoic acid (PFNA)	**6.8**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:18	1
Perfluorodecanoic acid (PFDA)	**1.4**	**J**	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:18	1
Perfluoroundecanoic acid (PFUnA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:18	1
Perfluorododecanoic acid (PFDoA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:18	1
Perfluorotridecanoic acid (PFTrDA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:18	1
Perfluorotetradecanoic acid (PFTeDA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:18	1
Perfluorobutanesulfonic acid (PFBS)	**98**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:18	1
Perfluoropentanesulfonic acid (PFPeS)	**55**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:18	1
Perfluorohexanesulfonic acid (PFHxS)	**130**		1.5	0.59	ng/L		11/13/24 15:32	11/16/24 19:18	1
Perfluoroheptanesulfonic acid (PFHpS)	**5.3**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:18	1
Perfluorooctanesulfonic acid (PFOS)	**77**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:18	1
Perfluorononanesulfonic acid (PFNS)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:18	1
Perfluorodecanesulfonic acid (PFDS)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:18	1
Perfluorododecanesulfonic acid (PFDoS)	1.5	U	1.5	0.45	ng/L		11/13/24 15:32	11/16/24 19:18	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	3.0	U	3.0	0.74	ng/L		11/13/24 15:32	11/16/24 19:18	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	**1.5**	**J**	3.0	0.74	ng/L		11/13/24 15:32	11/16/24 19:18	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	**2.5**	**J**	3.0	0.74	ng/L		11/13/24 15:32	11/16/24 19:18	1
Perfluorooctanesulfonamide (PFOSA)	**1.1**	**J**	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:18	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	**1.2**	**J**	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:18	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:18	1

Client Sample ID: 4101-MW10
Lab Sample ID: 680-258309-3
Date Collected: 11/07/24 08:00
Matrix: Ground Water
Date Received: 11/08/24 10:09

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	**44**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:18	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	**4.9**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:18	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	7.4	U	7.4	1.9	ng/L		11/13/24 15:32	11/16/24 19:18	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	7.4	U	7.4	1.9	ng/L		11/13/24 15:32	11/16/24 19:18	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.5	U	1.5	0.56	ng/L		11/13/24 15:32	11/16/24 19:18	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:18	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:18	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:18	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:18	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:18	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:18	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:18	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	**2.5**	**J**	3.0	0.74	ng/L		11/13/24 15:32	11/16/24 19:18	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	**56**		7.4	2.1	ng/L		11/13/24 15:32	11/16/24 19:18	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	7.4	U	7.4	1.9	ng/L		11/13/24 15:32	11/16/24 19:18	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4-PFBA	*101*		*5 - 130*	*11/13/24 15:32*	*11/16/24 19:18*	*1*
13C5-PFPeA	*103*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:18*	*1*
13C5-PFHxA	*105*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:18*	*1*
13C4-PFHpA	*105*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:18*	*1*
13C8-PFOA	*106*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:18*	*1*
13C9-PFNA	*119*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:18*	*1*
13C6-PFDA	*105*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:18*	*1*
13C7-PFUnA	*95.3*		*30 - 130*	*11/13/24 15:32*	*11/16/24 19:18*	*1*
13C2-PFTeDA	*83.1*		*10 - 130*	*11/13/24 15:32*	*11/16/24 19:18*	*1*
13C3-PFBS	*103*		*40 - 135*	*11/13/24 15:32*	*11/16/24 19:18*	*1*
13C3-PFHxS	*109*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:18*	*1*
13C8-PFOS	*111*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:18*	*1*
13C8-PFOSA	*89.3*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:18*	*1*
d3-NMeFOSAA	*107*		*40 - 170*	*11/13/24 15:32*	*11/16/24 19:18*	*1*
d5-NEtFOSAA	*95.1*		*25 - 135*	*11/13/24 15:32*	*11/16/24 19:18*	*1*
13C2 4:2 FTS	*160*		*40 - 200*	*11/13/24 15:32*	*11/16/24 19:18*	*1*
13C2 6:2 FTS	*124*		*40 - 200*	*11/13/24 15:32*	*11/16/24 19:18*	*1*
13C2 8:2 FTS	*105*		*40 - 300*	*11/13/24 15:32*	*11/16/24 19:18*	*1*
13C3-HFPO-DA	*104*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:18*	*1*
D7-NMeFOSE	*66.1*		*10 - 130*	*11/13/24 15:32*	*11/16/24 19:18*	*1*
D9-NEtFOSE	*62.9*		*10 - 130*	*11/13/24 15:32*	*11/16/24 19:18*	*1*
d5-NEtPFOSA	*64.2*		*10 - 130*	*11/13/24 15:32*	*11/16/24 19:18*	*1*

Client: Babb & Associates
Job ID: 680-258309-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-MW10
Lab Sample ID: 680-258309-3
Date Collected: 11/07/24 08:00
Matrix: Ground Water
Date Received: 11/08/24 10:09

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMePFOSA	66.9		10 - 130	11/13/24 15:32	11/16/24 19:18	1
13C2 PFDoA	85.3		10 - 130	11/13/24 15:32	11/16/24 19:18	1

Client: Babb & Associates
Job ID: 680-258309-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-MW12A
Lab Sample ID: 680-258309-4
Date Collected: 11/06/24 12:25
Matrix: Ground Water
Date Received: 11/08/24 10:09

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**28**		20	6.4	ug/L			11/09/24 12:26	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*46 - 154*		*11/09/24 12:26*	*20*

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	1.0	U	1.0	0.36	ug/L			11/12/24 01:53	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/12/24 01:53	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/12/24 01:53	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/12/24 01:53	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/12/24 01:53	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/12/24 01:53	1
1,2,3-Trichloropropane	1.0	U	1.0	0.48	ug/L			11/12/24 01:53	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/12/24 01:53	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/12/24 01:53	1
1,2-Dichlorobenzene	**0.50**	**J**	1.0	0.31	ug/L			11/12/24 01:53	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/12/24 01:53	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/12/24 01:53	1
1,4-Dichlorobenzene	**2.5**		1.0	0.31	ug/L			11/12/24 01:53	1
2-Butanone	10	U	10	6.4	ug/L			11/12/24 01:53	1
2-Hexanone	10	U	10	3.2	ug/L			11/12/24 01:53	1
4-Methyl-2-pentanone	10	U	10	2.7	ug/L			11/12/24 01:53	1
Acetone	20	U	20	3.7	ug/L			11/12/24 01:53	1
Acrylonitrile	20	U	20	5.5	ug/L			11/12/24 01:53	1
Benzene	1.0	U	1.0	0.27	ug/L			11/12/24 01:53	1
Bromochloromethane	1.0	U	1.0	0.34	ug/L			11/12/24 01:53	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/12/24 01:53	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/12/24 01:53	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/12/24 01:53	1
Carbon disulfide	5.0	U	5.0	0.43	ug/L			11/12/24 01:53	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/12/24 01:53	1
Chlorobenzene	**9.3**		1.0	0.15	ug/L			11/12/24 01:53	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/12/24 01:53	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/12/24 01:53	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/12/24 01:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/12/24 01:53	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/12/24 01:53	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/12/24 01:53	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/12/24 01:53	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/12/24 01:53	1
Iodomethane	10	U	10	3.9	ug/L			11/12/24 01:53	1
m,p-Xylenes	2.0	U	2.0	0.49	ug/L			11/12/24 01:53	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/12/24 01:53	1
o-Xylene	1.0	U	1.0	0.26	ug/L			11/12/24 01:53	1
Styrene	1.0	U	1.0	0.27	ug/L			11/12/24 01:53	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/12/24 01:53	1
Toluene	1.0	U	1.0	0.25	ug/L			11/12/24 01:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/12/24 01:53	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/12/24 01:53	1

Client Sample ID: 4101-MW12A
Lab Sample ID: 680-258309-4
Date Collected: 11/06/24 12:25
Matrix: Ground Water
Date Received: 11/08/24 10:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/12/24 01:53	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/12/24 01:53	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/12/24 01:53	1
Vinyl acetate	5.0	U J2	5.0	0.69	ug/L			11/12/24 01:53	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/12/24 01:53	1
Xylenes (total)	3.0	U	3.0	0.23	ug/L			11/12/24 01:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 124*		*11/12/24 01:53*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*11/12/24 01:53*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*11/12/24 01:53*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*11/12/24 01:53*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**450**		2.9	0.95	ng/L		11/13/24 15:32	11/16/24 19:31	1
Perfluoropentanoic acid (PFPeA)	**150**		1.5	0.44	ng/L		11/13/24 15:32	11/16/24 19:31	1
Perfluorohexanoic acid (PFHxA)	**400**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:31	1
Perfluoroheptanoic acid (PFHpA)	**170**		1.5	0.59	ng/L		11/13/24 15:32	11/16/24 19:31	1
Perfluorooctanoic acid (PFOA)	**750**		1.5	0.66	ng/L		11/13/24 15:32	11/16/24 19:31	1
Perfluorononanoic acid (PFNA)	**20**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:31	1
Perfluorodecanoic acid (PFDA)	**6.9**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:31	1
Perfluoroundecanoic acid (PFUnA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:31	1
Perfluorododecanoic acid (PFDoA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:31	1
Perfluorotridecanoic acid (PFTrDA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:31	1
Perfluorotetradecanoic acid (PFTeDA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:31	1
Perfluorobutanesulfonic acid (PFBS)	**60**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:31	1
Perfluoropentanesulfonic acid (PFPeS)	**26**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:31	1
Perfluorohexanesulfonic acid (PFHxS)	**170**		1.5	0.59	ng/L		11/13/24 15:32	11/16/24 19:31	1
Perfluoroheptanesulfonic acid (PFHpS)	**4.6**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:31	1
Perfluorooctanesulfonic acid (PFOS)	**160**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:31	1
Perfluorononanesulfonic acid (PFNS)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:31	1
Perfluorodecanesulfonic acid (PFDS)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:31	1
Perfluorododecanesulfonic acid (PFDoS)	1.5	U	1.5	0.44	ng/L		11/13/24 15:32	11/16/24 19:31	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.9	U	2.9	0.73	ng/L		11/13/24 15:32	11/16/24 19:31	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	**14**		2.9	0.73	ng/L		11/13/24 15:32	11/16/24 19:31	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	**12**		2.9	0.73	ng/L		11/13/24 15:32	11/16/24 19:31	1
Perfluorooctanesulfonamide (PFOSA)	**2.2**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:31	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	**1.4**	**J**	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:31	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:31	1

Client Sample ID: 4101-MW12A
Lab Sample ID: 680-258309-4
Date Collected: 11/06/24 12:25
Matrix: Ground Water
Date Received: 11/08/24 10:09

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	**150**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:31	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	**45**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:31	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	**2.1**	**J**	7.3	1.8	ng/L		11/13/24 15:32	11/16/24 19:31	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	7.3	U	7.3	1.8	ng/L		11/13/24 15:32	11/16/24 19:31	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	**1.9**		1.5	0.55	ng/L		11/13/24 15:32	11/16/24 19:31	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:31	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:31	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:31	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:31	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:31	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:31	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 19:31	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	**38**		2.9	0.73	ng/L		11/13/24 15:32	11/16/24 19:31	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	**650**		7.3	2.1	ng/L		11/13/24 15:32	11/16/24 19:31	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	**61**		7.3	1.8	ng/L		11/13/24 15:32	11/16/24 19:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4-PFBA	*101*		*5 - 130*	*11/13/24 15:32*	*11/16/24 19:31*	*1*
13C5-PFPeA	*82.3*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:31*	*1*
13C5-PFHxA	*98.1*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:31*	*1*
13C4-PFHpA	*123*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:31*	*1*
13C8-PFOA	*105*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:31*	*1*
13C9-PFNA	*111*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:31*	*1*
13C6-PFDA	*110*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:31*	*1*
13C7-PFUnA	*95.0*		*30 - 130*	*11/13/24 15:32*	*11/16/24 19:31*	*1*
13C2-PFTeDA	*83.0*		*10 - 130*	*11/13/24 15:32*	*11/16/24 19:31*	*1*
13C3-PFBS	*87.1*		*40 - 135*	*11/13/24 15:32*	*11/16/24 19:31*	*1*
13C3-PFHxS	*109*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:31*	*1*
13C8-PFOS	*106*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:31*	*1*
13C8-PFOSA	*80.2*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:31*	*1*
d3-NMeFOSAA	*99.2*		*40 - 170*	*11/13/24 15:32*	*11/16/24 19:31*	*1*
d5-NEtFOSAA	*81.8*		*25 - 135*	*11/13/24 15:32*	*11/16/24 19:31*	*1*
13C2 4:2 FTS	*201*		*40 - 200*	*11/13/24 15:32*	*11/16/24 19:31*	*1*
13C2 6:2 FTS	*223*		*40 - 200*	*11/13/24 15:32*	*11/16/24 19:31*	*1*
13C2 8:2 FTS	*162*		*40 - 300*	*11/13/24 15:32*	*11/16/24 19:31*	*1*
13C3-HFPO-DA	*102*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:31*	*1*
D7-NMeFOSE	*57.0*		*10 - 130*	*11/13/24 15:32*	*11/16/24 19:31*	*1*
D9-NEtFOSE	*52.3*		*10 - 130*	*11/13/24 15:32*	*11/16/24 19:31*	*1*
d5-NEtPFOSA	*53.9*		*10 - 130*	*11/13/24 15:32*	*11/16/24 19:31*	*1*

Client Sample ID: 4101-MW12A
Lab Sample ID: 680-258309-4
Date Collected: 11/06/24 12:25
Matrix: Ground Water
Date Received: 11/08/24 10:09

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMePFOSA	59.7		10 - 130	11/13/24 15:32	11/16/24 19:31	1
13C2 PFDoA	87.6		10 - 130	11/13/24 15:32	11/16/24 19:31	1

Client: Babb & Associates
Job ID: 680-258309-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-PW3D
Lab Sample ID: 680-258309-5
Date Collected: 11/07/24 08:30
Matrix: Ground Water
Date Received: 11/08/24 10:09

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**110**		10	3.2	ug/L			11/09/24 11:34	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*46 - 154*		*11/09/24 11:34*	*10*

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	1.0	U	1.0	0.36	ug/L			11/12/24 02:15	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/12/24 02:15	1
1,1,2-Trichloroethane	**9.8**		1.0	0.32	ug/L			11/12/24 02:15	1
1,2,3-Trichloropropane	1.0	U	1.0	0.48	ug/L			11/12/24 02:15	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/12/24 02:15	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/12/24 02:15	1
1,2-Dichlorobenzene	**3.1**		1.0	0.31	ug/L			11/12/24 02:15	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/12/24 02:15	1
1,4-Dichlorobenzene	**1.0**		1.0	0.31	ug/L			11/12/24 02:15	1
2-Butanone	**87**		10	6.4	ug/L			11/12/24 02:15	1
2-Hexanone	**3.2**	**J**	10	3.2	ug/L			11/12/24 02:15	1
4-Methyl-2-pentanone	**110**		10	2.7	ug/L			11/12/24 02:15	1
Acetone	**86**		20	3.7	ug/L			11/12/24 02:15	1
Acrylonitrile	20	U	20	5.5	ug/L			11/12/24 02:15	1
Benzene	**140**		1.0	0.27	ug/L			11/12/24 02:15	1
Bromochloromethane	1.0	U	1.0	0.34	ug/L			11/12/24 02:15	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/12/24 02:15	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/12/24 02:15	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/12/24 02:15	1
Carbon disulfide	**2.1**	**J**	5.0	0.43	ug/L			11/12/24 02:15	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/12/24 02:15	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/12/24 02:15	1
Chloroform	**2.6**		1.0	0.27	ug/L			11/12/24 02:15	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/12/24 02:15	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/12/24 02:15	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/12/24 02:15	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/12/24 02:15	1
Ethylbenzene	**18**		1.0	0.20	ug/L			11/12/24 02:15	1
Iodomethane	10	U	10	3.9	ug/L			11/12/24 02:15	1
m,p-Xylenes	**48**		2.0	0.49	ug/L			11/12/24 02:15	1
o-Xylene	**18**		1.0	0.26	ug/L			11/12/24 02:15	1
Styrene	1.0	U	1.0	0.27	ug/L			11/12/24 02:15	1
trans-1,2-Dichloroethene	**2.6**		1.0	0.34	ug/L			11/12/24 02:15	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/12/24 02:15	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/12/24 02:15	1
Trichlorofluoromethane	**33**		1.0	0.33	ug/L			11/12/24 02:15	1
Vinyl acetate	5.0	U J2	5.0	0.69	ug/L			11/12/24 02:15	1
Vinyl chloride	**71**		1.0	0.40	ug/L			11/12/24 02:15	1
Xylenes (total)	**66**		3.0	0.23	ug/L			11/12/24 02:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*		*11/12/24 02:15*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*11/12/24 02:15*	*1*

Client Sample ID: 4101-PW3D
Lab Sample ID: 680-258309-5
Date Collected: 11/07/24 08:30
Matrix: Ground Water
Date Received: 11/08/24 10:09

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*11/12/24 02:15*	*1*
Toluene-d8 (Surr)	*108*		*70 - 130*		*11/12/24 02:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**330**		100	21	ug/L			11/12/24 23:23	100
1,1-Dichloroethane	**440**		100	33	ug/L			11/12/24 23:23	100
1,1-Dichloroethene	**960**		100	33	ug/L			11/12/24 23:23	100
1,2-Dichloroethane	**11000**		100	25	ug/L			11/12/24 23:23	100
Chlorobenzene	**14000**		100	15	ug/L			11/12/24 23:23	100
cis-1,2-Dichloroethene	**370**		100	25	ug/L			11/12/24 23:23	100
Methylene Chloride	**1000**		500	320	ug/L			11/12/24 23:23	100
Tetrachloroethene	**1800**		100	35	ug/L			11/12/24 23:23	100
Toluene	**570**		100	25	ug/L			11/12/24 23:23	100
Trichloroethene	**3200**		100	20	ug/L			11/12/24 23:23	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*11/12/24 23:23*	*100*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*11/12/24 23:23*	*100*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*11/12/24 23:23*	*100*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/12/24 23:23*	*100*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**6.0**		2.8	0.92	ng/L		11/13/24 15:32	11/16/24 19:45	1
Perfluoropentanoic acid (PFPeA)	**5.9**		1.4	0.42	ng/L		11/13/24 15:32	11/16/24 19:45	1
Perfluorohexanoic acid (PFHxA)	**16**		1.4	0.35	ng/L		11/13/24 15:32	11/16/24 19:45	1
Perfluoroheptanoic acid (PFHpA)	**6.2**		1.4	0.56	ng/L		11/13/24 15:32	11/16/24 19:45	1
Perfluorooctanoic acid (PFOA)	**58**		1.4	0.64	ng/L		11/13/24 15:32	11/16/24 19:45	1
Perfluorononanoic acid (PFNA)	**0.35**	**J**	1.4	0.35	ng/L		11/13/24 15:32	11/16/24 19:45	1
Perfluorodecanoic acid (PFDA)	1.4	U	1.4	0.35	ng/L		11/13/24 15:32	11/16/24 19:45	1
Perfluoroundecanoic acid (PFUnA)	1.4	U	1.4	0.35	ng/L		11/13/24 15:32	11/16/24 19:45	1
Perfluorododecanoic acid (PFDoA)	1.4	U	1.4	0.35	ng/L		11/13/24 15:32	11/16/24 19:45	1
Perfluorotridecanoic acid (PFTrDA)	1.4	U	1.4	0.35	ng/L		11/13/24 15:32	11/16/24 19:45	1
Perfluorotetradecanoic acid (PFTeDA)	1.4	U	1.4	0.35	ng/L		11/13/24 15:32	11/16/24 19:45	1
Perfluorobutanesulfonic acid (PFBS)	**5.2**		1.4	0.35	ng/L		11/13/24 15:32	11/16/24 19:45	1
Perfluoropentanesulfonic acid (PFPeS)	**5.0**		1.4	0.35	ng/L		11/13/24 15:32	11/16/24 19:45	1
Perfluorohexanesulfonic acid (PFHxS)	**26**		1.4	0.56	ng/L		11/13/24 15:32	11/16/24 19:45	1
Perfluoroheptanesulfonic acid (PFHpS)	**0.77**	**J**	1.4	0.35	ng/L		11/13/24 15:32	11/16/24 19:45	1
Perfluorooctanesulfonic acid (PFOS)	**16**		1.4	0.35	ng/L		11/13/24 15:32	11/16/24 19:45	1
Perfluorononanesulfonic acid (PFNS)	1.4	U	1.4	0.35	ng/L		11/13/24 15:32	11/16/24 19:45	1
Perfluorodecanesulfonic acid (PFDS)	1.4	U	1.4	0.35	ng/L		11/13/24 15:32	11/16/24 19:45	1
Perfluorododecanesulfonic acid (PFDoS)	1.4	U	1.4	0.42	ng/L		11/13/24 15:32	11/16/24 19:45	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.8	U	2.8	0.71	ng/L		11/13/24 15:32	11/16/24 19:45	1

Client: Babb & Associates
Job ID: 680-258309-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-PW3D
Lab Sample ID: 680-258309-5
Date Collected: 11/07/24 08:30
Matrix: Ground Water
Date Received: 11/08/24 10:09

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.8	U	2.8	0.71	ng/L		11/13/24 15:32	11/16/24 19:45	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.8	U	2.8	0.71	ng/L		11/13/24 15:32	11/16/24 19:45	1
Perfluorooctanesulfonamide (PFOSA)	1.4	U	1.4	0.35	ng/L		11/13/24 15:32	11/16/24 19:45	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.4	U	1.4	0.35	ng/L		11/13/24 15:32	11/16/24 19:45	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.4	U	1.4	0.35	ng/L		11/13/24 15:32	11/16/24 19:45	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.4	U	1.4	0.35	ng/L		11/13/24 15:32	11/16/24 19:45	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.4	U	1.4	0.35	ng/L		11/13/24 15:32	11/16/24 19:45	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	7.1	U	7.1	1.8	ng/L		11/13/24 15:32	11/16/24 19:45	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	7.1	U	7.1	1.8	ng/L		11/13/24 15:32	11/16/24 19:45	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.4	U	1.4	0.53	ng/L		11/13/24 15:32	11/16/24 19:45	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.4	U	1.4	0.35	ng/L		11/13/24 15:32	11/16/24 19:45	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.4	U	1.4	0.35	ng/L		11/13/24 15:32	11/16/24 19:45	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.4	U	1.4	0.35	ng/L		11/13/24 15:32	11/16/24 19:45	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.4	U	1.4	0.35	ng/L		11/13/24 15:32	11/16/24 19:45	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	1.4	U	1.4	0.35	ng/L		11/13/24 15:32	11/16/24 19:45	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.4	U	1.4	0.35	ng/L		11/13/24 15:32	11/16/24 19:45	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	1.4	U	1.4	0.35	ng/L		11/13/24 15:32	11/16/24 19:45	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	2.8	U	2.8	0.71	ng/L		11/13/24 15:32	11/16/24 19:45	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	**4.8**	**J**	7.1	2.0	ng/L		11/13/24 15:32	11/16/24 19:45	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	7.1	U	7.1	1.8	ng/L		11/13/24 15:32	11/16/24 19:45	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4-PFBA	*103*		*5 - 130*	*11/13/24 15:32*	*11/16/24 19:45*	*1*
13C5-PFPeA	*120*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:45*	*1*
13C5-PFHxA	*112*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:45*	*1*
13C4-PFHpA	*115*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:45*	*1*
13C8-PFOA	*121*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:45*	*1*
13C9-PFNA	*107*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:45*	*1*
13C6-PFDA	*109*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:45*	*1*
13C7-PFUnA	*112*		*30 - 130*	*11/13/24 15:32*	*11/16/24 19:45*	*1*
13C2-PFTeDA	*74.6*		*10 - 130*	*11/13/24 15:32*	*11/16/24 19:45*	*1*
13C3-PFBS	*104*		*40 - 135*	*11/13/24 15:32*	*11/16/24 19:45*	*1*
13C3-PFHxS	*114*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:45*	*1*
13C8-PFOS	*111*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:45*	*1*
13C8-PFOSA	*85.1*		*40 - 130*	*11/13/24 15:32*	*11/16/24 19:45*	*1*
d3-NMeFOSAA	*107*		*40 - 170*	*11/13/24 15:32*	*11/16/24 19:45*	*1*

Client: Babb & Associates
Job ID: 680-258309-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-PW3D
Lab Sample ID: 680-258309-5
Date Collected: 11/07/24 08:30
Matrix: Ground Water
Date Received: 11/08/24 10:09

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	95.6		25 - 135	11/13/24 15:32	11/16/24 19:45	1
13C2 4:2 FTS	106		40 - 200	11/13/24 15:32	11/16/24 19:45	1
13C2 6:2 FTS	114		40 - 200	11/13/24 15:32	11/16/24 19:45	1
13C2 8:2 FTS	135		40 - 300	11/13/24 15:32	11/16/24 19:45	1
13C3-HFPO-DA	107		40 - 130	11/13/24 15:32	11/16/24 19:45	1
D7-NMeFOSE	59.0		10 - 130	11/13/24 15:32	11/16/24 19:45	1
D9-NEtFOSE	56.4		10 - 130	11/13/24 15:32	11/16/24 19:45	1
d5-NEtPFOSA	59.7		10 - 130	11/13/24 15:32	11/16/24 19:45	1
d3-NMePFOSA	64.2		10 - 130	11/13/24 15:32	11/16/24 19:45	1
13C2 PFDoA	88.2		10 - 130	11/13/24 15:32	11/16/24 19:45	1

Client: Babb & Associates
Job ID: 680-258309-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-PW6I
Lab Sample ID: 680-258309-6
Date Collected: 11/06/24 13:40
Matrix: Ground Water
Date Received: 11/08/24 10:09

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**58**		10	3.2	ug/L			11/09/24 12:00	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*46 - 154*		*11/09/24 12:00*	*10*

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	1.0	U	1.0	0.36	ug/L			11/12/24 02:38	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/12/24 02:38	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/12/24 02:38	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/12/24 02:38	1
1,1-Dichloroethane	**8.3**		1.0	0.33	ug/L			11/12/24 21:53	1
1,1-Dichloroethene	**0.49**	**J**	1.0	0.33	ug/L			11/12/24 21:53	1
1,2,3-Trichloropropane	1.0	U	1.0	0.48	ug/L			11/12/24 02:38	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/12/24 02:38	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/12/24 02:38	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 02:38	1
1,2-Dichloroethane	**1.7**		1.0	0.25	ug/L			11/12/24 21:53	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/12/24 02:38	1
1,4-Dichlorobenzene	**1.3**		1.0	0.31	ug/L			11/12/24 21:53	1
2-Butanone	10	U	10	6.4	ug/L			11/12/24 02:38	1
2-Hexanone	10	U	10	3.2	ug/L			11/12/24 02:38	1
4-Methyl-2-pentanone	10	U	10	2.7	ug/L			11/12/24 02:38	1
Acetone	20	U	20	3.7	ug/L			11/12/24 02:38	1
Acrylonitrile	20	U	20	5.5	ug/L			11/12/24 02:38	1
Benzene	**0.44**	**J**	1.0	0.27	ug/L			11/12/24 21:53	1
Bromochloromethane	1.0	U	1.0	0.34	ug/L			11/12/24 02:38	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/12/24 02:38	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/12/24 02:38	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/12/24 02:38	1
Carbon disulfide	5.0	U	5.0	0.43	ug/L			11/12/24 02:38	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/12/24 02:38	1
Chlorobenzene	**5.4**		1.0	0.15	ug/L			11/12/24 21:53	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/12/24 02:38	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/12/24 02:38	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/12/24 02:38	1
cis-1,2-Dichloroethene	**12**		1.0	0.25	ug/L			11/12/24 21:53	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/12/24 02:38	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/12/24 02:38	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/12/24 02:38	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/12/24 02:38	1
Iodomethane	10	U	10	3.9	ug/L			11/12/24 02:38	1
m,p-Xylenes	2.0	U	2.0	0.49	ug/L			11/12/24 02:38	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/12/24 02:38	1
o-Xylene	1.0	U	1.0	0.26	ug/L			11/12/24 02:38	1
Styrene	1.0	U	1.0	0.27	ug/L			11/12/24 02:38	1
Tetrachloroethene	**0.41**	**J**	1.0	0.35	ug/L			11/12/24 21:53	1
Toluene	1.0	U	1.0	0.25	ug/L			11/12/24 21:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/12/24 02:38	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/12/24 02:38	1

Client Sample ID: 4101-PW6I
Lab Sample ID: 680-258309-6
Date Collected: 11/06/24 13:40
Matrix: Ground Water
Date Received: 11/08/24 10:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/12/24 02:38	1
Trichloroethene	**0.84**	**J**	1.0	0.20	ug/L			11/12/24 21:53	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/12/24 02:38	1
Vinyl acetate	5.0	U J2	5.0	0.69	ug/L			11/12/24 02:38	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/12/24 21:53	1
Xylenes (total)	3.0	U	3.0	0.23	ug/L			11/12/24 02:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*11/12/24 02:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*11/12/24 21:53*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*11/12/24 02:38*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*11/12/24 21:53*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*11/12/24 02:38*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*11/12/24 21:53*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*11/12/24 02:38*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*11/12/24 21:53*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**530**		2.9	0.95	ng/L		11/13/24 15:32	11/16/24 20:26	1
Perfluoropentanoic acid (PFPeA)	**130**		1.5	0.44	ng/L		11/13/24 15:32	11/16/24 20:26	1
Perfluorohexanoic acid (PFHxA)	**460**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 20:26	1
Perfluoroheptanoic acid (PFHpA)	**88**		1.5	0.58	ng/L		11/13/24 15:32	11/16/24 20:26	1
Perfluorooctanoic acid (PFOA)	**190**		1.5	0.66	ng/L		11/13/24 15:32	11/16/24 20:26	1
Perfluorononanoic acid (PFNA)	**2.4**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 20:26	1
Perfluorodecanoic acid (PFDA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 20:26	1
Perfluoroundecanoic acid (PFUnA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 20:26	1
Perfluorododecanoic acid (PFDoA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 20:26	1
Perfluorotridecanoic acid (PFTrDA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 20:26	1
Perfluorotetradecanoic acid (PFTeDA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 20:26	1
Perfluorobutanesulfonic acid (PFBS)	**62**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 20:26	1
Perfluoropentanesulfonic acid (PFPeS)	**29**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 20:26	1
Perfluorohexanesulfonic acid (PFHxS)	**63**		1.5	0.58	ng/L		11/13/24 15:32	11/16/24 20:26	1
Perfluoroheptanesulfonic acid (PFHpS)	**1.2**	**J**	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 20:26	1
Perfluorooctanesulfonic acid (PFOS)	**22**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 20:26	1
Perfluorononanesulfonic acid (PFNS)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 20:26	1
Perfluorodecanesulfonic acid (PFDS)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 20:26	1
Perfluorododecanesulfonic acid (PFDoS)	1.5	U	1.5	0.44	ng/L		11/13/24 15:32	11/16/24 20:26	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.9	U	2.9	0.73	ng/L		11/13/24 15:32	11/16/24 20:26	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	**1.7**	**J**	2.9	0.73	ng/L		11/13/24 15:32	11/16/24 20:26	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.9	U	2.9	0.73	ng/L		11/13/24 15:32	11/16/24 20:26	1
Perfluorooctanesulfonamide (PFOSA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 20:26	1

Client Sample ID: 4101-PW6I
Lab Sample ID: 680-258309-6
Date Collected: 11/06/24 13:40
Matrix: Ground Water
Date Received: 11/08/24 10:09

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 20:26	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 20:26	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 20:26	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 20:26	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	7.3	U	7.3	1.8	ng/L		11/13/24 15:32	11/16/24 20:26	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	7.3	U	7.3	1.8	ng/L		11/13/24 15:32	11/16/24 20:26	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.5	U	1.5	0.55	ng/L		11/13/24 15:32	11/16/24 20:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 20:26	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	**0.51**	**J**	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 20:26	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 20:26	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 20:26	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 20:26	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 20:26	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 20:26	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	**1.2**	**J**	2.9	0.73	ng/L		11/13/24 15:32	11/16/24 20:26	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	**3.6**	**J**	7.3	2.0	ng/L		11/13/24 15:32	11/16/24 20:26	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	7.3	U	7.3	1.8	ng/L		11/13/24 15:32	11/16/24 20:26	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4-PFBA	*102*		*5 - 130*	*11/13/24 15:32*	*11/16/24 20:26*	*1*
13C5-PFPeA	*110*		*40 - 130*	*11/13/24 15:32*	*11/16/24 20:26*	*1*
13C5-PFHxA	*101*		*40 - 130*	*11/13/24 15:32*	*11/16/24 20:26*	*1*
13C4-PFHpA	*113*		*40 - 130*	*11/13/24 15:32*	*11/16/24 20:26*	*1*
13C8-PFOA	*123*		*40 - 130*	*11/13/24 15:32*	*11/16/24 20:26*	*1*
13C9-PFNA	*107*		*40 - 130*	*11/13/24 15:32*	*11/16/24 20:26*	*1*
13C6-PFDA	*104*		*40 - 130*	*11/13/24 15:32*	*11/16/24 20:26*	*1*
13C7-PFUnA	*97.2*		*30 - 130*	*11/13/24 15:32*	*11/16/24 20:26*	*1*
13C2-PFTeDA	*77.7*		*10 - 130*	*11/13/24 15:32*	*11/16/24 20:26*	*1*
13C3-PFBS	*103*		*40 - 135*	*11/13/24 15:32*	*11/16/24 20:26*	*1*
13C3-PFHxS	*103*		*40 - 130*	*11/13/24 15:32*	*11/16/24 20:26*	*1*
13C8-PFOS	*105*		*40 - 130*	*11/13/24 15:32*	*11/16/24 20:26*	*1*
13C8-PFOSA	*78.1*		*40 - 130*	*11/13/24 15:32*	*11/16/24 20:26*	*1*
d3-NMeFOSAA	*86.8*		*40 - 170*	*11/13/24 15:32*	*11/16/24 20:26*	*1*
d5-NEtFOSAA	*80.1*		*25 - 135*	*11/13/24 15:32*	*11/16/24 20:26*	*1*
13C2 4:2 FTS	*122*		*40 - 200*	*11/13/24 15:32*	*11/16/24 20:26*	*1*
13C2 6:2 FTS	*115*		*40 - 200*	*11/13/24 15:32*	*11/16/24 20:26*	*1*
13C2 8:2 FTS	*109*		*40 - 300*	*11/13/24 15:32*	*11/16/24 20:26*	*1*

Client: Babb & Associates
Job ID: 680-258309-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-PW6I
Lab Sample ID: 680-258309-6
Date Collected: 11/06/24 13:40
Matrix: Ground Water
Date Received: 11/08/24 10:09

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3-HFPO-DA	95.0		40 - 130	11/13/24 15:32	11/16/24 20:26	1
D7-NMeFOSE	65.1		10 - 130	11/13/24 15:32	11/16/24 20:26	1
D9-NEtFOSE	59.6		10 - 130	11/13/24 15:32	11/16/24 20:26	1
d5-NEtPFOSA	56.2		10 - 130	11/13/24 15:32	11/16/24 20:26	1
d3-NMePFOSA	61.6		10 - 130	11/13/24 15:32	11/16/24 20:26	1
13C2 PFDoA	78.7		10 - 130	11/13/24 15:32	11/16/24 20:26	1

Client: Babb & Associates
Job ID: 680-258309-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-W4A
Lab Sample ID: 680-258309-7
Date Collected: 11/06/24 10:25
Matrix: Ground Water
Date Received: 11/08/24 10:09

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**9.9**		2.0	0.64	ug/L			11/09/24 10:44	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*46 - 154*		*11/09/24 10:44*	*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	1.0	U	1.0	0.36	ug/L			11/12/24 03:00	1
1,1,1-Trichloroethane	**0.84**	**J**	1.0	0.21	ug/L			11/12/24 22:16	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/12/24 03:00	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/12/24 03:00	1
1,1-Dichloroethane	**11**		1.0	0.33	ug/L			11/12/24 22:16	1
1,1-Dichloroethene	**15**		1.0	0.33	ug/L			11/12/24 22:16	1
1,2,3-Trichloropropane	1.0	U	1.0	0.48	ug/L			11/12/24 03:00	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/12/24 03:00	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/12/24 03:00	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 03:00	1
1,2-Dichloroethane	**0.61**	**J**	1.0	0.25	ug/L			11/12/24 22:16	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/12/24 03:00	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 03:00	1
2-Butanone	10	U	10	6.4	ug/L			11/12/24 03:00	1
2-Hexanone	10	U	10	3.2	ug/L			11/12/24 03:00	1
4-Methyl-2-pentanone	10	U	10	2.7	ug/L			11/12/24 03:00	1
Acetone	20	U	20	3.7	ug/L			11/12/24 03:00	1
Acrylonitrile	20	U	20	5.5	ug/L			11/12/24 03:00	1
Benzene	1.0	U	1.0	0.27	ug/L			11/12/24 03:00	1
Bromochloromethane	1.0	U	1.0	0.34	ug/L			11/12/24 03:00	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/12/24 03:00	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/12/24 03:00	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/12/24 03:00	1
Carbon disulfide	5.0	U	5.0	0.43	ug/L			11/12/24 03:00	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/12/24 03:00	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/12/24 22:16	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/12/24 03:00	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/12/24 03:00	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/12/24 03:00	1
cis-1,2-Dichloroethene	**10**		1.0	0.25	ug/L			11/12/24 22:16	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/12/24 03:00	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/12/24 03:00	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/12/24 03:00	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/12/24 03:00	1
Iodomethane	10	U	10	3.9	ug/L			11/12/24 03:00	1
m,p-Xylenes	2.0	U	2.0	0.49	ug/L			11/12/24 03:00	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/12/24 03:00	1
o-Xylene	1.0	U	1.0	0.26	ug/L			11/12/24 03:00	1
Styrene	1.0	U	1.0	0.27	ug/L			11/12/24 03:00	1
Tetrachloroethene	**0.70**	**J**	1.0	0.35	ug/L			11/12/24 22:16	1
Toluene	1.0	U	1.0	0.25	ug/L			11/12/24 03:00	1
trans-1,2-Dichloroethene	**0.95**	**J**	1.0	0.34	ug/L			11/12/24 22:16	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/12/24 03:00	1

Client Sample ID: 4101-W4A
Lab Sample ID: 680-258309-7
Date Collected: 11/06/24 10:25
Matrix: Ground Water
Date Received: 11/08/24 10:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/12/24 03:00	1
Trichloroethene	**2.3**		1.0	0.20	ug/L			11/12/24 22:16	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/12/24 03:00	1
Vinyl acetate	5.0	U J2	5.0	0.69	ug/L			11/12/24 03:00	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/12/24 22:16	1
Xylenes (total)	3.0	U	3.0	0.23	ug/L			11/12/24 03:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*		*11/12/24 03:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*11/12/24 22:16*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*11/12/24 03:00*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*11/12/24 22:16*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*11/12/24 03:00*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*11/12/24 22:16*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/12/24 03:00*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*11/12/24 22:16*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**16**		2.9	0.94	ng/L		11/13/24 15:32	11/16/24 20:40	1
Perfluoropentanoic acid (PFPeA)	**15**		1.4	0.43	ng/L		11/13/24 15:32	11/16/24 20:40	1
Perfluorohexanoic acid (PFHxA)	**46**		1.4	0.36	ng/L		11/13/24 15:32	11/16/24 20:40	1
Perfluoroheptanoic acid (PFHpA)	**15**		1.4	0.58	ng/L		11/13/24 15:32	11/16/24 20:40	1
Perfluorooctanoic acid (PFOA)	**66**		1.4	0.65	ng/L		11/13/24 15:32	11/16/24 20:40	1
Perfluorononanoic acid (PFNA)	**4.8**		1.4	0.36	ng/L		11/13/24 15:32	11/16/24 20:40	1
Perfluorodecanoic acid (PFDA)	**2.9**		1.4	0.36	ng/L		11/13/24 15:32	11/16/24 20:40	1
Perfluoroundecanoic acid (PFUnA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 20:40	1
Perfluorododecanoic acid (PFDoA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 20:40	1
Perfluorotridecanoic acid (PFTrDA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 20:40	1
Perfluorotetradecanoic acid (PFTeDA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 20:40	1
Perfluorobutanesulfonic acid (PFBS)	**34**		1.4	0.36	ng/L		11/13/24 15:32	11/16/24 20:40	1
Perfluoropentanesulfonic acid (PFPeS)	**39**		1.4	0.36	ng/L		11/13/24 15:32	11/16/24 20:40	1
Perfluorohexanesulfonic acid (PFHxS)	**360**		1.4	0.58	ng/L		11/13/24 15:32	11/16/24 20:40	1
Perfluoroheptanesulfonic acid (PFHpS)	**15**		1.4	0.36	ng/L		11/13/24 15:32	11/16/24 20:40	1
Perfluorooctanesulfonic acid (PFOS)	**710**		1.4	0.36	ng/L		11/13/24 15:32	11/16/24 20:40	1
Perfluorononanesulfonic acid (PFNS)	**1.9**		1.4	0.36	ng/L		11/13/24 15:32	11/16/24 20:40	1
Perfluorodecanesulfonic acid (PFDS)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 20:40	1
Perfluorododecanesulfonic acid (PFDoS)	1.4	U	1.4	0.43	ng/L		11/13/24 15:32	11/16/24 20:40	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.9	U	2.9	0.72	ng/L		11/13/24 15:32	11/16/24 20:40	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.9	U	2.9	0.72	ng/L		11/13/24 15:32	11/16/24 20:40	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.9	U	2.9	0.72	ng/L		11/13/24 15:32	11/16/24 20:40	1
Perfluorooctanesulfonamide (PFOSA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 20:40	1

Client Sample ID: 4101-W4A
Lab Sample ID: 680-258309-7
Date Collected: 11/06/24 10:25
Matrix: Ground Water
Date Received: 11/08/24 10:09

