



VIA ELECTRONIC MAIL

August 21, 2024

Tate Stevens  
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**Subject: Quarterly Status Report No. 31 - Offsite Area  
Former Kop-Flex Facility Site, Hanover, Maryland**

Dear Tate:

On behalf of EMERSUB 16 LLC, a subsidiary of Emerson Electric Co. (Emerson), WSP USA Inc. (WSP) is submitting this quarterly status report describing the response action activities conducted in the Second Quarter of 2024 in the off-property portion of the Former Kop-Flex Inc. Site in Hanover, Maryland (Site). In addition to this electronic version, a hard copy of the status report is being submitted to the Maryland Department of Environment (MDE) under separate cover.

If you have any questions, please do not hesitate to contact me at 703-709-6500.

Kind regards,

Robert E. Johnson  
Vice President – Earth & Environment

Encl.

cc: Mr. Brian Deitz, Site Assessment and Remediation Division, MDE  
Mr. Moshood Oduwole, U.S. Environmental Protection Agency (EPA), Region III  
Mr. Stephen Clarke, Emerson Electric Co.  
Sheila Harvey, Esquire, Pillsbury Winthrop Shaw Pittman

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**QUARTERLY STATUS REPORT NO. 31 – OFFSITE AREA**  
**FORMER KOP-FLEX FACILITY SITE**  
**April 2024 Through June 2024**

**Site Name:** Former Kop-Flex Inc.  
**Site Address:** 7555 Harmans Road  
Hanover, Maryland 21076

**Consultant:** WSP USA Inc.  
**Address:** 13530 Dulles Technology Drive, Suite 300  
Herndon, Virginia 20171  
**Phone No.:** (703) 709-6500

**Project Coordinator:** Eric Johnson, WSP USA  
**Alternate:** Lisa Kelly, WSP USA

## 1.0 OFFSITE ACTIVITIES CONDUCTED DURING APRIL 2024 - JUNE 2024 REPORTING PERIOD

### SEMI-ANNUAL GROUNDWATER MONITORING ACTIVITIES

- The offsite monitoring wells screened in the Lower Patapsco aquifer and underlying Patuxent aquifer were sampled on May 20, 2024, with the exception of wells MW-31D in the residential area south of Reece Road and MW-46D on the Verizon property north of the former Kop-Flex Inc. facility. Well MW-31D could not be sampled due to a car being parked over the at-grade protective cover, and well MW-46D was inadvertently omitted while conducting the field sampling activities. Both of these wells were sampled at a later date - June 12, 2024 - when well MW-31D was accessible.
- All groundwater samples were collected using a disposable no-purge sampling device (HydraSleeve™) previously deployed in each well. For most of the wells, the top of the HydraSleeve™ samplers were suspended at the midpoint of the screen such that retrieval would collect water from the overlying interval equal to the sampler length, which was 3.2 feet (Table 1). Longer HydraSleeve™ samplers were set in the paired MW-25D wells to allow for the collection of field quality control (QC) samples. Given the greater length, the top of these samplers was placed at a depth slightly below the screen mid-point to ensure the collection of water from within the screened interval of each well.

Groundwater samples were obtained by carefully removing the HydraSleeve™ sampler from the well and decanting a representative portion of the collected water into the laboratory-supplied containers. A separate aliquot of sample was then poured into the sampling cup of a hand-held water quality meter to measure temperature, pH, specific conductance, and turbidity in the field. The results of the field parameter measurements for each sampling location are provided in Table 2. Hydrogeochemical parameters could not be measured for the samples from wells MW-25D-130 and MW-25D-190 because the volume necessary to collect the field QC samples at these two locations did not leave sufficient water for measurement of these field parameters. Additionally insufficient volume was retrieved in the HydraSleeve at MW-31D for the field parameter measurements.