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 20:40	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 20:40	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 20:40	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 20:40	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	7.2	U	7.2	1.8	ng/L		11/13/24 15:32	11/16/24 20:40	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	7.2	U	7.2	1.8	ng/L		11/13/24 15:32	11/16/24 20:40	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.4	U	1.4	0.54	ng/L		11/13/24 15:32	11/16/24 20:40	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 20:40	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 20:40	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 20:40	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 20:40	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 20:40	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 20:40	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 20:40	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	2.9	U	2.9	0.72	ng/L		11/13/24 15:32	11/16/24 20:40	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	7.2	U	7.2	2.0	ng/L		11/13/24 15:32	11/16/24 20:40	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	7.2	U	7.2	1.8	ng/L		11/13/24 15:32	11/16/24 20:40	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4-PFBA	*98.2*		*5 - 130*	*11/13/24 15:32*	*11/16/24 20:40*	*1*
13C5-PFPeA	*112*		*40 - 130*	*11/13/24 15:32*	*11/16/24 20:40*	*1*
13C5-PFHxA	*103*		*40 - 130*	*11/13/24 15:32*	*11/16/24 20:40*	*1*
13C4-PFHpA	*112*		*40 - 130*	*11/13/24 15:32*	*11/16/24 20:40*	*1*
13C8-PFOA	*110*		*40 - 130*	*11/13/24 15:32*	*11/16/24 20:40*	*1*
13C9-PFNA	*107*		*40 - 130*	*11/13/24 15:32*	*11/16/24 20:40*	*1*
13C6-PFDA	*95.5*		*40 - 130*	*11/13/24 15:32*	*11/16/24 20:40*	*1*
13C7-PFUnA	*85.9*		*30 - 130*	*11/13/24 15:32*	*11/16/24 20:40*	*1*
13C2-PFTeDA	*75.2*		*10 - 130*	*11/13/24 15:32*	*11/16/24 20:40*	*1*
13C3-PFBS	*91.8*		*40 - 135*	*11/13/24 15:32*	*11/16/24 20:40*	*1*
13C3-PFHxS	*103*		*40 - 130*	*11/13/24 15:32*	*11/16/24 20:40*	*1*
13C8-PFOS	*101*		*40 - 130*	*11/13/24 15:32*	*11/16/24 20:40*	*1*
13C8-PFOSA	*85.1*		*40 - 130*	*11/13/24 15:32*	*11/16/24 20:40*	*1*
d3-NMeFOSAA	*95.6*		*40 - 170*	*11/13/24 15:32*	*11/16/24 20:40*	*1*
d5-NEtFOSAA	*79.6*		*25 - 135*	*11/13/24 15:32*	*11/16/24 20:40*	*1*
13C2 4:2 FTS	*96.6*		*40 - 200*	*11/13/24 15:32*	*11/16/24 20:40*	*1*
13C2 6:2 FTS	*94.2*		*40 - 200*	*11/13/24 15:32*	*11/16/24 20:40*	*1*
13C2 8:2 FTS	*105*		*40 - 300*	*11/13/24 15:32*	*11/16/24 20:40*	*1*

Client: Babb & Associates
Job ID: 680-258309-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-W4A
Lab Sample ID: 680-258309-7
Date Collected: 11/06/24 10:25
Matrix: Ground Water
Date Received: 11/08/24 10:09

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3-HFPO-DA	105		40 - 130	11/13/24 15:32	11/16/24 20:40	1
D7-NMeFOSE	63.0		10 - 130	11/13/24 15:32	11/16/24 20:40	1
D9-NEtFOSE	60.5		10 - 130	11/13/24 15:32	11/16/24 20:40	1
d5-NEtPFOSA	61.1		10 - 130	11/13/24 15:32	11/16/24 20:40	1
d3-NMePFOSA	62.5		10 - 130	11/13/24 15:32	11/16/24 20:40	1
13C2 PFDoA	75.9		10 - 130	11/13/24 15:32	11/16/24 20:40	1

Client: Babb & Associates
Project/Site: Seaboard/Riverdale Drive MSWLF

Job ID: 680-258309-1

Client Sample ID: 4101-SW2

Date Collected: 11/06/24 10:30
Date Received: 11/08/24 10:09

Lab Sample ID: 680-258309-8

Matrix: Surface Water

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	9.3		1.0	0.32	ug/L			11/09/24 09:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*46 - 154*		*11/09/24 09:54*	*1*

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	1.0	U	1.0	0.36	ug/L			11/12/24 03:21	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/12/24 03:21	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/12/24 03:21	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/12/24 03:21	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/12/24 03:21	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/12/24 22:38	1
1,2,3-Trichloropropane	1.0	U	1.0	0.48	ug/L			11/12/24 03:21	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/12/24 03:21	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/12/24 03:21	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 03:21	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/12/24 22:38	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/12/24 03:21	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 03:21	1
2-Butanone	10	U	10	6.4	ug/L			11/12/24 03:21	1
2-Hexanone	10	U	10	3.2	ug/L			11/12/24 03:21	1
4-Methyl-2-pentanone	10	U	10	2.7	ug/L			11/12/24 03:21	1
Acetone	20	U	20	3.7	ug/L			11/12/24 03:21	1
Acrylonitrile	20	U	20	5.5	ug/L			11/12/24 03:21	1
Benzene	1.0	U	1.0	0.27	ug/L			11/12/24 03:21	1
Bromochloromethane	1.0	U	1.0	0.34	ug/L			11/12/24 03:21	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/12/24 03:21	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/12/24 03:21	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/12/24 03:21	1
Carbon disulfide	5.0	U	5.0	0.43	ug/L			11/12/24 03:21	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/12/24 03:21	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/12/24 22:38	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/12/24 03:21	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/12/24 03:21	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/12/24 03:21	1
cis-1,2-Dichloroethene	0.27	J	1.0	0.25	ug/L			11/12/24 22:38	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/12/24 03:21	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/12/24 03:21	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/12/24 03:21	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/12/24 03:21	1
Iodomethane	10	U	10	3.9	ug/L			11/12/24 03:21	1
m,p-Xylenes	2.0	U	2.0	0.49	ug/L			11/12/24 03:21	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/12/24 03:21	1
o-Xylene	1.0	U	1.0	0.26	ug/L			11/12/24 03:21	1
Styrene	1.0	U	1.0	0.27	ug/L			11/12/24 03:21	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/12/24 03:21	1
Toluene	1.0	U	1.0	0.25	ug/L			11/12/24 03:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/12/24 03:21	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/12/24 03:21	1

Client Sample ID: 4101-SW2
Lab Sample ID: 680-258309-8
Date Collected: 11/06/24 10:30
Matrix: Surface Water
Date Received: 11/08/24 10:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/12/24 03:21	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/12/24 22:38	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/12/24 03:21	1
Vinyl acetate	5.0	U J2	5.0	0.69	ug/L			11/12/24 03:21	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/12/24 03:21	1
Xylenes (total)	3.0	U	3.0	0.23	ug/L			11/12/24 03:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*		*11/12/24 03:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*11/12/24 22:38*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*11/12/24 03:21*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*11/12/24 22:38*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*11/12/24 03:21*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*11/12/24 22:38*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*11/12/24 03:21*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*11/12/24 22:38*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**140**		2.9	0.96	ng/L		11/13/24 15:32	11/20/24 04:58	1
Perfluoropentanoic acid (PFPeA)	**60**		1.5	0.44	ng/L		11/13/24 15:32	11/20/24 04:58	1
Perfluorohexanoic acid (PFHxA)	**130**		1.5	0.37	ng/L		11/13/24 15:32	11/20/24 04:58	1
Perfluoroheptanoic acid (PFHpA)	**63**		1.5	0.59	ng/L		11/13/24 15:32	11/20/24 04:58	1
Perfluorooctanoic acid (PFOA)	**220**		1.5	0.66	ng/L		11/13/24 15:32	11/20/24 04:58	1
Perfluorononanoic acid (PFNA)	**12**		1.5	0.37	ng/L		11/13/24 15:32	11/20/24 04:58	1
Perfluorodecanoic acid (PFDA)	**3.9**		1.5	0.37	ng/L		11/13/24 15:32	11/20/24 04:58	1
Perfluoroundecanoic acid (PFUnA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/20/24 04:58	1
Perfluorododecanoic acid (PFDoA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/20/24 04:58	1
Perfluorotridecanoic acid (PFTrDA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/20/24 04:58	1
Perfluorotetradecanoic acid (PFTeDA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/20/24 04:58	1
Perfluorobutanesulfonic acid (PFBS)	**36**		1.5	0.37	ng/L		11/13/24 15:32	11/20/24 04:58	1
Perfluoropentanesulfonic acid (PFPeS)	**13**		1.5	0.37	ng/L		11/13/24 15:32	11/20/24 04:58	1
Perfluorohexanesulfonic acid (PFHxS)	**34**		1.5	0.59	ng/L		11/13/24 15:32	11/20/24 04:58	1
Perfluoroheptanesulfonic acid (PFHpS)	**3.3**		1.5	0.37	ng/L		11/13/24 15:32	11/20/24 04:58	1
Perfluorooctanesulfonic acid (PFOS)	**180**		1.5	0.37	ng/L		11/13/24 15:32	11/20/24 04:58	1
Perfluorononanesulfonic acid (PFNS)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/20/24 04:58	1
Perfluorodecanesulfonic acid (PFDS)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/20/24 04:58	1
Perfluorododecanesulfonic acid (PFDoS)	1.5	U	1.5	0.44	ng/L		11/13/24 15:32	11/20/24 04:58	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.9	U	2.9	0.74	ng/L		11/13/24 15:32	11/20/24 04:58	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.9	U	2.9	0.74	ng/L		11/13/24 15:32	11/20/24 04:58	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.9	U	2.9	0.74	ng/L		11/13/24 15:32	11/20/24 04:58	1
Perfluorooctanesulfonamide (PFOSA)	**4.2**		1.5	0.37	ng/L		11/13/24 15:32	11/20/24 04:58	1

Client: Babb & Associates
Job ID: 680-258309-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-SW2
Lab Sample ID: 680-258309-8
Date Collected: 11/06/24 10:30
Matrix: Surface Water
Date Received: 11/08/24 10:09

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/20/24 04:58	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/20/24 04:58	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	**46**		1.5	0.37	ng/L		11/13/24 15:32	11/20/24 04:58	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	**30**		1.5	0.37	ng/L		11/13/24 15:32	11/20/24 04:58	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	7.4	U	7.4	1.8	ng/L		11/13/24 15:32	11/20/24 04:58	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	7.4	U	7.4	1.8	ng/L		11/13/24 15:32	11/20/24 04:58	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	**2.3**		1.5	0.55	ng/L		11/13/24 15:32	11/20/24 04:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/20/24 04:58	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/20/24 04:58	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/20/24 04:58	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/20/24 04:58	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/20/24 04:58	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/20/24 04:58	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/20/24 04:58	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	**5.7**		2.9	0.74	ng/L		11/13/24 15:32	11/20/24 04:58	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	4.4	U	4.4	4.4	ng/L		11/13/24 15:32	11/20/24 04:58	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	7.4	U	7.4	1.8	ng/L		11/13/24 15:32	11/20/24 04:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4-PFBA	*84.7*		*5 - 130*	*11/13/24 15:32*	*11/20/24 04:58*	*1*
13C5-PFPeA	*75.0*		*40 - 130*	*11/13/24 15:32*	*11/20/24 04:58*	*1*
13C5-PFHxA	*81.9*		*40 - 130*	*11/13/24 15:32*	*11/20/24 04:58*	*1*
13C4-PFHpA	*90.9*		*40 - 130*	*11/13/24 15:32*	*11/20/24 04:58*	*1*
13C8-PFOA	*81.4*		*40 - 130*	*11/13/24 15:32*	*11/20/24 04:58*	*1*
13C9-PFNA	*85.9*		*40 - 130*	*11/13/24 15:32*	*11/20/24 04:58*	*1*
13C6-PFDA	*84.6*		*40 - 130*	*11/13/24 15:32*	*11/20/24 04:58*	*1*
13C7-PFUnA	*72.7*		*30 - 130*	*11/13/24 15:32*	*11/20/24 04:58*	*1*
13C2-PFTeDA	*63.7*		*10 - 130*	*11/13/24 15:32*	*11/20/24 04:58*	*1*
13C3-PFBS	*80.8*		*40 - 135*	*11/13/24 15:32*	*11/20/24 04:58*	*1*
13C3-PFHxS	*76.2*		*40 - 130*	*11/13/24 15:32*	*11/20/24 04:58*	*1*
13C8-PFOS	*79.7*		*40 - 130*	*11/13/24 15:32*	*11/20/24 04:58*	*1*
13C8-PFOSA	*64.3*		*40 - 130*	*11/13/24 15:32*	*11/20/24 04:58*	*1*
d3-NMeFOSAA	*75.7*		*40 - 170*	*11/13/24 15:32*	*11/20/24 04:58*	*1*
d5-NEtFOSAA	*59.8*		*25 - 135*	*11/13/24 15:32*	*11/20/24 04:58*	*1*
13C2 4:2 FTS	*152*		*40 - 200*	*11/13/24 15:32*	*11/20/24 04:58*	*1*
13C2 6:2 FTS	*117*		*40 - 200*	*11/13/24 15:32*	*11/20/24 04:58*	*1*
13C2 8:2 FTS	*82.0*		*40 - 300*	*11/13/24 15:32*	*11/20/24 04:58*	*1*

Client: Babb & Associates
Job ID: 680-258309-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-SW2
Lab Sample ID: 680-258309-8
Date Collected: 11/06/24 10:30
Matrix: Surface Water
Date Received: 11/08/24 10:09

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3-HFPO-DA	76.0		40 - 130	11/13/24 15:32	11/20/24 04:58	1
D7-NMeFOSE	48.5		10 - 130	11/13/24 15:32	11/20/24 04:58	1
D9-NEtFOSE	44.4		10 - 130	11/13/24 15:32	11/20/24 04:58	1
d5-NEtPFOSA	50.8		10 - 130	11/13/24 15:32	11/20/24 04:58	1
d3-NMePFOSA	52.6		10 - 130	11/13/24 15:32	11/20/24 04:58	1
13C2 PFDoA	70.9		10 - 130	11/13/24 15:32	11/20/24 04:58	1

Client Sample ID: 4101-SW4
Lab Sample ID: 680-258309-9
Date Collected: 11/06/24 13:10
Matrix: Surface Water
Date Received: 11/08/24 10:09

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**47**		5.0	1.6	ug/L			11/09/24 18:00	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*46 - 154*		*11/09/24 18:00*	*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	1.0	U	1.0	0.36	ug/L			11/12/24 03:43	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/12/24 03:43	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/12/24 03:43	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/12/24 03:43	1
1,1-Dichloroethane	**1.3**		1.0	0.33	ug/L			11/12/24 23:01	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/12/24 03:43	1
1,2,3-Trichloropropane	1.0	U	1.0	0.48	ug/L			11/12/24 03:43	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/12/24 03:43	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/12/24 03:43	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 03:43	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/12/24 23:01	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/12/24 03:43	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 03:43	1
2-Butanone	10	U	10	6.4	ug/L			11/12/24 03:43	1
2-Hexanone	10	U	10	3.2	ug/L			11/12/24 03:43	1
4-Methyl-2-pentanone	10	U	10	2.7	ug/L			11/12/24 03:43	1
Acetone	20	U	20	3.7	ug/L			11/12/24 03:43	1
Acrylonitrile	20	U	20	5.5	ug/L			11/12/24 03:43	1
Benzene	1.0	U	1.0	0.27	ug/L			11/12/24 03:43	1
Bromochloromethane	1.0	U	1.0	0.34	ug/L			11/12/24 03:43	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/12/24 03:43	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/12/24 03:43	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/12/24 03:43	1
Carbon disulfide	5.0	U	5.0	0.43	ug/L			11/12/24 03:43	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/12/24 03:43	1
Chlorobenzene	**11**		1.0	0.15	ug/L			11/12/24 03:43	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/12/24 03:43	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/12/24 03:43	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/12/24 03:43	1
cis-1,2-Dichloroethene	**0.79**	**J**	1.0	0.25	ug/L			11/12/24 23:01	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/12/24 03:43	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/12/24 03:43	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/12/24 03:43	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/12/24 03:43	1
Iodomethane	10	U	10	3.9	ug/L			11/12/24 03:43	1
m,p-Xylenes	2.0	U	2.0	0.49	ug/L			11/12/24 03:43	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/12/24 03:43	1
o-Xylene	1.0	U	1.0	0.26	ug/L			11/12/24 03:43	1
Styrene	1.0	U	1.0	0.27	ug/L			11/12/24 03:43	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/12/24 03:43	1
Toluene	1.0	U	1.0	0.25	ug/L			11/12/24 03:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/12/24 03:43	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/12/24 03:43	1

Client Sample ID: 4101-SW4
Lab Sample ID: 680-258309-9
Date Collected: 11/06/24 13:10
Matrix: Surface Water
Date Received: 11/08/24 10:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/12/24 03:43	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/12/24 23:01	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/12/24 03:43	1
Vinyl acetate	5.0	U J2	5.0	0.69	ug/L			11/12/24 03:43	1
Vinyl chloride	**1.2**		1.0	0.40	ug/L			11/12/24 03:43	1
Xylenes (total)	3.0	U	3.0	0.23	ug/L			11/12/24 03:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*		*11/12/24 03:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*11/12/24 23:01*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*11/12/24 03:43*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*11/12/24 23:01*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*11/12/24 03:43*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*11/12/24 23:01*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*11/12/24 03:43*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*11/12/24 23:01*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**920**		3.0	0.97	ng/L		11/13/24 15:32	11/16/24 21:07	1
Perfluoropentanoic acid (PFPeA)	**180**		1.5	0.45	ng/L		11/13/24 15:32	11/16/24 21:07	1
Perfluorohexanoic acid (PFHxA)	**440**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:07	1
Perfluoroheptanoic acid (PFHpA)	**150**		1.5	0.60	ng/L		11/13/24 15:32	11/16/24 21:07	1
Perfluorooctanoic acid (PFOA)	**350**		1.5	0.67	ng/L		11/13/24 15:32	11/16/24 21:07	1
Perfluorononanoic acid (PFNA)	**14**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:07	1
Perfluorodecanoic acid (PFDA)	**13**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:07	1
Perfluoroundecanoic acid (PFUnA)	1.5	U	1.5	1.5	ng/L		11/13/24 15:32	11/16/24 21:07	1
Perfluorododecanoic acid (PFDoA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:07	1
Perfluorotridecanoic acid (PFTrDA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:07	1
Perfluorotetradecanoic acid (PFTeDA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:07	1
Perfluorobutanesulfonic acid (PFBS)	**230**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:07	1
Perfluoropentanesulfonic acid (PFPeS)	**65**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:07	1
Perfluorohexanesulfonic acid (PFHxS)	**260**		1.5	0.60	ng/L		11/13/24 15:32	11/16/24 21:07	1
Perfluoroheptanesulfonic acid (PFHpS)	**14**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:07	1
Perfluorooctanesulfonic acid (PFOS)	**540**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:07	1
Perfluorononanesulfonic acid (PFNS)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:07	1
Perfluorodecanesulfonic acid (PFDS)	**0.53**	**J**	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:07	1
Perfluorododecanesulfonic acid (PFDoS)	1.5	U	1.5	0.45	ng/L		11/13/24 15:32	11/16/24 21:07	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.75	U	0.75	0.75	ng/L		11/13/24 15:32	11/16/24 21:07	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	**4.2**		3.0	0.75	ng/L		11/13/24 15:32	11/16/24 21:07	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.8	U	1.8	1.8	ng/L		11/13/24 15:32	11/16/24 21:07	1
Perfluorooctanesulfonamide (PFOSA)	**5.6**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:07	1

Client: Babb & Associates
Job ID: 680-258309-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-SW4
Lab Sample ID: 680-258309-9
Date Collected: 11/06/24 13:10
Matrix: Surface Water
Date Received: 11/08/24 10:09

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:07	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:07	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	**19**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:07	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	**21**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:07	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	7.5	U	7.5	1.9	ng/L		11/13/24 15:32	11/16/24 21:07	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	7.5	U	7.5	1.9	ng/L		11/13/24 15:32	11/16/24 21:07	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	**7.8**		1.5	0.56	ng/L		11/13/24 15:32	11/16/24 21:07	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:07	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	**0.40**	**J**	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:07	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:07	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:07	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:07	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:07	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:07	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	**11**		3.0	0.75	ng/L		11/13/24 15:32	11/16/24 21:07	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	**30**		7.5	2.1	ng/L		11/13/24 15:32	11/16/24 21:07	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	7.5	U	7.5	1.9	ng/L		11/13/24 15:32	11/16/24 21:07	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4-PFBA	*97.7*		*5 - 130*	*11/13/24 15:32*	*11/16/24 21:07*	*1*
13C5-PFPeA	*86.8*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:07*	*1*
13C5-PFHxA	*95.5*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:07*	*1*
13C4-PFHpA	*95.2*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:07*	*1*
13C8-PFOA	*113*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:07*	*1*
13C9-PFNA	*104*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:07*	*1*
13C6-PFDA	*107*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:07*	*1*
13C7-PFUnA	*98.5*		*30 - 130*	*11/13/24 15:32*	*11/16/24 21:07*	*1*
13C2-PFTeDA	*77.2*		*10 - 130*	*11/13/24 15:32*	*11/16/24 21:07*	*1*
13C3-PFBS	*96.7*		*40 - 135*	*11/13/24 15:32*	*11/16/24 21:07*	*1*
13C3-PFHxS	*103*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:07*	*1*
13C8-PFOS	*105*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:07*	*1*
13C8-PFOSA	*85.0*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:07*	*1*
d3-NMeFOSAA	*104*		*40 - 170*	*11/13/24 15:32*	*11/16/24 21:07*	*1*
d5-NEtFOSAA	*83.9*		*25 - 135*	*11/13/24 15:32*	*11/16/24 21:07*	*1*
13C2 4:2 FTS	*162*		*40 - 200*	*11/13/24 15:32*	*11/16/24 21:07*	*1*
13C2 6:2 FTS	*139*		*40 - 200*	*11/13/24 15:32*	*11/16/24 21:07*	*1*
13C2 8:2 FTS	*106*		*40 - 300*	*11/13/24 15:32*	*11/16/24 21:07*	*1*

Client Sample ID: 4101-SW4
Lab Sample ID: 680-258309-9
Date Collected: 11/06/24 13:10
Matrix: Surface Water
Date Received: 11/08/24 10:09

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3-HFPO-DA	93.8		40 - 130	11/13/24 15:32	11/16/24 21:07	1
D7-NMeFOSE	65.2		10 - 130	11/13/24 15:32	11/16/24 21:07	1
D9-NEtFOSE	61.5		10 - 130	11/13/24 15:32	11/16/24 21:07	1
d5-NEtPFOSA	63.2		10 - 130	11/13/24 15:32	11/16/24 21:07	1
d3-NMePFOSA	66.5		10 - 130	11/13/24 15:32	11/16/24 21:07	1
13C2 PFDoA	81.7		10 - 130	11/13/24 15:32	11/16/24 21:07	1

Client: Babb & Associates
Job ID: 680-258309-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-Duplicate
Lab Sample ID: 680-258309-10
Date Collected: 11/06/24 12:55
Matrix: Ground Water
Date Received: 11/08/24 10:09

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**190**		3.0	0.97	ng/L		11/13/24 15:32	11/16/24 21:20	1
Perfluoropentanoic acid (PFPeA)	**120**		1.5	0.45	ng/L		11/13/24 15:32	11/16/24 21:20	1
Perfluorohexanoic acid (PFHxA)	**280**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:20	1
Perfluoroheptanoic acid (PFHpA)	**78**		1.5	0.60	ng/L		11/13/24 15:32	11/16/24 21:20	1
Perfluorooctanoic acid (PFOA)	**270**		1.5	0.67	ng/L		11/13/24 15:32	11/16/24 21:20	1
Perfluorononanoic acid (PFNA)	**4.6**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:20	1
Perfluorodecanoic acid (PFDA)	**2.6**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:20	1
Perfluoroundecanoic acid (PFUnA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:20	1
Perfluorododecanoic acid (PFDoA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:20	1
Perfluorotridecanoic acid (PFTrDA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:20	1
Perfluorotetradecanoic acid (PFTeDA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:20	1
Perfluorobutanesulfonic acid (PFBS)	**23**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:20	1
Perfluoropentanesulfonic acid (PFPeS)	**17**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:20	1
Perfluorohexanesulfonic acid (PFHxS)	**81**		1.5	0.60	ng/L		11/13/24 15:32	11/16/24 21:20	1
Perfluoroheptanesulfonic acid (PFHpS)	**7.1**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:20	1
Perfluorooctanesulfonic acid (PFOS)	**300**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:20	1
Perfluorononanesulfonic acid (PFNS)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:20	1
Perfluorodecanesulfonic acid (PFDS)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:20	1
Perfluorododecanesulfonic acid (PFDoS)	1.5	U	1.5	0.45	ng/L		11/13/24 15:32	11/16/24 21:20	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	3.0	U	3.0	0.74	ng/L		11/13/24 15:32	11/16/24 21:20	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	**2.3**	**J**	3.0	0.74	ng/L		11/13/24 15:32	11/16/24 21:20	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	3.0	U	3.0	0.74	ng/L		11/13/24 15:32	11/16/24 21:20	1
Perfluorooctanesulfonamide (PFOSA)	**6.3**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:20	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:20	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:20	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	**21**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:20	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	**10**		1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:20	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	7.4	U	7.4	1.9	ng/L		11/13/24 15:32	11/16/24 21:20	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	7.4	U	7.4	1.9	ng/L		11/13/24 15:32	11/16/24 21:20	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.5	U	1.5	0.56	ng/L		11/13/24 15:32	11/16/24 21:20	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:20	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:20	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:20	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:20	1

Client: Babb & Associates
Job ID: 680-258309-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-Duplicate
Lab Sample ID: 680-258309-10
Date Collected: 11/06/24 12:55
Matrix: Ground Water
Date Received: 11/08/24 10:09

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:20	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:20	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	1.5	U	1.5	0.37	ng/L		11/13/24 15:32	11/16/24 21:20	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	**9.8**		3.0	0.74	ng/L		11/13/24 15:32	11/16/24 21:20	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	**41**		7.4	2.1	ng/L		11/13/24 15:32	11/16/24 21:20	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	7.4	U	7.4	1.9	ng/L		11/13/24 15:32	11/16/24 21:20	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4-PFBA	*104*		*5 - 130*	*11/13/24 15:32*	*11/16/24 21:20*	*1*
13C5-PFPeA	*111*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:20*	*1*
13C5-PFHxA	*109*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:20*	*1*
13C4-PFHpA	*123*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:20*	*1*
13C8-PFOA	*123*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:20*	*1*
13C9-PFNA	*112*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:20*	*1*
13C6-PFDA	*99.7*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:20*	*1*
13C7-PFUnA	*90.9*		*30 - 130*	*11/13/24 15:32*	*11/16/24 21:20*	*1*
13C2-PFTeDA	*82.8*		*10 - 130*	*11/13/24 15:32*	*11/16/24 21:20*	*1*
13C3-PFBS	*112*		*40 - 135*	*11/13/24 15:32*	*11/16/24 21:20*	*1*
13C3-PFHxS	*107*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:20*	*1*
13C8-PFOS	*105*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:20*	*1*
13C8-PFOSA	*93.5*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:20*	*1*
d3-NMeFOSAA	*99.2*		*40 - 170*	*11/13/24 15:32*	*11/16/24 21:20*	*1*
d5-NEtFOSAA	*93.9*		*25 - 135*	*11/13/24 15:32*	*11/16/24 21:20*	*1*
13C2 4:2 FTS	*116*		*40 - 200*	*11/13/24 15:32*	*11/16/24 21:20*	*1*
13C2 6:2 FTS	*117*		*40 - 200*	*11/13/24 15:32*	*11/16/24 21:20*	*1*
13C2 8:2 FTS	*108*		*40 - 300*	*11/13/24 15:32*	*11/16/24 21:20*	*1*
13C3-HFPO-DA	*106*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:20*	*1*
D7-NMeFOSE	*70.5*		*10 - 130*	*11/13/24 15:32*	*11/16/24 21:20*	*1*
D9-NEtFOSE	*65.8*		*10 - 130*	*11/13/24 15:32*	*11/16/24 21:20*	*1*
d5-NEtPFOSA	*63.6*		*10 - 130*	*11/13/24 15:32*	*11/16/24 21:20*	*1*
d3-NMePFOSA	*67.0*		*10 - 130*	*11/13/24 15:32*	*11/16/24 21:20*	*1*
13C2 PFDoA	*75.7*		*10 - 130*	*11/13/24 15:32*	*11/16/24 21:20*	*1*

Client: Babb & Associates
Job ID: 680-258309-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-EB Hydrosleeve
Lab Sample ID: 680-258309-11
Date Collected: 11/06/24 08:45
Matrix: Water
Date Received: 11/08/24 10:09

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.9	U	2.9	0.93	ng/L		11/13/24 15:32	11/16/24 21:34	1
Perfluoropentanoic acid (PFPeA)	1.4	U	1.4	0.43	ng/L		11/13/24 15:32	11/16/24 21:34	1
Perfluorohexanoic acid (PFHxA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:34	1
Perfluoroheptanoic acid (PFHpA)	1.4	U	1.4	0.57	ng/L		11/13/24 15:32	11/16/24 21:34	1
Perfluorooctanoic acid (PFOA)	1.4	U	1.4	0.64	ng/L		11/13/24 15:32	11/16/24 21:34	1
Perfluorononanoic acid (PFNA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:34	1
Perfluorodecanoic acid (PFDA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:34	1
Perfluoroundecanoic acid (PFUnA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:34	1
Perfluorododecanoic acid (PFDoA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:34	1
Perfluorotridecanoic acid (PFTrDA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:34	1
Perfluorotetradecanoic acid (PFTeDA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:34	1
Perfluorobutanesulfonic acid (PFBS)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:34	1
Perfluoropentanesulfonic acid (PFPeS)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:34	1
Perfluorohexanesulfonic acid (PFHxS)	1.4	U	1.4	0.57	ng/L		11/13/24 15:32	11/16/24 21:34	1
Perfluoroheptanesulfonic acid (PFHpS)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:34	1
Perfluorooctanesulfonic acid (PFOS)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:34	1
Perfluorononanesulfonic acid (PFNS)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:34	1
Perfluorodecanesulfonic acid (PFDS)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:34	1
Perfluorododecanesulfonic acid (PFDoS)	1.4	U	1.4	0.43	ng/L		11/13/24 15:32	11/16/24 21:34	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.9	U	2.9	0.71	ng/L		11/13/24 15:32	11/16/24 21:34	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.9	U	2.9	0.71	ng/L		11/13/24 15:32	11/16/24 21:34	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.9	U	2.9	0.71	ng/L		11/13/24 15:32	11/16/24 21:34	1
Perfluorooctanesulfonamide (PFOSA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:34	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:34	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:34	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:34	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:34	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	7.1	U	7.1	1.8	ng/L		11/13/24 15:32	11/16/24 21:34	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	7.1	U	7.1	1.8	ng/L		11/13/24 15:32	11/16/24 21:34	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.4	U	1.4	0.53	ng/L		11/13/24 15:32	11/16/24 21:34	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:34	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:34	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:34	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:34	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:34	1

Client Sample ID: 4101-EB Hydrosleeve
Lab Sample ID: 680-258309-11
Date Collected: 11/06/24 08:45
Matrix: Water
Date Received: 11/08/24 10:09

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:34	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:34	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	2.9	U	2.9	0.71	ng/L		11/13/24 15:32	11/16/24 21:34	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	7.1	U	7.1	2.0	ng/L		11/13/24 15:32	11/16/24 21:34	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	7.1	U	7.1	1.8	ng/L		11/13/24 15:32	11/16/24 21:34	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4-PFBA	*96.7*		*5 - 130*	*11/13/24 15:32*	*11/16/24 21:34*	*1*
13C5-PFPeA	*106*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:34*	*1*
13C5-PFHxA	*103*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:34*	*1*
13C4-PFHpA	*111*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:34*	*1*
13C8-PFOA	*108*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:34*	*1*
13C9-PFNA	*106*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:34*	*1*
13C6-PFDA	*96.5*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:34*	*1*
13C7-PFUnA	*92.1*		*30 - 130*	*11/13/24 15:32*	*11/16/24 21:34*	*1*
13C2-PFTeDA	*75.9*		*10 - 130*	*11/13/24 15:32*	*11/16/24 21:34*	*1*
13C3-PFBS	*86.8*		*40 - 135*	*11/13/24 15:32*	*11/16/24 21:34*	*1*
13C3-PFHxS	*94.2*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:34*	*1*
13C8-PFOS	*105*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:34*	*1*
13C8-PFOSA	*86.5*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:34*	*1*
d3-NMeFOSAA	*89.3*		*40 - 170*	*11/13/24 15:32*	*11/16/24 21:34*	*1*
d5-NEtFOSAA	*84.7*		*25 - 135*	*11/13/24 15:32*	*11/16/24 21:34*	*1*
13C2 4:2 FTS	*91.7*		*40 - 200*	*11/13/24 15:32*	*11/16/24 21:34*	*1*
13C2 6:2 FTS	*95.7*		*40 - 200*	*11/13/24 15:32*	*11/16/24 21:34*	*1*
13C2 8:2 FTS	*102*		*40 - 300*	*11/13/24 15:32*	*11/16/24 21:34*	*1*
13C3-HFPO-DA	*103*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:34*	*1*
D7-NMeFOSE	*70.6*		*10 - 130*	*11/13/24 15:32*	*11/16/24 21:34*	*1*
D9-NEtFOSE	*65.2*		*10 - 130*	*11/13/24 15:32*	*11/16/24 21:34*	*1*
d5-NEtPFOSA	*60.6*		*10 - 130*	*11/13/24 15:32*	*11/16/24 21:34*	*1*
d3-NMePFOSA	*66.8*		*10 - 130*	*11/13/24 15:32*	*11/16/24 21:34*	*1*
13C2 PFDoA	*85.0*		*10 - 130*	*11/13/24 15:32*	*11/16/24 21:34*	*1*

Client: Babb & Associates
Job ID: 680-258309-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101- EB Low Flow
Lab Sample ID: 680-258309-12
Date Collected: 11/06/24 09:05
Matrix: Water
Date Received: 11/08/24 10:09

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.9	U	2.9	0.94	ng/L		11/13/24 15:32	11/16/24 21:48	1
Perfluoropentanoic acid (PFPeA)	1.4	U	1.4	0.43	ng/L		11/13/24 15:32	11/16/24 21:48	1
Perfluorohexanoic acid (PFHxA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:48	1
Perfluoroheptanoic acid (PFHpA)	1.4	U	1.4	0.58	ng/L		11/13/24 15:32	11/16/24 21:48	1
Perfluorooctanoic acid (PFOA)	1.4	U	1.4	0.65	ng/L		11/13/24 15:32	11/16/24 21:48	1
Perfluorononanoic acid (PFNA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:48	1
Perfluorodecanoic acid (PFDA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:48	1
Perfluoroundecanoic acid (PFUnA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:48	1
Perfluorododecanoic acid (PFDoA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:48	1
Perfluorotridecanoic acid (PFTrDA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:48	1
Perfluorotetradecanoic acid (PFTeDA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:48	1
Perfluorobutanesulfonic acid (PFBS)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:48	1
Perfluoropentanesulfonic acid (PFPeS)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:48	1
Perfluorohexanesulfonic acid (PFHxS)	1.4	U	1.4	0.58	ng/L		11/13/24 15:32	11/16/24 21:48	1
Perfluoroheptanesulfonic acid (PFHpS)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:48	1
Perfluorooctanesulfonic acid (PFOS)	**2.0**		1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:48	1
Perfluorononanesulfonic acid (PFNS)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:48	1
Perfluorodecanesulfonic acid (PFDS)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:48	1
Perfluorododecanesulfonic acid (PFDoS)	1.4	U	1.4	0.43	ng/L		11/13/24 15:32	11/16/24 21:48	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.9	U	2.9	0.72	ng/L		11/13/24 15:32	11/16/24 21:48	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.9	U	2.9	0.72	ng/L		11/13/24 15:32	11/16/24 21:48	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.9	U	2.9	0.72	ng/L		11/13/24 15:32	11/16/24 21:48	1
Perfluorooctanesulfonamide (PFOSA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:48	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:48	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:48	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:48	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:48	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	7.2	U	7.2	1.8	ng/L		11/13/24 15:32	11/16/24 21:48	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	7.2	U	7.2	1.8	ng/L		11/13/24 15:32	11/16/24 21:48	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.4	U	1.4	0.54	ng/L		11/13/24 15:32	11/16/24 21:48	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:48	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:48	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:48	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:48	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:48	1

Client Sample ID: 4101- EB Low Flow
Lab Sample ID: 680-258309-12
Date Collected: 11/06/24 09:05
Matrix: Water
Date Received: 11/08/24 10:09

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:48	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	1.4	U	1.4	0.36	ng/L		11/13/24 15:32	11/16/24 21:48	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	2.9	U	2.9	0.72	ng/L		11/13/24 15:32	11/16/24 21:48	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	7.2	U	7.2	2.0	ng/L		11/13/24 15:32	11/16/24 21:48	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	7.2	U	7.2	1.8	ng/L		11/13/24 15:32	11/16/24 21:48	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4-PFBA	*97.5*		*5 - 130*	*11/13/24 15:32*	*11/16/24 21:48*	*1*
13C5-PFPeA	*104*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:48*	*1*
13C5-PFHxA	*98.2*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:48*	*1*
13C4-PFHpA	*99.1*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:48*	*1*
13C8-PFOA	*112*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:48*	*1*
13C9-PFNA	*95.6*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:48*	*1*
13C6-PFDA	*101*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:48*	*1*
13C7-PFUnA	*97.7*		*30 - 130*	*11/13/24 15:32*	*11/16/24 21:48*	*1*
13C2-PFTeDA	*79.6*		*10 - 130*	*11/13/24 15:32*	*11/16/24 21:48*	*1*
13C3-PFBS	*80.5*		*40 - 135*	*11/13/24 15:32*	*11/16/24 21:48*	*1*
13C3-PFHxS	*91.5*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:48*	*1*
13C8-PFOS	*97.2*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:48*	*1*
13C8-PFOSA	*84.4*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:48*	*1*
d3-NMeFOSAA	*77.4*		*40 - 170*	*11/13/24 15:32*	*11/16/24 21:48*	*1*
d5-NEtFOSAA	*74.5*		*25 - 135*	*11/13/24 15:32*	*11/16/24 21:48*	*1*
13C2 4:2 FTS	*83.5*		*40 - 200*	*11/13/24 15:32*	*11/16/24 21:48*	*1*
13C2 6:2 FTS	*90.2*		*40 - 200*	*11/13/24 15:32*	*11/16/24 21:48*	*1*
13C2 8:2 FTS	*86.2*		*40 - 300*	*11/13/24 15:32*	*11/16/24 21:48*	*1*
13C3-HFPO-DA	*99.3*		*40 - 130*	*11/13/24 15:32*	*11/16/24 21:48*	*1*
D7-NMeFOSE	*65.3*		*10 - 130*	*11/13/24 15:32*	*11/16/24 21:48*	*1*
D9-NEtFOSE	*62.4*		*10 - 130*	*11/13/24 15:32*	*11/16/24 21:48*	*1*
d5-NEtPFOSA	*55.9*		*10 - 130*	*11/13/24 15:32*	*11/16/24 21:48*	*1*
d3-NMePFOSA	*62.6*		*10 - 130*	*11/13/24 15:32*	*11/16/24 21:48*	*1*
13C2 PFDoA	*78.8*		*10 - 130*	*11/13/24 15:32*	*11/16/24 21:48*	*1*

Isotope Dilution Summary

Client: Babb & Associates
Job ID: 680-258309-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Ground Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA	PFPeA	13C5PHA	C4PFHA	C8PFOA	C9PFNA	C6PFDA	13C7PUA
Lab Sample ID	Client Sample ID	(5-130)	(40-130)	(40-130)	(40-130)	(40-130)	(40-130)	(40-130)	(30-130)
680-258309-1	4101-MW1	98.8	112	103	123	112	111	105	91.4
680-258309-2	4101-MW3C	95.5	100	95.2	107	121	113	112	103
680-258309-3	4101-MW10	101	103	105	105	106	119	105	95.3
680-258309-4	4101-MW12A	101	82.3	98.1	123	105	111	110	95.0
680-258309-5	4101-PW3D	103	120	112	115	121	107	109	112
680-258309-6	4101-PW6I	102	110	101	113	123	107	104	97.2
680-258309-7	4101-W4A	98.2	112	103	112	110	107	95.5	85.9
680-258309-10	4101-Duplicate	104	111	109	123	123	112	99.7	90.9

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFTDA	C3PFBS	C3PFHS	C8PFOS	PFOSA	d3NMFOS	d5NEFOS	M242FTS
Lab Sample ID	Client Sample ID	(10-130)	(40-135)	(40-130)	(40-130)	(40-130)	(40-170)	(25-135)	(40-200)
680-258309-1	4101-MW1	72.2	102	112	96.5	78.3	83.1	80.5	110
680-258309-2	4101-MW3C	82.5	106	113	94.9	80.3	89.0	85.8	114
680-258309-3	4101-MW10	83.1	103	109	111	89.3	107	95.1	160
680-258309-4	4101-MW12A	83.0	87.1	109	106	80.2	99.2	81.8	201
680-258309-5	4101-PW3D	74.6	104	114	111	85.1	107	95.6	106
680-258309-6	4101-PW6I	77.7	103	103	105	78.1	86.8	80.1	122
680-258309-7	4101-W4A	75.2	91.8	103	101	85.1	95.6	79.6	96.6
680-258309-10	4101-Duplicate	82.8	112	107	105	93.5	99.2	93.9	116

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		M262FTS	M282FTS	HFPODA	NMFM	NEFM	d5NPFSA	d3NMFSA	PFDoA
Lab Sample ID	Client Sample ID	(40-200)	(40-300)	(40-130)	(10-130)	(10-130)	(10-130)	(10-130)	(10-130)
680-258309-1	4101-MW1	112	103	104	54.0	51.4	52.7	57.8	77.7
680-258309-2	4101-MW3C	105	108	101	62.4	62.6	59.7	62.7	86.8
680-258309-3	4101-MW10	124	105	104	66.1	62.9	64.2	66.9	85.3
680-258309-4	4101-MW12A	223	162	102	57.0	52.3	53.9	59.7	87.6
680-258309-5	4101-PW3D	114	135	107	59.0	56.4	59.7	64.2	88.2
680-258309-6	4101-PW6I	115	109	95.0	65.1	59.6	56.2	61.6	78.7
680-258309-7	4101-W4A	94.2	105	105	63.0	60.5	61.1	62.5	75.9
680-258309-10	4101-Duplicate	117	108	106	70.5	65.8	63.6	67.0	75.7

Surrogate Legend

PFBA = 13C4-PFBA
PFPeA = 13C5-PFPeA
13C5PHA = 13C5-PFHxA
C4PFHA = 13C4-PFHpA
C8PFOA = 13C8-PFOA
C9PFNA = 13C9-PFNA
C6PFDA = 13C6-PFDA
13C7PUA = 13C7-PFUnA
PFTDA = 13C2-PFTeDA
C3PFBS = 13C3-PFBS
C3PFHS = 13C3-PFHxS
C8PFOS = 13C8-PFOS
PFOSA = 13C8-PFOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = 13C2 4:2 FTS
M262FTS = 13C2 6:2 FTS

Client: Babb & Associates
Job ID: 680-258309-1
Project/Site: Seaboard/Riverdale Drive MSWLF

M282FTS = 13C2 8:2 FTS
HFPODA = 13C3-HFPO-DA
NMFM = D7-NMeFOSE
NEFM = D9-NEtFOSE
d5NPFSA = d5-NEtPFOSA
d3NMFSA = d3-NMePFOSA
PFDoA = 13C2 PFDoA

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Surface Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA	PFPeA	13C5PHA	C4PFHA	C8PFOA	C9PFNA	C6PFDA	13C7PUA
Lab Sample ID	Client Sample ID	(5-130)	(40-130)	(40-130)	(40-130)	(40-130)	(40-130)	(40-130)	(30-130)
680-258309-8	4101-SW2	84.7	75.0	81.9	90.9	81.4	85.9	84.6	72.7
680-258309-9	4101-SW4	97.7	86.8	95.5	95.2	113	104	107	98.5

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFTDA	C3PFBS	C3PFHS	C8PFOS	PFOSA	d3NMFOS	d5NEFOS	M242FTS
Lab Sample ID	Client Sample ID	(10-130)	(40-135)	(40-130)	(40-130)	(40-130)	(40-170)	(25-135)	(40-200)
680-258309-8	4101-SW2	63.7	80.8	76.2	79.7	64.3	75.7	59.8	152
680-258309-9	4101-SW4	77.2	96.7	103	105	85.0	104	83.9	162

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		M262FTS	M282FTS	HFPODA	NMFM	NEFM	d5NPFSA	d3NMFSA	PFDoA
Lab Sample ID	Client Sample ID	(40-200)	(40-300)	(40-130)	(10-130)	(10-130)	(10-130)	(10-130)	(10-130)
680-258309-8	4101-SW2	117	82.0	76.0	48.5	44.4	50.8	52.6	70.9
680-258309-9	4101-SW4	139	106	93.8	65.2	61.5	63.2	66.5	81.7

Surrogate Legend

PFBA = 13C4-PFBA
PFPeA = 13C5-PFPeA
13C5PHA = 13C5-PFHxA
C4PFHA = 13C4-PFHpA
C8PFOA = 13C8-PFOA
C9PFNA = 13C9-PFNA
C6PFDA = 13C6-PFDA
13C7PUA = 13C7-PFUnA
PFTDA = 13C2-PFTeDA
C3PFBS = 13C3-PFBS
C3PFHS = 13C3-PFHxS
C8PFOS = 13C8-PFOS
PFOSA = 13C8-PFOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = 13C2 4:2 FTS
M262FTS = 13C2 6:2 FTS
M282FTS = 13C2 8:2 FTS
HFPODA = 13C3-HFPO-DA
NMFM = D7-NMeFOSE
NEFM = D9-NEtFOSE
d5NPFSA = d5-NEtPFOSA
d3NMFSA = d3-NMePFOSA
PFDoA = 13C2 PFDoA

Isotope Dilution Summary

Client: Babb & Associates
Job ID: 680-258309-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA	PFPeA	13C5PHA	C4PFHA	C8PFOA	C9PFNA	C6PFDA	13C7PUA
Lab Sample ID	Client Sample ID	(5-130)	(40-130)	(40-130)	(40-130)	(40-130)	(40-130)	(40-130)	(30-130)
680-258309-11	4101-EB Hydrosleeve	96.7	106	103	111	108	106	96.5	92.1
680-258309-12	4101- EB Low Flow	97.5	104	98.2	99.1	112	95.6	101	97.7
LCS 410-574703/2-A	Lab Control Sample	106	108	109	124	125	108	110	105
LCSD 410-574703/3-A	Lab Control Sample Dup	99.7	99.6	94.9	102	109	100	105	99.9
LLCS 410-574703/4-A	Lab Control Sample	95.7	98.7	85.8	92.9	104	98.8	104	103
MB 410-574703/1-A	Method Blank	113	119	120	121	125	121	115	116

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFTDA	C3PFBS	C3PFHS	C8PFOS	PFOSA	d3NMFOS	d5NEFOS	M242FTS
Lab Sample ID	Client Sample ID	(10-130)	(40-135)	(40-130)	(40-130)	(40-130)	(40-170)	(25-135)	(40-200)
680-258309-11	4101-EB Hydrosleeve	75.9	86.8	94.2	105	86.5	89.3	84.7	91.7
680-258309-12	4101- EB Low Flow	79.6	80.5	91.5	97.2	84.4	77.4	74.5	83.5
LCS 410-574703/2-A	Lab Control Sample	89.0	101	112	116	96.7	114	96.8	101
LCSD 410-574703/3-A	Lab Control Sample Dup	88.2	103	98.2	102	85.3	89.7	83.2	106
LLCS 410-574703/4-A	Lab Control Sample	92.5	94.3	103	102	86.7	94.3	85.7	96.2
MB 410-574703/1-A	Method Blank	95.5	109	118	112	94.7	111	103	113

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		M262FTS	M282FTS	HFPODA	NMFM	NEFM	d5NPFSA	d3NMFSA	PFDoA
Lab Sample ID	Client Sample ID	(40-200)	(40-300)	(40-130)	(10-130)	(10-130)	(10-130)	(10-130)	(10-130)
680-258309-11	4101-EB Hydrosleeve	95.7	102	103	70.6	65.2	60.6	66.8	85.0
680-258309-12	4101- EB Low Flow	90.2	86.2	99.3	65.3	62.4	55.9	62.6	78.8
LCS 410-574703/2-A	Lab Control Sample	105	105	110	69.9	66.3	63.7	67.5	92.6
LCSD 410-574703/3-A	Lab Control Sample Dup	110	103	91.3	62.5	58.8	57.6	58.9	94.6
LLCS 410-574703/4-A	Lab Control Sample	107	97.3	93.5	64.2	61.1	61.6	64.0	95.0
MB 410-574703/1-A	Method Blank	109	101	111	71.0	70.9	65.6	68.0	107

Surrogate Legend

PFBA = 13C4-PFBA
PFPeA = 13C5-PFPeA
13C5PHA = 13C5-PFHxA
C4PFHA = 13C4-PFHpA
C8PFOA = 13C8-PFOA
C9PFNA = 13C9-PFNA
C6PFDA = 13C6-PFDA
13C7PUA = 13C7-PFUnA
PFTDA = 13C2-PFTeDA
C3PFBS = 13C3-PFBS
C3PFHS = 13C3-PFHxS
C8PFOS = 13C8-PFOS
PFOSA = 13C8-PFOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = 13C2 4:2 FTS
M262FTS = 13C2 6:2 FTS
M282FTS = 13C2 8:2 FTS
HFPODA = 13C3-HFPO-DA
NMFM = D7-NMeFOSE
NEFM = D9-NEtFOSE
d5NPFSA = d5-NEtPFOSA
d3NMFSA = d3-NMePFOSA
PFDoA = 13C2 PFDoA

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

Lab Sample ID: MB 680-863966/9
Matrix: Water
Analysis Batch: 863966

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	1.0	U	1.0	0.36	ug/L			11/11/24 23:40	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/11/24 23:40	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/11/24 23:40	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/11/24 23:40	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/11/24 23:40	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/11/24 23:40	1
1,2,3-Trichloropropane	1.0	U	1.0	0.48	ug/L			11/11/24 23:40	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/11/24 23:40	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/11/24 23:40	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/11/24 23:40	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/11/24 23:40	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/11/24 23:40	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/11/24 23:40	1
2-Butanone	10	U	10	6.4	ug/L			11/11/24 23:40	1
2-Hexanone	10	U	10	3.2	ug/L			11/11/24 23:40	1
4-Methyl-2-pentanone	10	U	10	2.7	ug/L			11/11/24 23:40	1
Acetone	20	U	20	3.7	ug/L			11/11/24 23:40	1
Acrylonitrile	20	U	20	5.5	ug/L			11/11/24 23:40	1
Benzene	1.0	U	1.0	0.27	ug/L			11/11/24 23:40	1
Bromochloromethane	1.0	U	1.0	0.34	ug/L			11/11/24 23:40	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/11/24 23:40	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/11/24 23:40	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/11/24 23:40	1
Carbon disulfide	5.0	U	5.0	0.43	ug/L			11/11/24 23:40	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/11/24 23:40	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/11/24 23:40	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/11/24 23:40	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/11/24 23:40	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/11/24 23:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/11/24 23:40	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/11/24 23:40	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/11/24 23:40	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/11/24 23:40	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/11/24 23:40	1
Iodomethane	10	U	10	3.9	ug/L			11/11/24 23:40	1
m,p-Xylenes	2.0	U	2.0	0.49	ug/L			11/11/24 23:40	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/11/24 23:40	1
o-Xylene	1.0	U	1.0	0.26	ug/L			11/11/24 23:40	1
Styrene	1.0	U	1.0	0.27	ug/L			11/11/24 23:40	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/11/24 23:40	1
Toluene	1.0	U	1.0	0.25	ug/L			11/11/24 23:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/11/24 23:40	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/11/24 23:40	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/11/24 23:40	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/11/24 23:40	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/11/24 23:40	1
Vinyl acetate	5.0	U	5.0	0.69	ug/L			11/11/24 23:40	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/11/24 23:40	1

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

Lab Sample ID: MB 680-863966/9
Matrix: Water
Analysis Batch: 863966

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes (total)	3.0	U	3.0	0.23	ug/L			11/11/24 23:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*		*11/11/24 23:40*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*11/11/24 23:40*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*11/11/24 23:40*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*11/11/24 23:40*	*1*

Lab Sample ID: LCS 680-863966/4
Matrix: Water
Analysis Batch: 863966

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	50.0	54.3		ug/L		109	70 - 130
1,1,1-Trichloroethane	50.0	59.4		ug/L		119	70 - 130
1,1,2,2-Tetrachloroethane	50.0	52.6		ug/L		105	70 - 130
1,1,2-Trichloroethane	50.0	48.0		ug/L		96	70 - 130
1,1-Dichloroethane	50.0	52.3		ug/L		105	70 - 130
1,1-Dichloroethene	50.0	50.6		ug/L		101	70 - 130
1,2,3-Trichloropropane	50.0	50.2		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	45.1		ug/L		90	70 - 130
1,2-Dibromoethane	50.0	51.7		ug/L		103	70 - 130
1,2-Dichlorobenzene	50.0	55.1		ug/L		110	70 - 130
1,2-Dichloroethane	50.0	54.0		ug/L		108	70 - 130
1,2-Dichloropropane	50.0	51.2		ug/L		102	70 - 130
1,4-Dichlorobenzene	50.0	51.7		ug/L		103	70 - 130
2-Butanone	250	231		ug/L		92	69 - 120
2-Hexanone	250	280		ug/L		112	70 - 130
4-Methyl-2-pentanone	250	288		ug/L		115	68 - 120
Acetone	250	251		ug/L		101	67 - 120
Acrylonitrile	500	539		ug/L		108	70 - 130
Benzene	50.0	51.0		ug/L		102	70 - 130
Bromochloromethane	50.0	50.4		ug/L		101	70 - 130
Bromodichloromethane	50.0	53.6		ug/L		107	70 - 130
Bromoform	50.0	44.0		ug/L		88	69 - 129
Bromomethane	50.0	35.1		ug/L		70	28 - 192
Carbon disulfide	50.0	52.5		ug/L		105	70 - 130
Carbon tetrachloride	50.0	60.6		ug/L		121	70 - 130
Chlorobenzene	50.0	51.0		ug/L		102	70 - 130
Chloroethane	50.0	45.7		ug/L		91	31 - 213
Chloroform	50.0	54.1		ug/L		108	70 - 130
Chloromethane	50.0	59.9		ug/L		120	59 - 127
cis-1,2-Dichloroethene	50.0	51.6		ug/L		103	70 - 130
cis-1,3-Dichloropropene	50.0	51.5		ug/L		103	70 - 130
Dibromochloromethane	50.0	50.3		ug/L		101	70 - 130
Dibromomethane	50.0	51.3		ug/L		103	70 - 130
Ethylbenzene	50.0	53.6		ug/L		107	70 - 130
Iodomethane	50.0	28.5		ug/L		57	52 - 129

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

Lab Sample ID: LCS 680-863966/4
Matrix: Water
Analysis Batch: 863966

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
m,p-Xylenes			50.0	54.7		ug/L		109	70 - 130		
Methylene Chloride			50.0	46.6		ug/L		93	70 - 130		
o-Xylene			50.0	51.9		ug/L		104	70 - 130		
Styrene			50.0	50.9		ug/L		102	70 - 130		
Tetrachloroethene			50.0	53.2		ug/L		106	70 - 130		
Toluene			50.0	51.2		ug/L		102	70 - 130		
trans-1,2-Dichloroethene			50.0	53.0		ug/L		106	70 - 130		
trans-1,3-Dichloropropene			50.0	52.5		ug/L		105	70 - 130		
trans-1,4-Dichloro-2-butene			50.0	56.1		ug/L		112	67 - 120		
Trichloroethene			50.0	53.5		ug/L		107	70 - 130		
Trichlorofluoromethane			50.0	57.0		ug/L		114	63 - 142		
Vinyl acetate			100	160	J2	ug/L		160	67 - 135		
Vinyl chloride			50.0	51.5		ug/L		103	66 - 129		
Xylenes (total)			100	107		ug/L		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*109*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 680-863966/5
Matrix: Water
Analysis Batch: 863966

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			50.0	54.7		ug/L		109	70 - 130	1	30
1,1,1-Trichloroethane			50.0	57.8		ug/L		116	70 - 130	3	30
1,1,2,2-Tetrachloroethane			50.0	54.0		ug/L		108	70 - 130	3	30
1,1,2-Trichloroethane			50.0	48.3		ug/L		97	70 - 130	1	30
1,1-Dichloroethane			50.0	52.6		ug/L		105	70 - 130	1	30
1,1-Dichloroethene			50.0	52.4		ug/L		105	70 - 130	4	20
1,2,3-Trichloropropane			50.0	51.6		ug/L		103	70 - 130	3	30
1,2-Dibromo-3-Chloropropane			50.0	47.9		ug/L		96	70 - 130	6	30
1,2-Dibromoethane			50.0	51.5		ug/L		103	70 - 130	1	30
1,2-Dichlorobenzene			50.0	53.9		ug/L		108	70 - 130	2	30
1,2-Dichloroethane			50.0	55.6		ug/L		111	70 - 130	3	50
1,2-Dichloropropane			50.0	51.2		ug/L		102	70 - 130	0	20
1,4-Dichlorobenzene			50.0	50.4		ug/L		101	70 - 130	3	30
2-Butanone			250	241		ug/L		97	69 - 120	4	30
2-Hexanone			250	287		ug/L		115	70 - 130	2	20
4-Methyl-2-pentanone			250	291		ug/L		116	68 - 120	1	30
Acetone			250	259		ug/L		103	67 - 120	3	30
Acrylonitrile			500	546		ug/L		109	70 - 130	1	30
Benzene			50.0	51.0		ug/L		102	70 - 130	0	30
Bromochloromethane			50.0	51.2		ug/L		102	70 - 130	2	30
Bromodichloromethane			50.0	53.7		ug/L		107	70 - 130	0	30
Bromoform			50.0	46.2		ug/L		92	69 - 129	5	30

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

Lab Sample ID: LCSD 680-863966/5
Matrix: Water
Analysis Batch: 863966

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromomethane	50.0	38.2		ug/L		76	28 - 192	8	30
Carbon disulfide	50.0	53.2		ug/L		106	70 - 130	1	30
Carbon tetrachloride	50.0	59.1		ug/L		118	70 - 130	2	30
Chlorobenzene	50.0	51.5		ug/L		103	70 - 130	1	30
Chloroethane	50.0	46.2		ug/L		92	31 - 213	1	30
Chloroform	50.0	53.2		ug/L		106	70 - 130	2	30
Chloromethane	50.0	59.4		ug/L		119	59 - 127	1	30
cis-1,2-Dichloroethene	50.0	49.9		ug/L		100	70 - 130	3	30
cis-1,3-Dichloropropene	50.0	51.8		ug/L		104	70 - 130	1	20
Dibromochloromethane	50.0	51.1		ug/L		102	70 - 130	2	30
Dibromomethane	50.0	50.8		ug/L		102	70 - 130	1	30
Ethylbenzene	50.0	53.7		ug/L		107	70 - 130	0	20
Iodomethane	50.0	29.0		ug/L		58	52 - 129	2	30
m,p-Xylenes	50.0	53.4		ug/L		107	70 - 130	2	30
Methylene Chloride	50.0	46.7		ug/L		93	70 - 130	0	30
o-Xylene	50.0	52.1		ug/L		104	70 - 130	0	30
Styrene	50.0	50.6		ug/L		101	70 - 130	1	30
Tetrachloroethene	50.0	54.4		ug/L		109	70 - 130	2	30
Toluene	50.0	51.2		ug/L		102	70 - 130	0	30
trans-1,2-Dichloroethene	50.0	51.4		ug/L		103	70 - 130	3	30
trans-1,3-Dichloropropene	50.0	52.7		ug/L		105	70 - 130	0	30
trans-1,4-Dichloro-2-butene	50.0	57.7		ug/L		115	67 - 120	3	30
Trichloroethene	50.0	54.0		ug/L		108	70 - 130	1	30
Trichlorofluoromethane	50.0	55.6		ug/L		111	63 - 142	2	30
Vinyl acetate	100	147	J2	ug/L		147	67 - 135	8	30
Vinyl chloride	50.0	50.4		ug/L		101	66 - 129	2	30
Xylenes (total)	100	106		ug/L		106	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 680-864124/9
Matrix: Water
Analysis Batch: 864124

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	1.0	U	1.0	0.36	ug/L			11/12/24 17:12	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/12/24 17:12	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/12/24 17:12	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/12/24 17:12	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/12/24 17:12	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/12/24 17:12	1
1,2,3-Trichloropropane	1.0	U	1.0	0.48	ug/L			11/12/24 17:12	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/12/24 17:12	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/12/24 17:12	1

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

Lab Sample ID: MB 680-864124/9
Matrix: Water
Analysis Batch: 864124

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 17:12	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/12/24 17:12	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/12/24 17:12	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 17:12	1
2-Butanone	10	U	10	6.4	ug/L			11/12/24 17:12	1
2-Hexanone	10	U	10	3.2	ug/L			11/12/24 17:12	1
4-Methyl-2-pentanone	10	U	10	2.7	ug/L			11/12/24 17:12	1
Acetone	20	U	20	3.7	ug/L			11/12/24 17:12	1
Acrylonitrile	20	U	20	5.5	ug/L			11/12/24 17:12	1
Benzene	1.0	U	1.0	0.27	ug/L			11/12/24 17:12	1
Bromochloromethane	1.0	U	1.0	0.34	ug/L			11/12/24 17:12	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/12/24 17:12	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/12/24 17:12	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/12/24 17:12	1
Carbon disulfide	5.0	U	5.0	0.43	ug/L			11/12/24 17:12	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/12/24 17:12	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/12/24 17:12	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/12/24 17:12	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/12/24 17:12	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/12/24 17:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/12/24 17:12	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/12/24 17:12	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/12/24 17:12	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/12/24 17:12	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/12/24 17:12	1
Iodomethane	10	U	10	3.9	ug/L			11/12/24 17:12	1
m,p-Xylenes	2.0	U	2.0	0.49	ug/L			11/12/24 17:12	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/12/24 17:12	1
o-Xylene	1.0	U	1.0	0.26	ug/L			11/12/24 17:12	1
Styrene	1.0	U	1.0	0.27	ug/L			11/12/24 17:12	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/12/24 17:12	1
Toluene	1.0	U	1.0	0.25	ug/L			11/12/24 17:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/12/24 17:12	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/12/24 17:12	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/12/24 17:12	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/12/24 17:12	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/12/24 17:12	1
Vinyl acetate	5.0	U	5.0	0.69	ug/L			11/12/24 17:12	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/12/24 17:12	1
Xylenes (total)	3.0	U	3.0	0.23	ug/L			11/12/24 17:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*11/12/24 17:12*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*11/12/24 17:12*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*11/12/24 17:12*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*11/12/24 17:12*	*1*

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

Lab Sample ID: LCS 680-864124/4
Matrix: Water
Analysis Batch: 864124

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	50.0	55.1		ug/L		110	70 - 130
1,1,1-Trichloroethane	50.0	49.2		ug/L		98	70 - 130
1,1,2,2-Tetrachloroethane	50.0	54.6		ug/L		109	70 - 130
1,1,2-Trichloroethane	50.0	49.2		ug/L		98	70 - 130
1,1-Dichloroethane	50.0	46.3		ug/L		93	70 - 130
1,1-Dichloroethene	50.0	44.8		ug/L		90	70 - 130
1,2,3-Trichloropropane	50.0	52.5		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	52.7		ug/L		105	70 - 130
1,2-Dibromoethane	50.0	43.6		ug/L		87	70 - 130
1,2-Dichlorobenzene	50.0	50.2		ug/L		100	70 - 130
1,2-Dichloroethane	50.0	52.1		ug/L		104	70 - 130
1,2-Dichloropropane	50.0	55.1		ug/L		110	70 - 130
1,4-Dichlorobenzene	50.0	50.9		ug/L		102	70 - 130
2-Butanone	250	247		ug/L		99	69 - 120
2-Hexanone	250	237		ug/L		95	70 - 130
4-Methyl-2-pentanone	250	251		ug/L		100	68 - 120
Acetone	250	232		ug/L		93	67 - 120
Acrylonitrile	500	493		ug/L		99	70 - 130
Benzene	50.0	51.5		ug/L		103	70 - 130
Bromochloromethane	50.0	48.7		ug/L		97	70 - 130
Bromodichloromethane	50.0	52.5		ug/L		105	70 - 130
Bromoform	50.0	54.5		ug/L		109	69 - 129
Bromomethane	50.0	41.8		ug/L		84	28 - 192
Carbon disulfide	50.0	44.0		ug/L		88	70 - 130
Carbon tetrachloride	50.0	50.4		ug/L		101	70 - 130
Chlorobenzene	50.0	50.9		ug/L		102	70 - 130
Chloroethane	50.0	35.8		ug/L		72	31 - 213
Chloroform	50.0	49.9		ug/L		100	70 - 130
Chloromethane	50.0	36.4		ug/L		73	59 - 127
cis-1,2-Dichloroethene	50.0	53.4		ug/L		107	70 - 130
cis-1,3-Dichloropropene	50.0	51.5		ug/L		103	70 - 130
Dibromochloromethane	50.0	46.8		ug/L		94	70 - 130
Dibromomethane	50.0	51.5		ug/L		103	70 - 130
Ethylbenzene	50.0	52.7		ug/L		105	70 - 130
Iodomethane	50.0	44.6		ug/L		89	52 - 129
m,p-Xylenes	50.0	51.4		ug/L		103	70 - 130
Methylene Chloride	50.0	47.4		ug/L		95	70 - 130
o-Xylene	50.0	52.9		ug/L		106	70 - 130
Styrene	50.0	53.8		ug/L		108	70 - 130
Tetrachloroethene	50.0	48.0		ug/L		96	70 - 130
Toluene	50.0	47.3		ug/L		95	70 - 130
trans-1,2-Dichloroethene	50.0	49.4		ug/L		99	70 - 130
trans-1,3-Dichloropropene	50.0	46.5		ug/L		93	70 - 130
trans-1,4-Dichloro-2-butene	50.0	54.0		ug/L		108	67 - 120
Trichloroethene	50.0	49.8		ug/L		100	70 - 130
Trichlorofluoromethane	50.0	42.9		ug/L		86	63 - 142
Vinyl acetate	100	153	J2	ug/L		153	67 - 135
Vinyl chloride	50.0	40.1		ug/L		80	66 - 129

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

Lab Sample ID: LCS 680-864124/4
Matrix: Water
Analysis Batch: 864124

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes (total)			100	104		ug/L		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*89*		*70 - 130*

Lab Sample ID: LCSD 680-864124/5
Matrix: Water
Analysis Batch: 864124

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			50.0	54.1		ug/L		108	70 - 130	2	30
1,1,1-Trichloroethane			50.0	50.6		ug/L		101	70 - 130	3	30
1,1,2,2-Tetrachloroethane			50.0	64.8		ug/L		130	70 - 130	17	30
1,1,2-Trichloroethane			50.0	48.9		ug/L		98	70 - 130	1	30
1,1-Dichloroethane			50.0	46.4		ug/L		93	70 - 130	0	30
1,1-Dichloroethene			50.0	44.7		ug/L		89	70 - 130	0	20
1,2,3-Trichloropropane			50.0	62.3		ug/L		125	70 - 130	17	30
1,2-Dibromo-3-Chloropropane			50.0	55.6		ug/L		111	70 - 130	6	30
1,2-Dibromoethane			50.0	47.4		ug/L		95	70 - 130	8	30
1,2-Dichlorobenzene			50.0	50.3		ug/L		101	70 - 130	0	30
1,2-Dichloroethane			50.0	48.9		ug/L		98	70 - 130	6	50
1,2-Dichloropropane			50.0	56.6		ug/L		113	70 - 130	3	20
1,4-Dichlorobenzene			50.0	53.2		ug/L		106	70 - 130	4	30
2-Butanone			250	251		ug/L		100	69 - 120	2	30
2-Hexanone			250	236		ug/L		94	70 - 130	1	20
4-Methyl-2-pentanone			250	302	J2	ug/L		121	68 - 120	19	30
Acetone			250	252		ug/L		101	67 - 120	8	30
Acrylonitrile			500	558		ug/L		112	70 - 130	12	30
Benzene			50.0	49.0		ug/L		98	70 - 130	5	30
Bromochloromethane			50.0	49.7		ug/L		99	70 - 130	2	30
Bromodichloromethane			50.0	50.5		ug/L		101	70 - 130	4	30
Bromoform			50.0	55.5		ug/L		111	69 - 129	2	30
Bromomethane			50.0	40.8		ug/L		82	28 - 192	2	30
Carbon disulfide			50.0	44.0		ug/L		88	70 - 130	0	30
Carbon tetrachloride			50.0	50.4		ug/L		101	70 - 130	0	30
Chlorobenzene			50.0	48.8		ug/L		98	70 - 130	4	30
Chloroethane			50.0	39.5		ug/L		79	31 - 213	10	30
Chloroform			50.0	49.2		ug/L		98	70 - 130	1	30
Chloromethane			50.0	36.1		ug/L		72	59 - 127	1	30
cis-1,2-Dichloroethene			50.0	50.6		ug/L		101	70 - 130	5	30
cis-1,3-Dichloropropene			50.0	58.8		ug/L		118	70 - 130	13	20
Dibromochloromethane			50.0	47.0		ug/L		94	70 - 130	1	30
Dibromomethane			50.0	53.0		ug/L		106	70 - 130	3	30
Ethylbenzene			50.0	51.8		ug/L		104	70 - 130	2	20
Iodomethane			50.0	45.2		ug/L		90	52 - 129	1	30

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

Lab Sample ID: LCSD 680-864124/5
Matrix: Water
Analysis Batch: 864124

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			50.0	56.8		ug/L		114	70 - 130	10	30
Methylene Chloride			50.0	49.2		ug/L		98	70 - 130	4	30
o-Xylene			50.0	57.3		ug/L		115	70 - 130	8	30
Styrene			50.0	58.3		ug/L		117	70 - 130	8	30
Tetrachloroethene			50.0	46.4		ug/L		93	70 - 130	3	30
Toluene			50.0	51.5		ug/L		103	70 - 130	9	30
trans-1,2-Dichloroethene			50.0	49.7		ug/L		99	70 - 130	0	30
trans-1,3-Dichloropropene			50.0	54.4		ug/L		109	70 - 130	16	30
trans-1,4-Dichloro-2-butene			50.0	68.3	J2	ug/L		137	67 - 120	23	30
Trichloroethene			50.0	49.4		ug/L		99	70 - 130	1	30
Trichlorofluoromethane			50.0	44.1		ug/L		88	63 - 142	3	30
Vinyl acetate			100	140	J2	ug/L		140	67 - 135	9	30
Vinyl chloride			50.0	40.7		ug/L		81	66 - 129	1	30
Xylenes (total)			100	114		ug/L		114	70 - 130	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Method: 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-863680/5
Matrix: Water
Analysis Batch: 863680

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.0	U	1.0	0.32	ug/L			11/08/24 19:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*46 - 154*		*11/08/24 19:14*	*1*

Lab Sample ID: LCS 680-863680/3
Matrix: Water
Analysis Batch: 863680

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			5.00	4.85		ug/L		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*46 - 154*

Method: 8260D SIM 14D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-863680/4
Matrix: Water
Analysis Batch: 863680

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane			5.00	5.17		ug/L		103	70 - 130	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*46 - 154*

Lab Sample ID: MB 680-863686/7
Matrix: Water
Analysis Batch: 863686

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.0	U	1.0	0.32	ug/L			11/09/24 09:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*46 - 154*		*11/09/24 09:28*	*1*

Lab Sample ID: LCS 680-863686/5
Matrix: Water
Analysis Batch: 863686

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			5.00	5.13		ug/L		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*130*		*46 - 154*

Lab Sample ID: LCSD 680-863686/6
Matrix: Water
Analysis Batch: 863686

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane			5.00	5.06		ug/L		101	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*131*		*46 - 154*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 410-574703/1-A
Matrix: Water
Analysis Batch: 575442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 574703

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.0	U	4.0	1.3	ng/L		11/13/24 15:32	11/16/24 16:48	1
Perfluoropentanoic acid (PFPeA)	2.0	U	2.0	0.60	ng/L		11/13/24 15:32	11/16/24 16:48	1
Perfluorohexanoic acid (PFHxA)	2.0	U	2.0	0.50	ng/L		11/13/24 15:32	11/16/24 16:48	1
Perfluoroheptanoic acid (PFHpA)	2.0	U	2.0	0.80	ng/L		11/13/24 15:32	11/16/24 16:48	1
Perfluorooctanoic acid (PFOA)	2.0	U	2.0	0.90	ng/L		11/13/24 15:32	11/16/24 16:48	1
Perfluorononanoic acid (PFNA)	2.0	U	2.0	0.50	ng/L		11/13/24 15:32	11/16/24 16:48	1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-574703/1-A
Matrix: Water
Analysis Batch: 575442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 574703

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanoic acid (PFDA)	2.0	U	2.0	0.50	ng/L		11/13/24 15:32	11/16/24 16:48	1
Perfluoroundecanoic acid (PFUnA)	2.0	U	2.0	0.50	ng/L		11/13/24 15:32	11/16/24 16:48	1
Perfluorododecanoic acid (PFDoA)	2.0	U	2.0	0.50	ng/L		11/13/24 15:32	11/16/24 16:48	1
Perfluorotridecanoic acid (PFTrDA)	2.0	U	2.0	0.50	ng/L		11/13/24 15:32	11/16/24 16:48	1
Perfluorotetradecanoic acid (PFTeDA)	2.0	U	2.0	0.50	ng/L		11/13/24 15:32	11/16/24 16:48	1
Perfluorobutanesulfonic acid (PFBS)	2.0	U	2.0	0.50	ng/L		11/13/24 15:32	11/16/24 16:48	1
Perfluoropentanesulfonic acid (PFPeS)	2.0	U	2.0	0.50	ng/L		11/13/24 15:32	11/16/24 16:48	1
Perfluorohexanesulfonic acid (PFHxS)	2.0	U	2.0	0.80	ng/L		11/13/24 15:32	11/16/24 16:48	1
Perfluoroheptanesulfonic acid (PFHpS)	2.0	U	2.0	0.50	ng/L		11/13/24 15:32	11/16/24 16:48	1
Perfluorooctanesulfonic acid (PFOS)	2.0	U	2.0	0.50	ng/L		11/13/24 15:32	11/16/24 16:48	1
Perfluorononanesulfonic acid (PFNS)	2.0	U	2.0	0.50	ng/L		11/13/24 15:32	11/16/24 16:48	1
Perfluorodecanesulfonic acid (PFDS)	2.0	U	2.0	0.50	ng/L		11/13/24 15:32	11/16/24 16:48	1
Perfluorododecanesulfonic acid (PFDoS)	2.0	U	2.0	0.60	ng/L		11/13/24 15:32	11/16/24 16:48	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	4.0	U	4.0	1.0	ng/L		11/13/24 15:32	11/16/24 16:48	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.0	U	4.0	1.0	ng/L		11/13/24 15:32	11/16/24 16:48	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.0	U	4.0	1.0	ng/L		11/13/24 15:32	11/16/24 16:48	1
Perfluorooctanesulfonamide (PFOSA)	2.0	U	2.0	0.50	ng/L		11/13/24 15:32	11/16/24 16:48	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.0	U	2.0	0.50	ng/L		11/13/24 15:32	11/16/24 16:48	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.0	U	2.0	0.50	ng/L		11/13/24 15:32	11/16/24 16:48	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.0	U	2.0	0.50	ng/L		11/13/24 15:32	11/16/24 16:48	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.0	U	2.0	0.50	ng/L		11/13/24 15:32	11/16/24 16:48	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	10	U	10	2.5	ng/L		11/13/24 15:32	11/16/24 16:48	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	10	U	10	2.5	ng/L		11/13/24 15:32	11/16/24 16:48	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.0	U	2.0	0.75	ng/L		11/13/24 15:32	11/16/24 16:48	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.0	U	2.0	0.50	ng/L		11/13/24 15:32	11/16/24 16:48	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.0	U	2.0	0.50	ng/L		11/13/24 15:32	11/16/24 16:48	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.0	U	2.0	0.50	ng/L		11/13/24 15:32	11/16/24 16:48	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.0	U	2.0	0.50	ng/L		11/13/24 15:32	11/16/24 16:48	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	2.0	0.50	ng/L		11/13/24 15:32	11/16/24 16:48	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	2.0	0.50	ng/L		11/13/24 15:32	11/16/24 16:48	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.0	U	2.0	0.50	ng/L		11/13/24 15:32	11/16/24 16:48	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	4.0	U	4.0	1.0	ng/L		11/13/24 15:32	11/16/24 16:48	1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-574703/1-A
Matrix: Water
Analysis Batch: 575442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 574703

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoropentylpropanoic acid (5:3 FTCA)	10	U	10	2.8	ng/L		11/13/24 15:32	11/16/24 16:48	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	10	U	10	2.5	ng/L		11/13/24 15:32	11/16/24 16:48	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4-PFBA	*113*		*5 - 130*	*11/13/24 15:32*	*11/16/24 16:48*	*1*
13C5-PFPeA	*119*		*40 - 130*	*11/13/24 15:32*	*11/16/24 16:48*	*1*
13C5-PFHxA	*120*		*40 - 130*	*11/13/24 15:32*	*11/16/24 16:48*	*1*
13C4-PFHpA	*121*		*40 - 130*	*11/13/24 15:32*	*11/16/24 16:48*	*1*
13C8-PFOA	*125*		*40 - 130*	*11/13/24 15:32*	*11/16/24 16:48*	*1*
13C9-PFNA	*121*		*40 - 130*	*11/13/24 15:32*	*11/16/24 16:48*	*1*
13C6-PFDA	*115*		*40 - 130*	*11/13/24 15:32*	*11/16/24 16:48*	*1*
13C7-PFUnA	*116*		*30 - 130*	*11/13/24 15:32*	*11/16/24 16:48*	*1*
13C2-PFTeDA	*95.5*		*10 - 130*	*11/13/24 15:32*	*11/16/24 16:48*	*1*
13C3-PFBS	*109*		*40 - 135*	*11/13/24 15:32*	*11/16/24 16:48*	*1*
13C3-PFHxS	*118*		*40 - 130*	*11/13/24 15:32*	*11/16/24 16:48*	*1*
13C8-PFOS	*112*		*40 - 130*	*11/13/24 15:32*	*11/16/24 16:48*	*1*
13C8-PFOSA	*94.7*		*40 - 130*	*11/13/24 15:32*	*11/16/24 16:48*	*1*
d3-NMeFOSAA	*111*		*40 - 170*	*11/13/24 15:32*	*11/16/24 16:48*	*1*
d5-NEtFOSAA	*103*		*25 - 135*	*11/13/24 15:32*	*11/16/24 16:48*	*1*
13C2 4:2 FTS	*113*		*40 - 200*	*11/13/24 15:32*	*11/16/24 16:48*	*1*
13C2 6:2 FTS	*109*		*40 - 200*	*11/13/24 15:32*	*11/16/24 16:48*	*1*
13C2 8:2 FTS	*101*		*40 - 300*	*11/13/24 15:32*	*11/16/24 16:48*	*1*
13C3-HFPO-DA	*111*		*40 - 130*	*11/13/24 15:32*	*11/16/24 16:48*	*1*
D7-NMeFOSE	*71.0*		*10 - 130*	*11/13/24 15:32*	*11/16/24 16:48*	*1*
D9-NEtFOSE	*70.9*		*10 - 130*	*11/13/24 15:32*	*11/16/24 16:48*	*1*
d5-NEtPFOSA	*65.6*		*10 - 130*	*11/13/24 15:32*	*11/16/24 16:48*	*1*
d3-NMePFOSA	*68.0*		*10 - 130*	*11/13/24 15:32*	*11/16/24 16:48*	*1*
13C2 PFDoA	*107*		*10 - 130*	*11/13/24 15:32*	*11/16/24 16:48*	*1*

Lab Sample ID: LCS 410-574703/2-A
Matrix: Water
Analysis Batch: 575442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574703

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	80.0	79.0		ng/L		99	70 - 140
Perfluoropentanoic acid (PFPeA)	40.0	40.1		ng/L		100	65 - 135
Perfluorohexanoic acid (PFHxA)	40.0	42.0		ng/L		105	70 - 145
Perfluoroheptanoic acid (PFHpA)	40.0	38.2		ng/L		96	70 - 150
Perfluorooctanoic acid (PFOA)	40.0	41.4		ng/L		103	70 - 150
Perfluorononanoic acid (PFNA)	40.0	40.1		ng/L		100	70 - 150
Perfluorodecanoic acid (PFDA)	40.0	41.0		ng/L		102	70 - 140
Perfluoroundecanoic acid (PFUnA)	40.0	43.8		ng/L		110	70 - 145
Perfluorododecanoic acid (PFDoA)	40.0	45.9		ng/L		115	70 - 140
Perfluorotridecanoic acid (PFTrDA)	40.0	41.5		ng/L		104	65 - 140

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-574703/2-A
Matrix: Water
Analysis Batch: 575442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574703

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorotetradecanoic acid (PFTeDA)	40.0	45.5		ng/L		114	60 - 140
Perfluorobutanesulfonic acid (PFBS)	35.5	30.0		ng/L		85	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.6	36.2		ng/L		96	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	36.5	34.0		ng/L		93	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	38.2	28.5		ng/L		75	70 - 150
Perfluorooctanesulfonic acid (PFOS)	37.2	35.2		ng/L		95	55 - 150
Perfluorononanesulfonic acid (PFNS)	38.5	32.5		ng/L		84	65 - 145
Perfluorodecanesulfonic acid (PFDS)	38.6	32.2		ng/L		84	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	38.8	35.6		ng/L		92	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	74.7	75.4		ng/L		101	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	75.8	68.9		ng/L		91	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.8	76.4		ng/L		100	60 - 150
Perfluorooctanesulfonamide (PFOSA)	40.0	35.2		ng/L		88	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	46.2		ng/L		116	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	42.4		ng/L		106	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	31.8		ng/L		79	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	36.3		ng/L		91	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	224		ng/L		112	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	200	212		ng/L		106	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	29.2		ng/L		97	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	37.8		ng/L		100	65 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	41.1		ng/L		103	55 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	42.6		ng/L		107	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	46.2		ng/L		116	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	37.4	39.9		ng/L		107	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	37.8	33.7		ng/L		89	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	35.6	37.3		ng/L		105	70 - 140

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-574703/2-A
Matrix: Water
Analysis Batch: 575442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574703

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
3-Perfluoropropylpropanoic acid (3:3 FTCA)	80.0	70.3		ng/L		88	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	199		ng/L		100	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	198		ng/L		99	50 - 145

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4-PFBA	*106*		*5 - 130*
13C5-PFPeA	*108*		*40 - 130*
13C5-PFHxA	*109*		*40 - 130*
13C4-PFHpA	*124*		*40 - 130*
13C8-PFOA	*125*		*40 - 130*
13C9-PFNA	*108*		*40 - 130*
13C6-PFDA	*110*		*40 - 130*
13C7-PFUnA	*105*		*30 - 130*
13C2-PFTeDA	*89.0*		*10 - 130*
13C3-PFBS	*101*		*40 - 135*
13C3-PFHxS	*112*		*40 - 130*
13C8-PFOS	*116*		*40 - 130*
13C8-PFOSA	*96.7*		*40 - 130*
d3-NMeFOSAA	*114*		*40 - 170*
d5-NEtFOSAA	*96.8*		*25 - 135*
13C2 4:2 FTS	*101*		*40 - 200*
13C2 6:2 FTS	*105*		*40 - 200*
13C2 8:2 FTS	*105*		*40 - 300*
13C3-HFPO-DA	*110*		*40 - 130*
D7-NMeFOSE	*69.9*		*10 - 130*
D9-NEtFOSE	*66.3*		*10 - 130*
d5-NEtPFOSA	*63.7*		*10 - 130*
d3-NMePFOSA	*67.5*		*10 - 130*
13C2 PFDoA	*92.6*		*10 - 130*