### EVALUATION OF GROUNDWATER LEVEL DATA

- As part of the sampling activities, WSP measured the depth to water in all monitoring wells. Depth-to-water measurements obtained during the May and June 2024 field activities, along with previous monitoring events, are provided in Table 3. Wells where the water level was not measured in May were re-visited the following month to obtain



this information. The water level data provided in the table reflect the hydraulic heads under remedial pumping conditions at groundwater recovery well RW-1D only; recovery well RW-2D was off-line during the sampling event.

- A potentiometric surface contour map for the deep zone of the Lower Patapsco aquifer is shown in Figure 1 using the water level data obtained during the May 2024 sampling activities. The general direction of groundwater flow in this portion of the Lower Patapsco aquifer is to the south-southeast and southeast in the offsite area, which is consistent with determinations from contour maps previously generated from data collected under remedial pumping conditions. The contours show a slight lowering of the potentiometric surface along the southern boundary of the Former Kop-Flex Facility Site (Site) in response to groundwater pumping from well RW-1D. This decline, or drawdown, of the potentiometric surface results in the movement of groundwater toward this extraction well. Since well RW-2D was off-line, the area of pumping influence does not extend to the eastern Site boundary, which may allow for some localized movement of COC-affected groundwater off of the Site. As indicated by the gradient in the potentiometric surface, the groundwater flow direction in the deep zone of the Lower Patapsco aquifer differs from the direction of flow in the shallow zone of this aquifer, which is generally to the west-northwest across the site toward Stony Run. VOC-affected groundwater to the south of the Site is limited to the deep zone of the Lower Patapsco aquifer. Low permeability, clayey confining zones, or aquitards, together with local hydrologic conditions would prevent the migration of site-related contaminants from the deep zone of the Lower Patapsco aquifer to the shallow zone in the area. As discussed below, the Arundel Clay aquitard would prevent the migration of contaminants from the deep zone of the Lower Patapsco aquifer to the underlying Patuxent Aquifer.

## GROUNDWATER SAMPLING RESULTS

The analytical results for samples collected from the offsite monitoring wells in May and June 2024 are summarized in Table 4. Copies of the certified laboratory analytical reports for these samples are provided in Enclosures A (May 2024 samples) and B (June 2024 samples). Historical groundwater sampling data for the offsite monitoring wells can be found in Table 5. Concentrations of the primary site-related constituents of concern (COCs) in the May and June 2024 samples are shown on Figure 2.

### DEEP ZONE OF LOWER PATAPSCO AQUIFER NORTH OF FORMER KOP-FLEX FACILITY SITE

Site-related COCs were detected in the sample from well MW-46D, which is screened in the upper-most portion of the deep zone of the Lower Patapsco aquifer on the neighboring Verizon property to the north of the former Kop-Flex facility. While MW-46D is not located hydraulically downgradient of the Site, the presence of detectable COC levels is most likely related to past releases at the former Kop-Flex facility due to the well's proximity to the Site. The total COC concentration in the MW-46D sample (114.9 micrograms per liter [ $\mu\text{g/l}$ ]) is greater than the concentration observed in the December 2023 sample (Table 5). Concentrations of 1,1-DCA (16.4  $\mu\text{g/l}$ ), 1,1-DCE (65.9  $\mu\text{g/l}$ ), and 1,4-dioxane (30.2) increased in the May 2024 sample for this well and exceeded their respective groundwater quality criteria (Table 4).<sup>1</sup> Regardless of the increases, the latest concentrations of COCs detected – particularly 1,1-DCE and 1,4-dioxane – fall within a generally decreasing concentration trend at this well location (Table 5). The recent concentration declines since 2021-2022 are believed to reflect the long-term change in COC concentrations within the in-flow, or capture, area of the deep recovery wells for the hydraulic containment system.