Lab Sample ID: LCSD 410-574703/3-A
Matrix: Water
Analysis Batch: 575442

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 574703

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	80.0	77.8		ng/L		97	70 - 140	2	30
Perfluoropentanoic acid (PFPeA)	40.0	39.4		ng/L		98	65 - 135	2	30
Perfluorohexanoic acid (PFHxA)	40.0	45.9		ng/L		115	70 - 145	9	30
Perfluoroheptanoic acid (PFHpA)	40.0	37.7		ng/L		94	70 - 150	1	30
Perfluorooctanoic acid (PFOA)	40.0	41.1		ng/L		103	70 - 150	1	30
Perfluorononanoic acid (PFNA)	40.0	39.9		ng/L		100	70 - 150	0	30
Perfluorodecanoic acid (PFDA)	40.0	44.3		ng/L		111	70 - 140	8	30
Perfluoroundecanoic acid (PFUnA)	40.0	38.8		ng/L		97	70 - 145	12	30
Perfluorododecanoic acid (PFDoA)	40.0	44.3		ng/L		111	70 - 140	4	30

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCSD 410-574703/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 575442
Prep Batch: 574703

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorotridecanoic acid (PFTrDA)	40.0	39.5		ng/L		99	65 - 140	5	30
Perfluorotetradecanoic acid (PFTeDA)	40.0	44.4		ng/L		111	60 - 140	2	30
Perfluorobutanesulfonic acid (PFBS)	35.5	31.9		ng/L		90	60 - 145	6	30
Perfluoropentanesulfonic acid (PFPeS)	37.6	38.8		ng/L		103	65 - 140	7	30
Perfluorohexanesulfonic acid (PFHxS)	36.5	38.3		ng/L		105	65 - 145	12	30
Perfluoroheptanesulfonic acid (PFHpS)	38.2	28.3		ng/L		74	70 - 150	1	30
Perfluorooctanesulfonic acid (PFOS)	37.2	37.5		ng/L		101	55 - 150	6	30
Perfluorononanesulfonic acid (PFNS)	38.5	33.5		ng/L		87	65 - 145	3	30
Perfluorodecanesulfonic acid (PFDS)	38.6	29.6		ng/L		77	60 - 145	8	30
Perfluorododecanesulfonic acid (PFDoS)	38.8	35.0		ng/L		90	50 - 145	2	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	74.7	67.7		ng/L		91	70 - 145	11	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	75.8	68.8		ng/L		91	65 - 155	0	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.8	70.9		ng/L		92	60 - 150	8	30
Perfluorooctanesulfonamide (PFOSA)	40.0	37.4		ng/L		93	70 - 145	6	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	47.6		ng/L		119	60 - 150	3	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	42.7		ng/L		107	65 - 145	1	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	38.1		ng/L		95	50 - 140	18	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	37.4		ng/L		93	70 - 145	3	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	219		ng/L		110	70 - 145	2	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	200	213		ng/L		106	70 - 135	0	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	31.3		ng/L		104	70 - 140	7	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	40.1		ng/L		106	65 - 145	6	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	41.1		ng/L		103	55 - 140	0	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	41.6		ng/L		104	60 - 150	2	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	46.0		ng/L		115	50 - 150	0	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	37.4	40.3		ng/L		108	70 - 155	1	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	37.8	32.7		ng/L		87	55 - 160	3	30

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCSD 410-574703/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 575442
Prep Batch: 574703

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)			35.6	40.9		ng/L		115	70 - 140	9	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)			80.0	74.4		ng/L		93	65 - 130	6	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)			200	208		ng/L		104	70 - 135	4	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)			200	195		ng/L		97	50 - 145	2	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4-PFBA	*99.7*		*5 - 130*
13C5-PFPeA	*99.6*		*40 - 130*
13C5-PFHxA	*94.9*		*40 - 130*
13C4-PFHpA	*102*		*40 - 130*
13C8-PFOA	*109*		*40 - 130*
13C9-PFNA	*100*		*40 - 130*
13C6-PFDA	*105*		*40 - 130*
13C7-PFUnA	*99.9*		*30 - 130*
13C2-PFTeDA	*88.2*		*10 - 130*
13C3-PFBS	*103*		*40 - 135*
13C3-PFHxS	*98.2*		*40 - 130*
13C8-PFOS	*102*		*40 - 130*
13C8-PFOSA	*85.3*		*40 - 130*
d3-NMeFOSAA	*89.7*		*40 - 170*
d5-NEtFOSAA	*83.2*		*25 - 135*
13C2 4:2 FTS	*106*		*40 - 200*
13C2 6:2 FTS	*110*		*40 - 200*
13C2 8:2 FTS	*103*		*40 - 300*
13C3-HFPO-DA	*91.3*		*40 - 130*
D7-NMeFOSE	*62.5*		*10 - 130*
D9-NEtFOSE	*58.8*		*10 - 130*
d5-NEtPFOSA	*57.6*		*10 - 130*
d3-NMePFOSA	*58.9*		*10 - 130*
13C2 PFDoA	*94.6*		*10 - 130*

Lab Sample ID: LLCS 410-574703/4-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 575442
Prep Batch: 574703

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluorobutanoic acid (PFBA)			8.00	8.77		ng/L		110	70 - 140		
Perfluoropentanoic acid (PFPeA)			4.00	3.57		ng/L		89	65 - 135		
Perfluorohexanoic acid (PFHxA)			4.00	4.85		ng/L		121	70 - 145		
Perfluoroheptanoic acid (PFHpA)			4.00	4.31		ng/L		108	70 - 150		
Perfluorooctanoic acid (PFOA)			4.00	4.60		ng/L		115	70 - 150		
Perfluorononanoic acid (PFNA)			4.00	4.49		ng/L		112	70 - 150		
Perfluorodecanoic acid (PFDA)			4.00	3.63		ng/L		91	70 - 140		
Perfluoroundecanoic acid (PFUnA)			4.00	3.57		ng/L		89	70 - 145		

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-574703/4-A
Matrix: Water
Analysis Batch: 575442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574703

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorododecanoic acid (PFDoA)	4.00	3.94		ng/L		98	70 - 140
Perfluorotridecanoic acid (PFTrDA)	4.00	3.29		ng/L		82	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	4.00	4.14		ng/L		103	60 - 140
Perfluorobutanesulfonic acid (PFBS)	3.54	3.30		ng/L		93	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	3.75	3.86		ng/L		103	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	3.64	3.34		ng/L		92	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	3.81	3.75		ng/L		98	70 - 150
Perfluorooctanesulfonic acid (PFOS)	3.71	3.07		ng/L		83	55 - 150
Perfluorononanesulfonic acid (PFNS)	3.84	3.15		ng/L		82	65 - 145
Perfluorodecanesulfonic acid (PFDS)	3.86	3.27		ng/L		85	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	3.87	3.57		ng/L		92	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	7.47	7.33		ng/L		98	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.58	6.93		ng/L		91	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.66	6.96		ng/L		91	60 - 150
Perfluorooctanesulfonamide (PFOSA)	4.00	3.62		ng/L		90	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	4.00	4.18		ng/L		104	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4.00	4.34		ng/L		109	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.00	4.12		ng/L		103	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.00	4.21		ng/L		105	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	20.0	21.4		ng/L		107	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	20.0	20.0		ng/L		100	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	3.00	2.80		ng/L		93	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.77	3.61		ng/L		96	65 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	3.98		ng/L		99	55 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.00	3.59		ng/L		90	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.00	4.37		ng/L		109	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	3.73	3.74		ng/L		100	70 - 155

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-574703/4-A
Matrix: Water
Analysis Batch: 575442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574703

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	3.77	3.37		ng/L		89	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.56	4.12		ng/L		116	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	8.00	8.36		ng/L		105	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	20.0	22.3		ng/L		112	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	20.0	20.2		ng/L		101	50 - 145

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4-PFBA	*95.7*		*5 - 130*
13C5-PFPeA	*98.7*		*40 - 130*
13C5-PFHxA	*85.8*		*40 - 130*
13C4-PFHpA	*92.9*		*40 - 130*
13C8-PFOA	*104*		*40 - 130*
13C9-PFNA	*98.8*		*40 - 130*
13C6-PFDA	*104*		*40 - 130*
13C7-PFUnA	*103*		*30 - 130*
13C2-PFTeDA	*92.5*		*10 - 130*
13C3-PFBS	*94.3*		*40 - 135*
13C3-PFHxS	*103*		*40 - 130*
13C8-PFOS	*102*		*40 - 130*
13C8-PFOSA	*86.7*		*40 - 130*
d3-NMeFOSAA	*94.3*		*40 - 170*
d5-NEtFOSAA	*85.7*		*25 - 135*
13C2 4:2 FTS	*96.2*		*40 - 200*
13C2 6:2 FTS	*107*		*40 - 200*
13C2 8:2 FTS	*97.3*		*40 - 300*
13C3-HFPO-DA	*93.5*		*40 - 130*
D7-NMeFOSE	*64.2*		*10 - 130*
D9-NEtFOSE	*61.1*		*10 - 130*
d5-NEtPFOSA	*61.6*		*10 - 130*
d3-NMePFOSA	*64.0*		*10 - 130*
13C2 PFDoA	*95.0*		*10 - 130*

GC/MS VOA

Analysis Batch: 863680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258309-1	4101-MW1	Total/NA	Ground Water	8260D SIM 14D	
680-258309-2	4101-MW3C	Total/NA	Ground Water	8260D SIM 14D	
MB 680-863680/5	Method Blank	Total/NA	Water	8260D SIM 14D	
LCS 680-863680/3	Lab Control Sample	Total/NA	Water	8260D SIM 14D	
LCSD 680-863680/4	Lab Control Sample Dup	Total/NA	Water	8260D SIM 14D	

Analysis Batch: 863686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258309-3	4101-MW10	Total/NA	Ground Water	8260D SIM 14D	
680-258309-4	4101-MW12A	Total/NA	Ground Water	8260D SIM 14D	
680-258309-5	4101-PW3D	Total/NA	Ground Water	8260D SIM 14D	
680-258309-6	4101-PW6I	Total/NA	Ground Water	8260D SIM 14D	
680-258309-7	4101-W4A	Total/NA	Ground Water	8260D SIM 14D	
680-258309-8	4101-SW2	Total/NA	Surface Water	8260D SIM 14D	
680-258309-9	4101-SW4	Total/NA	Surface Water	8260D SIM 14D	
MB 680-863686/7	Method Blank	Total/NA	Water	8260D SIM 14D	
LCS 680-863686/5	Lab Control Sample	Total/NA	Water	8260D SIM 14D	
LCSD 680-863686/6	Lab Control Sample Dup	Total/NA	Water	8260D SIM 14D	

Analysis Batch: 863966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258309-1	4101-MW1	Total/NA	Ground Water	8260D	
680-258309-2	4101-MW3C	Total/NA	Ground Water	8260D	
680-258309-3	4101-MW10	Total/NA	Ground Water	8260D	
680-258309-4	4101-MW12A	Total/NA	Ground Water	8260D	
680-258309-5	4101-PW3D	Total/NA	Ground Water	8260D	
680-258309-6	4101-PW6I	Total/NA	Ground Water	8260D	
680-258309-7	4101-W4A	Total/NA	Ground Water	8260D	
680-258309-8	4101-SW2	Total/NA	Surface Water	8260D	
680-258309-9	4101-SW4	Total/NA	Surface Water	8260D	
MB 680-863966/9	Method Blank	Total/NA	Water	8260D	
LCS 680-863966/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-863966/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 864124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258309-5 - DL	4101-PW3D	Total/NA	Ground Water	8260D	
680-258309-6	4101-PW6I	Total/NA	Ground Water	8260D	
680-258309-7	4101-W4A	Total/NA	Ground Water	8260D	
680-258309-8	4101-SW2	Total/NA	Surface Water	8260D	
680-258309-9	4101-SW4	Total/NA	Surface Water	8260D	
MB 680-864124/9	Method Blank	Total/NA	Water	8260D	
LCS 680-864124/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-864124/5	Lab Control Sample Dup	Total/NA	Water	8260D	

LCMS

Prep Batch: 574703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258309-1	4101-MW1	Total/NA	Ground Water	1633	
680-258309-2	4101-MW3C	Total/NA	Ground Water	1633	

LCMS (Continued)

Prep Batch: 574703 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258309-3	4101-MW10	Total/NA	Ground Water	1633	
680-258309-4	4101-MW12A	Total/NA	Ground Water	1633	
680-258309-5	4101-PW3D	Total/NA	Ground Water	1633	
680-258309-6	4101-PW6I	Total/NA	Ground Water	1633	
680-258309-7	4101-W4A	Total/NA	Ground Water	1633	
680-258309-8	4101-SW2	Total/NA	Surface Water	1633	
680-258309-9	4101-SW4	Total/NA	Surface Water	1633	
680-258309-10	4101-Duplicate	Total/NA	Ground Water	1633	
680-258309-11	4101-EB Hydrosleeve	Total/NA	Water	1633	
680-258309-12	4101- EB Low Flow	Total/NA	Water	1633	
MB 410-574703/1-A	Method Blank	Total/NA	Water	1633	
LCS 410-574703/2-A	Lab Control Sample	Total/NA	Water	1633	
LCSD 410-574703/3-A	Lab Control Sample Dup	Total/NA	Water	1633	
LLCS 410-574703/4-A	Lab Control Sample	Total/NA	Water	1633	

Analysis Batch: 575442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258309-1	4101-MW1	Total/NA	Ground Water	1633	574703
680-258309-2	4101-MW3C	Total/NA	Ground Water	1633	574703
680-258309-3	4101-MW10	Total/NA	Ground Water	1633	574703
680-258309-4	4101-MW12A	Total/NA	Ground Water	1633	574703
680-258309-5	4101-PW3D	Total/NA	Ground Water	1633	574703
680-258309-6	4101-PW6I	Total/NA	Ground Water	1633	574703
680-258309-7	4101-W4A	Total/NA	Ground Water	1633	574703
680-258309-9	4101-SW4	Total/NA	Surface Water	1633	574703
680-258309-10	4101-Duplicate	Total/NA	Ground Water	1633	574703
680-258309-11	4101-EB Hydrosleeve	Total/NA	Water	1633	574703
680-258309-12	4101- EB Low Flow	Total/NA	Water	1633	574703
MB 410-574703/1-A	Method Blank	Total/NA	Water	1633	574703
LCS 410-574703/2-A	Lab Control Sample	Total/NA	Water	1633	574703
LCSD 410-574703/3-A	Lab Control Sample Dup	Total/NA	Water	1633	574703
LLCS 410-574703/4-A	Lab Control Sample	Total/NA	Water	1633	574703

Analysis Batch: 576907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258309-8	4101-SW2	Total/NA	Surface Water	1633	574703

Lab Chronicle

Client: Babb & Associates
Job ID: 680-258309-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-MW1
Lab Sample ID: 680-258309-1
Date Collected: 11/06/24 09:35
Matrix: Ground Water
Date Received: 11/08/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	863966	11/12/24 00:47	Y1S	EET SAV
	Instrument ID: CMSAH									
Total/NA	Analysis	8260D SIM 14D		1	10 mL	10 mL	863680	11/09/24 00:25	MJY	EET SAV
	Instrument ID: CMSAK									
Total/NA	Prep	1633			171.1 mL	5 mL	574703	11/13/24 15:32	XBL5	ELLE
Total/NA	Analysis	1633		1			575442	11/16/24 18:51	ZJA3	ELLE
	Instrument ID: 30729									

Client Sample ID: 4101-MW3C
Lab Sample ID: 680-258309-2
Date Collected: 11/06/24 12:55
Matrix: Ground Water
Date Received: 11/08/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	863966	11/12/24 01:09	Y1S	EET SAV
	Instrument ID: CMSAH									
Total/NA	Analysis	8260D SIM 14D		5	10 mL	10 mL	863680	11/09/24 02:59	MJY	EET SAV
	Instrument ID: CMSAK									
Total/NA	Prep	1633			168.7 mL	5 mL	574703	11/13/24 15:32	XBL5	ELLE
Total/NA	Analysis	1633		1			575442	11/16/24 19:04	ZJA3	ELLE
	Instrument ID: 30729									

Client Sample ID: 4101-MW10
Lab Sample ID: 680-258309-3
Date Collected: 11/07/24 08:00
Matrix: Ground Water
Date Received: 11/08/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	863966	11/12/24 01:31	Y1S	EET SAV
	Instrument ID: CMSAH									
Total/NA	Analysis	8260D SIM 14D		2	10 mL	10 mL	863686	11/09/24 10:19	MJY	EET SAV
	Instrument ID: CMSAK									
Total/NA	Prep	1633			168.3 mL	5 mL	574703	11/13/24 15:32	XBL5	ELLE
Total/NA	Analysis	1633		1			575442	11/16/24 19:18	ZJA3	ELLE
	Instrument ID: 30729									

Client Sample ID: 4101-MW12A
Lab Sample ID: 680-258309-4
Date Collected: 11/06/24 12:25
Matrix: Ground Water
Date Received: 11/08/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	863966	11/12/24 01:53	Y1S	EET SAV
	Instrument ID: CMSAH									
Total/NA	Analysis	8260D SIM 14D		20	10 mL	10 mL	863686	11/09/24 12:26	MJY	EET SAV
	Instrument ID: CMSAK									
Total/NA	Prep	1633			170.7 mL	5 mL	574703	11/13/24 15:32	XBL5	ELLE
Total/NA	Analysis	1633		1			575442	11/16/24 19:31	ZJA3	ELLE
	Instrument ID: 30729									

Client Sample ID: 4101-PW3D
Lab Sample ID: 680-258309-5

Date Collected: 11/07/24 08:30
Matrix: Ground Water
Date Received: 11/08/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	863966	11/12/24 02:15	Y1S	EET SAV
	Instrument ID: CMSAH									
Total/NA	Analysis	8260D	DL	100	5 mL	5 mL	864124	11/12/24 23:23	P1C	EET SAV
	Instrument ID: CMSU									
Total/NA	Analysis	8260D SIM 14D		10	10 mL	10 mL	863686	11/09/24 11:34	MJY	EET SAV
	Instrument ID: CMSAK									
Total/NA	Prep	1633			177 mL	5 mL	574703	11/13/24 15:32	XBL5	ELLE
Total/NA	Analysis	1633		1			575442	11/16/24 19:45	ZJA3	ELLE
	Instrument ID: 30729									

Client Sample ID: 4101-PW6I
Lab Sample ID: 680-258309-6

Date Collected: 11/06/24 13:40
Matrix: Ground Water
Date Received: 11/08/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	863966	11/12/24 02:38	Y1S	EET SAV
	Instrument ID: CMSAH									
Total/NA	Analysis	8260D		1	5 mL	5 mL	864124	11/12/24 21:53	P1C	EET SAV
	Instrument ID: CMSU									
Total/NA	Analysis	8260D SIM 14D		10	10 mL	10 mL	863686	11/09/24 12:00	MJY	EET SAV
	Instrument ID: CMSAK									
Total/NA	Prep	1633			171.2 mL	5 mL	574703	11/13/24 15:32	XBL5	ELLE
Total/NA	Analysis	1633		1			575442	11/16/24 20:26	ZJA3	ELLE
	Instrument ID: 30729									

Client Sample ID: 4101-W4A
Lab Sample ID: 680-258309-7

Date Collected: 11/06/24 10:25
Matrix: Ground Water
Date Received: 11/08/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	863966	11/12/24 03:00	Y1S	EET SAV
	Instrument ID: CMSAH									
Total/NA	Analysis	8260D		1	5 mL	5 mL	864124	11/12/24 22:16	P1C	EET SAV
	Instrument ID: CMSU									
Total/NA	Analysis	8260D SIM 14D		2	10 mL	10 mL	863686	11/09/24 10:44	MJY	EET SAV
	Instrument ID: CMSAK									
Total/NA	Prep	1633			172.8 mL	5 mL	574703	11/13/24 15:32	XBL5	ELLE
Total/NA	Analysis	1633		1			575442	11/16/24 20:40	ZJA3	ELLE
	Instrument ID: 30729									

Client Sample ID: 4101-SW2

Lab Sample ID: 680-258309-8

Date Collected: 11/06/24 10:30

Matrix: Surface Water

Date Received: 11/08/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	863966	11/12/24 03:21	Y1S	EET SAV
	Instrument ID: CMSAH									
Total/NA	Analysis	8260D		1	5 mL	5 mL	864124	11/12/24 22:38	P1C	EET SAV
	Instrument ID: CMSU									
Total/NA	Analysis	8260D SIM 14D		1	10 mL	10 mL	863686	11/09/24 09:54	MJY	EET SAV
	Instrument ID: CMSAK									
Total/NA	Prep	1633			169.7 mL	5 mL	574703	11/13/24 15:32	XBL5	ELLE
Total/NA	Analysis	1633		1			576907	11/20/24 04:58	ZJA3	ELLE
	Instrument ID: 30729									

Client Sample ID: 4101-SW4

Lab Sample ID: 680-258309-9

Date Collected: 11/06/24 13:10

Matrix: Surface Water

Date Received: 11/08/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	863966	11/12/24 03:43	Y1S	EET SAV
	Instrument ID: CMSAH									
Total/NA	Analysis	8260D		1	5 mL	5 mL	864124	11/12/24 23:01	P1C	EET SAV
	Instrument ID: CMSU									
Total/NA	Analysis	8260D SIM 14D		5	10 mL	10 mL	863686	11/09/24 18:00	MJY	EET SAV
	Instrument ID: CMSAK									
Total/NA	Prep	1633			166.7 mL	5 mL	574703	11/13/24 15:32	XBL5	ELLE
Total/NA	Analysis	1633		1			575442	11/16/24 21:07	ZJA3	ELLE
	Instrument ID: 30729									

Client Sample ID: 4101-Duplicate

Lab Sample ID: 680-258309-10

Date Collected: 11/06/24 12:55

Matrix: Ground Water

Date Received: 11/08/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1633			167.9 mL	5 mL	574703	11/13/24 15:32	XBL5	ELLE
Total/NA	Analysis	1633		1			575442	11/16/24 21:20	ZJA3	ELLE
	Instrument ID: 30729									

Client Sample ID: 4101-EB Hydrosleeve

Lab Sample ID: 680-258309-11

Date Collected: 11/06/24 08:45

Matrix: Water

Date Received: 11/08/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1633			175.3 mL	5 mL	574703	11/13/24 15:32	XBL5	ELLE
Total/NA	Analysis	1633		1			575442	11/16/24 21:34	ZJA3	ELLE
	Instrument ID: 30729									

Lab Chronicle

Client: Babb & Associates
Job ID: 680-258309-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101- EB Low Flow
Lab Sample ID: 680-258309-12

Date Collected: 11/06/24 09:05
Matrix: Water

Date Received: 11/08/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1633			173.1 mL	5 mL	574703	11/13/24 15:32	XBL5	ELLE
Total/NA	Analysis	1633		1			575442	11/16/24 21:48	ZJA3	ELLE
	Instrument ID: 30729									

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ronald Babb	Lab PM: Andros, John	Carrier Tracking No(s):	COC No: 680-161610-57878.1
Client Contact: Gary Babb	Phone: 336-306-0175	E-Mail: John.Andros@et.eurofinsus.com	State of Origin: NC	Page: Page 1 of 4
Company: Babb & Associates	PWSID:			Job #:
Address: 5506 Bradford Pear Court	Due Date Requested:			
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27606	Compliance Project: Δ Yes Δ No			
Phone: 919-605-4713(Tel)	PO #:			
Email: gdbabb@gmail.com	WO #:			
Project Name: Seaboard/Riverdale Drive MSWLF	Project #: 68024012			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
N - None
Other:

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)	8260D - Appendix 1 VOCs	8260D_SIM_14DX - 1,4-Dioxane	1633_Final - List of 40 based on EPA method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A	N		
4101-MW1	11-6-24	0935	G	GW			X	X	X		
4101-MW3C	11-6-24	1255	G	GW			X	X	X		
4101-MW6			G	GW			X	X			
4101-MW10	11-7-24	0800	G	GW			X	X	X		
4101-MW12A	11-6-24	1225	G	GW			X	X	X		
4101-MW12B			G	GW			X	X			
4101-MW12D			G	GW			X	X			
4101-MW15A			G	GW			X	X			
4101-OWDR2			G	GW			X	X			
4101-OWLFS2			G	GW			X	X			
4101-PW3D	11-7-24	0830	G	GW			X	X	X		

680-258309 Chain of Custody

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

Sample Disposal (A fee may be assessed if sam
☐ 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:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Ronald Babb	11-7-24 0945	PIS		11-8-24 1009	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 5.5/5.5

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

Client Information	Sampler: Ronald Babb	Lab PM: Andros, John	Carrier Tracking No(s):	COC No: 680-161610-57878.2
Client Contact: Gary Babb	Phone: 336-306-0175	E-Mail: John.Andros@et.eurofinsus.com	State of Origin: NC	Page: Page 2 of 4
Company: Babb & Associates	PWSID:			Job #:

Address: 5506 Bradford Pear Court	Due Date Requested:
City: Raleigh	TAT Requested (days):
State, Zip: NC, 27606	Compliance Project: Δ Yes Δ No
Phone: 919-605-4713(Tel)	PO #:
Email: gdbabb@gmail.com	WO #:
Project Name: Seaboard/Riverdale Drive MSWLF	Project #: 68024012
Site:	SSOW#:

Analysis Requested

Preservation Codes:
A - HCL
N - None
Other:

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)	8260D - Appendix 1 VOCs	8260D_SIM_14DX - 1,4-Dioxane	1633_Final - List of 40 based on EPA method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A	N		
4101-PW4I			G	GW			X	X			
4101-PW5D			G	GW			X	X			
4101-PW6I	11-6-24	1340	G	GW			X	X	X		
4101-PW6D			G	GW			X	X			
4101-PW10I			G	GW			X	X			
4101-PW10D			G	GW			X	X			
4101-PW12I			G	GW			X	X			
4101-PW13I			G	GW			X	X			
4101-PW14D			G	GW			X	X			
4101-PW15D			G	GW			X	X			
4101-PW16D			G	GW			X	X			

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:

Relinquished by: Ronald Babb	Date/Time: 11-7-24 / 0945	Company: PIS	Received by:	Date/Time: 11.8.24 1009	Company: FM
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

244- ATLANTA

eurofins | Environment Testing

Client Information	Sampler: Ronald Babb	Lab PM: Andros, John	Carrier Tracking No(s):	COC No: 680-161610-57878.3
Client Contact: Gary Babb	Phone: 336-306-0175	E-Mail: John.Andros@et.eurofinsus.com	State of Origin: NC	Page: Page 3 of 4
Company: Babb & Associates	PWSID:	Analysis Requested		Job #:
Address: 5506 Bradford Pear Court	Due Date Requested:			Preservation Codes: A - HCL N - None
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27606	Compliance Project: Δ Yes Δ No			
Phone: 919-605-4713(Tel)	PO #:			
Email: gdbabb@gmail.com	WO #:			
Project Name: Seaboard/Riverdale Drive MSWLF	Project #: 68024012			Other:
Site:	SSOW#:			

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)	8260D - Appendix 1 VOCs	8260D_SIM_14DX - 1,4-Dioxane	1633_Final - List of 40 based on EPA method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A	N		
4101-PWSF1			G	GW			X	X			
4101-W4A	11-6-24	1025	G	GW			X	X	X		
4101-SW1			G	SW			X	X			
4101-SW2	11-6-24	1030	G	SW			X	X	X		
4101-SW3			G	SW			X	X			
4101-SW4	11-6-24	1310	G	SW			X	X	X		
4101-SW5			G	SW			X	X			
4101-SW6Surface			G	SW			X	X			
4101-SW6Bottom			G	SW			X	X			
4101-SW7Surface			G	SW			X	X			
4101-SW7Bottom			G	SW			X	X			

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:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Ronald Babb	11-7-24 / 0945	PLS		11-8-24 1009	TVA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

244- ATLANTA

eurofins Environment Testing

Client Information	Sampler: Ronald Bavton	Lab PM: Andros, John	Carrier Tracking No(s):	COC No: 680-161610-57878.4
Client Contact: Gary Babb	Phone: 336-306-0175	E-Mail: John.Andros@et.eurofinsus.com	State of Origin: NC	Page: Page 4 of 4
Company: Babb & Associates	PWSID:	Analysis Requested		Job #:
Address: 5506 Bradford Pear Court	Due Date Requested:			Preservation Codes: A - HCL N - None
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27606	Compliance Project: Δ Yes Δ No			
Phone: 919-605-4713(Tel)	PO #:			
Email: gdbabb@gmail.com	WO #:			
Project Name: Seaboard/Riverdale Drive MSWLF	Project #: 68024012			Other:
Site:	SSOW#:			

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)	8260D - Appendix 1 VOCs	8260D_SIM_14DX - 1,4-Dioxane	1633_Final - List of 40 based on EPA method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A	N		
4101-SWDRP2Surface			G	SW			X	X			
4101-SWDRP2Bottom			G	SW			X	X			
4101-Duplicate	11-6-24	1255	G	GW					X		
4101-EB Hydrosleeve	11-6-24	0845	G	W					X		
4101-EB Low Flow	11-6-24	0905	G	W					X		
4101-Trip Blank 1			G	W			X				
4101-Trip Blank 2			G	W			X				

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:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Ronald Bavton	11-7-24 1045	PTS		11-8-24 1005	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Andros, John	Carrier Tracking No(s): N/A	COC No: 680-787614.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Andros@et.eurofinsus.com	State of Origin: North Carolina	Page: Page 1 of 2
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - North Carolina (WW/SW)		Job #: 680-258309-1
Address: 2425 New Holland Pike,	Due Date Requested: 11/22/2024			
City: Lancaster	TAT Requested (days): N/A			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Seaboard/Riverdale Drive MSWLF	Project #: 68024012			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes:

Other: N/A

Sample Identification - Client ID (Lab ID)	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)	1633_Final/1633_SPE_125 List of 40 based on EPA method	Total Number of containers	Special Instructions/Note:
			Preservation Code						
4101-MW1 (680-258309-1)	11/6/24	09:35 Eastern	G	Water			X	2	
4101-MW3C (680-258309-2)	11/6/24	12:55 Eastern	G	Water			X	2	
4101-MW10 (680-258309-3)	11/7/24	08:00 Eastern	G	Water			X	2	
4101-MW12A (680-258309-4)	11/6/24	12:25 Eastern	G	Water			X	2	
4101-PW3D (680-258309-5)	11/7/24	08:30 Eastern	G	Water			X	2	
4101-PW6I (680-258309-6)	11/6/24	13:40 Eastern	G	Water			X	2	
4101-W4A (680-258309-7)	11/6/24	10:25 Eastern	G	Water			X	2	
4101-SW2 (680-258309-8)	11/6/24	10:30 Eastern	G	Water			X	2	
4101-SW4 (680-258309-9)	11/6/24	13:10 Eastern	G	Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11/22/24 0914	Company EUFST

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: R: 3.8 C: 3.5

Ver: 10/10/2024

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Andros, John	Carrier Tracking No(s): N/A	COC No: 680-787614.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Andros@et.eurofinsus.com	State of Origin: North Carolina	Page: Page 2 of 2
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - North Carolina (WW/SW)		Job #: 680-258309-1
Address: 2425 New Holland Pike,	Due Date Requested: 11/22/2024			Preservation Codes:
City: Lancaster	TAT Requested (days): N/A			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Seaboard/Riverdale Drive MSWLF	Project #: 68024012			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

Sample Identification - Client ID (Lab ID)	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)	1633_Final/1633_SPE_125 List of 40 based on EPA method	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
4101-Duplicate (680-258309-10)	11/6/24	12:55 Eastern	G	Water			X	2	
4101-EB Hydrosleeve (680-258309-11)	11/6/24	08:45 Eastern	G	Water			X	2	
4101- EB Low Flow (680-258309-12)	11/6/24	09:05 Eastern	G	Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11/22/24 0914	Company ELLET

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: R 3.8 C 3.5

NJ

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: Babb & Associates

Job Number: 680-258309-1

Login Number: 258309

List Source: Eurofins Savannah

List Number: 1

Creator: Sims, Robert D

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

Login Sample Receipt Checklist

Client: Babb & Associates

Job Number: 680-258309-1

Login Number: 258309
List Number: 2
Creator: Santiago, Nathaniel

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 11/12/24 03:40 PM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

Accreditation/Certification Summary

Client: Babb & Associates
Job ID: 680-258309-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	269	12-31-24

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	521	12-31-25

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Gary Babb
Babb & Associates
2917 Beehnon Way
Raleigh, North Carolina 27603

Generated 11/21/2024 3:49:14 PM

JOB DESCRIPTION

Seaboard/Riverdale Drive MSWLF

JOB NUMBER

680-258622-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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 Environment Testing Southeast, LLC Project Manager.

Authorization

Generated
11/21/2024 3:49:14 PM

Authorized for release by
John Andros, Project Manager I
John.Andros@et.eurofinsus.com
(404)944-4744

Sample Summary

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-258622-1	4101-MW6	Ground Water	11/13/24 09:15	11/14/24 09:48
680-258622-2	4101-MW12B	Ground Water	11/11/24 10:55	11/14/24 09:48
680-258622-3	4101-MW12D	Ground Water	11/11/24 11:15	11/14/24 09:48
680-258622-4	4101-MW15A	Ground Water	11/11/24 10:25	11/14/24 09:48
680-258622-5	4101-OWDR2	Ground Water	11/11/24 11:40	11/14/24 09:48
680-258622-6	4101-OWLFS2	Ground Water	11/13/24 07:40	11/14/24 09:48
680-258622-7	4101-PW4I	Ground Water	11/12/24 12:30	11/14/24 09:48
680-258622-8	4101-PW5D	Ground Water	11/11/24 12:05	11/14/24 09:48
680-258622-9	4101-PW6D	Ground Water	11/12/24 13:25	11/14/24 09:48
680-258622-10	4101-PW10I	Ground Water	11/13/24 08:10	11/14/24 09:48
680-258622-11	4101-PW10D	Ground Water	11/13/24 08:30	11/14/24 09:48
680-258622-12	4101-PW12I	Ground Water	11/13/24 09:35	11/14/24 09:48
680-258622-13	4101-PW13I	Ground Water	11/12/24 08:25	11/14/24 09:48
680-258622-14	4101-PW14D	Ground Water	11/12/24 10:35	11/14/24 09:48
680-258622-15	4101-PW15D	Ground Water	11/12/24 09:45	11/14/24 09:48
680-258622-16	4101-PW16D	Ground Water	11/12/24 09:35	11/14/24 09:48
680-258622-17	4101-PWSF1	Ground Water	11/12/24 12:50	11/14/24 09:48
680-258622-18	4101-Trip Blank2	Water	11/11/24 00:00	11/14/24 09:48

Method Summary

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
8260D SIM 14D	Volatile Organic Compounds (GC/MS)	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV
5030C	Purge and Trap	SW846	EET SAV

Protocol References:

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

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Indicates an estimated value.
J1	Estimated value; value may not be accurate. Surrogate recovery outside of criteria.
J2	Estimated value; value may not be accurate.
U	Indicates that the compound was analyzed for but not detected.

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

Job Narrative
680-258622-1

Receipt
The samples were received on 11/14/2024 9:48 AM. 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 time was 3.7°C.

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

Detection Summary

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-MW6 — Lab Sample ID: 680-258622-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	19		2.0	0.64	ug/L	2		8260D SIM 14D	Total/NA
1,1-Dichloroethane	5.6		1.0	0.33	ug/L	1		8260D	Total/NA
Acetone	10	J	20	3.7	ug/L	1		8260D	Total/NA
Benzene	0.65	J	1.0	0.27	ug/L	1		8260D	Total/NA
Chlorobenzene	1.2		1.0	0.15	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	5.0		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	3.5		1.0	0.20	ug/L	1		8260D	Total/NA
Vinyl chloride	1.9		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: 4101-MW12B — Lab Sample ID: 680-258622-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	130		10	3.2	ug/L	10		8260D SIM 14D	Total/NA

Client Sample ID: 4101-MW12D — Lab Sample ID: 680-258622-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.47	J	1.0	0.32	ug/L	1		8260D SIM 14D	Total/NA

Client Sample ID: 4101-MW15A — Lab Sample ID: 680-258622-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	750		100	32	ug/L	100		8260D SIM 14D	Total/NA
1,2-Dichlorobenzene	0.79	J	1.0	0.31	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	1.3		1.0	0.31	ug/L	1		8260D	Total/NA
Chlorobenzene	66		1.0	0.15	ug/L	1		8260D	Total/NA

Client Sample ID: 4101-OWDR2 — Lab Sample ID: 680-258622-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	250		20	6.4	ug/L	20		8260D SIM 14D	Total/NA
1,1,1-Trichloroethane	3.4		1.0	0.21	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	130		1.0	0.33	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	57		1.0	0.33	ug/L	1		8260D	Total/NA
1,2-Dichlorobenzene	0.33	J	1.0	0.31	ug/L	1		8260D	Total/NA
1,2-Dichloroethane	6.4		1.0	0.25	ug/L	1		8260D	Total/NA
Benzene	2.0		1.0	0.27	ug/L	1		8260D	Total/NA
Chlorobenzene	110		1.0	0.15	ug/L	1		8260D	Total/NA
Chloroethane	13		5.0	4.6	ug/L	1		8260D	Total/NA
Tetrachloroethene	1.9		1.0	0.35	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	2.3		1.0	0.34	ug/L	1		8260D	Total/NA
Trichloroethene	1.6		1.0	0.20	ug/L	1		8260D	Total/NA
Vinyl chloride	30		1.0	0.40	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene - DL	220		5.0	1.3	ug/L	5		8260D	Total/NA

Client Sample ID: 4101-OWLFS2 — Lab Sample ID: 680-258622-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	230		20	6.4	ug/L	20		8260D SIM 14D	Total/NA
1,1-Dichloroethane	0.53	J	1.0	0.33	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	0.72	J	1.0	0.31	ug/L	1		8260D	Total/NA
Benzene	2.6		1.0	0.27	ug/L	1		8260D	Total/NA
Chlorobenzene	2.9		1.0	0.15	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Client Sample ID: 4101-OWLFS2 (Continued) — Lab Sample ID: 680-258622-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.1		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	1.1		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: 4101-PW4I — Lab Sample ID: 680-258622-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	240		20	6.4	ug/L	20		8260D SIM 14D	Total/NA
1,1-Dichloroethane	13		1.0	0.33	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	7.5		1.0	0.33	ug/L	1		8260D	Total/NA
1,2-Dichloroethane	8.1		1.0	0.25	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	3.0		1.0	0.31	ug/L	1		8260D	Total/NA
Benzene	1.6		1.0	0.27	ug/L	1		8260D	Total/NA
Chlorobenzene	19		1.0	0.15	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	100		1.0	0.25	ug/L	1		8260D	Total/NA
Tetrachloroethene	2.1		1.0	0.35	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.82	J	1.0	0.34	ug/L	1		8260D	Total/NA
Trichloroethene	12		1.0	0.20	ug/L	1		8260D	Total/NA
Vinyl chloride	25		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: 4101-PW5D — Lab Sample ID: 680-258622-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	360		40	13	ug/L	40		8260D SIM 14D	Total/NA
1,1,1-Trichloroethane	2.0		1.0	0.21	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	180		1.0	0.33	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	1.8		1.0	0.33	ug/L	1		8260D	Total/NA
1,2-Dichloroethane	13		1.0	0.25	ug/L	1		8260D	Total/NA
Benzene	3.5		1.0	0.27	ug/L	1		8260D	Total/NA
Chlorobenzene	150		1.0	0.15	ug/L	1		8260D	Total/NA
o-Xylene	0.50	J	1.0	0.26	ug/L	1		8260D	Total/NA
Tetrachloroethene	1.7		1.0	0.35	ug/L	1		8260D	Total/NA
Toluene	1.5		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.94	J	1.0	0.34	ug/L	1		8260D	Total/NA
Trichloroethene	0.97	J	1.0	0.20	ug/L	1		8260D	Total/NA
Vinyl chloride	4.0		1.0	0.40	ug/L	1		8260D	Total/NA
Xylenes (total)	0.50	J	3.0	0.23	ug/L	1		8260D	Total/NA

Client Sample ID: 4101-PW6D — Lab Sample ID: 680-258622-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	190		25	8.0	ug/L	25		8260D SIM 14D	Total/NA
1,1-Dichloroethane	81		1.0	0.33	ug/L	1		8260D	Total/NA
1,2-Dichloroethane	1.8		1.0	0.25	ug/L	1		8260D	Total/NA
Benzene	1.7		1.0	0.27	ug/L	1		8260D	Total/NA
Chlorobenzene	29		1.0	0.15	ug/L	1		8260D	Total/NA
Toluene	0.78	J	1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	1.8		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: 4101-PW10I — Lab Sample ID: 680-258622-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	320		20	6.4	ug/L	20		8260D SIM 14D	Total/NA
1,1-Dichloroethane	5.0		1.0	0.33	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 4101-PW10I (Continued) — Lab Sample ID: 680-258622-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	1.8		1.0	0.31	ug/L	1		8260D	Total/NA
Benzene	0.92	J	1.0	0.27	ug/L	1		8260D	Total/NA
Chlorobenzene	2.6		1.0	0.15	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2.0		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	1.9		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: 4101-PW10D — Lab Sample ID: 680-258622-11

No Detections.

Client Sample ID: 4101-PW12I — Lab Sample ID: 680-258622-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.39	J	1.0	0.32	ug/L	1		8260D SIM 14D	Total/NA

Client Sample ID: 4101-PW13I — Lab Sample ID: 680-258622-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	67		10	3.2	ug/L	10		8260D SIM 14D	Total/NA
1,1-Dichloroethane	70		1.0	0.33	ug/L	1		8260D	Total/NA
1,2-Dichloroethane	2.6		1.0	0.25	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	0.86	J	1.0	0.31	ug/L	1		8260D	Total/NA
Benzene	1.9		1.0	0.27	ug/L	1		8260D	Total/NA
Chlorobenzene	11		1.0	0.15	ug/L	1		8260D	Total/NA
Toluene	0.54	J	1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	1.5		1.0	0.20	ug/L	1		8260D	Total/NA
Vinyl chloride	4.5		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: 4101-PW14D — Lab Sample ID: 680-258622-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.44	J	1.0	0.32	ug/L	1		8260D SIM 14D	Total/NA
Acetone	14	J	20	3.7	ug/L	1		8260D	Total/NA
Benzene	0.35	J	1.0	0.27	ug/L	1		8260D	Total/NA
Chlorobenzene	0.95	J	1.0	0.15	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.42	J	1.0	0.25	ug/L	1		8260D	Total/NA
Ethylbenzene	0.45	J	1.0	0.20	ug/L	1		8260D	Total/NA
m,p-Xylenes	2.1		2.0	0.49	ug/L	1		8260D	Total/NA
o-Xylene	0.99	J	1.0	0.26	ug/L	1		8260D	Total/NA
Toluene	1.6		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	0.84	J	1.0	0.40	ug/L	1		8260D	Total/NA
Xylenes (total)	3.1		3.0	0.23	ug/L	1		8260D	Total/NA

Client Sample ID: 4101-PW15D — Lab Sample ID: 680-258622-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	2.0		1.0	0.15	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2.7		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	1.4		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: 4101-PW16D — Lab Sample ID: 680-258622-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.2		1.0	0.33	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 4101-PW16D (Continued)
Lab Sample ID: 680-258622-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.9		1.0	0.33	ug/L	1		8260D	Total/NA
Chlorobenzene	0.36	J	1.0	0.15	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	7.6		1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: 4101-PWSF1
Lab Sample ID: 680-258622-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	3900		1000	320	ug/L	1000		8260D SIM 14D	Total/NA
1,1,2,2-Tetrachloroethane	0.72	J	1.0	0.40	ug/L	1		8260D	Total/NA
1,1,2-Trichloroethane	12		1.0	0.32	ug/L	1		8260D	Total/NA
1,2-Dichlorobenzene	11		1.0	0.31	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	3.8		1.0	0.31	ug/L	1		8260D	Total/NA
2-Hexanone	7.8	J	10	3.2	ug/L	1		8260D	Total/NA
4-Methyl-2-pentanone	77		10	2.7	ug/L	1		8260D	Total/NA
Acetone	630		20	3.7	ug/L	1		8260D	Total/NA
Benzene	76		1.0	0.27	ug/L	1		8260D	Total/NA
Chloroethane	86		5.0	4.6	ug/L	1		8260D	Total/NA
Chloroform	26		1.0	0.27	ug/L	1		8260D	Total/NA
Chloromethane	1.1		1.0	0.54	ug/L	1		8260D	Total/NA
Ethylbenzene	79		1.0	0.20	ug/L	1		8260D	Total/NA
o-Xylene	120		1.0	0.26	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	25		1.0	0.34	ug/L	1		8260D	Total/NA
Trichlorofluoromethane	41		1.0	0.33	ug/L	1		8260D	Total/NA
1,1,1-Trichloroethane - DL	8500		100	21	ug/L	100		8260D	Total/NA
1,1-Dichloroethane - DL	3800		100	33	ug/L	100		8260D	Total/NA
1,1-Dichloroethene - DL	3200		100	33	ug/L	100		8260D	Total/NA
1,2-Dichloroethane - DL	710		100	25	ug/L	100		8260D	Total/NA
Chlorobenzene - DL	8900		100	15	ug/L	100		8260D	Total/NA
cis-1,2-Dichloroethene - DL	12000		100	25	ug/L	100		8260D	Total/NA
m,p-Xylenes - DL	230		200	49	ug/L	100		8260D	Total/NA
Tetrachloroethene - DL	450		100	35	ug/L	100		8260D	Total/NA
Toluene - DL	1400		100	25	ug/L	100		8260D	Total/NA
Trichloroethene - DL	1300		100	20	ug/L	100		8260D	Total/NA
Vinyl chloride - DL	3300		100	40	ug/L	100		8260D	Total/NA
Xylenes (total) - DL	350		300	23	ug/L	100		8260D	Total/NA

Client Sample ID: 4101-Trip Blank2
Lab Sample ID: 680-258622-18

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-MW6
Lab Sample ID: 680-258622-1
Date Collected: 11/13/24 09:15
Matrix: Ground Water
Date Received: 11/14/24 09:48

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**19**		2.0	0.64	ug/L			11/15/24 19:23	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*46 - 154*		*11/15/24 19:23*	*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	1.0	U	1.0	0.36	ug/L			11/19/24 14:39	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/19/24 14:39	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/19/24 14:39	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/19/24 14:39	1
1,1-Dichloroethane	**5.6**		1.0	0.33	ug/L			11/19/24 14:39	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/19/24 14:39	1
1,2,3-Trichloropropane	1.0	U J2	1.0	0.48	ug/L			11/19/24 14:39	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/19/24 14:39	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/19/24 14:39	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/19/24 14:39	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/19/24 14:39	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/19/24 14:39	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/19/24 14:39	1
2-Butanone	10	U	10	6.4	ug/L			11/19/24 14:39	1
2-Hexanone	10	U	10	3.2	ug/L			11/19/24 14:39	1
4-Methyl-2-pentanone	10	U	10	2.7	ug/L			11/19/24 14:39	1
Acetone	**10**	**J**	20	3.7	ug/L			11/19/24 14:39	1
Acrylonitrile	20	U	20	5.5	ug/L			11/19/24 14:39	1
Benzene	**0.65**	**J**	1.0	0.27	ug/L			11/19/24 14:39	1
Bromochloromethane	1.0	U	1.0	0.34	ug/L			11/19/24 14:39	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/19/24 14:39	1
Bromoform	1.0	U J2	1.0	0.59	ug/L			11/19/24 14:39	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/19/24 14:39	1
Carbon disulfide	5.0	U	5.0	0.43	ug/L			11/19/24 14:39	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/19/24 14:39	1
Chlorobenzene	**1.2**		1.0	0.15	ug/L			11/19/24 14:39	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/19/24 14:39	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/19/24 14:39	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/19/24 14:39	1
cis-1,2-Dichloroethene	**5.0**		1.0	0.25	ug/L			11/19/24 14:39	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/19/24 14:39	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/19/24 14:39	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/19/24 14:39	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/19/24 14:39	1
Iodomethane	10	U	10	3.9	ug/L			11/19/24 14:39	1
m,p-Xylenes	2.0	U	2.0	0.49	ug/L			11/19/24 14:39	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/19/24 14:39	1
o-Xylene	1.0	U	1.0	0.26	ug/L			11/19/24 14:39	1
Styrene	1.0	U	1.0	0.27	ug/L			11/19/24 14:39	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/19/24 14:39	1
Toluene	1.0	U	1.0	0.25	ug/L			11/19/24 14:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/19/24 14:39	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/19/24 14:39	1

Client Sample ID: 4101-MW6
Lab Sample ID: 680-258622-1
Date Collected: 11/13/24 09:15
Matrix: Ground Water
Date Received: 11/14/24 09:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/19/24 14:39	1
Trichloroethene	**3.5**		1.0	0.20	ug/L			11/19/24 14:39	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/19/24 14:39	1
Vinyl acetate	5.0	U J2	5.0	0.69	ug/L			11/19/24 14:39	1
Vinyl chloride	**1.9**		1.0	0.40	ug/L			11/19/24 14:39	1
Xylenes (total)	3.0	U	3.0	0.23	ug/L			11/19/24 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*11/19/24 14:39*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*11/19/24 14:39*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*11/19/24 14:39*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*11/19/24 14:39*	*1*

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-MW12B
Lab Sample ID: 680-258622-2
Date Collected: 11/11/24 10:55
Matrix: Ground Water
Date Received: 11/14/24 09:48

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	130		10	3.2	ug/L			11/15/24 19:45	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*46 - 154*		*11/15/24 19:45*	*10*

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	1.0	U	1.0	0.36	ug/L			11/20/24 13:08	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/20/24 13:08	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/20/24 13:08	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/20/24 13:08	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/20/24 13:08	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/20/24 13:08	1
1,2,3-Trichloropropane	1.0	U	1.0	0.48	ug/L			11/20/24 13:08	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/20/24 13:08	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/20/24 13:08	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/20/24 13:08	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/20/24 13:08	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/20/24 13:08	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/20/24 13:08	1
2-Butanone	10	U	10	6.4	ug/L			11/20/24 13:08	1
2-Hexanone	10	U	10	3.2	ug/L			11/20/24 13:08	1
4-Methyl-2-pentanone	10	U	10	2.7	ug/L			11/20/24 13:08	1
Acetone	20	U	20	3.7	ug/L			11/20/24 13:08	1
Acrylonitrile	20	U	20	5.5	ug/L			11/20/24 13:08	1
Benzene	1.0	U	1.0	0.27	ug/L			11/20/24 13:08	1
Bromochloromethane	1.0	U	1.0	0.34	ug/L			11/20/24 13:08	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/20/24 13:08	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/20/24 13:08	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/20/24 13:08	1
Carbon disulfide	5.0	U	5.0	0.43	ug/L			11/20/24 13:08	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/20/24 13:08	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/20/24 13:08	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/20/24 13:08	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/20/24 13:08	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/20/24 13:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/20/24 13:08	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/20/24 13:08	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/20/24 13:08	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/20/24 13:08	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/20/24 13:08	1
Iodomethane	10	U	10	3.9	ug/L			11/20/24 13:08	1
m,p-Xylenes	2.0	U	2.0	0.49	ug/L			11/20/24 13:08	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/20/24 13:08	1
o-Xylene	1.0	U	1.0	0.26	ug/L			11/20/24 13:08	1
Styrene	1.0	U	1.0	0.27	ug/L			11/20/24 13:08	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/20/24 13:08	1
Toluene	1.0	U	1.0	0.25	ug/L			11/20/24 13:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/20/24 13:08	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/20/24 13:08	1

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-MW12B
Lab Sample ID: 680-258622-2
Date Collected: 11/11/24 10:55
Matrix: Ground Water
Date Received: 11/14/24 09:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/20/24 13:08	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/20/24 13:08	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/20/24 13:08	1
Vinyl acetate	5.0	U J2	5.0	0.69	ug/L			11/20/24 13:08	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/20/24 13:08	1
Xylenes (total)	3.0	U	3.0	0.23	ug/L			11/20/24 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*11/20/24 13:08*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*11/20/24 13:08*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*11/20/24 13:08*	*1*
Toluene-d8 (Surr)	*110*		*70 - 130*		*11/20/24 13:08*	*1*

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-MW12D
Lab Sample ID: 680-258622-3
Date Collected: 11/11/24 11:15
Matrix: Ground Water
Date Received: 11/14/24 09:48

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.47	J	1.0	0.32	ug/L			11/15/24 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*46 - 154*		*11/15/24 16:52*	*1*

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	1.0	U	1.0	0.36	ug/L			11/19/24 15:22	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/19/24 15:22	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/19/24 15:22	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/19/24 15:22	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/19/24 15:22	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/19/24 15:22	1
1,2,3-Trichloropropane	1.0	U J2	1.0	0.48	ug/L			11/19/24 15:22	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/19/24 15:22	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/19/24 15:22	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/19/24 15:22	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/19/24 15:22	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/19/24 15:22	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/19/24 15:22	1
2-Butanone	10	U	10	6.4	ug/L			11/19/24 15:22	1
2-Hexanone	10	U	10	3.2	ug/L			11/19/24 15:22	1
4-Methyl-2-pentanone	10	U	10	2.7	ug/L			11/19/24 15:22	1
Acetone	20	U	20	3.7	ug/L			11/19/24 15:22	1
Acrylonitrile	20	U	20	5.5	ug/L			11/19/24 15:22	1
Benzene	1.0	U	1.0	0.27	ug/L			11/19/24 15:22	1
Bromochloromethane	1.0	U	1.0	0.34	ug/L			11/19/24 15:22	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/19/24 15:22	1
Bromoform	1.0	U J2	1.0	0.59	ug/L			11/19/24 15:22	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/19/24 15:22	1
Carbon disulfide	5.0	U	5.0	0.43	ug/L			11/19/24 15:22	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/19/24 15:22	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/19/24 15:22	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/19/24 15:22	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/19/24 15:22	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/19/24 15:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/19/24 15:22	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/19/24 15:22	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/19/24 15:22	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/19/24 15:22	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/19/24 15:22	1
Iodomethane	10	U	10	3.9	ug/L			11/19/24 15:22	1
m,p-Xylenes	2.0	U	2.0	0.49	ug/L			11/19/24 15:22	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/19/24 15:22	1
o-Xylene	1.0	U	1.0	0.26	ug/L			11/19/24 15:22	1
Styrene	1.0	U	1.0	0.27	ug/L			11/19/24 15:22	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/19/24 15:22	1
Toluene	1.0	U	1.0	0.25	ug/L			11/19/24 15:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/19/24 15:22	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/19/24 15:22	1

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-MW12D
Lab Sample ID: 680-258622-3
Date Collected: 11/11/24 11:15
Matrix: Ground Water
Date Received: 11/14/24 09:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/19/24 15:22	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/19/24 15:22	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/19/24 15:22	1
Vinyl acetate	5.0	U J2	5.0	0.69	ug/L			11/19/24 15:22	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/19/24 15:22	1
Xylenes (total)	3.0	U	3.0	0.23	ug/L			11/19/24 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*11/19/24 15:22*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*11/19/24 15:22*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*11/19/24 15:22*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*11/19/24 15:22*	*1*

Client Sample ID: 4101-MW15A
Lab Sample ID: 680-258622-4
Date Collected: 11/11/24 10:25
Matrix: Ground Water
Date Received: 11/14/24 09:48

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**750**		100	32	ug/L			11/15/24 22:49	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*46 - 154*		*11/15/24 22:49*	*100*

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	1.0	U	1.0	0.36	ug/L			11/19/24 15:43	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/19/24 15:43	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/19/24 15:43	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/19/24 15:43	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/19/24 15:43	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/19/24 15:43	1
1,2,3-Trichloropropane	1.0	U J2	1.0	0.48	ug/L			11/19/24 15:43	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/19/24 15:43	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/19/24 15:43	1
1,2-Dichlorobenzene	**0.79**	**J**	1.0	0.31	ug/L			11/19/24 15:43	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/19/24 15:43	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/19/24 15:43	1
1,4-Dichlorobenzene	**1.3**		1.0	0.31	ug/L			11/19/24 15:43	1
2-Butanone	10	U	10	6.4	ug/L			11/19/24 15:43	1
2-Hexanone	10	U	10	3.2	ug/L			11/19/24 15:43	1
4-Methyl-2-pentanone	10	U	10	2.7	ug/L			11/19/24 15:43	1
Acetone	20	U	20	3.7	ug/L			11/19/24 15:43	1
Acrylonitrile	20	U	20	5.5	ug/L			11/19/24 15:43	1
Benzene	1.0	U	1.0	0.27	ug/L			11/19/24 15:43	1
Bromochloromethane	1.0	U	1.0	0.34	ug/L			11/19/24 15:43	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/19/24 15:43	1
Bromoform	1.0	U J2	1.0	0.59	ug/L			11/19/24 15:43	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/19/24 15:43	1
Carbon disulfide	5.0	U	5.0	0.43	ug/L			11/19/24 15:43	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/19/24 15:43	1
Chlorobenzene	**66**		1.0	0.15	ug/L			11/19/24 15:43	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/19/24 15:43	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/19/24 15:43	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/19/24 15:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/19/24 15:43	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/19/24 15:43	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/19/24 15:43	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/19/24 15:43	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/19/24 15:43	1
Iodomethane	10	U	10	3.9	ug/L			11/19/24 15:43	1
m,p-Xylenes	2.0	U	2.0	0.49	ug/L			11/19/24 15:43	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/19/24 15:43	1
o-Xylene	1.0	U	1.0	0.26	ug/L			11/19/24 15:43	1
Styrene	1.0	U	1.0	0.27	ug/L			11/19/24 15:43	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/19/24 15:43	1
Toluene	1.0	U	1.0	0.25	ug/L			11/19/24 15:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/19/24 15:43	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/19/24 15:43	1

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-MW15A
Lab Sample ID: 680-258622-4
Date Collected: 11/11/24 10:25
Matrix: Ground Water
Date Received: 11/14/24 09:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/19/24 15:43	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/19/24 15:43	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/19/24 15:43	1
Vinyl acetate	5.0	U J2	5.0	0.69	ug/L			11/19/24 15:43	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/19/24 15:43	1
Xylenes (total)	3.0	U	3.0	0.23	ug/L			11/19/24 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*11/19/24 15:43*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*11/19/24 15:43*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*11/19/24 15:43*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/19/24 15:43*	*1*

Client: Babb & Associates
Project/Site: Seaboard/Riverdale Drive MSWLF

Job ID: 680-258622-1

Client Sample ID: 4101-OWDR2

Date Collected: 11/11/24 11:40
Date Received: 11/14/24 09:48

Lab Sample ID: 680-258622-5

Matrix: Ground Water

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**250**		20	6.4	ug/L			11/15/24 20:31	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*46 - 154*		*11/15/24 20:31*	*20*

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	1.0	U	1.0	0.36	ug/L			11/19/24 16:05	1
1,1,1-Trichloroethane	**3.4**		1.0	0.21	ug/L			11/19/24 16:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/19/24 16:05	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/19/24 16:05	1
1,1-Dichloroethane	**130**		1.0	0.33	ug/L			11/19/24 16:05	1
1,1-Dichloroethene	**57**		1.0	0.33	ug/L			11/19/24 16:05	1
1,2,3-Trichloropropane	1.0	U J2	1.0	0.48	ug/L			11/19/24 16:05	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/19/24 16:05	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/19/24 16:05	1
1,2-Dichlorobenzene	**0.33**	**J**	1.0	0.31	ug/L			11/19/24 16:05	1
1,2-Dichloroethane	**6.4**		1.0	0.25	ug/L			11/19/24 16:05	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/19/24 16:05	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/19/24 16:05	1
2-Butanone	10	U	10	6.4	ug/L			11/19/24 16:05	1
2-Hexanone	10	U	10	3.2	ug/L			11/19/24 16:05	1
4-Methyl-2-pentanone	10	U	10	2.7	ug/L			11/19/24 16:05	1
Acetone	20	U	20	3.7	ug/L			11/19/24 16:05	1
Acrylonitrile	20	U	20	5.5	ug/L			11/19/24 16:05	1
Benzene	**2.0**		1.0	0.27	ug/L			11/19/24 16:05	1
Bromochloromethane	1.0	U	1.0	0.34	ug/L			11/19/24 16:05	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/19/24 16:05	1
Bromoform	1.0	U J2	1.0	0.59	ug/L			11/19/24 16:05	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/19/24 16:05	1
Carbon disulfide	5.0	U	5.0	0.43	ug/L			11/19/24 16:05	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/19/24 16:05	1
Chlorobenzene	**110**		1.0	0.15	ug/L			11/19/24 16:05	1
Chloroethane	**13**		5.0	4.6	ug/L			11/19/24 16:05	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/19/24 16:05	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/19/24 16:05	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/19/24 16:05	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/19/24 16:05	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/19/24 16:05	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/19/24 16:05	1
Iodomethane	10	U	10	3.9	ug/L			11/19/24 16:05	1
m,p-Xylenes	2.0	U	2.0	0.49	ug/L			11/19/24 16:05	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/19/24 16:05	1
o-Xylene	1.0	U	1.0	0.26	ug/L			11/19/24 16:05	1
Styrene	1.0	U	1.0	0.27	ug/L			11/19/24 16:05	1
Tetrachloroethene	**1.9**		1.0	0.35	ug/L			11/19/24 16:05	1
Toluene	1.0	U	1.0	0.25	ug/L			11/19/24 16:05	1
trans-1,2-Dichloroethene	**2.3**		1.0	0.34	ug/L			11/19/24 16:05	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/19/24 16:05	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/19/24 16:05	1

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-OWDR2
Lab Sample ID: 680-258622-5
Date Collected: 11/11/24 11:40
Matrix: Ground Water
Date Received: 11/14/24 09:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**1.6**		1.0	0.20	ug/L			11/19/24 16:05	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/19/24 16:05	1
Vinyl acetate	5.0	U J2	5.0	0.69	ug/L			11/19/24 16:05	1
Vinyl chloride	**30**		1.0	0.40	ug/L			11/19/24 16:05	1
Xylenes (total)	3.0	U	3.0	0.23	ug/L			11/19/24 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*11/19/24 16:05*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*11/19/24 16:05*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*11/19/24 16:05*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/19/24 16:05*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**220**		5.0	1.3	ug/L			11/20/24 19:29	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*11/20/24 19:29*	*5*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*11/20/24 19:29*	*5*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*11/20/24 19:29*	*5*
Toluene-d8 (Surr)	*106*		*70 - 130*		*11/20/24 19:29*	*5*

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-OWLFS2
Lab Sample ID: 680-258622-6
Date Collected: 11/13/24 07:40
Matrix: Ground Water
Date Received: 11/14/24 09:48

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**230**		20	6.4	ug/L			11/15/24 20:53	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*46 - 154*		*11/15/24 20:53*	*20*

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	1.0	U	1.0	0.36	ug/L			11/19/24 16:26	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/19/24 16:26	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/19/24 16:26	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/19/24 16:26	1
1,1-Dichloroethane	**0.53**	**J**	1.0	0.33	ug/L			11/19/24 16:26	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/19/24 16:26	1
1,2,3-Trichloropropane	1.0	U J2	1.0	0.48	ug/L			11/19/24 16:26	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/19/24 16:26	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/19/24 16:26	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/19/24 16:26	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/19/24 16:26	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/19/24 16:26	1
1,4-Dichlorobenzene	**0.72**	**J**	1.0	0.31	ug/L			11/19/24 16:26	1
2-Butanone	10	U	10	6.4	ug/L			11/19/24 16:26	1
2-Hexanone	10	U	10	3.2	ug/L			11/19/24 16:26	1
4-Methyl-2-pentanone	10	U	10	2.7	ug/L			11/19/24 16:26	1
Acetone	20	U	20	3.7	ug/L			11/19/24 16:26	1
Acrylonitrile	20	U	20	5.5	ug/L			11/19/24 16:26	1
Benzene	**2.6**		1.0	0.27	ug/L			11/19/24 16:26	1
Bromochloromethane	1.0	U	1.0	0.34	ug/L			11/19/24 16:26	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/19/24 16:26	1
Bromoform	1.0	U J2	1.0	0.59	ug/L			11/19/24 16:26	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/19/24 16:26	1
Carbon disulfide	5.0	U	5.0	0.43	ug/L			11/19/24 16:26	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/19/24 16:26	1
Chlorobenzene	**2.9**		1.0	0.15	ug/L			11/19/24 16:26	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/19/24 16:26	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/19/24 16:26	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/19/24 16:26	1
cis-1,2-Dichloroethene	**1.1**		1.0	0.25	ug/L			11/19/24 16:26	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/19/24 16:26	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/19/24 16:26	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/19/24 16:26	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/19/24 16:26	1
Iodomethane	10	U	10	3.9	ug/L			11/19/24 16:26	1
m,p-Xylenes	2.0	U	2.0	0.49	ug/L			11/19/24 16:26	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/19/24 16:26	1
o-Xylene	1.0	U	1.0	0.26	ug/L			11/19/24 16:26	1
Styrene	1.0	U	1.0	0.27	ug/L			11/19/24 16:26	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/19/24 16:26	1
Toluene	1.0	U	1.0	0.25	ug/L			11/19/24 16:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/19/24 16:26	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/19/24 16:26	1

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-OWLFS2
Lab Sample ID: 680-258622-6
Date Collected: 11/13/24 07:40
Matrix: Ground Water
Date Received: 11/14/24 09:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/19/24 16:26	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/19/24 16:26	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/19/24 16:26	1
Vinyl acetate	5.0	U J2	5.0	0.69	ug/L			11/19/24 16:26	1
Vinyl chloride	**1.1**		1.0	0.40	ug/L			11/19/24 16:26	1
Xylenes (total)	3.0	U	3.0	0.23	ug/L			11/19/24 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*11/19/24 16:26*	*1*
4-Bromofluorobenzene (Surr)	*75*		*70 - 130*		*11/19/24 16:26*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*11/19/24 16:26*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/19/24 16:26*	*1*

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-PW4I
Lab Sample ID: 680-258622-7
Date Collected: 11/12/24 12:30
Matrix: Ground Water
Date Received: 11/14/24 09:48

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**240**		20	6.4	ug/L			11/15/24 21:15	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*46 - 154*		*11/15/24 21:15*	*20*

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	1.0	U	1.0	0.36	ug/L			11/19/24 16:48	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/19/24 16:48	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/19/24 16:48	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/19/24 16:48	1
1,1-Dichloroethane	**13**		1.0	0.33	ug/L			11/19/24 16:48	1
1,1-Dichloroethene	**7.5**		1.0	0.33	ug/L			11/19/24 16:48	1
1,2,3-Trichloropropane	1.0	U J2	1.0	0.48	ug/L			11/19/24 16:48	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/19/24 16:48	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/19/24 16:48	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/19/24 16:48	1
1,2-Dichloroethane	**8.1**		1.0	0.25	ug/L			11/19/24 16:48	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/19/24 16:48	1
1,4-Dichlorobenzene	**3.0**		1.0	0.31	ug/L			11/19/24 16:48	1
2-Butanone	10	U	10	6.4	ug/L			11/19/24 16:48	1
2-Hexanone	10	U	10	3.2	ug/L			11/19/24 16:48	1
4-Methyl-2-pentanone	10	U	10	2.7	ug/L			11/19/24 16:48	1
Acetone	20	U	20	3.7	ug/L			11/19/24 16:48	1
Acrylonitrile	20	U	20	5.5	ug/L			11/19/24 16:48	1
Benzene	**1.6**		1.0	0.27	ug/L			11/19/24 16:48	1
Bromochloromethane	1.0	U	1.0	0.34	ug/L			11/19/24 16:48	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/19/24 16:48	1
Bromoform	1.0	U J2	1.0	0.59	ug/L			11/19/24 16:48	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/19/24 16:48	1
Carbon disulfide	5.0	U	5.0	0.43	ug/L			11/19/24 16:48	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/19/24 16:48	1
Chlorobenzene	**19**		1.0	0.15	ug/L			11/19/24 16:48	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/19/24 16:48	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/19/24 16:48	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/19/24 16:48	1
cis-1,2-Dichloroethene	**100**		1.0	0.25	ug/L			11/19/24 16:48	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/19/24 16:48	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/19/24 16:48	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/19/24 16:48	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/19/24 16:48	1
Iodomethane	10	U	10	3.9	ug/L			11/19/24 16:48	1
m,p-Xylenes	2.0	U	2.0	0.49	ug/L			11/19/24 16:48	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/19/24 16:48	1
o-Xylene	1.0	U	1.0	0.26	ug/L			11/19/24 16:48	1
Styrene	1.0	U	1.0	0.27	ug/L			11/19/24 16:48	1
Tetrachloroethene	**2.1**		1.0	0.35	ug/L			11/19/24 16:48	1
Toluene	1.0	U	1.0	0.25	ug/L			11/19/24 16:48	1
trans-1,2-Dichloroethene	**0.82**	**J**	1.0	0.34	ug/L			11/19/24 16:48	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/19/24 16:48	1

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-PW4I
Lab Sample ID: 680-258622-7
Date Collected: 11/12/24 12:30
Matrix: Ground Water
Date Received: 11/14/24 09:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/19/24 16:48	1
Trichloroethene	**12**		1.0	0.20	ug/L			11/19/24 16:48	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/19/24 16:48	1
Vinyl acetate	5.0	U J2	5.0	0.69	ug/L			11/19/24 16:48	1
Vinyl chloride	**25**		1.0	0.40	ug/L			11/19/24 16:48	1
Xylenes (total)	3.0	U	3.0	0.23	ug/L			11/19/24 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*11/19/24 16:48*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*11/19/24 16:48*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*11/19/24 16:48*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/19/24 16:48*	*1*

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-PW5D
Lab Sample ID: 680-258622-8
Date Collected: 11/11/24 12:05
Matrix: Ground Water
Date Received: 11/14/24 09:48

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**360**		40	13	ug/L			11/15/24 22:26	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*46 - 154*		*11/15/24 22:26*	*40*

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	1.0	U	1.0	0.36	ug/L			11/19/24 17:10	1
1,1,1-Trichloroethane	**2.0**		1.0	0.21	ug/L			11/19/24 17:10	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/19/24 17:10	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/19/24 17:10	1
1,1-Dichloroethane	**180**		1.0	0.33	ug/L			11/19/24 17:10	1
1,1-Dichloroethene	**1.8**		1.0	0.33	ug/L			11/19/24 17:10	1
1,2,3-Trichloropropane	1.0	U J2	1.0	0.48	ug/L			11/19/24 17:10	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/19/24 17:10	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/19/24 17:10	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/19/24 17:10	1
1,2-Dichloroethane	**13**		1.0	0.25	ug/L			11/19/24 17:10	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/19/24 17:10	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/19/24 17:10	1
2-Butanone	10	U	10	6.4	ug/L			11/19/24 17:10	1
2-Hexanone	10	U	10	3.2	ug/L			11/19/24 17:10	1
4-Methyl-2-pentanone	10	U	10	2.7	ug/L			11/19/24 17:10	1
Acetone	20	U	20	3.7	ug/L			11/19/24 17:10	1
Acrylonitrile	20	U	20	5.5	ug/L			11/19/24 17:10	1
Benzene	**3.5**		1.0	0.27	ug/L			11/19/24 17:10	1
Bromochloromethane	1.0	U	1.0	0.34	ug/L			11/19/24 17:10	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/19/24 17:10	1
Bromoform	1.0	U J2	1.0	0.59	ug/L			11/19/24 17:10	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/19/24 17:10	1
Carbon disulfide	5.0	U	5.0	0.43	ug/L			11/19/24 17:10	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/19/24 17:10	1
Chlorobenzene	**150**		1.0	0.15	ug/L			11/19/24 17:10	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/19/24 17:10	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/19/24 17:10	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/19/24 17:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/19/24 17:10	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/19/24 17:10	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/19/24 17:10	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/19/24 17:10	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/19/24 17:10	1
Iodomethane	10	U	10	3.9	ug/L			11/19/24 17:10	1
m,p-Xylenes	2.0	U	2.0	0.49	ug/L			11/19/24 17:10	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/19/24 17:10	1
o-Xylene	**0.50**	**J**	1.0	0.26	ug/L			11/19/24 17:10	1
Styrene	1.0	U	1.0	0.27	ug/L			11/19/24 17:10	1
Tetrachloroethene	**1.7**		1.0	0.35	ug/L			11/19/24 17:10	1
Toluene	**1.5**		1.0	0.25	ug/L			11/19/24 17:10	1
trans-1,2-Dichloroethene	**0.94**	**J**	1.0	0.34	ug/L			11/19/24 17:10	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/19/24 17:10	1

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-PW5D
Lab Sample ID: 680-258622-8
Date Collected: 11/11/24 12:05
Matrix: Ground Water
Date Received: 11/14/24 09:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/19/24 17:10	1
Trichloroethene	**0.97**	**J**	1.0	0.20	ug/L			11/19/24 17:10	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/19/24 17:10	1
Vinyl acetate	5.0	U J2	5.0	0.69	ug/L			11/19/24 17:10	1
Vinyl chloride	**4.0**		1.0	0.40	ug/L			11/19/24 17:10	1
Xylenes (total)	**0.50**	**J**	3.0	0.23	ug/L			11/19/24 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*11/19/24 17:10*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*11/19/24 17:10*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*11/19/24 17:10*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/19/24 17:10*	*1*

Client Sample ID: 4101-PW6D
Lab Sample ID: 680-258622-9
Date Collected: 11/12/24 13:25
Matrix: Ground Water
Date Received: 11/14/24 09:48

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**190**		25	8.0	ug/L			11/15/24 22:02	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*46 - 154*		*11/15/24 22:02*	*25*

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	1.0	U	1.0	0.36	ug/L			11/19/24 17:31	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/19/24 17:31	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/19/24 17:31	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/19/24 17:31	1
1,1-Dichloroethane	**81**		1.0	0.33	ug/L			11/19/24 17:31	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/19/24 17:31	1
1,2,3-Trichloropropane	1.0	U J2	1.0	0.48	ug/L			11/19/24 17:31	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/19/24 17:31	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/19/24 17:31	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/19/24 17:31	1
1,2-Dichloroethane	**1.8**		1.0	0.25	ug/L			11/19/24 17:31	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/19/24 17:31	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/19/24 17:31	1
2-Butanone	10	U	10	6.4	ug/L			11/19/24 17:31	1
2-Hexanone	10	U	10	3.2	ug/L			11/19/24 17:31	1
4-Methyl-2-pentanone	10	U	10	2.7	ug/L			11/19/24 17:31	1
Acetone	20	U	20	3.7	ug/L			11/19/24 17:31	1
Acrylonitrile	20	U	20	5.5	ug/L			11/19/24 17:31	1
Benzene	**1.7**		1.0	0.27	ug/L			11/19/24 17:31	1
Bromochloromethane	1.0	U	1.0	0.34	ug/L			11/19/24 17:31	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/19/24 17:31	1
Bromoform	1.0	U J2	1.0	0.59	ug/L			11/19/24 17:31	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/19/24 17:31	1
Carbon disulfide	5.0	U	5.0	0.43	ug/L			11/19/24 17:31	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/19/24 17:31	1
Chlorobenzene	**29**		1.0	0.15	ug/L			11/19/24 17:31	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/19/24 17:31	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/19/24 17:31	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/19/24 17:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/19/24 17:31	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/19/24 17:31	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/19/24 17:31	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/19/24 17:31	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/19/24 17:31	1
Iodomethane	10	U	10	3.9	ug/L			11/19/24 17:31	1
m,p-Xylenes	2.0	U	2.0	0.49	ug/L			11/19/24 17:31	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/19/24 17:31	1
o-Xylene	1.0	U	1.0	0.26	ug/L			11/19/24 17:31	1
Styrene	1.0	U	1.0	0.27	ug/L			11/19/24 17:31	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/19/24 17:31	1
Toluene	**0.78**	**J**	1.0	0.25	ug/L			11/19/24 17:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/19/24 17:31	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/19/24 17:31	1

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-PW6D
Lab Sample ID: 680-258622-9
Date Collected: 11/12/24 13:25
Matrix: Ground Water
Date Received: 11/14/24 09:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/19/24 17:31	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/19/24 17:31	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/19/24 17:31	1
Vinyl acetate	5.0	U J2	5.0	0.69	ug/L			11/19/24 17:31	1
Vinyl chloride	**1.8**		1.0	0.40	ug/L			11/19/24 17:31	1
Xylenes (total)	3.0	U	3.0	0.23	ug/L			11/19/24 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*11/19/24 17:31*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*11/19/24 17:31*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*11/19/24 17:31*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/19/24 17:31*	*1*

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-PW10I
Lab Sample ID: 680-258622-10
Date Collected: 11/13/24 08:10
Matrix: Ground Water
Date Received: 11/14/24 09:48

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**320**		20	6.4	ug/L			11/15/24 21:38	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*46 - 154*		*11/15/24 21:38*	*20*

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	1.0	U	1.0	0.36	ug/L			11/19/24 17:53	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/19/24 17:53	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/19/24 17:53	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/19/24 17:53	1
1,1-Dichloroethane	**5.0**		1.0	0.33	ug/L			11/19/24 17:53	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/19/24 17:53	1
1,2,3-Trichloropropane	1.0	U J2	1.0	0.48	ug/L			11/19/24 17:53	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/19/24 17:53	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/19/24 17:53	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/19/24 17:53	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/19/24 17:53	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/19/24 17:53	1
1,4-Dichlorobenzene	**1.8**		1.0	0.31	ug/L			11/19/24 17:53	1
2-Butanone	10	U	10	6.4	ug/L			11/19/24 17:53	1
2-Hexanone	10	U	10	3.2	ug/L			11/19/24 17:53	1
4-Methyl-2-pentanone	10	U	10	2.7	ug/L			11/19/24 17:53	1
Acetone	20	U	20	3.7	ug/L			11/19/24 17:53	1
Acrylonitrile	20	U	20	5.5	ug/L			11/19/24 17:53	1
Benzene	**0.92**	**J**	1.0	0.27	ug/L			11/19/24 17:53	1
Bromochloromethane	1.0	U	1.0	0.34	ug/L			11/19/24 17:53	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/19/24 17:53	1
Bromoform	1.0	U J2	1.0	0.59	ug/L			11/19/24 17:53	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/19/24 17:53	1
Carbon disulfide	5.0	U	5.0	0.43	ug/L			11/19/24 17:53	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/19/24 17:53	1
Chlorobenzene	**2.6**		1.0	0.15	ug/L			11/19/24 17:53	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/19/24 17:53	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/19/24 17:53	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/19/24 17:53	1
cis-1,2-Dichloroethene	**2.0**		1.0	0.25	ug/L			11/19/24 17:53	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/19/24 17:53	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/19/24 17:53	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/19/24 17:53	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/19/24 17:53	1
Iodomethane	10	U	10	3.9	ug/L			11/19/24 17:53	1
m,p-Xylenes	2.0	U	2.0	0.49	ug/L			11/19/24 17:53	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/19/24 17:53	1
o-Xylene	1.0	U	1.0	0.26	ug/L			11/19/24 17:53	1
Styrene	1.0	U	1.0	0.27	ug/L			11/19/24 17:53	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/19/24 17:53	1
Toluene	1.0	U	1.0	0.25	ug/L			11/19/24 17:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/19/24 17:53	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/19/24 17:53	1

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-PW10I
Lab Sample ID: 680-258622-10
Date Collected: 11/13/24 08:10
Matrix: Ground Water
Date Received: 11/14/24 09:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/19/24 17:53	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/19/24 17:53	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/19/24 17:53	1
Vinyl acetate	5.0	U J2	5.0	0.69	ug/L			11/19/24 17:53	1
Vinyl chloride	**1.9**		1.0	0.40	ug/L			11/19/24 17:53	1
Xylenes (total)	3.0	U	3.0	0.23	ug/L			11/19/24 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*11/19/24 17:53*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*11/19/24 17:53*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*11/19/24 17:53*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/19/24 17:53*	*1*

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-PW10D
Lab Sample ID: 680-258622-11
Date Collected: 11/13/24 08:30
Matrix: Ground Water
Date Received: 11/14/24 09:48

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.0	U	1.0	0.32	ug/L			11/15/24 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*46 - 154*		*11/15/24 17:18*	*1*

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	1.0	U	1.0	0.36	ug/L			11/20/24 13:30	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/20/24 13:30	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/20/24 13:30	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/20/24 13:30	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/20/24 13:30	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/20/24 13:30	1
1,2,3-Trichloropropane	1.0	U	1.0	0.48	ug/L			11/20/24 13:30	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/20/24 13:30	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/20/24 13:30	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/20/24 13:30	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/20/24 13:30	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/20/24 13:30	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/20/24 13:30	1
2-Butanone	10	U	10	6.4	ug/L			11/20/24 13:30	1
2-Hexanone	10	U	10	3.2	ug/L			11/20/24 13:30	1
4-Methyl-2-pentanone	10	U	10	2.7	ug/L			11/20/24 13:30	1
Acetone	20	U	20	3.7	ug/L			11/20/24 13:30	1
Acrylonitrile	20	U	20	5.5	ug/L			11/20/24 13:30	1
Benzene	1.0	U	1.0	0.27	ug/L			11/20/24 13:30	1
Bromochloromethane	1.0	U	1.0	0.34	ug/L			11/20/24 13:30	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/20/24 13:30	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/20/24 13:30	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/20/24 13:30	1
Carbon disulfide	5.0	U	5.0	0.43	ug/L			11/20/24 13:30	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/20/24 13:30	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/20/24 13:30	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/20/24 13:30	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/20/24 13:30	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/20/24 13:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/20/24 13:30	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/20/24 13:30	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/20/24 13:30	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/20/24 13:30	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/20/24 13:30	1
Iodomethane	10	U	10	3.9	ug/L			11/20/24 13:30	1
m,p-Xylenes	2.0	U	2.0	0.49	ug/L			11/20/24 13:30	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/20/24 13:30	1
o-Xylene	1.0	U	1.0	0.26	ug/L			11/20/24 13:30	1
Styrene	1.0	U	1.0	0.27	ug/L			11/20/24 13:30	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/20/24 13:30	1
Toluene	1.0	U	1.0	0.25	ug/L			11/20/24 13:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/20/24 13:30	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/20/24 13:30	1

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-PW10D
Lab Sample ID: 680-258622-11
Date Collected: 11/13/24 08:30
Matrix: Ground Water
Date Received: 11/14/24 09:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/20/24 13:30	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/20/24 13:30	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/20/24 13:30	1
Vinyl acetate	5.0	U J2	5.0	0.69	ug/L			11/20/24 13:30	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/20/24 13:30	1
Xylenes (total)	3.0	U	3.0	0.23	ug/L			11/20/24 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*11/20/24 13:30*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*11/20/24 13:30*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*11/20/24 13:30*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*11/20/24 13:30*	*1*

Client: Babb & Associates
Project/Site: Seaboard/Riverdale Drive MSWLF

Job ID: 680-258622-1

Client Sample ID: 4101-PW12I
Date Collected: 11/13/24 09:35
Date Received: 11/14/24 09:48

Lab Sample ID: 680-258622-12
Matrix: Ground Water

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.39	J	1.0	0.32	ug/L			11/15/24 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*71*		*46 - 154*		*11/15/24 17:44*	*1*