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<sup>1</sup> All cleanup standards, except for 1,4-dioxane, are equal to the Maryland Generic Numeric Cleanup Standards for Groundwater, Type I and II Aquifers, from the State of Maryland Interim Final Guidance (October 2018). The comparative criterion for 1,4-dioxane is the Maryland Department of the Environment Risk-Based action level of 4.6  $\mu\text{g/l}$ .



## DEEP ZONE OF LOWER PATAPSCO AQUIFER SOUTH OF THE FORMER KOP-FLEX FACILITY SITE

- The analytical data indicate the detection of site-related COCs just over one mile hydraulically downgradient (south-southeast) of the Site, with the presence of these constituents limited to the deep zone of the Lower Patapsco aquifer. In the offsite area to the immediate south, the sample from monitoring well MW-24D on the adjoining Williams-Scotsman property had the highest concentration of site-related COCs (1,154 µg/l) in the deep zone of the Lower Patapsco aquifer. This total COC concentration is lower than the total detected in November 2023 (1,332 µg/l) and is mostly attributable to a decline in the concentration of 1,1-DCE. The change in total COCs does not appear to be indicative of a long-term trend and is similar to the fluctuations seen throughout the sampling history of the well.
- Further downgradient, a total concentration of site-related COCs of 153.4 µg/l was detected in the MW-25D-130 sample, which is essentially unchanged from the December 2023 event (152.6 µg/l). The concentration of 1,1-DCE (104 µg/l), the primary VOC detected at this well remained relatively unchanged while the concentration of 1,4-dioxane (16.4 µg/l) decreased by 42 percent between the two time periods. Overall, the historical trend for concentrations of these two compounds has either been slightly decreasing or asymptotic.

At the paired well MW-25D-190, the total site-related COC concentration of 33.4 µg/l was lower than that observed in the shallower well (MW-25D-130) and also decreased relative to the December 2023 sample (see Table 5). Overall, the VOC concentrations in this well have decreased throughout its sampling history, and the latest results represent the lowest concentrations observed at this location since sampling began. Even with the long-term decreasing trends, the concentrations of 1,1-DCE, 1,1-DCA, and 1,4-dioxane are still above their respective comparative groundwater quality criteria.

- The majority of the sampling data for the deep zone monitoring wells located further downgradient indicated non-detect to low concentrations of site related COCs (Figure 2 and Table 4). The highest concentrations were detected in the sample from the well screened from 263-273 ft BGS at the MW-30D location, which is located along the presumed centerline of the COC plume within the deep zone of the Lower Patapsco aquifer. The concentration of 1,1-DCE (30.6 µg/l) in the groundwater sample collected from this well decreased by 40 percent between December 2023 and May 2024 (Table 5). The concentration of 1,4-dioxane (7.1 µg/l) decreased slightly relative to the December 2023 sample. After the high concentration of 1,1-DCE detected in the December 2023 sample, the May 2024 results indicate a return to levels present in the 2022 and May 2023 sample from the well.

The most downgradient well with detectable concentrations of COCs (MW-33D-295) contained 1,1-DCE at 6.7 µg/l which was slightly below the comparative (Table 4). This sample also had a low detection (3.6 µg/l) of 1,4-dioxane, which was also below the evaluation criterion. Overall, concentrations of 1,1-DCE in this well have exhibited a small (2-3 µg/l) increase since 2021.

- Groundwater samples from the remaining wells screened in the deep zone of the Lower Patapsco aquifer are used to delineate the width and downgradient extent of the COC plume in the offsite area. For the western boundary of the plume, the concentration of 1,1-DCE (13.2 µg/l) exceeded the comparative criterion in the sample collected from MW-28D (Table 4). The sample from this well was non-detect for 1,4-dioxane. No site-related COCs were detected in the groundwater sample from well MW-32D further to the south (Figure 2). In the eastern plume boundary area, the sample from well MW-29D, which is located east of the MW-25D well pair, had non-detect COC levels. The samples from wells around the leading edge of the deep zone plume (MW-31D, MW-34D, and MW-35D) had non-detect results for all site-related COCs (Table 4, Figure 2).