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	1.0	U	1.0	0.36	ug/L			11/19/24 18:36	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/19/24 18:36	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/19/24 18:36	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/19/24 18:36	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/19/24 18:36	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/19/24 18:36	1
1,2,3-Trichloropropane	1.0	U J2	1.0	0.48	ug/L			11/19/24 18:36	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/19/24 18:36	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/19/24 18:36	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/19/24 18:36	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/19/24 18:36	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/19/24 18:36	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/19/24 18:36	1
2-Butanone	10	U	10	6.4	ug/L			11/19/24 18:36	1
2-Hexanone	10	U	10	3.2	ug/L			11/19/24 18:36	1
4-Methyl-2-pentanone	10	U	10	2.7	ug/L			11/19/24 18:36	1
Acetone	20	U	20	3.7	ug/L			11/19/24 18:36	1
Acrylonitrile	20	U	20	5.5	ug/L			11/19/24 18:36	1
Benzene	1.0	U	1.0	0.27	ug/L			11/19/24 18:36	1
Bromochloromethane	1.0	U	1.0	0.34	ug/L			11/19/24 18:36	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/19/24 18:36	1
Bromoform	1.0	U J2	1.0	0.59	ug/L			11/19/24 18:36	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/19/24 18:36	1
Carbon disulfide	5.0	U	5.0	0.43	ug/L			11/19/24 18:36	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/19/24 18:36	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/19/24 18:36	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/19/24 18:36	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/19/24 18:36	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/19/24 18:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/19/24 18:36	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/19/24 18:36	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/19/24 18:36	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/19/24 18:36	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/19/24 18:36	1
Iodomethane	10	U	10	3.9	ug/L			11/19/24 18:36	1
m,p-Xylenes	2.0	U	2.0	0.49	ug/L			11/19/24 18:36	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/19/24 18:36	1
o-Xylene	1.0	U	1.0	0.26	ug/L			11/19/24 18:36	1
Styrene	1.0	U	1.0	0.27	ug/L			11/19/24 18:36	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/19/24 18:36	1
Toluene	1.0	U	1.0	0.25	ug/L			11/19/24 18:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/19/24 18:36	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/19/24 18:36	1

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-PW12I
Lab Sample ID: 680-258622-12
Date Collected: 11/13/24 09:35
Matrix: Ground Water
Date Received: 11/14/24 09:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/19/24 18:36	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/19/24 18:36	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/19/24 18:36	1
Vinyl acetate	5.0	U J2	5.0	0.69	ug/L			11/19/24 18:36	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/19/24 18:36	1
Xylenes (total)	3.0	U	3.0	0.23	ug/L			11/19/24 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*11/19/24 18:36*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*11/19/24 18:36*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*11/19/24 18:36*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/19/24 18:36*	*1*

Client Sample ID: 4101-PW13I
Lab Sample ID: 680-258622-13
Date Collected: 11/12/24 08:25
Matrix: Ground Water
Date Received: 11/14/24 09:48

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	67		10	3.2	ug/L			11/15/24 20:09	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*46 - 154*		*11/15/24 20:09*	*10*

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	1.0	U	1.0	0.36	ug/L			11/20/24 13:52	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/20/24 13:52	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/20/24 13:52	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/20/24 13:52	1
1,1-Dichloroethane	70		1.0	0.33	ug/L			11/20/24 13:52	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/20/24 13:52	1
1,2,3-Trichloropropane	1.0	U	1.0	0.48	ug/L			11/20/24 13:52	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/20/24 13:52	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/20/24 13:52	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/20/24 13:52	1
1,2-Dichloroethane	2.6		1.0	0.25	ug/L			11/20/24 13:52	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/20/24 13:52	1
1,4-Dichlorobenzene	0.86	J	1.0	0.31	ug/L			11/20/24 13:52	1
2-Butanone	10	U	10	6.4	ug/L			11/20/24 13:52	1
2-Hexanone	10	U	10	3.2	ug/L			11/20/24 13:52	1
4-Methyl-2-pentanone	10	U	10	2.7	ug/L			11/20/24 13:52	1
Acetone	20	U	20	3.7	ug/L			11/20/24 13:52	1
Acrylonitrile	20	U	20	5.5	ug/L			11/20/24 13:52	1
Benzene	1.9		1.0	0.27	ug/L			11/20/24 13:52	1
Bromochloromethane	1.0	U	1.0	0.34	ug/L			11/20/24 13:52	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/20/24 13:52	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/20/24 13:52	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/20/24 13:52	1
Carbon disulfide	5.0	U	5.0	0.43	ug/L			11/20/24 13:52	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/20/24 13:52	1
Chlorobenzene	11		1.0	0.15	ug/L			11/20/24 13:52	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/20/24 13:52	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/20/24 13:52	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/20/24 13:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/20/24 13:52	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/20/24 13:52	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/20/24 13:52	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/20/24 13:52	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/20/24 13:52	1
Iodomethane	10	U	10	3.9	ug/L			11/20/24 13:52	1
m,p-Xylenes	2.0	U	2.0	0.49	ug/L			11/20/24 13:52	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/20/24 13:52	1
o-Xylene	1.0	U	1.0	0.26	ug/L			11/20/24 13:52	1
Styrene	1.0	U	1.0	0.27	ug/L			11/20/24 13:52	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/20/24 13:52	1
Toluene	0.54	J	1.0	0.25	ug/L			11/20/24 13:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/20/24 13:52	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/20/24 13:52	1

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-PW13I
Lab Sample ID: 680-258622-13
Date Collected: 11/12/24 08:25
Matrix: Ground Water
Date Received: 11/14/24 09:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/20/24 13:52	1
Trichloroethene	**1.5**		1.0	0.20	ug/L			11/20/24 13:52	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/20/24 13:52	1
Vinyl acetate	5.0	U J2	5.0	0.69	ug/L			11/20/24 13:52	1
Vinyl chloride	**4.5**		1.0	0.40	ug/L			11/20/24 13:52	1
Xylenes (total)	3.0	U	3.0	0.23	ug/L			11/20/24 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*11/20/24 13:52*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*11/20/24 13:52*	*1*
Dibromofluoromethane (Surr)	*91*		*70 - 130*		*11/20/24 13:52*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*11/20/24 13:52*	*1*

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-PW14D
Lab Sample ID: 680-258622-14
Date Collected: 11/12/24 10:35
Matrix: Ground Water
Date Received: 11/14/24 09:48

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.44**	**J**	1.0	0.32	ug/L			11/15/24 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*46 - 154*		*11/15/24 18:09*	*1*

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	1.0	U	1.0	0.36	ug/L			11/19/24 19:19	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/19/24 19:19	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/19/24 19:19	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/19/24 19:19	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/19/24 19:19	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/19/24 19:19	1
1,2,3-Trichloropropane	1.0	U J2	1.0	0.48	ug/L			11/19/24 19:19	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/19/24 19:19	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/19/24 19:19	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/19/24 19:19	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/19/24 19:19	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/19/24 19:19	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/19/24 19:19	1
2-Butanone	10	U	10	6.4	ug/L			11/19/24 19:19	1
2-Hexanone	10	U	10	3.2	ug/L			11/19/24 19:19	1
4-Methyl-2-pentanone	10	U	10	2.7	ug/L			11/19/24 19:19	1
Acetone	**14**	**J**	20	3.7	ug/L			11/19/24 19:19	1
Acrylonitrile	20	U	20	5.5	ug/L			11/19/24 19:19	1
Benzene	**0.35**	**J**	1.0	0.27	ug/L			11/19/24 19:19	1
Bromochloromethane	1.0	U	1.0	0.34	ug/L			11/19/24 19:19	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/19/24 19:19	1
Bromoform	1.0	U J2	1.0	0.59	ug/L			11/19/24 19:19	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/19/24 19:19	1
Carbon disulfide	5.0	U	5.0	0.43	ug/L			11/19/24 19:19	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/19/24 19:19	1
Chlorobenzene	**0.95**	**J**	1.0	0.15	ug/L			11/19/24 19:19	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/19/24 19:19	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/19/24 19:19	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/19/24 19:19	1
cis-1,2-Dichloroethene	**0.42**	**J**	1.0	0.25	ug/L			11/19/24 19:19	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/19/24 19:19	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/19/24 19:19	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/19/24 19:19	1
Ethylbenzene	**0.45**	**J**	1.0	0.20	ug/L			11/19/24 19:19	1
Iodomethane	10	U	10	3.9	ug/L			11/19/24 19:19	1
m,p-Xylenes	**2.1**		2.0	0.49	ug/L			11/19/24 19:19	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/19/24 19:19	1
o-Xylene	**0.99**	**J**	1.0	0.26	ug/L			11/19/24 19:19	1
Styrene	1.0	U	1.0	0.27	ug/L			11/19/24 19:19	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/19/24 19:19	1
Toluene	**1.6**		1.0	0.25	ug/L			11/19/24 19:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/19/24 19:19	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/19/24 19:19	1

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-PW14D
Lab Sample ID: 680-258622-14
Date Collected: 11/12/24 10:35
Matrix: Ground Water
Date Received: 11/14/24 09:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/19/24 19:19	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/19/24 19:19	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/19/24 19:19	1
Vinyl acetate	5.0	U J2	5.0	0.69	ug/L			11/19/24 19:19	1
Vinyl chloride	**0.84**	**J**	1.0	0.40	ug/L			11/19/24 19:19	1
Xylenes (total)	**3.1**		3.0	0.23	ug/L			11/19/24 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*11/19/24 19:19*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*11/19/24 19:19*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*11/19/24 19:19*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*11/19/24 19:19*	*1*

Client Sample ID: 4101-PW15D
Lab Sample ID: 680-258622-15
Date Collected: 11/12/24 09:45
Matrix: Ground Water
Date Received: 11/14/24 09:48

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.0	U	1.0	0.32	ug/L			11/15/24 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*46 - 154*		*11/15/24 18:34*	*1*

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	1.0	U	1.0	0.36	ug/L			11/20/24 14:15	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/20/24 14:15	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/20/24 14:15	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/20/24 14:15	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/20/24 14:15	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/20/24 14:15	1
1,2,3-Trichloropropane	1.0	U	1.0	0.48	ug/L			11/20/24 14:15	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/20/24 14:15	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/20/24 14:15	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/20/24 14:15	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/20/24 14:15	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/20/24 14:15	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/20/24 14:15	1
2-Butanone	10	U	10	6.4	ug/L			11/20/24 14:15	1
2-Hexanone	10	U	10	3.2	ug/L			11/20/24 14:15	1
4-Methyl-2-pentanone	10	U	10	2.7	ug/L			11/20/24 14:15	1
Acetone	20	U	20	3.7	ug/L			11/20/24 14:15	1
Acrylonitrile	20	U	20	5.5	ug/L			11/20/24 14:15	1
Benzene	1.0	U	1.0	0.27	ug/L			11/20/24 14:15	1
Bromochloromethane	1.0	U	1.0	0.34	ug/L			11/20/24 14:15	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/20/24 14:15	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/20/24 14:15	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/20/24 14:15	1
Carbon disulfide	5.0	U	5.0	0.43	ug/L			11/20/24 14:15	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/20/24 14:15	1
Chlorobenzene	**2.0**		1.0	0.15	ug/L			11/20/24 14:15	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/20/24 14:15	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/20/24 14:15	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/20/24 14:15	1
cis-1,2-Dichloroethene	**2.7**		1.0	0.25	ug/L			11/20/24 14:15	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/20/24 14:15	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/20/24 14:15	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/20/24 14:15	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/20/24 14:15	1
Iodomethane	10	U	10	3.9	ug/L			11/20/24 14:15	1
m,p-Xylenes	2.0	U	2.0	0.49	ug/L			11/20/24 14:15	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/20/24 14:15	1
o-Xylene	1.0	U	1.0	0.26	ug/L			11/20/24 14:15	1
Styrene	1.0	U	1.0	0.27	ug/L			11/20/24 14:15	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/20/24 14:15	1
Toluene	1.0	U	1.0	0.25	ug/L			11/20/24 14:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/20/24 14:15	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/20/24 14:15	1

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-PW15D
Lab Sample ID: 680-258622-15
Date Collected: 11/12/24 09:45
Matrix: Ground Water
Date Received: 11/14/24 09:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/20/24 14:15	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/20/24 14:15	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/20/24 14:15	1
Vinyl acetate	5.0	U J2	5.0	0.69	ug/L			11/20/24 14:15	1
Vinyl chloride	**1.4**		1.0	0.40	ug/L			11/20/24 14:15	1
Xylenes (total)	3.0	U	3.0	0.23	ug/L			11/20/24 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*11/20/24 14:15*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*11/20/24 14:15*	*1*
Dibromofluoromethane (Surr)	*90*		*70 - 130*		*11/20/24 14:15*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*11/20/24 14:15*	*1*

Client Sample ID: 4101-PW16D
Lab Sample ID: 680-258622-16
Date Collected: 11/12/24 09:35
Matrix: Ground Water
Date Received: 11/14/24 09:48

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.0	U	1.0	0.32	ug/L			11/15/24 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*46 - 154*		*11/15/24 18:58*	*1*

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	1.0	U	1.0	0.36	ug/L			11/19/24 20:02	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/19/24 20:02	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/19/24 20:02	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/19/24 20:02	1
1,1-Dichloroethane	**1.2**		1.0	0.33	ug/L			11/19/24 20:02	1
1,1-Dichloroethene	**1.9**		1.0	0.33	ug/L			11/19/24 20:02	1
1,2,3-Trichloropropane	1.0	U J2	1.0	0.48	ug/L			11/19/24 20:02	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/19/24 20:02	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/19/24 20:02	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/19/24 20:02	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/19/24 20:02	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/19/24 20:02	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/19/24 20:02	1
2-Butanone	10	U	10	6.4	ug/L			11/19/24 20:02	1
2-Hexanone	10	U	10	3.2	ug/L			11/19/24 20:02	1
4-Methyl-2-pentanone	10	U	10	2.7	ug/L			11/19/24 20:02	1
Acetone	20	U	20	3.7	ug/L			11/19/24 20:02	1
Acrylonitrile	20	U	20	5.5	ug/L			11/19/24 20:02	1
Benzene	1.0	U	1.0	0.27	ug/L			11/19/24 20:02	1
Bromochloromethane	1.0	U	1.0	0.34	ug/L			11/19/24 20:02	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/19/24 20:02	1
Bromoform	1.0	U J2	1.0	0.59	ug/L			11/19/24 20:02	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/19/24 20:02	1
Carbon disulfide	5.0	U	5.0	0.43	ug/L			11/19/24 20:02	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/19/24 20:02	1
Chlorobenzene	**0.36**	**J**	1.0	0.15	ug/L			11/19/24 20:02	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/19/24 20:02	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/19/24 20:02	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/19/24 20:02	1
cis-1,2-Dichloroethene	**7.6**		1.0	0.25	ug/L			11/19/24 20:02	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/19/24 20:02	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/19/24 20:02	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/19/24 20:02	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/19/24 20:02	1
Iodomethane	10	U	10	3.9	ug/L			11/19/24 20:02	1
m,p-Xylenes	2.0	U	2.0	0.49	ug/L			11/19/24 20:02	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/19/24 20:02	1
o-Xylene	1.0	U	1.0	0.26	ug/L			11/19/24 20:02	1
Styrene	1.0	U	1.0	0.27	ug/L			11/19/24 20:02	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/19/24 20:02	1
Toluene	1.0	U	1.0	0.25	ug/L			11/19/24 20:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/19/24 20:02	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/19/24 20:02	1

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-PW16D
Lab Sample ID: 680-258622-16
Date Collected: 11/12/24 09:35
Matrix: Ground Water
Date Received: 11/14/24 09:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/19/24 20:02	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/19/24 20:02	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/19/24 20:02	1
Vinyl acetate	5.0	U J2	5.0	0.69	ug/L			11/19/24 20:02	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/19/24 20:02	1
Xylenes (total)	3.0	U	3.0	0.23	ug/L			11/19/24 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*11/19/24 20:02*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*11/19/24 20:02*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*11/19/24 20:02*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*11/19/24 20:02*	*1*

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-PWSF1
Lab Sample ID: 680-258622-17
Date Collected: 11/12/24 12:50
Matrix: Ground Water
Date Received: 11/14/24 09:48

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**3900**		1000	320	ug/L			11/19/24 02:22	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*46 - 154*		*11/19/24 02:22*	*1000*

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	1.0	U	1.0	0.36	ug/L			11/19/24 20:24	1
1,1,2,2-Tetrachloroethane	**0.72**	**J**	1.0	0.40	ug/L			11/19/24 20:24	1
1,1,2-Trichloroethane	**12**		1.0	0.32	ug/L			11/19/24 20:24	1
1,2,3-Trichloropropane	1.0	U J2	1.0	0.48	ug/L			11/19/24 20:24	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/19/24 20:24	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/19/24 20:24	1
1,2-Dichlorobenzene	**11**		1.0	0.31	ug/L			11/19/24 20:24	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/19/24 20:24	1
1,4-Dichlorobenzene	**3.8**		1.0	0.31	ug/L			11/19/24 20:24	1
2-Butanone	10	U	10	6.4	ug/L			11/19/24 20:24	1
2-Hexanone	**7.8**	**J**	10	3.2	ug/L			11/19/24 20:24	1
4-Methyl-2-pentanone	**77**		10	2.7	ug/L			11/19/24 20:24	1
Acetone	**630**		20	3.7	ug/L			11/19/24 20:24	1
Acrylonitrile	20	U	20	5.5	ug/L			11/19/24 20:24	1
Benzene	**76**		1.0	0.27	ug/L			11/19/24 20:24	1
Bromochloromethane	1.0	U	1.0	0.34	ug/L			11/19/24 20:24	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/19/24 20:24	1
Bromoform	1.0	U J2	1.0	0.59	ug/L			11/19/24 20:24	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/19/24 20:24	1
Carbon disulfide	5.0	U	5.0	0.43	ug/L			11/19/24 20:24	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/19/24 20:24	1
Chloroethane	**86**		5.0	4.6	ug/L			11/19/24 20:24	1
Chloroform	**26**		1.0	0.27	ug/L			11/19/24 20:24	1
Chloromethane	**1.1**		1.0	0.54	ug/L			11/19/24 20:24	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/19/24 20:24	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/19/24 20:24	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/19/24 20:24	1
Ethylbenzene	**79**		1.0	0.20	ug/L			11/19/24 20:24	1
Iodomethane	10	U	10	3.9	ug/L			11/19/24 20:24	1
o-Xylene	**120**		1.0	0.26	ug/L			11/19/24 20:24	1
Styrene	1.0	U	1.0	0.27	ug/L			11/19/24 20:24	1
trans-1,2-Dichloroethene	**25**		1.0	0.34	ug/L			11/19/24 20:24	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/19/24 20:24	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/19/24 20:24	1
Trichlorofluoromethane	**41**		1.0	0.33	ug/L			11/19/24 20:24	1
Vinyl acetate	5.0	U J2	5.0	0.69	ug/L			11/19/24 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*11/19/24 20:24*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*11/19/24 20:24*	*1*
Dibromofluoromethane (Surr)	*136*	*J1*	*70 - 130*		*11/19/24 20:24*	*1*
Toluene-d8 (Surr)	*110*		*70 - 130*		*11/19/24 20:24*	*1*

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-PWSF1
Lab Sample ID: 680-258622-17
Date Collected: 11/12/24 12:50
Matrix: Ground Water
Date Received: 11/14/24 09:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	8500		100	21	ug/L			11/20/24 19:52	100
1,1-Dichloroethane	3800		100	33	ug/L			11/20/24 19:52	100
1,1-Dichloroethene	3200		100	33	ug/L			11/20/24 19:52	100
1,2-Dichloroethane	710		100	25	ug/L			11/20/24 19:52	100
Chlorobenzene	8900		100	15	ug/L			11/20/24 19:52	100
cis-1,2-Dichloroethene	12000		100	25	ug/L			11/20/24 19:52	100
m,p-Xylenes	230		200	49	ug/L			11/20/24 19:52	100
Methylene Chloride	500	U	500	320	ug/L			11/20/24 19:52	100
Tetrachloroethene	450		100	35	ug/L			11/20/24 19:52	100
Toluene	1400		100	25	ug/L			11/20/24 19:52	100
Trichloroethene	1300		100	20	ug/L			11/20/24 19:52	100
Vinyl chloride	3300		100	40	ug/L			11/20/24 19:52	100
Xylenes (total)	350		300	23	ug/L			11/20/24 19:52	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*		*11/20/24 19:52*	*100*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*11/20/24 19:52*	*100*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*11/20/24 19:52*	*100*
Toluene-d8 (Surr)	*104*		*70 - 130*		*11/20/24 19:52*	*100*

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-Trip Blank2
Lab Sample ID: 680-258622-18
Date Collected: 11/11/24 00:00
Matrix: Water
Date Received: 11/14/24 09:48

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	1.0	U	1.0	0.36	ug/L			11/19/24 14:17	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/19/24 14:17	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/19/24 14:17	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/19/24 14:17	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/19/24 14:17	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/19/24 14:17	1
1,2,3-Trichloropropane	1.0	U J2	1.0	0.48	ug/L			11/19/24 14:17	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/19/24 14:17	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/19/24 14:17	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/19/24 14:17	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/19/24 14:17	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/19/24 14:17	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/19/24 14:17	1
2-Butanone	10	U	10	6.4	ug/L			11/19/24 14:17	1
2-Hexanone	10	U	10	3.2	ug/L			11/19/24 14:17	1
4-Methyl-2-pentanone	10	U	10	2.7	ug/L			11/19/24 14:17	1
Acetone	20	U	20	3.7	ug/L			11/19/24 14:17	1
Acrylonitrile	20	U	20	5.5	ug/L			11/19/24 14:17	1
Benzene	1.0	U	1.0	0.27	ug/L			11/19/24 14:17	1
Bromochloromethane	1.0	U	1.0	0.34	ug/L			11/19/24 14:17	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/19/24 14:17	1
Bromoform	1.0	U J2	1.0	0.59	ug/L			11/19/24 14:17	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/19/24 14:17	1
Carbon disulfide	5.0	U	5.0	0.43	ug/L			11/19/24 14:17	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/19/24 14:17	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/19/24 14:17	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/19/24 14:17	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/19/24 14:17	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/19/24 14:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/19/24 14:17	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/19/24 14:17	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/19/24 14:17	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/19/24 14:17	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/19/24 14:17	1
Iodomethane	10	U	10	3.9	ug/L			11/19/24 14:17	1
m,p-Xylenes	2.0	U	2.0	0.49	ug/L			11/19/24 14:17	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/19/24 14:17	1
o-Xylene	1.0	U	1.0	0.26	ug/L			11/19/24 14:17	1
Styrene	1.0	U	1.0	0.27	ug/L			11/19/24 14:17	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/19/24 14:17	1
Toluene	1.0	U	1.0	0.25	ug/L			11/19/24 14:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/19/24 14:17	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/19/24 14:17	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/19/24 14:17	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/19/24 14:17	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/19/24 14:17	1
Vinyl acetate	5.0	U J2	5.0	0.69	ug/L			11/19/24 14:17	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/19/24 14:17	1
Xylenes (total)	3.0	U	3.0	0.23	ug/L			11/19/24 14:17	1

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-Trip Blank2
Lab Sample ID: 680-258622-18
Date Collected: 11/11/24 00:00
Matrix: Water
Date Received: 11/14/24 09:48

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		60 - 124		11/19/24 14:17	1
4-Bromofluorobenzene (Surr)	105		70 - 130		11/19/24 14:17	1
Dibromofluoromethane (Surr)	105		70 - 130		11/19/24 14:17	1
Toluene-d8 (Surr)	99		70 - 130		11/19/24 14:17	1

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

Lab Sample ID: MB 680-865157/8
Matrix: Water
Analysis Batch: 865157

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	1.0	U	1.0	0.36	ug/L			11/19/24 12:20	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/19/24 12:20	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/19/24 12:20	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/19/24 12:20	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/19/24 12:20	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/19/24 12:20	1
1,2,3-Trichloropropane	1.0	U	1.0	0.48	ug/L			11/19/24 12:20	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/19/24 12:20	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/19/24 12:20	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/19/24 12:20	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/19/24 12:20	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/19/24 12:20	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/19/24 12:20	1
2-Butanone	10	U	10	6.4	ug/L			11/19/24 12:20	1
2-Hexanone	10	U	10	3.2	ug/L			11/19/24 12:20	1
4-Methyl-2-pentanone	10	U	10	2.7	ug/L			11/19/24 12:20	1
Acetone	20	U	20	3.7	ug/L			11/19/24 12:20	1
Acrylonitrile	20	U	20	5.5	ug/L			11/19/24 12:20	1
Benzene	1.0	U	1.0	0.27	ug/L			11/19/24 12:20	1
Bromochloromethane	1.0	U	1.0	0.34	ug/L			11/19/24 12:20	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/19/24 12:20	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/19/24 12:20	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/19/24 12:20	1
Carbon disulfide	5.0	U	5.0	0.43	ug/L			11/19/24 12:20	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/19/24 12:20	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/19/24 12:20	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/19/24 12:20	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/19/24 12:20	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/19/24 12:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/19/24 12:20	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/19/24 12:20	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/19/24 12:20	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/19/24 12:20	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/19/24 12:20	1
Iodomethane	10	U	10	3.9	ug/L			11/19/24 12:20	1
m,p-Xylenes	2.0	U	2.0	0.49	ug/L			11/19/24 12:20	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/19/24 12:20	1
o-Xylene	1.0	U	1.0	0.26	ug/L			11/19/24 12:20	1
Styrene	1.0	U	1.0	0.27	ug/L			11/19/24 12:20	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/19/24 12:20	1
Toluene	1.0	U	1.0	0.25	ug/L			11/19/24 12:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/19/24 12:20	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/19/24 12:20	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/19/24 12:20	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/19/24 12:20	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/19/24 12:20	1
Vinyl acetate	5.0	U	5.0	0.69	ug/L			11/19/24 12:20	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/19/24 12:20	1

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

Lab Sample ID: MB 680-865157/8
Matrix: Water
Analysis Batch: 865157

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes (total)	3.0	U	3.0	0.23	ug/L			11/19/24 12:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*11/19/24 12:20*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*11/19/24 12:20*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*11/19/24 12:20*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*11/19/24 12:20*	*1*

Lab Sample ID: LCS 680-865157/4
Matrix: Water
Analysis Batch: 865157

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	50.0	47.3		ug/L		95	70 - 130
1,1,1-Trichloroethane	50.0	48.4		ug/L		97	70 - 130
1,1,2,2-Tetrachloroethane	50.0	38.5		ug/L		77	70 - 130
1,1,2-Trichloroethane	50.0	45.3		ug/L		91	70 - 130
1,1-Dichloroethane	50.0	49.4		ug/L		99	70 - 130
1,1-Dichloroethene	50.0	48.5		ug/L		97	70 - 130
1,2,3-Trichloropropane	50.0	35.2		ug/L		70	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	44.1		ug/L		88	70 - 130
1,2-Dibromoethane	50.0	46.1		ug/L		92	70 - 130
1,2-Dichlorobenzene	50.0	52.1		ug/L		104	70 - 130
1,2-Dichloroethane	50.0	48.3		ug/L		97	70 - 130
1,2-Dichloropropane	50.0	47.2		ug/L		94	70 - 130
1,4-Dichlorobenzene	50.0	49.3		ug/L		99	70 - 130
2-Butanone	250	219		ug/L		88	69 - 120
2-Hexanone	250	224		ug/L		90	70 - 130
4-Methyl-2-pentanone	250	224		ug/L		90	68 - 120
Acetone	250	217		ug/L		87	67 - 120
Acrylonitrile	500	448		ug/L		90	70 - 130
Benzene	50.0	47.5		ug/L		95	70 - 130
Bromochloromethane	50.0	47.5		ug/L		95	70 - 130
Bromodichloromethane	50.0	45.5		ug/L		91	70 - 130
Bromoform	50.0	42.5		ug/L		85	69 - 129
Bromomethane	50.0	53.1		ug/L		106	28 - 192
Carbon disulfide	50.0	46.6		ug/L		93	70 - 130
Carbon tetrachloride	50.0	46.1		ug/L		92	70 - 130
Chlorobenzene	50.0	49.6		ug/L		99	70 - 130
Chloroethane	50.0	35.6		ug/L		71	31 - 213
Chloroform	50.0	49.0		ug/L		98	70 - 130
Chloromethane	50.0	40.9		ug/L		82	59 - 127
cis-1,2-Dichloroethene	50.0	51.2		ug/L		102	70 - 130
cis-1,3-Dichloropropene	50.0	47.0		ug/L		94	70 - 130
Dibromochloromethane	50.0	43.1		ug/L		86	70 - 130
Dibromomethane	50.0	45.5		ug/L		91	70 - 130
Ethylbenzene	50.0	52.9		ug/L		106	70 - 130
Iodomethane	50.0	45.8		ug/L		92	52 - 129

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

Lab Sample ID: LCS 680-865157/4
Matrix: Water
Analysis Batch: 865157

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
m,p-Xylenes			50.0	55.1		ug/L		110	70 - 130		
Methylene Chloride			50.0	48.8		ug/L		98	70 - 130		
o-Xylene			50.0	53.1		ug/L		106	70 - 130		
Styrene			50.0	49.6		ug/L		99	70 - 130		
Tetrachloroethene			50.0	47.7		ug/L		95	70 - 130		
Toluene			50.0	35.4		ug/L		71	70 - 130		
trans-1,2-Dichloroethene			50.0	51.6		ug/L		103	70 - 130		
trans-1,3-Dichloropropene			50.0	46.8		ug/L		94	70 - 130		
trans-1,4-Dichloro-2-butene			50.0	39.6		ug/L		79	67 - 120		
Trichloroethene			50.0	44.6		ug/L		89	70 - 130		
Trichlorofluoromethane			50.0	50.4		ug/L		101	63 - 142		
Vinyl acetate			100	150	J2	ug/L		150	67 - 135		
Vinyl chloride			50.0	37.5		ug/L		75	66 - 129		
Xylenes (total)			100	108		ug/L		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*72*		*70 - 130*

Lab Sample ID: LCSD 680-865157/5
Matrix: Water
Analysis Batch: 865157

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			50.0	47.0		ug/L		94	70 - 130	1	30
1,1,1-Trichloroethane			50.0	50.1		ug/L		100	70 - 130	3	30
1,1,2,2-Tetrachloroethane			50.0	49.7		ug/L		99	70 - 130	25	30
1,1,2-Trichloroethane			50.0	50.0		ug/L		100	70 - 130	10	30
1,1-Dichloroethane			50.0	51.5		ug/L		103	70 - 130	4	30
1,1-Dichloroethene			50.0	50.4		ug/L		101	70 - 130	4	20
1,2,3-Trichloropropane			50.0	52.9	J2	ug/L		106	70 - 130	40	30
1,2-Dibromo-3-Chloropropane			50.0	44.0		ug/L		88	70 - 130	0	30
1,2-Dibromoethane			50.0	49.4		ug/L		99	70 - 130	7	30
1,2-Dichlorobenzene			50.0	51.3		ug/L		103	70 - 130	1	30
1,2-Dichloroethane			50.0	51.3		ug/L		103	70 - 130	6	50
1,2-Dichloropropane			50.0	51.0		ug/L		102	70 - 130	8	20
1,4-Dichlorobenzene			50.0	48.9		ug/L		98	70 - 130	1	30
2-Butanone			250	244		ug/L		97	69 - 120	11	30
2-Hexanone			250	248		ug/L		99	70 - 130	10	20
4-Methyl-2-pentanone			250	244		ug/L		98	68 - 120	9	30
Acetone			250	245		ug/L		98	67 - 120	12	30
Acrylonitrile			500	490		ug/L		98	70 - 130	9	30
Benzene			50.0	50.4		ug/L		101	70 - 130	6	30
Bromochloromethane			50.0	50.8		ug/L		102	70 - 130	7	30
Bromodichloromethane			50.0	48.7		ug/L		97	70 - 130	7	30
Bromoform			50.0	29.6	J2	ug/L		59	69 - 129	36	30

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

Lab Sample ID: LCSD 680-865157/5
Matrix: Water
Analysis Batch: 865157

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromomethane	50.0	56.1		ug/L		112	28 - 192	6	30
Carbon disulfide	50.0	49.2		ug/L		98	70 - 130	5	30
Carbon tetrachloride	50.0	48.7		ug/L		97	70 - 130	6	30
Chlorobenzene	50.0	49.4		ug/L		99	70 - 130	0	30
Chloroethane	50.0	41.1		ug/L		82	31 - 213	14	30
Chloroform	50.0	51.7		ug/L		103	70 - 130	5	30
Chloromethane	50.0	39.9		ug/L		80	59 - 127	2	30
cis-1,2-Dichloroethene	50.0	53.0		ug/L		106	70 - 130	4	30
cis-1,3-Dichloropropene	50.0	49.3		ug/L		99	70 - 130	5	20
Dibromochloromethane	50.0	47.0		ug/L		94	70 - 130	9	30
Dibromomethane	50.0	49.1		ug/L		98	70 - 130	8	30
Ethylbenzene	50.0	52.6		ug/L		105	70 - 130	0	20
Iodomethane	50.0	48.9		ug/L		98	52 - 129	6	30
m,p-Xylenes	50.0	55.0		ug/L		110	70 - 130	0	30
Methylene Chloride	50.0	51.5		ug/L		103	70 - 130	5	30
o-Xylene	50.0	52.5		ug/L		105	70 - 130	1	30
Styrene	50.0	49.5		ug/L		99	70 - 130	0	30
Tetrachloroethene	50.0	50.7		ug/L		101	70 - 130	6	30
Toluene	50.0	41.5		ug/L		83	70 - 130	16	30
trans-1,2-Dichloroethene	50.0	53.9		ug/L		108	70 - 130	4	30
trans-1,3-Dichloropropene	50.0	49.3		ug/L		99	70 - 130	5	30
trans-1,4-Dichloro-2-butene	50.0	49.5		ug/L		99	67 - 120	22	30
Trichloroethene	50.0	46.7		ug/L		93	70 - 130	5	30
Trichlorofluoromethane	50.0	52.3		ug/L		105	63 - 142	4	30
Vinyl acetate	100	159	J2	ug/L		159	67 - 135	6	30
Vinyl chloride	50.0	40.6		ug/L		81	66 - 129	8	30
Xylenes (total)	100	108		ug/L		108	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*
Dibromofluoromethane (Surr)	*111*		*70 - 130*
Toluene-d8 (Surr)	*83*		*70 - 130*

Lab Sample ID: MB 680-865342/8
Matrix: Water
Analysis Batch: 865342

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	1.0	U	1.0	0.36	ug/L			11/20/24 12:02	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/20/24 12:02	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/20/24 12:02	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/20/24 12:02	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/20/24 12:02	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/20/24 12:02	1
1,2,3-Trichloropropane	1.0	U	1.0	0.48	ug/L			11/20/24 12:02	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/20/24 12:02	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/20/24 12:02	1

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

Lab Sample ID: MB 680-865342/8
Matrix: Water
Analysis Batch: 865342

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/20/24 12:02	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/20/24 12:02	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/20/24 12:02	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/20/24 12:02	1
2-Butanone	10	U	10	6.4	ug/L			11/20/24 12:02	1
2-Hexanone	10	U	10	3.2	ug/L			11/20/24 12:02	1
4-Methyl-2-pentanone	10	U	10	2.7	ug/L			11/20/24 12:02	1
Acetone	20	U	20	3.7	ug/L			11/20/24 12:02	1
Acrylonitrile	20	U	20	5.5	ug/L			11/20/24 12:02	1
Benzene	1.0	U	1.0	0.27	ug/L			11/20/24 12:02	1
Bromochloromethane	1.0	U	1.0	0.34	ug/L			11/20/24 12:02	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/20/24 12:02	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/20/24 12:02	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/20/24 12:02	1
Carbon disulfide	5.0	U	5.0	0.43	ug/L			11/20/24 12:02	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/20/24 12:02	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/20/24 12:02	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/20/24 12:02	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/20/24 12:02	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/20/24 12:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/20/24 12:02	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/20/24 12:02	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/20/24 12:02	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/20/24 12:02	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/20/24 12:02	1
Iodomethane	10	U	10	3.9	ug/L			11/20/24 12:02	1
m,p-Xylenes	2.0	U	2.0	0.49	ug/L			11/20/24 12:02	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/20/24 12:02	1
o-Xylene	1.0	U	1.0	0.26	ug/L			11/20/24 12:02	1
Styrene	1.0	U	1.0	0.27	ug/L			11/20/24 12:02	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/20/24 12:02	1
Toluene	1.0	U	1.0	0.25	ug/L			11/20/24 12:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/20/24 12:02	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/20/24 12:02	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/20/24 12:02	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/20/24 12:02	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/20/24 12:02	1
Vinyl acetate	5.0	U	5.0	0.69	ug/L			11/20/24 12:02	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/20/24 12:02	1
Xylenes (total)	3.0	U	3.0	0.23	ug/L			11/20/24 12:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*11/20/24 12:02*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*11/20/24 12:02*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*11/20/24 12:02*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*11/20/24 12:02*	*1*

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

Lab Sample ID: LCS 680-865342/4
Matrix: Water
Analysis Batch: 865342

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	50.0	51.5		ug/L		103	70 - 130
1,1,1-Trichloroethane	50.0	48.0		ug/L		96	70 - 130
1,1,2,2-Tetrachloroethane	50.0	52.4		ug/L		105	70 - 130
1,1,2-Trichloroethane	50.0	43.3		ug/L		87	70 - 130
1,1-Dichloroethane	50.0	50.6		ug/L		101	70 - 130
1,1-Dichloroethene	50.0	50.5		ug/L		101	70 - 130
1,2,3-Trichloropropane	50.0	50.3		ug/L		101	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	45.4		ug/L		91	70 - 130
1,2-Dibromoethane	50.0	48.4		ug/L		97	70 - 130
1,2-Dichlorobenzene	50.0	47.5		ug/L		95	70 - 130
1,2-Dichloroethane	50.0	49.0		ug/L		98	70 - 130
1,2-Dichloropropane	50.0	49.5		ug/L		99	70 - 130
1,4-Dichlorobenzene	50.0	46.0		ug/L		92	70 - 130
2-Butanone	250	238		ug/L		95	69 - 120
2-Hexanone	250	229		ug/L		92	70 - 130
4-Methyl-2-pentanone	250	201		ug/L		80	68 - 120
Acetone	250	221		ug/L		89	67 - 120
Acrylonitrile	500	507		ug/L		101	70 - 130
Benzene	50.0	52.0		ug/L		104	70 - 130
Bromochloromethane	50.0	44.6		ug/L		89	70 - 130
Bromodichloromethane	50.0	49.4		ug/L		99	70 - 130
Bromoform	50.0	49.2		ug/L		98	69 - 129
Bromomethane	50.0	48.1		ug/L		96	28 - 192
Carbon disulfide	50.0	51.3		ug/L		103	70 - 130
Carbon tetrachloride	50.0	47.3		ug/L		95	70 - 130
Chlorobenzene	50.0	48.9		ug/L		98	70 - 130
Chloroethane	50.0	49.9		ug/L		100	31 - 213
Chloroform	50.0	48.7		ug/L		97	70 - 130
Chloromethane	50.0	53.2		ug/L		106	59 - 127
cis-1,2-Dichloroethene	50.0	49.8		ug/L		100	70 - 130
cis-1,3-Dichloropropene	50.0	45.5		ug/L		91	70 - 130
Dibromochloromethane	50.0	51.9		ug/L		104	70 - 130
Dibromomethane	50.0	48.6		ug/L		97	70 - 130
Ethylbenzene	50.0	45.4		ug/L		91	70 - 130
Iodomethane	50.0	45.0		ug/L		90	52 - 129
m,p-Xylenes	50.0	46.6		ug/L		93	70 - 130
Methylene Chloride	50.0	50.1		ug/L		100	70 - 130
o-Xylene	50.0	47.8		ug/L		96	70 - 130
Styrene	50.0	44.7		ug/L		89	70 - 130
Tetrachloroethene	50.0	44.7		ug/L		89	70 - 130
Toluene	50.0	49.6		ug/L		99	70 - 130
trans-1,2-Dichloroethene	50.0	49.9		ug/L		100	70 - 130
trans-1,3-Dichloropropene	50.0	48.4		ug/L		97	70 - 130
trans-1,4-Dichloro-2-butene	50.0	44.3		ug/L		89	67 - 120
Trichloroethene	50.0	49.8		ug/L		100	70 - 130
Trichlorofluoromethane	50.0	51.9		ug/L		104	63 - 142
Vinyl acetate	100	184	J2	ug/L		184	67 - 135
Vinyl chloride	50.0	52.9		ug/L		106	66 - 129

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

Lab Sample ID: LCS 680-865342/4
Matrix: Water
Analysis Batch: 865342

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes (total)			100	94.4		ug/L		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*92*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 680-865342/5
Matrix: Water
Analysis Batch: 865342

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			50.0	54.5		ug/L		109	70 - 130	6	30
1,1,1-Trichloroethane			50.0	46.9		ug/L		94	70 - 130	2	30
1,1,2,2-Tetrachloroethane			50.0	55.2		ug/L		110	70 - 130	5	30
1,1,2-Trichloroethane			50.0	51.7		ug/L		103	70 - 130	18	30
1,1-Dichloroethane			50.0	52.4		ug/L		105	70 - 130	4	30
1,1-Dichloroethene			50.0	53.8		ug/L		108	70 - 130	6	20
1,2,3-Trichloropropane			50.0	53.8		ug/L		108	70 - 130	7	30
1,2-Dibromo-3-Chloropropane			50.0	50.0		ug/L		100	70 - 130	10	30
1,2-Dibromoethane			50.0	50.7		ug/L		101	70 - 130	5	30
1,2-Dichlorobenzene			50.0	49.0		ug/L		98	70 - 130	3	30
1,2-Dichloroethane			50.0	49.8		ug/L		100	70 - 130	2	50
1,2-Dichloropropane			50.0	50.6		ug/L		101	70 - 130	2	20
1,4-Dichlorobenzene			50.0	46.5		ug/L		93	70 - 130	1	30
2-Butanone			250	252		ug/L		101	69 - 120	6	30
2-Hexanone			250	274		ug/L		110	70 - 130	18	20
4-Methyl-2-pentanone			250	254		ug/L		102	68 - 120	23	30
Acetone			250	231		ug/L		93	67 - 120	4	30
Acrylonitrile			500	556		ug/L		111	70 - 130	9	30
Benzene			50.0	50.6		ug/L		101	70 - 130	3	30
Bromochloromethane			50.0	49.8		ug/L		100	70 - 130	11	30
Bromodichloromethane			50.0	50.2		ug/L		100	70 - 130	1	30
Bromoform			50.0	54.1		ug/L		108	69 - 129	9	30
Bromomethane			50.0	41.8		ug/L		84	28 - 192	14	30
Carbon disulfide			50.0	51.5		ug/L		103	70 - 130	0	30
Carbon tetrachloride			50.0	46.1		ug/L		92	70 - 130	3	30
Chlorobenzene			50.0	49.9		ug/L		100	70 - 130	2	30
Chloroethane			50.0	52.5		ug/L		105	31 - 213	5	30
Chloroform			50.0	53.2		ug/L		106	70 - 130	9	30
Chloromethane			50.0	54.1		ug/L		108	59 - 127	2	30
cis-1,2-Dichloroethene			50.0	52.1		ug/L		104	70 - 130	5	30
cis-1,3-Dichloropropene			50.0	53.9		ug/L		108	70 - 130	17	20
Dibromochloromethane			50.0	57.2		ug/L		114	70 - 130	10	30
Dibromomethane			50.0	55.3		ug/L		111	70 - 130	13	30
Ethylbenzene			50.0	46.2		ug/L		92	70 - 130	2	20
Iodomethane			50.0	49.2		ug/L		98	52 - 129	9	30

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

Lab Sample ID: LCSD 680-865342/5
Matrix: Water
Analysis Batch: 865342

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			50.0	47.2		ug/L		94	70 - 130	1	30
Methylene Chloride			50.0	51.1		ug/L		102	70 - 130	2	30
o-Xylene			50.0	50.2		ug/L		100	70 - 130	5	30
Styrene			50.0	47.2		ug/L		94	70 - 130	6	30
Tetrachloroethene			50.0	49.2		ug/L		98	70 - 130	10	30
Toluene			50.0	54.4		ug/L		109	70 - 130	9	30
trans-1,2-Dichloroethene			50.0	55.3		ug/L		111	70 - 130	10	30
trans-1,3-Dichloropropene			50.0	53.9		ug/L		108	70 - 130	11	30
trans-1,4-Dichloro-2-butene			50.0	49.5		ug/L		99	67 - 120	11	30
Trichloroethene			50.0	50.5		ug/L		101	70 - 130	1	30
Trichlorofluoromethane			50.0	56.9		ug/L		114	63 - 142	9	30
Vinyl acetate			100	191	J2	ug/L		191	67 - 135	4	30
Vinyl chloride			50.0	54.8		ug/L		110	66 - 129	4	30
Xylenes (total)			100	97.4		ug/L		97	70 - 130	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Method: 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-864707/6
Matrix: Water
Analysis Batch: 864707

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.0	U	1.0	0.32	ug/L			11/15/24 13:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*46 - 154*		*11/15/24 13:24*	*1*

Lab Sample ID: LCS 680-864707/4
Matrix: Water
Analysis Batch: 864707

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			5.00	5.38		ug/L		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*46 - 154*

Method: 8260D SIM 14D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-864707/5
Matrix: Water
Analysis Batch: 864707

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane			5.00	5.01		ug/L		100	70 - 130	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*46 - 154*

Lab Sample ID: MB 680-864917/5
Matrix: Water
Analysis Batch: 864917

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.0	U	1.0	0.32	ug/L			11/18/24 18:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*46 - 154*		*11/18/24 18:51*	*1*

Lab Sample ID: LCS 680-864917/3
Matrix: Water
Analysis Batch: 864917

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			5.00	4.63		ug/L		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*46 - 154*

Lab Sample ID: LCSD 680-864917/4
Matrix: Water
Analysis Batch: 864917

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane			5.00	4.80		ug/L		96	70 - 130	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*46 - 154*

GC/MS VOA

Analysis Batch: 864707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258622-1	4101-MW6	Total/NA	Ground Water	8260D SIM 14D	
680-258622-2	4101-MW12B	Total/NA	Ground Water	8260D SIM 14D	
680-258622-3	4101-MW12D	Total/NA	Ground Water	8260D SIM 14D	
680-258622-4	4101-MW15A	Total/NA	Ground Water	8260D SIM 14D	
680-258622-5	4101-OWDR2	Total/NA	Ground Water	8260D SIM 14D	
680-258622-6	4101-OWLFS2	Total/NA	Ground Water	8260D SIM 14D	
680-258622-7	4101-PW4I	Total/NA	Ground Water	8260D SIM 14D	
680-258622-8	4101-PW5D	Total/NA	Ground Water	8260D SIM 14D	
680-258622-9	4101-PW6D	Total/NA	Ground Water	8260D SIM 14D	
680-258622-10	4101-PW10I	Total/NA	Ground Water	8260D SIM 14D	
680-258622-11	4101-PW10D	Total/NA	Ground Water	8260D SIM 14D	
680-258622-12	4101-PW12I	Total/NA	Ground Water	8260D SIM 14D	
680-258622-13	4101-PW13I	Total/NA	Ground Water	8260D SIM 14D	
680-258622-14	4101-PW14D	Total/NA	Ground Water	8260D SIM 14D	
680-258622-15	4101-PW15D	Total/NA	Ground Water	8260D SIM 14D	
680-258622-16	4101-PW16D	Total/NA	Ground Water	8260D SIM 14D	
MB 680-864707/6	Method Blank	Total/NA	Water	8260D SIM 14D	
LCS 680-864707/4	Lab Control Sample	Total/NA	Water	8260D SIM 14D	
LCSD 680-864707/5	Lab Control Sample Dup	Total/NA	Water	8260D SIM 14D	

Analysis Batch: 864917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258622-17	4101-PWSF1	Total/NA	Ground Water	8260D SIM 14D	
MB 680-864917/5	Method Blank	Total/NA	Water	8260D SIM 14D	
LCS 680-864917/3	Lab Control Sample	Total/NA	Water	8260D SIM 14D	
LCSD 680-864917/4	Lab Control Sample Dup	Total/NA	Water	8260D SIM 14D	

Analysis Batch: 865157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258622-1	4101-MW6	Total/NA	Ground Water	8260D	
680-258622-3	4101-MW12D	Total/NA	Ground Water	8260D	
680-258622-4	4101-MW15A	Total/NA	Ground Water	8260D	
680-258622-5	4101-OWDR2	Total/NA	Ground Water	8260D	
680-258622-6	4101-OWLFS2	Total/NA	Ground Water	8260D	
680-258622-7	4101-PW4I	Total/NA	Ground Water	8260D	
680-258622-8	4101-PW5D	Total/NA	Ground Water	8260D	
680-258622-9	4101-PW6D	Total/NA	Ground Water	8260D	
680-258622-10	4101-PW10I	Total/NA	Ground Water	8260D	
680-258622-12	4101-PW12I	Total/NA	Ground Water	8260D	
680-258622-14	4101-PW14D	Total/NA	Ground Water	8260D	
680-258622-16	4101-PW16D	Total/NA	Ground Water	8260D	
680-258622-17	4101-PWSF1	Total/NA	Ground Water	8260D	
680-258622-18	4101-Trip Blank2	Total/NA	Water	8260D	
MB 680-865157/8	Method Blank	Total/NA	Water	8260D	
LCS 680-865157/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-865157/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 865342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258622-2	4101-MW12B	Total/NA	Ground Water	8260D	
680-258622-5 - DL	4101-OWDR2	Total/NA	Ground Water	8260D	

GC/MS VOA (Continued)

Analysis Batch: 865342 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258622-11	4101-PW10D	Total/NA	Ground Water	8260D	
680-258622-13	4101-PW13I	Total/NA	Ground Water	8260D	
680-258622-15	4101-PW15D	Total/NA	Ground Water	8260D	
680-258622-17 - DL	4101-PWSF1	Total/NA	Ground Water	8260D	
MB 680-865342/8	Method Blank	Total/NA	Water	8260D	
LCS 680-865342/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-865342/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-MW6
Lab Sample ID: 680-258622-1
Date Collected: 11/13/24 09:15
Matrix: Ground Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865157	11/19/24 14:39	Y1S	EET SAV
	Instrument ID: CMSAJ									
Total/NA	Analysis	8260D SIM 14D		2	10 mL	10 mL	864707	11/15/24 19:23	MJY	EET SAV
	Instrument ID: CMSAK									

Client Sample ID: 4101-MW12B
Lab Sample ID: 680-258622-2
Date Collected: 11/11/24 10:55
Matrix: Ground Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865342	11/20/24 13:08	Y1S	EET SAV
	Instrument ID: CMSO2									
Total/NA	Analysis	8260D SIM 14D		10	10 mL	10 mL	864707	11/15/24 19:45	MJY	EET SAV
	Instrument ID: CMSAK									

Client Sample ID: 4101-MW12D
Lab Sample ID: 680-258622-3
Date Collected: 11/11/24 11:15
Matrix: Ground Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865157	11/19/24 15:22	Y1S	EET SAV
	Instrument ID: CMSAJ									
Total/NA	Analysis	8260D SIM 14D		1	10 mL	10 mL	864707	11/15/24 16:52	MJY	EET SAV
	Instrument ID: CMSAK									

Client Sample ID: 4101-MW15A
Lab Sample ID: 680-258622-4
Date Collected: 11/11/24 10:25
Matrix: Ground Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865157	11/19/24 15:43	Y1S	EET SAV
	Instrument ID: CMSAJ									
Total/NA	Analysis	8260D SIM 14D		100	10 mL	10 mL	864707	11/15/24 22:49	MJY	EET SAV
	Instrument ID: CMSAK									

Client Sample ID: 4101-OWDR2
Lab Sample ID: 680-258622-5
Date Collected: 11/11/24 11:40
Matrix: Ground Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865157	11/19/24 16:05	Y1S	EET SAV
	Instrument ID: CMSAJ									
Total/NA	Analysis	8260D	DL	5	5 mL	5 mL	865342	11/20/24 19:29	Y1S	EET SAV
	Instrument ID: CMSO2									
Total/NA	Analysis	8260D SIM 14D		20	10 mL	10 mL	864707	11/15/24 20:31	MJY	EET SAV
	Instrument ID: CMSAK									

Lab Chronicle

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-OWLFS2
Lab Sample ID: 680-258622-6
Date Collected: 11/13/24 07:40
Matrix: Ground Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865157	11/19/24 16:26	Y1S	EET SAV
	Instrument ID: CMSAJ									
Total/NA	Analysis	8260D SIM 14D		20	10 mL	10 mL	864707	11/15/24 20:53	MJY	EET SAV
	Instrument ID: CMSAK									

Client Sample ID: 4101-PW4I
Lab Sample ID: 680-258622-7
Date Collected: 11/12/24 12:30
Matrix: Ground Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865157	11/19/24 16:48	Y1S	EET SAV
	Instrument ID: CMSAJ									
Total/NA	Analysis	8260D SIM 14D		20	10 mL	10 mL	864707	11/15/24 21:15	MJY	EET SAV
	Instrument ID: CMSAK									

Client Sample ID: 4101-PW5D
Lab Sample ID: 680-258622-8
Date Collected: 11/11/24 12:05
Matrix: Ground Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865157	11/19/24 17:10	Y1S	EET SAV
	Instrument ID: CMSAJ									
Total/NA	Analysis	8260D SIM 14D		40	10 mL	10 mL	864707	11/15/24 22:26	MJY	EET SAV
	Instrument ID: CMSAK									

Client Sample ID: 4101-PW6D
Lab Sample ID: 680-258622-9
Date Collected: 11/12/24 13:25
Matrix: Ground Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865157	11/19/24 17:31	Y1S	EET SAV
	Instrument ID: CMSAJ									
Total/NA	Analysis	8260D SIM 14D		25	10 mL	10 mL	864707	11/15/24 22:02	MJY	EET SAV
	Instrument ID: CMSAK									

Client Sample ID: 4101-PW10I
Lab Sample ID: 680-258622-10
Date Collected: 11/13/24 08:10
Matrix: Ground Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865157	11/19/24 17:53	Y1S	EET SAV
	Instrument ID: CMSAJ									
Total/NA	Analysis	8260D SIM 14D		20	10 mL	10 mL	864707	11/15/24 21:38	MJY	EET SAV
	Instrument ID: CMSAK									

Client Sample ID: 4101-PW10D
Lab Sample ID: 680-258622-11
Date Collected: 11/13/24 08:30
Matrix: Ground Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865342	11/20/24 13:30	Y1S	EET SAV
	Instrument ID: CMSO2									
Total/NA	Analysis	8260D SIM 14D		1	10 mL	10 mL	864707	11/15/24 17:18	MJY	EET SAV
	Instrument ID: CMSAK									

Client Sample ID: 4101-PW12I
Lab Sample ID: 680-258622-12
Date Collected: 11/13/24 09:35
Matrix: Ground Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865157	11/19/24 18:36	Y1S	EET SAV
	Instrument ID: CMSAJ									
Total/NA	Analysis	8260D SIM 14D		1	10 mL	10 mL	864707	11/15/24 17:44	MJY	EET SAV
	Instrument ID: CMSAK									

Client Sample ID: 4101-PW13I
Lab Sample ID: 680-258622-13
Date Collected: 11/12/24 08:25
Matrix: Ground Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865342	11/20/24 13:52	Y1S	EET SAV
	Instrument ID: CMSO2									
Total/NA	Analysis	8260D SIM 14D		10	10 mL	10 mL	864707	11/15/24 20:09	MJY	EET SAV
	Instrument ID: CMSAK									

Client Sample ID: 4101-PW14D
Lab Sample ID: 680-258622-14
Date Collected: 11/12/24 10:35
Matrix: Ground Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865157	11/19/24 19:19	Y1S	EET SAV
	Instrument ID: CMSAJ									
Total/NA	Analysis	8260D SIM 14D		1	10 mL	10 mL	864707	11/15/24 18:09	MJY	EET SAV
	Instrument ID: CMSAK									

Client Sample ID: 4101-PW15D
Lab Sample ID: 680-258622-15
Date Collected: 11/12/24 09:45
Matrix: Ground Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865342	11/20/24 14:15	Y1S	EET SAV
	Instrument ID: CMSO2									
Total/NA	Analysis	8260D SIM 14D		1	10 mL	10 mL	864707	11/15/24 18:34	MJY	EET SAV
	Instrument ID: CMSAK									

Lab Chronicle

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-PW16D
Lab Sample ID: 680-258622-16
Date Collected: 11/12/24 09:35
Matrix: Ground Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865157	11/19/24 20:02	Y1S	EET SAV
	Instrument ID: CMSAJ									
Total/NA	Analysis	8260D SIM 14D		1	10 mL	10 mL	864707	11/15/24 18:58	MJY	EET SAV
	Instrument ID: CMSAK									

Client Sample ID: 4101-PWSF1
Lab Sample ID: 680-258622-17
Date Collected: 11/12/24 12:50
Matrix: Ground Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865157	11/19/24 20:24	Y1S	EET SAV
	Instrument ID: CMSAJ									
Total/NA	Analysis	8260D	DL	100	5 mL	5 mL	865342	11/20/24 19:52	Y1S	EET SAV
	Instrument ID: CMSO2									
Total/NA	Analysis	8260D SIM 14D		1000	10 mL	10 mL	864917	11/19/24 02:22	MJY	EET SAV
	Instrument ID: CMSAK									

Client Sample ID: 4101-Trip Blank2
Lab Sample ID: 680-258622-18
Date Collected: 11/11/24 00:00
Matrix: Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865157	11/19/24 14:17	Y1S	EET SAV
	Instrument ID: CMSAJ									

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

ATLANTA -244

eurofins | Environment Testing

Client Information	Sampler: Ronald Barton	Lab PM: Andros, John	Carrier Tracking No(s):	COC No: 680-161610-57878.1
Client Contact: Gary Babb	Phone: 336-306-0175	E-Mail: John.Andros@et.eurofinsus.com	State of Origin: NC	Page: Page 1 of 4
Company: Babb & Associates	PWSID:			Job #:
Address: 5506 Bradford Pear Court	Due Date Requested:			
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27606	Compliance Project: Δ Yes Δ No			
Phone: 919-605-4713(Tel)	PO #:			
Email: gdbabb@gmail.com	WO #:			
Project Name: Seaboard/Riverdale Drive MSWLF	Project #: 68024012			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
N - None
Other:

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)	8260D - Appendix 1 VOCs	8260D_SIM_14DX - 1,4-Dioxane	1633_Final - List of 40 based on EPA method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A	N		
4101-MW1			G	GW			X	X	X		
4101-MW3C			G	GW			X	X	X		
4101-MW6	11-13-24	0915	G	GW			X	X			
4101-MW10			G	GW			X	X	X		
4101-MW12A			G	GW			X	X	X		
4101-MW12B	11-11-24	1055	G	GW			X	X			
4101-MW12D	11-11-24	1115	G	GW			X	X			
4101-MW15A	11-11-24	1025	G	GW			X	X			
4101-OWDR2	11-11-24	1140	G	GW			X	X			
4101-OWLFS2	11-13-24	0740	G	GW			X	X			
4101-PW3D			G	GW			X	X	X		

680-258622 Chain of Custody

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:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ronald Barton	11-13-24 / 1130		PLS		
2						
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.7/3.7

11/14/24 0948 Eurofins

Ver: 05/06/2024

11/21/2024

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

ATLANTA 244 eurofins Environment Testing

Client Information	Sampler: Ronald Barton	Lab PM: Andros, John	Carrier Tracking No(s):	COC No: 680-161610-57878.2
Client Contact: Gary Babb	Phone: 336-306-0175	E-Mail: John.Andros@et.eurofinsus.com	State of Origin: NC	Page: Page 2 of 4
Company: Babb & Associates	PWSID:	Analysis Requested		Job #:
Address: 5506 Bradford Pear Court	Due Date Requested:			Preservation Codes: A - HCL, N - None
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27606	Compliance Project: Δ Yes Δ No			
Phone: 919-605-4713(Tel)	PO #:			
Email: gdbabb@gmail.com	WO #:			
Project Name: Seaboard/Riverdale Drive MSWLF	Project #: 68024012			
Site:	SSOW#:			Other:

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)	8260D - Appendix 1 VOCs	8260D_SIM_14DX - 1,4-Dioxane	1633_Final - List of 40 based on EPA method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A	N		
4101-PW4I	11-12-24	1230	G	GW			X	X			
4101-PW5D	11-11-24	1205	G	GW			X	X			
4101-PW6I			G	GW			X	X	X		
4101-PW6D	11-12-24	1325	G	GW			X	X			
4101-PW10I	11-13-24	0810	G	GW			X	X			
4101-PW10D	11-13-24	0830	G	GW			X	X			
4101-PW12I	11-13-24	0935	G	GW			X	X			
4101-PW13I	11-12-24	0825	G	GW			X	X			
4101-PW14D	11-12-24	1035	G	GW			X	X			
4101-PW15D	11-12-24	0945	G	GW			X	X			
4101-PW16D	11-12-24	0935	G	GW			X	X			

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:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Ronald Barton	11-13-24 / 1130	B&S			
			C Mann	11/14/24 0948	Eurofins

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.7/3.7

Ver: 05/06/2024

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

244- ATLANTA

eurofins | Environment Testing

Client Information	Sampler: Ronald Bavon	Lab PM: Andros, John	Carrier Tracking No(s):	COC No: 680-161610-57878.3
Client Contact: Gary Babb	Phone: 336-306-0175	E-Mail: John.Andros@et.eurofinsus.com	State of Origin: NC	Page: Page 3 of 4
Company: Babb & Associates	PWSID:			Job #:
Address: 5506 Bradford Pear Court	Due Date Requested:			
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27606	Compliance Project: Δ Yes Δ No			
Phone: 919-605-4713(Tel)	PO #:			
Email: gdbabb@gmail.com	WO #:			
Project Name: Seaboard/Riverdale Drive MSWLF	Project #: 68024012			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
N - None
Other:

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)	8260D - Appendix 1 VOCs	8260D_SIM_14DX - 1,4-Dioxane	1633_Final - List of 40 based on EPA method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A	N		
4101-PWSF1	11-12-24	1250	G	GW			X	X			
4101-W4A			G	GW			X	X	X		
4101-SW1			G	SW			X	X			
4101-SW2			G	SW			X	X	X		
4101-SW3			G	SW			X	X			
4101-SW4			G	SW			X	X	X		
4101-SW5			G	SW			X	X			
4101-SW6Surface			G	SW			X	X			
4101-SW6Bottom			G	SW			X	X			
4101-SW7Surface			G	SW			X	X			
4101-SW7Bottom			G	SW			X	X			

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:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Ronald Bavon	11-13-24/1130	TLS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
			C. Mann	11/14/24 0948	Eurofins

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.7/3.7

Ver: 05/06/2024

11/21/2024

Login Sample Receipt Checklist

Client: Babb & Associates

Job Number: 680-258622-1

Login Number: 258622

List Source: Eurofins Savannah

List Number: 1

Creator: Munro, Caroline

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

Accreditation/Certification Summary

Client: Babb & Associates
Job ID: 680-258622-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	269	12-31-24

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Gary Babb
Babb & Associates
2917 Beehnon Way
Raleigh, North Carolina 27603

Generated 11/19/2024 8:37:19 PM

JOB DESCRIPTION

Seaboard/Riverdale Drive MSWLF

JOB NUMBER

680-258381-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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 Environment Testing Southeast, LLC Project Manager.

Authorization

Generated
11/19/2024 8:37:19 PM

Authorized for release by
John Andros, Project Manager I
John.Andros@et.eurofinsus.com
(404)944-4744

Sample Summary

Client: Babb & Associates
Job ID: 680-258381-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-258381-1	4101-SW1	Surface Water	11/07/24 11:00	11/09/24 10:14
680-258381-2	4101-SW3	Surface Water	11/07/24 11:30	11/09/24 10:14
680-258381-3	4101-SW5	Surface Water	11/07/24 11:20	11/09/24 10:14
680-258381-4	4101-SW6Surface	Surface Water	11/07/24 12:35	11/09/24 10:14
680-258381-5	4101-SW6Bottom	Surface Water	11/07/24 12:40	11/09/24 10:14
680-258381-6	4101-SW7Surface	Surface Water	11/08/24 10:00	11/09/24 10:14
680-258381-7	4101-SW7Bottom	Surface Water	11/08/24 10:00	11/09/24 10:14
680-258381-8	4101-SWDRP2Surface	Surface Water	11/08/24 09:30	11/09/24 10:14
680-258381-9	4101-SWDRP2Bottom	Surface Water	11/08/24 09:30	11/09/24 10:14
680-258381-10	4101-Trip Blank 2	Water	11/07/24 00:00	11/09/24 10:14

Method Summary

Client: Babb & Associates
Job ID: 680-258381-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
8260D SIM 14D	Volatile Organic Compounds (GC/MS)	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV
5030C	Purge and Trap	SW846	EET SAV

Protocol References:

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

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Definitions/Glossary

Client: Babb & Associates
Job ID: 680-258381-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Indicates an estimated value.
J2	Estimated value; value may not be accurate.
U	Indicates that the compound was analyzed for but not detected.

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

Job Narrative
680-258381-1

Receipt
The samples were received on 11/9/2024 10:14 AM. 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 time was 4.4°C.

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

Detection Summary

Client: Babb & Associates
Job ID: 680-258381-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-SW1 — Lab Sample ID: 680-258381-1

No Detections.

Client Sample ID: 4101-SW3 — Lab Sample ID: 680-258381-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	3.7		1.0	0.64	ug/L	2		8260D SIM 14D	Total/NA

Client Sample ID: 4101-SW5 — Lab Sample ID: 680-258381-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	3.3		1.0	0.64	ug/L	2		8260D SIM 14D	Total/NA

Client Sample ID: 4101-SW6Surface — Lab Sample ID: 680-258381-4

No Detections.

Client Sample ID: 4101-SW6Bottom — Lab Sample ID: 680-258381-5

No Detections.

Client Sample ID: 4101-SW7Surface — Lab Sample ID: 680-258381-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.86		0.50	0.32	ug/L	1		8260D SIM 14D	Total/NA

Client Sample ID: 4101-SW7Bottom — Lab Sample ID: 680-258381-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.75		0.50	0.32	ug/L	1		8260D SIM 14D	Total/NA

Client Sample ID: 4101-SWDRP2Surface — Lab Sample ID: 680-258381-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.89		0.50	0.32	ug/L	1		8260D SIM 14D	Total/NA

Client Sample ID: 4101-SWDRP2Bottom — Lab Sample ID: 680-258381-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.49	J	0.50	0.32	ug/L	1		8260D SIM 14D	Total/NA

Client Sample ID: 4101-Trip Blank 2 — Lab Sample ID: 680-258381-10

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Client: Babb & Associates
Job ID: 680-258381-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-SW1
Lab Sample ID: 680-258381-1

Date Collected: 11/07/24 11:00
Matrix: Surface Water
Date Received: 11/09/24 10:14

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.50	U	0.50	0.32	ug/L			11/13/24 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*46 - 154*		*11/13/24 22:01*	*1*

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	1.0	U	1.0	0.36	ug/L			11/12/24 04:05	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/12/24 04:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/12/24 04:05	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/12/24 04:05	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/12/24 04:05	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/12/24 04:05	1
1,2,3-Trichloropropane	1.0	U	1.0	0.48	ug/L			11/12/24 04:05	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/12/24 04:05	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 04:05	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/18/24 15:08	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/12/24 04:05	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 04:05	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			11/12/24 04:05	1
2-Hexanone	10	U	10	3.2	ug/L			11/12/24 04:05	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			11/12/24 04:05	1
Acetone	10	U	10	3.7	ug/L			11/12/24 04:05	1
Acrylonitrile	20	U	20	5.5	ug/L			11/12/24 04:05	1
Benzene	1.0	U	1.0	0.27	ug/L			11/12/24 04:05	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/12/24 04:05	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/12/24 04:05	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			11/12/24 04:05	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/12/24 04:05	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/18/24 15:08	1
Chlorobromomethane	1.0	U	1.0	0.34	ug/L			11/12/24 04:05	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			11/12/24 04:05	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/12/24 04:05	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/12/24 04:05	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/12/24 04:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/12/24 04:05	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/12/24 04:05	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/12/24 04:05	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			11/12/24 04:05	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/12/24 04:05	1
Ethylene Dibromide	1.0	U	1.0	0.33	ug/L			11/12/24 04:05	1
Iodomethane	10	U	10	3.9	ug/L			11/12/24 04:05	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/12/24 04:05	1
Styrene	1.0	U	1.0	0.27	ug/L			11/12/24 04:05	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/12/24 04:05	1
Toluene	1.0	U	1.0	0.25	ug/L			11/12/24 04:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/12/24 04:05	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/12/24 04:05	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/12/24 04:05	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/18/24 15:08	1

Client: Babb & Associates
Job ID: 680-258381-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-SW1
Lab Sample ID: 680-258381-1
Date Collected: 11/07/24 11:00
Matrix: Surface Water
Date Received: 11/09/24 10:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/12/24 04:05	1
Vinyl acetate	2.0	U J2	2.0	0.69	ug/L			11/12/24 04:05	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/12/24 04:05	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			11/12/24 04:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*70 - 130*		*11/12/24 04:05*	*1*
Toluene-d8 (Surr)	*111*		*70 - 130*		*11/18/24 15:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*		*11/12/24 04:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*11/18/24 15:08*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*11/12/24 04:05*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*11/18/24 15:08*	*1*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*11/12/24 04:05*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*11/18/24 15:08*	*1*

Client Sample ID: 4101-SW3
Lab Sample ID: 680-258381-2
Date Collected: 11/07/24 11:30
Matrix: Surface Water
Date Received: 11/09/24 10:14

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.7		1.0	0.64	ug/L			11/14/24 01:27	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*46 - 154*		*11/14/24 01:27*	*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	1.0	U	1.0	0.36	ug/L			11/12/24 04:27	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/12/24 04:27	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/12/24 04:27	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/12/24 04:27	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/12/24 04:27	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/12/24 04:27	1
1,2,3-Trichloropropane	1.0	U	1.0	0.48	ug/L			11/12/24 04:27	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/12/24 04:27	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 04:27	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/18/24 15:30	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/12/24 04:27	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 04:27	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			11/12/24 04:27	1
2-Hexanone	10	U	10	3.2	ug/L			11/12/24 04:27	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			11/12/24 04:27	1
Acetone	10	U	10	3.7	ug/L			11/12/24 04:27	1
Acrylonitrile	20	U	20	5.5	ug/L			11/12/24 04:27	1
Benzene	1.0	U	1.0	0.27	ug/L			11/12/24 04:27	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/12/24 04:27	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/12/24 04:27	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			11/12/24 04:27	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/12/24 04:27	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/18/24 15:30	1
Chlorobromomethane	1.0	U	1.0	0.34	ug/L			11/12/24 04:27	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			11/12/24 04:27	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/12/24 04:27	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/12/24 04:27	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/12/24 04:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/12/24 04:27	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/12/24 04:27	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/12/24 04:27	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			11/12/24 04:27	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/12/24 04:27	1
Ethylene Dibromide	1.0	U	1.0	0.33	ug/L			11/12/24 04:27	1
Iodomethane	10	U	10	3.9	ug/L			11/12/24 04:27	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/12/24 04:27	1
Styrene	1.0	U	1.0	0.27	ug/L			11/12/24 04:27	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/12/24 04:27	1
Toluene	1.0	U	1.0	0.25	ug/L			11/12/24 04:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/12/24 04:27	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/12/24 04:27	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/12/24 04:27	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/18/24 15:30	1

Client: Babb & Associates
Job ID: 680-258381-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-SW3
Lab Sample ID: 680-258381-2
Date Collected: 11/07/24 11:30
Matrix: Surface Water
Date Received: 11/09/24 10:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/12/24 04:27	1
Vinyl acetate	2.0	U J2	2.0	0.69	ug/L			11/12/24 04:27	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/12/24 04:27	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			11/12/24 04:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*11/12/24 04:27*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*11/18/24 15:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*		*11/12/24 04:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*11/18/24 15:30*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*11/12/24 04:27*	*1*
Dibromofluoromethane (Surr)	*91*		*70 - 130*		*11/18/24 15:30*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*11/12/24 04:27*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*11/18/24 15:30*	*1*

Client: Babb & Associates
Job ID: 680-258381-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-SW5
Lab Sample ID: 680-258381-3

Date Collected: 11/07/24 11:20
Matrix: Surface Water
Date Received: 11/09/24 10:14

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.3		1.0	0.64	ug/L			11/14/24 01:53	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*46 - 154*		*11/14/24 01:53*	*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	1.0	U	1.0	0.36	ug/L			11/12/24 04:50	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/12/24 04:50	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/12/24 04:50	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/12/24 04:50	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/12/24 04:50	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/12/24 04:50	1
1,2,3-Trichloropropane	1.0	U	1.0	0.48	ug/L			11/12/24 04:50	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/12/24 04:50	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 04:50	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/18/24 15:51	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/12/24 04:50	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 04:50	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			11/12/24 04:50	1
2-Hexanone	10	U	10	3.2	ug/L			11/12/24 04:50	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			11/12/24 04:50	1
Acetone	10	U	10	3.7	ug/L			11/12/24 04:50	1
Acrylonitrile	20	U	20	5.5	ug/L			11/12/24 04:50	1
Benzene	1.0	U	1.0	0.27	ug/L			11/12/24 04:50	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/12/24 04:50	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/12/24 04:50	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			11/12/24 04:50	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/12/24 04:50	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/18/24 15:51	1
Chlorobromomethane	1.0	U	1.0	0.34	ug/L			11/12/24 04:50	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			11/12/24 04:50	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/12/24 04:50	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/12/24 04:50	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/12/24 04:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/12/24 04:50	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/12/24 04:50	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/12/24 04:50	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			11/12/24 04:50	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/12/24 04:50	1
Ethylene Dibromide	1.0	U	1.0	0.33	ug/L			11/12/24 04:50	1
Iodomethane	10	U	10	3.9	ug/L			11/12/24 04:50	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/12/24 04:50	1
Styrene	1.0	U	1.0	0.27	ug/L			11/12/24 04:50	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/12/24 04:50	1
Toluene	1.0	U	1.0	0.25	ug/L			11/12/24 04:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/12/24 04:50	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/12/24 04:50	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/12/24 04:50	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/18/24 15:51	1

Client: Babb & Associates
Job ID: 680-258381-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-SW5
Lab Sample ID: 680-258381-3
Date Collected: 11/07/24 11:20
Matrix: Surface Water
Date Received: 11/09/24 10:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/12/24 04:50	1
Vinyl acetate	2.0	U J2	2.0	0.69	ug/L			11/12/24 04:50	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/12/24 04:50	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			11/12/24 04:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*11/12/24 04:50*	*1*
Toluene-d8 (Surr)	*114*		*70 - 130*		*11/18/24 15:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 124*		*11/12/24 04:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*		*11/18/24 15:51*	*1*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*11/12/24 04:50*	*1*
Dibromofluoromethane (Surr)	*90*		*70 - 130*		*11/18/24 15:51*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*11/12/24 04:50*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*11/18/24 15:51*	*1*

Client: Babb & Associates
Job ID: 680-258381-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-SW6Surface
Lab Sample ID: 680-258381-4

Date Collected: 11/07/24 12:35
Matrix: Surface Water
Date Received: 11/09/24 10:14

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.50	U	0.50	0.32	ug/L			11/13/24 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*46 - 154*		*11/13/24 22:26*	*1*

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	1.0	U	1.0	0.36	ug/L			11/12/24 05:12	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/12/24 05:12	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/12/24 05:12	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/12/24 05:12	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/12/24 05:12	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/12/24 05:12	1
1,2,3-Trichloropropane	1.0	U	1.0	0.48	ug/L			11/12/24 05:12	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/12/24 05:12	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 05:12	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/12/24 05:12	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/12/24 05:12	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 05:12	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			11/12/24 05:12	1
2-Hexanone	10	U	10	3.2	ug/L			11/12/24 05:12	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			11/12/24 05:12	1
Acetone	10	U	10	3.7	ug/L			11/12/24 05:12	1
Acrylonitrile	20	U	20	5.5	ug/L			11/12/24 05:12	1
Benzene	1.0	U	1.0	0.27	ug/L			11/12/24 05:12	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/12/24 05:12	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/12/24 05:12	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			11/12/24 05:12	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/12/24 05:12	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/18/24 16:13	1
Chlorobromomethane	1.0	U	1.0	0.34	ug/L			11/12/24 05:12	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			11/12/24 05:12	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/12/24 05:12	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/12/24 05:12	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/12/24 05:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/12/24 05:12	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/12/24 05:12	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/12/24 05:12	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			11/12/24 05:12	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/12/24 05:12	1
Ethylene Dibromide	1.0	U	1.0	0.33	ug/L			11/12/24 05:12	1
Iodomethane	10	U	10	3.9	ug/L			11/12/24 05:12	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/12/24 05:12	1
Styrene	1.0	U	1.0	0.27	ug/L			11/12/24 05:12	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/12/24 05:12	1
Toluene	1.0	U	1.0	0.25	ug/L			11/12/24 05:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/12/24 05:12	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/12/24 05:12	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/12/24 05:12	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/18/24 16:13	1

Client: Babb & Associates
Job ID: 680-258381-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-SW6Surface
Lab Sample ID: 680-258381-4
Date Collected: 11/07/24 12:35
Matrix: Surface Water
Date Received: 11/09/24 10:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/12/24 05:12	1
Vinyl acetate	2.0	U J2	2.0	0.69	ug/L			11/12/24 05:12	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/12/24 05:12	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			11/12/24 05:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*70 - 130*		*11/12/24 05:12*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*11/18/24 16:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 124*		*11/12/24 05:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*11/18/24 16:13*	*1*
Dibromofluoromethane (Surr)	*115*		*70 - 130*		*11/12/24 05:12*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*11/18/24 16:13*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*11/12/24 05:12*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*11/18/24 16:13*	*1*

Client: Babb & Associates
Job ID: 680-258381-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-SW6Bottom
Lab Sample ID: 680-258381-5
Date Collected: 11/07/24 12:40
Matrix: Surface Water
Date Received: 11/09/24 10:14

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.50	U	0.50	0.32	ug/L			11/13/24 22:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*46 - 154*		*11/13/24 22:52*	*1*

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	1.0	U	1.0	0.36	ug/L			11/12/24 05:34	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/12/24 05:34	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/12/24 05:34	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/12/24 05:34	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/12/24 05:34	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/12/24 05:34	1
1,2,3-Trichloropropane	1.0	U	1.0	0.48	ug/L			11/12/24 05:34	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/12/24 05:34	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 05:34	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/12/24 05:34	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/12/24 05:34	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 05:34	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			11/12/24 05:34	1
2-Hexanone	10	U	10	3.2	ug/L			11/12/24 05:34	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			11/12/24 05:34	1
Acetone	10	U	10	3.7	ug/L			11/12/24 05:34	1
Acrylonitrile	20	U	20	5.5	ug/L			11/12/24 05:34	1
Benzene	1.0	U	1.0	0.27	ug/L			11/12/24 05:34	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/12/24 05:34	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/12/24 05:34	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			11/12/24 05:34	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/12/24 05:34	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/12/24 05:34	1
Chlorobromomethane	1.0	U	1.0	0.34	ug/L			11/12/24 05:34	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			11/12/24 05:34	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/12/24 05:34	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/12/24 05:34	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/12/24 05:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/12/24 05:34	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/12/24 05:34	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/12/24 05:34	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			11/12/24 05:34	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/12/24 05:34	1
Ethylene Dibromide	1.0	U	1.0	0.33	ug/L			11/12/24 05:34	1
Iodomethane	10	U	10	3.9	ug/L			11/12/24 05:34	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/12/24 05:34	1
Styrene	1.0	U	1.0	0.27	ug/L			11/12/24 05:34	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/12/24 05:34	1
Toluene	1.0	U	1.0	0.25	ug/L			11/12/24 05:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/12/24 05:34	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/12/24 05:34	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/12/24 05:34	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/12/24 05:34	1

Client: Babb & Associates
Job ID: 680-258381-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-SW6Bottom
Lab Sample ID: 680-258381-5
Date Collected: 11/07/24 12:40
Matrix: Surface Water
Date Received: 11/09/24 10:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/12/24 05:34	1
Vinyl acetate	2.0	U J2	2.0	0.69	ug/L			11/12/24 05:34	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/12/24 05:34	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			11/12/24 05:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*70 - 130*		*11/12/24 05:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*		*11/12/24 05:34*	*1*
Dibromofluoromethane (Surr)	*114*		*70 - 130*		*11/12/24 05:34*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*11/12/24 05:34*	*1*

Client: Babb & Associates
Job ID: 680-258381-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-SW7Surface
Lab Sample ID: 680-258381-6

Date Collected: 11/08/24 10:00
Matrix: Surface Water
Date Received: 11/09/24 10:14

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.86		0.50	0.32	ug/L			11/13/24 23:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*46 - 154*		*11/13/24 23:18*	*1*

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	1.0	U	1.0	0.36	ug/L			11/12/24 05:55	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/12/24 05:55	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/12/24 05:55	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/12/24 05:55	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/12/24 05:55	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/12/24 05:55	1
1,2,3-Trichloropropane	1.0	U	1.0	0.48	ug/L			11/12/24 05:55	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/12/24 05:55	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 05:55	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/12/24 05:55	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/12/24 05:55	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 05:55	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			11/12/24 05:55	1
2-Hexanone	10	U	10	3.2	ug/L			11/12/24 05:55	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			11/12/24 05:55	1
Acetone	10	U	10	3.7	ug/L			11/12/24 05:55	1
Acrylonitrile	20	U	20	5.5	ug/L			11/12/24 05:55	1
Benzene	1.0	U	1.0	0.27	ug/L			11/12/24 05:55	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/12/24 05:55	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/12/24 05:55	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			11/12/24 05:55	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/12/24 05:55	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/12/24 05:55	1
Chlorobromomethane	1.0	U	1.0	0.34	ug/L			11/12/24 05:55	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			11/12/24 05:55	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/12/24 05:55	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/12/24 05:55	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/12/24 05:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/12/24 05:55	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/12/24 05:55	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/12/24 05:55	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			11/12/24 05:55	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/12/24 05:55	1
Ethylene Dibromide	1.0	U	1.0	0.33	ug/L			11/12/24 05:55	1
Iodomethane	10	U	10	3.9	ug/L			11/12/24 05:55	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/12/24 05:55	1
Styrene	1.0	U	1.0	0.27	ug/L			11/12/24 05:55	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/12/24 05:55	1
Toluene	1.0	U	1.0	0.25	ug/L			11/12/24 05:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/12/24 05:55	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/12/24 05:55	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/12/24 05:55	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/12/24 05:55	1

Client: Babb & Associates
Job ID: 680-258381-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-SW7Surface
Lab Sample ID: 680-258381-6
Date Collected: 11/08/24 10:00
Matrix: Surface Water
Date Received: 11/09/24 10:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/12/24 05:55	1
Vinyl acetate	2.0	U J2	2.0	0.69	ug/L			11/12/24 05:55	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/12/24 05:55	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			11/12/24 05:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*70 - 130*		*11/12/24 05:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*		*11/12/24 05:55*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*11/12/24 05:55*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*11/12/24 05:55*	*1*

Client: Babb & Associates
Job ID: 680-258381-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-SW7Bottom
Lab Sample ID: 680-258381-7

Date Collected: 11/08/24 10:00
Matrix: Surface Water
Date Received: 11/09/24 10:14

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.75		0.50	0.32	ug/L			11/13/24 23:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*46 - 154*		*11/13/24 23:44*	*1*

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	1.0	U	1.0	0.36	ug/L			11/12/24 06:18	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/12/24 06:18	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/12/24 06:18	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/12/24 06:18	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/12/24 06:18	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/12/24 06:18	1
1,2,3-Trichloropropane	1.0	U	1.0	0.48	ug/L			11/12/24 06:18	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/12/24 06:18	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 06:18	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/12/24 06:18	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/12/24 06:18	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 06:18	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			11/12/24 06:18	1
2-Hexanone	10	U	10	3.2	ug/L			11/12/24 06:18	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			11/12/24 06:18	1
Acetone	10	U	10	3.7	ug/L			11/12/24 06:18	1
Acrylonitrile	20	U	20	5.5	ug/L			11/12/24 06:18	1
Benzene	1.0	U	1.0	0.27	ug/L			11/12/24 06:18	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/12/24 06:18	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/12/24 06:18	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			11/12/24 06:18	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/12/24 06:18	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/12/24 06:18	1
Chlorobromomethane	1.0	U	1.0	0.34	ug/L			11/12/24 06:18	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			11/12/24 06:18	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/12/24 06:18	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/12/24 06:18	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/12/24 06:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/12/24 06:18	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/12/24 06:18	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/12/24 06:18	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			11/12/24 06:18	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/12/24 06:18	1
Ethylene Dibromide	1.0	U	1.0	0.33	ug/L			11/12/24 06:18	1
Iodomethane	10	U	10	3.9	ug/L			11/12/24 06:18	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/12/24 06:18	1
Styrene	1.0	U	1.0	0.27	ug/L			11/12/24 06:18	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/12/24 06:18	1
Toluene	1.0	U	1.0	0.25	ug/L			11/12/24 06:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/12/24 06:18	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/12/24 06:18	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/12/24 06:18	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/12/24 06:18	1

Client: Babb & Associates
Job ID: 680-258381-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-SW7Bottom
Lab Sample ID: 680-258381-7
Date Collected: 11/08/24 10:00
Matrix: Surface Water
Date Received: 11/09/24 10:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/12/24 06:18	1
Vinyl acetate	2.0	U J2	2.0	0.69	ug/L			11/12/24 06:18	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/12/24 06:18	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			11/12/24 06:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*11/12/24 06:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*		*11/12/24 06:18*	*1*
Dibromofluoromethane (Surr)	*113*		*70 - 130*		*11/12/24 06:18*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*11/12/24 06:18*	*1*

Client: Babb & Associates
Job ID: 680-258381-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-SWDRP2Surface
Lab Sample ID: 680-258381-8

Date Collected: 11/08/24 09:30
Matrix: Surface Water
Date Received: 11/09/24 10:14

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.89		0.50	0.32	ug/L			11/14/24 00:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*46 - 154*		*11/14/24 00:09*	*1*

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	1.0	U	1.0	0.36	ug/L			11/12/24 06:40	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/12/24 06:40	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/12/24 06:40	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/12/24 06:40	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/12/24 06:40	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/12/24 06:40	1
1,2,3-Trichloropropane	1.0	U	1.0	0.48	ug/L			11/12/24 06:40	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/12/24 06:40	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 06:40	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/12/24 06:40	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/12/24 06:40	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 06:40	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			11/12/24 06:40	1
2-Hexanone	10	U	10	3.2	ug/L			11/12/24 06:40	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			11/12/24 06:40	1
Acetone	10	U	10	3.7	ug/L			11/12/24 06:40	1
Acrylonitrile	20	U	20	5.5	ug/L			11/12/24 06:40	1
Benzene	1.0	U	1.0	0.27	ug/L			11/12/24 06:40	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/12/24 06:40	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/12/24 06:40	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			11/12/24 06:40	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/12/24 06:40	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/12/24 06:40	1
Chlorobromomethane	1.0	U	1.0	0.34	ug/L			11/12/24 06:40	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			11/12/24 06:40	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/12/24 06:40	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/12/24 06:40	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/12/24 06:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/12/24 06:40	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/12/24 06:40	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/12/24 06:40	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			11/12/24 06:40	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/12/24 06:40	1
Ethylene Dibromide	1.0	U	1.0	0.33	ug/L			11/12/24 06:40	1
Iodomethane	10	U	10	3.9	ug/L			11/12/24 06:40	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/12/24 06:40	1
Styrene	1.0	U	1.0	0.27	ug/L			11/12/24 06:40	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/12/24 06:40	1
Toluene	1.0	U	1.0	0.25	ug/L			11/12/24 06:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/12/24 06:40	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/12/24 06:40	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/12/24 06:40	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/12/24 06:40	1

Client: Babb & Associates
Job ID: 680-258381-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-SWDRP2Surface
Lab Sample ID: 680-258381-8
Date Collected: 11/08/24 09:30
Matrix: Surface Water
Date Received: 11/09/24 10:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/12/24 06:40	1
Vinyl acetate	2.0	U J2	2.0	0.69	ug/L			11/12/24 06:40	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/12/24 06:40	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			11/12/24 06:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*11/12/24 06:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*		*11/12/24 06:40*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*11/12/24 06:40*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*11/12/24 06:40*	*1*

Client: Babb & Associates
Job ID: 680-258381-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-SWDRP2Bottom
Lab Sample ID: 680-258381-9
Date Collected: 11/08/24 09:30
Matrix: Surface Water
Date Received: 11/09/24 10:14

Method: SW846 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.49	J	0.50	0.32	ug/L			11/14/24 00:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*46 - 154*		*11/14/24 00:35*	*1*

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	1.0	U	1.0	0.36	ug/L			11/12/24 07:01	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/12/24 07:01	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/12/24 07:01	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/12/24 07:01	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/12/24 07:01	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/12/24 07:01	1
1,2,3-Trichloropropane	1.0	U	1.0	0.48	ug/L			11/12/24 07:01	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/12/24 07:01	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 07:01	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/12/24 07:01	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/12/24 07:01	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 07:01	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			11/12/24 07:01	1
2-Hexanone	10	U	10	3.2	ug/L			11/12/24 07:01	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			11/12/24 07:01	1
Acetone	10	U	10	3.7	ug/L			11/12/24 07:01	1
Acrylonitrile	20	U	20	5.5	ug/L			11/12/24 07:01	1
Benzene	1.0	U	1.0	0.27	ug/L			11/12/24 07:01	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/12/24 07:01	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/12/24 07:01	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			11/12/24 07:01	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/12/24 07:01	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/12/24 07:01	1
Chlorobromomethane	1.0	U	1.0	0.34	ug/L			11/12/24 07:01	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			11/12/24 07:01	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/12/24 07:01	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/12/24 07:01	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/12/24 07:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/12/24 07:01	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/12/24 07:01	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/12/24 07:01	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			11/12/24 07:01	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/12/24 07:01	1
Ethylene Dibromide	1.0	U	1.0	0.33	ug/L			11/12/24 07:01	1
Iodomethane	10	U	10	3.9	ug/L			11/12/24 07:01	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/12/24 07:01	1
Styrene	1.0	U	1.0	0.27	ug/L			11/12/24 07:01	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/12/24 07:01	1
Toluene	1.0	U	1.0	0.25	ug/L			11/12/24 07:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/12/24 07:01	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/12/24 07:01	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/12/24 07:01	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/12/24 07:01	1

Client: Babb & Associates
Job ID: 680-258381-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-SWDRP2Bottom
Lab Sample ID: 680-258381-9
Date Collected: 11/08/24 09:30
Matrix: Surface Water
Date Received: 11/09/24 10:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/12/24 07:01	1
Vinyl acetate	2.0	U J2	2.0	0.69	ug/L			11/12/24 07:01	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/12/24 07:01	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			11/12/24 07:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*11/12/24 07:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 124*		*11/12/24 07:01*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*11/12/24 07:01*	*1*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*11/12/24 07:01*	*1*

Client: Babb & Associates
Job ID: 680-258381-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-Trip Blank 2
Lab Sample ID: 680-258381-10
Date Collected: 11/07/24 00:00
Matrix: Water
Date Received: 11/09/24 10:14

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	1.0	U	1.0	0.36	ug/L			11/12/24 00:25	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/12/24 00:25	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/12/24 00:25	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/12/24 00:25	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/12/24 00:25	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/12/24 00:25	1
1,2,3-Trichloropropane	1.0	U	1.0	0.48	ug/L			11/12/24 00:25	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/12/24 00:25	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 00:25	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/12/24 00:25	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/12/24 00:25	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/12/24 00:25	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			11/12/24 00:25	1
2-Hexanone	10	U	10	3.2	ug/L			11/12/24 00:25	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			11/12/24 00:25	1
Acetone	10	U	10	3.7	ug/L			11/12/24 00:25	1
Acrylonitrile	20	U	20	5.5	ug/L			11/12/24 00:25	1
Benzene	1.0	U	1.0	0.27	ug/L			11/12/24 00:25	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/12/24 00:25	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/12/24 00:25	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			11/12/24 00:25	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/12/24 00:25	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/12/24 00:25	1
Chlorobromomethane	1.0	U	1.0	0.34	ug/L			11/12/24 00:25	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			11/12/24 00:25	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/12/24 00:25	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/12/24 00:25	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/12/24 00:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/12/24 00:25	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/12/24 00:25	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/12/24 00:25	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			11/12/24 00:25	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/12/24 00:25	1
Ethylene Dibromide	1.0	U	1.0	0.33	ug/L			11/12/24 00:25	1
Iodomethane	10	U	10	3.9	ug/L			11/12/24 00:25	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/12/24 00:25	1
Styrene	1.0	U	1.0	0.27	ug/L			11/12/24 00:25	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/12/24 00:25	1
Toluene	1.0	U	1.0	0.25	ug/L			11/12/24 00:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/12/24 00:25	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/12/24 00:25	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/12/24 00:25	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/12/24 00:25	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/12/24 00:25	1
Vinyl acetate	2.0	U J2	2.0	0.69	ug/L			11/12/24 00:25	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/12/24 00:25	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			11/12/24 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*11/12/24 00:25*	*1*

Client: Babb & Associates
Job ID: 680-258381-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-Trip Blank 2
Lab Sample ID: 680-258381-10
Date Collected: 11/07/24 00:00
Matrix: Water
Date Received: 11/09/24 10:14

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*		*11/12/24 00:25*	*1*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*11/12/24 00:25*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*11/12/24 00:25*	*1*

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

Lab Sample ID: MB 680-863966/9
Matrix: Water
Analysis Batch: 863966

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	1.0	U	1.0	0.36	ug/L			11/11/24 23:40	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/11/24 23:40	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/11/24 23:40	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/11/24 23:40	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/11/24 23:40	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/11/24 23:40	1
1,2,3-Trichloropropane	1.0	U	1.0	0.48	ug/L			11/11/24 23:40	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/11/24 23:40	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/11/24 23:40	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/11/24 23:40	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/11/24 23:40	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/11/24 23:40	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			11/11/24 23:40	1
2-Hexanone	10	U	10	3.2	ug/L			11/11/24 23:40	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			11/11/24 23:40	1
Acetone	10	U	10	3.7	ug/L			11/11/24 23:40	1
Acrylonitrile	20	U	20	5.5	ug/L			11/11/24 23:40	1
Benzene	1.0	U	1.0	0.27	ug/L			11/11/24 23:40	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/11/24 23:40	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/11/24 23:40	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			11/11/24 23:40	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/11/24 23:40	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/11/24 23:40	1
Chlorobromomethane	1.0	U	1.0	0.34	ug/L			11/11/24 23:40	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			11/11/24 23:40	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/11/24 23:40	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/11/24 23:40	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/11/24 23:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/11/24 23:40	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/11/24 23:40	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/11/24 23:40	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			11/11/24 23:40	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/11/24 23:40	1
Ethylene Dibromide	1.0	U	1.0	0.33	ug/L			11/11/24 23:40	1
Iodomethane	10	U	10	3.9	ug/L			11/11/24 23:40	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/11/24 23:40	1
Styrene	1.0	U	1.0	0.27	ug/L			11/11/24 23:40	1
Tetrachloroethene	1.0	U	1.0	0.35	ug/L			11/11/24 23:40	1
Toluene	1.0	U	1.0	0.25	ug/L			11/11/24 23:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/11/24 23:40	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/11/24 23:40	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/11/24 23:40	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/11/24 23:40	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/11/24 23:40	1
Vinyl acetate	2.0	U	2.0	0.69	ug/L			11/11/24 23:40	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/11/24 23:40	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			11/11/24 23:40	1

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

Lab Sample ID: MB 680-863966/9
Matrix: Water
Analysis Batch: 863966

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*102*		*70 - 130*		*11/11/24 23:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*		*11/11/24 23:40*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*11/11/24 23:40*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*11/11/24 23:40*	*1*

Lab Sample ID: LCS 680-863966/4
Matrix: Water
Analysis Batch: 863966

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	50.0	54.3		ug/L		109	70 - 130
1,1,1-Trichloroethane	50.0	59.4		ug/L		119	70 - 130
1,1,2,2-Tetrachloroethane	50.0	52.6		ug/L		105	70 - 130
1,1,2-Trichloroethane	50.0	48.0		ug/L		96	70 - 130
1,1-Dichloroethane	50.0	52.3		ug/L		105	70 - 130
1,1-Dichloroethene	50.0	50.6		ug/L		101	70 - 130
1,2,3-Trichloropropane	50.0	50.2		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	45.1		ug/L		90	70 - 130
1,2-Dichlorobenzene	50.0	55.1		ug/L		110	70 - 130
1,2-Dichloroethane	50.0	54.0		ug/L		108	70 - 130
1,2-Dichloropropane	50.0	51.2		ug/L		102	70 - 130
1,4-Dichlorobenzene	50.0	51.7		ug/L		103	70 - 130
2-Butanone (MEK)	250	231		ug/L		92	69 - 120
2-Hexanone	250	280		ug/L		112	70 - 130
4-Methyl-2-pentanone (MIBK)	250	288		ug/L		115	68 - 120
Acetone	250	251		ug/L		101	67 - 120
Acrylonitrile	500	539		ug/L		108	70 - 130
Benzene	50.0	51.0		ug/L		102	70 - 130
Bromoform	50.0	44.0		ug/L		88	69 - 129
Bromomethane	50.0	35.1		ug/L		70	28 - 192
Carbon disulfide	50.0	52.5		ug/L		105	70 - 130
Carbon tetrachloride	50.0	60.6		ug/L		121	70 - 130
Chlorobenzene	50.0	51.0		ug/L		102	70 - 130
Chlorobromomethane	50.0	50.4		ug/L		101	70 - 130
Chlorodibromomethane	50.0	50.3		ug/L		101	70 - 130
Chloroethane	50.0	45.7		ug/L		91	31 - 213
Chloroform	50.0	54.1		ug/L		108	70 - 130
Chloromethane	50.0	59.9		ug/L		120	59 - 127
cis-1,2-Dichloroethene	50.0	51.6		ug/L		103	70 - 130
cis-1,3-Dichloropropene	50.0	51.5		ug/L		103	70 - 130
Dibromomethane	50.0	51.3		ug/L		103	70 - 130
Dichlorobromomethane	50.0	53.6		ug/L		107	70 - 130
Ethylbenzene	50.0	53.6		ug/L		107	70 - 130
Ethylene Dibromide	50.0	51.7		ug/L		103	70 - 130
Iodomethane	50.0	28.5		ug/L		57	52 - 129
Methylene Chloride	50.0	46.6		ug/L		93	70 - 130
Styrene	50.0	50.9		ug/L		102	70 - 130
Tetrachloroethene	50.0	53.2		ug/L		106	70 - 130

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

Lab Sample ID: LCS 680-863966/4
Matrix: Water
Analysis Batch: 863966

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Toluene			50.0	51.2		ug/L		102	70 - 130		
trans-1,2-Dichloroethene			50.0	53.0		ug/L		106	70 - 130		
trans-1,3-Dichloropropene			50.0	52.5		ug/L		105	70 - 130		
trans-1,4-Dichloro-2-butene			50.0	56.1		ug/L		112	67 - 120		
Trichloroethene			50.0	53.5		ug/L		107	70 - 130		
Trichlorofluoromethane			50.0	57.0		ug/L		114	63 - 142		
Vinyl acetate			100	160	J2	ug/L		160	67 - 135		
Vinyl chloride			50.0	51.5		ug/L		103	66 - 129		
Xylenes, Total			100	107		ug/L		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*
Dibromofluoromethane (Surr)	*109*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 680-863966/5
Matrix: Water
Analysis Batch: 863966

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			50.0	54.7		ug/L		109	70 - 130	1	30
1,1,1-Trichloroethane			50.0	57.8		ug/L		116	70 - 130	3	30
1,1,2,2-Tetrachloroethane			50.0	54.0		ug/L		108	70 - 130	3	30
1,1,2-Trichloroethane			50.0	48.3		ug/L		97	70 - 130	1	30
1,1-Dichloroethane			50.0	52.6		ug/L		105	70 - 130	1	30
1,1-Dichloroethene			50.0	52.4		ug/L		105	70 - 130	4	20
1,2,3-Trichloropropane			50.0	51.6		ug/L		103	70 - 130	3	30
1,2-Dibromo-3-Chloropropane			50.0	47.9		ug/L		96	70 - 130	6	30
1,2-Dichlorobenzene			50.0	53.9		ug/L		108	70 - 130	2	30
1,2-Dichloroethane			50.0	55.6		ug/L		111	70 - 130	3	50
1,2-Dichloropropane			50.0	51.2		ug/L		102	70 - 130	0	20
1,4-Dichlorobenzene			50.0	50.4		ug/L		101	70 - 130	3	30
2-Butanone (MEK)			250	241		ug/L		97	69 - 120	4	30
2-Hexanone			250	287		ug/L		115	70 - 130	2	20
4-Methyl-2-pentanone (MIBK)			250	291		ug/L		116	68 - 120	1	30
Acetone			250	259		ug/L		103	67 - 120	3	30
Acrylonitrile			500	546		ug/L		109	70 - 130	1	30
Benzene			50.0	51.0		ug/L		102	70 - 130	0	30
Bromoform			50.0	46.2		ug/L		92	69 - 129	5	30
Bromomethane			50.0	38.2		ug/L		76	28 - 192	8	30
Carbon disulfide			50.0	53.2		ug/L		106	70 - 130	1	30
Carbon tetrachloride			50.0	59.1		ug/L		118	70 - 130	2	30
Chlorobenzene			50.0	51.5		ug/L		103	70 - 130	1	30
Chlorobromomethane			50.0	51.2		ug/L		102	70 - 130	2	30
Chlorodibromomethane			50.0	51.1		ug/L		102	70 - 130	2	30
Chloroethane			50.0	46.2		ug/L		92	31 - 213	1	30
Chloroform			50.0	53.2		ug/L		106	70 - 130	2	30

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

Lab Sample ID: LCSD 680-863966/5
Matrix: Water
Analysis Batch: 863966

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloromethane			50.0	59.4		ug/L		119	59 - 127	1	30
cis-1,2-Dichloroethene			50.0	49.9		ug/L		100	70 - 130	3	30
cis-1,3-Dichloropropene			50.0	51.8		ug/L		104	70 - 130	1	20
Dibromomethane			50.0	50.8		ug/L		102	70 - 130	1	30
Dichlorobromomethane			50.0	53.7		ug/L		107	70 - 130	0	30
Ethylbenzene			50.0	53.7		ug/L		107	70 - 130	0	20
Ethylene Dibromide			50.0	51.5		ug/L		103	70 - 130	1	30
Iodomethane			50.0	29.0		ug/L		58	52 - 129	2	30
Methylene Chloride			50.0	46.7		ug/L		93	70 - 130	0	30
Styrene			50.0	50.6		ug/L		101	70 - 130	1	30
Tetrachloroethene			50.0	54.4		ug/L		109	70 - 130	2	30
Toluene			50.0	51.2		ug/L		102	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	51.4		ug/L		103	70 - 130	3	30
trans-1,3-Dichloropropene			50.0	52.7		ug/L		105	70 - 130	0	30
trans-1,4-Dichloro-2-butene			50.0	57.7		ug/L		115	67 - 120	3	30
Trichloroethene			50.0	54.0		ug/L		108	70 - 130	1	30
Trichlorofluoromethane			50.0	55.6		ug/L		111	63 - 142	2	30
Vinyl acetate			100	147	J2	ug/L		147	67 - 135	8	30
Vinyl chloride			50.0	50.4		ug/L		101	66 - 129	2	30
Xylenes, Total			100	106		ug/L		106	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 680-864954/8
Matrix: Water
Analysis Batch: 864954

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	1.0	U	1.0	0.36	ug/L			11/18/24 12:44	1
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/18/24 12:44	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/18/24 12:44	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/18/24 12:44	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/18/24 12:44	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/18/24 12:44	1
1,2,3-Trichloropropane	1.0	U	1.0	0.48	ug/L			11/18/24 12:44	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/18/24 12:44	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/18/24 12:44	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/18/24 12:44	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/18/24 12:44	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/18/24 12:44	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			11/18/24 12:44	1
2-Hexanone	10	U	10	3.2	ug/L			11/18/24 12:44	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			11/18/24 12:44	1
Acetone	10	U	10	3.7	ug/L			11/18/24 12:44	1

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

Lab Sample ID: MB 680-864954/8
Matrix: Water
Analysis Batch: 864954

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrylonitrile	20	U	20	5.5	ug/L			11/18/24 12:44	1
Benzene	1.0	U	1.0	0.27	ug/L			11/18/24 12:44	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/18/24 12:44	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/18/24 12:44	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			11/18/24 12:44	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/18/24 12:44	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/18/24 12:44	1
Chlorobromomethane	1.0	U	1.0	0.34	ug/L			11/18/24 12:44	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			11/18/24 12:44	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/18/24 12:44	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/18/24 12:44	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/18/24 12:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/18/24 12:44	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/18/24 12:44	1
Dibromomethane	1.0	U	1.0	0.34	ug/L			11/18/24 12:44	1
Dichlorobromomethane	1.0	U	1.0	0.25	ug/L			11/18/24 12:44	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/18/24 12:44	1
Ethylene Dibromide	1.0	U	1.0	0.33	ug/L			11/18/24 12:44	1
Iodomethane	10	U	10	3.9	ug/L			11/18/24 12:44	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/18/24 12:44	1
Styrene	1.0	U	1.0	0.27	ug/L			11/18/24 12:44	1
Tetrachloroethene	1.55		1.0	0.35	ug/L			11/18/24 12:44	1
Toluene	1.0	U	1.0	0.25	ug/L			11/18/24 12:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/18/24 12:44	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/18/24 12:44	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	1.3	ug/L			11/18/24 12:44	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/18/24 12:44	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/18/24 12:44	1
Vinyl acetate	2.0	U	2.0	0.69	ug/L			11/18/24 12:44	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/18/24 12:44	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			11/18/24 12:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*11/18/24 12:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*60 - 124*		*11/18/24 12:44*	*1*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*11/18/24 12:44*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*11/18/24 12:44*	*1*

Lab Sample ID: LCS 680-864954/4
Matrix: Water
Analysis Batch: 864954

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	50.0	39.8		ug/L		80	70 - 130
1,1,1-Trichloroethane	50.0	40.0		ug/L		80	70 - 130
1,1,2,2-Tetrachloroethane	50.0	47.9		ug/L		96	70 - 130
1,1,2-Trichloroethane	50.0	40.8		ug/L		82	70 - 130
1,1-Dichloroethane	50.0	42.3		ug/L		85	70 - 130

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

Lab Sample ID: LCS 680-864954/4
Matrix: Water
Analysis Batch: 864954

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	50.0	44.2		ug/L		88	70 - 130
1,2,3-Trichloropropane	50.0	47.6		ug/L		95	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	40.0		ug/L		80	70 - 130
1,2-Dichlorobenzene	50.0	50.5		ug/L		101	70 - 130
1,2-Dichloroethane	50.0	44.1		ug/L		88	70 - 130
1,2-Dichloropropane	50.0	45.4		ug/L		91	70 - 130
1,4-Dichlorobenzene	50.0	50.3		ug/L		101	70 - 130
2-Butanone (MEK)	250	209		ug/L		83	69 - 120
2-Hexanone	250	253		ug/L		101	70 - 130
4-Methyl-2-pentanone (MIBK)	250	247		ug/L		99	68 - 120
Acetone	250	227		ug/L		91	67 - 120
Acrylonitrile	500	465		ug/L		93	70 - 130
Benzene	50.0	49.2		ug/L		98	70 - 130
Bromoform	50.0	38.7		ug/L		77	69 - 129
Bromomethane	50.0	91.0		ug/L		182	28 - 192
Carbon disulfide	50.0	46.5		ug/L		93	70 - 130
Carbon tetrachloride	50.0	45.1		ug/L		90	70 - 130
Chlorobenzene	50.0	48.3		ug/L		97	70 - 130
Chlorobromomethane	50.0	51.6		ug/L		103	70 - 130
Chlorodibromomethane	50.0	43.8		ug/L		88	70 - 130
Chloroethane	50.0	54.3		ug/L		109	31 - 213
Chloroform	50.0	42.0		ug/L		84	70 - 130
Chloromethane	50.0	54.7		ug/L		109	59 - 127
cis-1,2-Dichloroethene	50.0	41.3		ug/L		83	70 - 130
cis-1,3-Dichloropropene	50.0	43.2		ug/L		86	70 - 130
Dibromomethane	50.0	42.7		ug/L		85	70 - 130
Dichlorobromomethane	50.0	45.3		ug/L		91	70 - 130
Ethylbenzene	50.0	51.4		ug/L		103	70 - 130
Ethylene Dibromide	50.0	46.5		ug/L		93	70 - 130
Iodomethane	50.0	54.8		ug/L		110	52 - 129
Methylene Chloride	50.0	49.9		ug/L		100	70 - 130
Styrene	50.0	55.1		ug/L		110	70 - 130
Tetrachloroethene	50.0	45.0		ug/L		90	70 - 130
Toluene	50.0	50.7		ug/L		101	70 - 130
trans-1,2-Dichloroethene	50.0	37.8		ug/L		76	70 - 130
trans-1,3-Dichloropropene	50.0	40.6		ug/L		81	70 - 130
trans-1,4-Dichloro-2-butene	50.0	44.9		ug/L		90	67 - 120
Trichloroethene	50.0	45.7		ug/L		91	70 - 130
Trichlorofluoromethane	50.0	46.2		ug/L		92	63 - 142
Vinyl acetate	100	155	J2	ug/L		155	67 - 135
Vinyl chloride	50.0	50.0		ug/L		100	66 - 129
Xylenes, Total	100	104		ug/L		104	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*

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

Lab Sample ID: LCSD 680-864954/5
Matrix: Water
Analysis Batch: 864954

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	40.0		ug/L		80	70 - 130	1	30
1,1,1-Trichloroethane	50.0	36.1		ug/L		72	70 - 130	10	30
1,1,2,2-Tetrachloroethane	50.0	48.6		ug/L		97	70 - 130	1	30
1,1,2-Trichloroethane	50.0	41.7		ug/L		83	70 - 130	2	30
1,1-Dichloroethane	50.0	42.0		ug/L		84	70 - 130	1	30
1,1-Dichloroethene	50.0	43.7		ug/L		87	70 - 130	1	20
1,2,3-Trichloropropane	50.0	48.0		ug/L		96	70 - 130	1	30
1,2-Dibromo-3-Chloropropane	50.0	41.2		ug/L		82	70 - 130	3	30
1,2-Dichlorobenzene	50.0	50.5		ug/L		101	70 - 130	0	30
1,2-Dichloroethane	50.0	39.9		ug/L		80	70 - 130	10	50
1,2-Dichloropropane	50.0	46.4		ug/L		93	70 - 130	2	20
1,4-Dichlorobenzene	50.0	50.0		ug/L		100	70 - 130	1	30
2-Butanone (MEK)	250	209		ug/L		84	69 - 120	0	30
2-Hexanone	250	260		ug/L		104	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)	250	251		ug/L		100	68 - 120	2	30
Acetone	250	229		ug/L		92	67 - 120	1	30
Acrylonitrile	500	468		ug/L		94	70 - 130	1	30
Benzene	50.0	44.2		ug/L		88	70 - 130	11	30
Bromoform	50.0	39.0		ug/L		78	69 - 129	1	30
Bromomethane	50.0	86.9		ug/L		174	28 - 192	5	30
Carbon disulfide	50.0	45.8		ug/L		92	70 - 130	2	30
Carbon tetrachloride	50.0	41.0		ug/L		82	70 - 130	10	30
Chlorobenzene	50.0	48.4		ug/L		97	70 - 130	0	30
Chlorobromomethane	50.0	46.8		ug/L		94	70 - 130	10	30
Chlorodibromomethane	50.0	44.5		ug/L		89	70 - 130	2	30
Chloroethane	50.0	48.6		ug/L		97	31 - 213	11	30
Chloroform	50.0	38.0		ug/L		76	70 - 130	10	30
Chloromethane	50.0	53.9		ug/L		108	59 - 127	1	30
cis-1,2-Dichloroethene	50.0	40.1		ug/L		80	70 - 130	3	30
cis-1,3-Dichloropropene	50.0	43.8		ug/L		88	70 - 130	1	20
Dibromomethane	50.0	43.3		ug/L		87	70 - 130	1	30
Dichlorobromomethane	50.0	46.4		ug/L		93	70 - 130	3	30
Ethylbenzene	50.0	51.3		ug/L		103	70 - 130	0	20
Ethylene Dibromide	50.0	47.8		ug/L		96	70 - 130	3	30
Iodomethane	50.0	53.6		ug/L		107	52 - 129	2	30
Methylene Chloride	50.0	50.0		ug/L		100	70 - 130	0	30
Styrene	50.0	54.7		ug/L		109	70 - 130	1	30
Tetrachloroethene	50.0	45.0		ug/L		90	70 - 130	0	30
Toluene	50.0	50.9		ug/L		102	70 - 130	0	30
trans-1,2-Dichloroethene	50.0	37.9		ug/L		76	70 - 130	0	30
trans-1,3-Dichloropropene	50.0	41.7		ug/L		83	70 - 130	3	30
trans-1,4-Dichloro-2-butene	50.0	46.8		ug/L		94	67 - 120	4	30
Trichloroethene	50.0	46.3		ug/L		93	70 - 130	1	30
Trichlorofluoromethane	50.0	45.0		ug/L		90	63 - 142	3	30
Vinyl acetate	100	154	J2	ug/L		154	67 - 135	1	30
Vinyl chloride	50.0	49.2		ug/L		98	66 - 129	2	30
Xylenes, Total	100	104		ug/L		104	70 - 130	1	30

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

Lab Sample ID: LCSD 680-864954/5
Matrix: Water
Analysis Batch: 864954

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	79		60 - 124
Dibromofluoromethane (Surr)	85		70 - 130
4-Bromofluorobenzene (Surr)	95		70 - 130

Method: 8260D SIM 14D - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-864397/5
Matrix: Water
Analysis Batch: 864397

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.50	U	0.50	0.32	ug/L			11/13/24 21:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		46 - 154		11/13/24 21:09	1

Lab Sample ID: LCS 680-864397/3
Matrix: Water
Analysis Batch: 864397

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			5.00	5.10		ug/L		102	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		46 - 154

Lab Sample ID: LCSD 680-864397/4
Matrix: Water
Analysis Batch: 864397

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane			5.00	4.79		ug/L		96	70 - 130	6	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		46 - 154

GC/MS VOA

Analysis Batch: 863966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258381-1	4101-SW1	Total/NA	Surface Water	8260D	
680-258381-2	4101-SW3	Total/NA	Surface Water	8260D	
680-258381-3	4101-SW5	Total/NA	Surface Water	8260D	
680-258381-4	4101-SW6Surface	Total/NA	Surface Water	8260D	
680-258381-5	4101-SW6Bottom	Total/NA	Surface Water	8260D	
680-258381-6	4101-SW7Surface	Total/NA	Surface Water	8260D	
680-258381-7	4101-SW7Bottom	Total/NA	Surface Water	8260D	
680-258381-8	4101-SWDRP2Surface	Total/NA	Surface Water	8260D	
680-258381-9	4101-SWDRP2Bottom	Total/NA	Surface Water	8260D	
680-258381-10	4101-Trip Blank 2	Total/NA	Water	8260D	
MB 680-863966/9	Method Blank	Total/NA	Water	8260D	
LCS 680-863966/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-863966/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 864397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258381-1	4101-SW1	Total/NA	Surface Water	8260D SIM 14D	
680-258381-2	4101-SW3	Total/NA	Surface Water	8260D SIM 14D	
680-258381-3	4101-SW5	Total/NA	Surface Water	8260D SIM 14D	
680-258381-4	4101-SW6Surface	Total/NA	Surface Water	8260D SIM 14D	
680-258381-5	4101-SW6Bottom	Total/NA	Surface Water	8260D SIM 14D	
680-258381-6	4101-SW7Surface	Total/NA	Surface Water	8260D SIM 14D	
680-258381-7	4101-SW7Bottom	Total/NA	Surface Water	8260D SIM 14D	
680-258381-8	4101-SWDRP2Surface	Total/NA	Surface Water	8260D SIM 14D	
680-258381-9	4101-SWDRP2Bottom	Total/NA	Surface Water	8260D SIM 14D	
MB 680-864397/5	Method Blank	Total/NA	Water	8260D SIM 14D	
LCS 680-864397/3	Lab Control Sample	Total/NA	Water	8260D SIM 14D	
LCSD 680-864397/4	Lab Control Sample Dup	Total/NA	Water	8260D SIM 14D	

Analysis Batch: 864954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258381-1	4101-SW1	Total/NA	Surface Water	8260D	
680-258381-2	4101-SW3	Total/NA	Surface Water	8260D	
680-258381-3	4101-SW5	Total/NA	Surface Water	8260D	
680-258381-4	4101-SW6Surface	Total/NA	Surface Water	8260D	
MB 680-864954/8	Method Blank	Total/NA	Water	8260D	
LCS 680-864954/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-864954/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: Babb & Associates
Job ID: 680-258381-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-SW1
Lab Sample ID: 680-258381-1
Date Collected: 11/07/24 11:00
Matrix: Surface Water
Date Received: 11/09/24 10:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	863966	11/12/24 04:05	Y1S	EET SAV
	Instrument ID: CMSAH									
Total/NA	Analysis	8260D		1	5 mL	5 mL	864954	11/18/24 15:08	Y1S	EET SAV
	Instrument ID: CMSC									
Total/NA	Analysis	8260D SIM 14D		1	10 mL	10 mL	864397	11/13/24 22:01	MJY	EET SAV
	Instrument ID: CMSAK									

Client Sample ID: 4101-SW3
Lab Sample ID: 680-258381-2
Date Collected: 11/07/24 11:30
Matrix: Surface Water
Date Received: 11/09/24 10:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	863966	11/12/24 04:27	Y1S	EET SAV
	Instrument ID: CMSAH									
Total/NA	Analysis	8260D		1	5 mL	5 mL	864954	11/18/24 15:30	Y1S	EET SAV
	Instrument ID: CMSC									
Total/NA	Analysis	8260D SIM 14D		2	10 mL	10 mL	864397	11/14/24 01:27	MJY	EET SAV
	Instrument ID: CMSAK									

Client Sample ID: 4101-SW5
Lab Sample ID: 680-258381-3
Date Collected: 11/07/24 11:20
Matrix: Surface Water
Date Received: 11/09/24 10:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	863966	11/12/24 04:50	Y1S	EET SAV
	Instrument ID: CMSAH									
Total/NA	Analysis	8260D		1	5 mL	5 mL	864954	11/18/24 15:51	Y1S	EET SAV
	Instrument ID: CMSC									
Total/NA	Analysis	8260D SIM 14D		2	10 mL	10 mL	864397	11/14/24 01:53	MJY	EET SAV
	Instrument ID: CMSAK									

Client Sample ID: 4101-SW6Surface
Lab Sample ID: 680-258381-4
Date Collected: 11/07/24 12:35
Matrix: Surface Water
Date Received: 11/09/24 10:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	863966	11/12/24 05:12	Y1S	EET SAV
	Instrument ID: CMSAH									
Total/NA	Analysis	8260D		1	5 mL	5 mL	864954	11/18/24 16:13	Y1S	EET SAV
	Instrument ID: CMSC									
Total/NA	Analysis	8260D SIM 14D		1	10 mL	10 mL	864397	11/13/24 22:26	MJY	EET SAV
	Instrument ID: CMSAK									

Lab Chronicle

Client: Babb & Associates
Job ID: 680-258381-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-SW6Bottom
Lab Sample ID: 680-258381-5
Date Collected: 11/07/24 12:40
Matrix: Surface Water
Date Received: 11/09/24 10:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	863966	11/12/24 05:34	Y1S	EET SAV
	Instrument ID: CMSAH									
Total/NA	Analysis	8260D SIM 14D		1	10 mL	10 mL	864397	11/13/24 22:52	MJY	EET SAV
	Instrument ID: CMSAK									

Client Sample ID: 4101-SW7Surface
Lab Sample ID: 680-258381-6
Date Collected: 11/08/24 10:00
Matrix: Surface Water
Date Received: 11/09/24 10:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	863966	11/12/24 05:55	Y1S	EET SAV
	Instrument ID: CMSAH									
Total/NA	Analysis	8260D SIM 14D		1	10 mL	10 mL	864397	11/13/24 23:18	MJY	EET SAV
	Instrument ID: CMSAK									

Client Sample ID: 4101-SW7Bottom
Lab Sample ID: 680-258381-7
Date Collected: 11/08/24 10:00
Matrix: Surface Water
Date Received: 11/09/24 10:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	863966	11/12/24 06:18	Y1S	EET SAV
	Instrument ID: CMSAH									
Total/NA	Analysis	8260D SIM 14D		1	10 mL	10 mL	864397	11/13/24 23:44	MJY	EET SAV
	Instrument ID: CMSAK									

Client Sample ID: 4101-SWDRP2Surface
Lab Sample ID: 680-258381-8
Date Collected: 11/08/24 09:30
Matrix: Surface Water
Date Received: 11/09/24 10:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	863966	11/12/24 06:40	Y1S	EET SAV
	Instrument ID: CMSAH									
Total/NA	Analysis	8260D SIM 14D		1	10 mL	10 mL	864397	11/14/24 00:09	MJY	EET SAV
	Instrument ID: CMSAK									

Client Sample ID: 4101-SWDRP2Bottom
Lab Sample ID: 680-258381-9
Date Collected: 11/08/24 09:30
Matrix: Surface Water
Date Received: 11/09/24 10:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	863966	11/12/24 07:01	Y1S	EET SAV
	Instrument ID: CMSAH									
Total/NA	Analysis	8260D SIM 14D		1	10 mL	10 mL	864397	11/14/24 00:35	MJY	EET SAV
	Instrument ID: CMSAK									

Lab Chronicle

Client: Babb & Associates
Job ID: 680-258381-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Client Sample ID: 4101-Trip Blank 2
Lab Sample ID: 680-258381-10
Date Collected: 11/07/24 00:00
Matrix: Water
Date Received: 11/09/24 10:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	863966	11/12/24 00:25	Y1S	EET SAV
	Instrument ID: CMSAH									

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

244- ATLANTA

eurofins Environment Testing

Client Information	Sampler: Ronald Bawson	Lab PM: Andros, John	Carrier Tracking No(s):	COC No: 680-161610-57878.3
Client Contact: Gary Babb	Phone: 336-306-0175	E-Mail: John.Andros@et.eurofinsus.com	State of Origin: NC	Page: Page ~~2~~ 4 of 82
Company: Babb & Associates	PWSID:	Analysis Requested		Job #:
Address: 5506 Bradford Pear Court	Due Date Requested:			Preservation Codes: A - HCL N - None
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27606	Compliance Project: Δ Yes Δ No			
Phone: 919-605-4713(Tel)	PO #:			
Email: gdbabb@gmail.com	WO #:			
Project Name: Seaboard/Riverdale Drive MSWLF	Project #: 68024012			Other:
Site:	SSOW#:			

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)	8260D - Appendix 1 VOCs	8260D_SIM_14DX - 1,4-Dioxane	1633_Final - List of 40 based on EPA method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A	N		
4101-PWSF1			G	GW			X	X			
4101-W4A			G	GW			X	X	X		
4101-SW1	11-7-24	1100	G	SW			X	X			
4101-SW2			G	SW			X	X	X		
4101-SW3	11-7-24	1130	G	SW			X	X			
4101-SW4			G	SW			X	X	X		
4101-SW5	11-7-24	1120	G	SW			X	X			
4101-SW6Surface	11-7-24	1235	G	SW			X	X			
4101-SW6Bottom	11-7-24	1240	G	SW			X	X			
4101-SW7Surface	11-8-24	1000	G	SW			X	X			
4101-SW7Bottom	11-8-24	1000	G	SW			X	X			

680-258381 Chain of Custody

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:		
Relinquished by: Ronald Bawson	Date/Time: 11-8-24 1130	Company: PIS	Received by:	Date/Time: 11-9-24 1014	Company: M
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.4/4.4

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

244- ATLANTA

eurofins Environment Testing

Client Information	Sampler: Ronald Barrow	Lab PM: Andros, John	Carrier Tracking No(s):	COC No: 680-161610-57878.4
Client Contact: Gary Babb	Phone: 336-306-0175	E-Mail: John.Andros@et.eurofinsus.com	State of Origin: NC	Page: Page ~~1 of 1~~ 2 of 2
Company: Babb & Associates	PWSID:	Analysis Requested		Job #:
Address: 5506 Bradford Pear Court	Due Date Requested:			Preservation Codes: A - HCL N - None
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27606	Compliance Project: Δ Yes Δ No			
Phone: 919-605-4713(Tel)	PO #:			
Email: gdbabb@gmail.com	WO #:			
Project Name: Seaboard/Riverdale Drive MSWLF	Project #: 68024012			Other:
Site:	SSOW#:			

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)	8260D - Appendix 1 VOCs	8260D_SIM_14DX - 1,4-Dioxane	1633_Final - List of 40 based on EPA method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A	N		
4101-SWDRP2Surface	11-8-24	0930	G	SW			X	X			
4101-SWDRP2Bottom	11-8-24	0930	G	SW			X	X			
4101-Duplicate			G	GW					X		
4101-EB Hydrosleeve			G	W					X		
4101-EB Low Flow			G	W					X		
4101-Trip Blank 1			G	W			X				
4101-Trip Blank 2			G	W			X				

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:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Ronald Barrow	11-8-24 / 1130	PS		11-9-24 1014	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

11/19/2024

Login Sample Receipt Checklist

Client: Babb & Associates

Job Number: 680-258381-1

Login Number: 258381

List Source: Eurofins Savannah

List Number: 1

Creator: Sims, Robert D

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

Accreditation/Certification Summary

Client: Babb & Associates
Job ID: 680-258381-1
Project/Site: Seaboard/Riverdale Drive MSWLF

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	269	12-31-24