## PATUXENT AQUIFER

Monitoring well MW-36D and the deeper well at the MW-30D location (MW-30D-413) are screened in the Patuxent aquifer, which underlies the Lower Patapsco aquifer. Site-related COCs are not anticipated to be in the Patuxent aquifer due to the presence of a thick, clayey unit (Arundel Clay) overlying this aquifer that serves as an aquitard or geologic unit comprised of low permeability materials that significantly restricts the flow of groundwater and associated dissolved solute transport. Consistent with previous monitoring events, no site-related COCs were detected in the samples from these wells, indicating constituents have not migrated downward through the Arundel Clay confining unit that separates the Lower Patapsco and Patuxent aquifers.

## 2.0 OFFSITE ACTIVITIES FOR THE NEXT REPORTING PERIOD (JULY 2024 THROUGH SEPTEMBER 2024)

- Update the informational content related to the offsite response action activities on the Former Kop-Flex Inc. website.
- Submit the 2023 Offsite Groundwater Monitoring Report to MDE and the U.S. Environmental Protection Agency (EPA), Region III. (Report was submitted on August 2, 2024)

## 3.0 KEY PERSONNEL/FACILITY CHANGES

There were no changes to either key project personnel or conditions relevant to the performance of the ongoing work in the offsite area.

## TABLES

Table 1

**Hydrasleeve Deployment Depths and Sample Intervals - Offsite Monitoring Wells  
Former Kop-Flex Facility Site  
Hanover, Maryland (a)**

Well ID	Well Depth (ft bgs)	Top of Screen (ft bgs)	Deployment Depth (ft bgs)	Sample Interval (ft bgs)
<b>Shallow LPA Zone</b>				
MW-45	38	28	33	29.8 - 33.0
<b>Deep LPA Zone</b>				
MW-24D	128.5	119	123.5	120.3 - 123.5
MW-25D-130	130	120	126.5	122.1-126.5
MW-25D-190	190	180	188.2	183.2 - 188.2
MW-28D	210	200	205	201.8 - 205.0
MW-29D	151	141	146	142.8 - 146.0
MW-30D-273	273	263	268	264.8 - 268.0
MW-31D	280	270	275	271.8 - 275.0
MW-32D	236	226	231	227.8 - 231.0
MW-33D-235	235	225	230	226.8 - 230.0
MW-33D-295	295	285	290	286.8 - 290.0
MW-34D	385	375	380	376.8 - 380.0
MW-35D	298	288	293	289.8 - 293.0
MW-46D	90	80	85	81.8 - 85.0
<b>Patuxent Aquifer</b>				
MW-30D-413	413	403	408	404.8 - 408
MW-36D	360	350	355	351.8 - 355.0

a/ ft bgs = feet below ground surface; LPA = Lower Patapsco Aquifer

**Table 2**

**Field Hydrogeochemical Measurements - May 2024  
Offsite Monitoring Well Locations  
Former Kop-Flex Facility Site  
Hanover, MD (a)**

<b>Well ID</b>	<b>Temperature (°C)</b>	<b>pH</b>	<b>Specific Conductivity (mS/cm)</b>	<b>ORP (mV)</b>	<b>Turbidity (NTU)</b>
<b>Shallow LPA Zone</b>					
MW-45	20.86	4.87	0.29	462	0
<b>Deep LPA Zone</b>					
MW-24D	20	5.62	0.104	423	330
MW-25-130	Not Measured (Sampled in May)				
MW-25-190	Not Measured (Sampled in May)				
MW-28D	19.99	5.94	0.063	355	990
MW-29D	17.3	6.66	0.161	379	0
MW-30D-273	15.21	4.95	0.02	470	16.4
MW-31D	Not Measured (Sampled in June)				
MW-32D	19.17	6.91	0.146	228	183
MW-33D-235	15.73	5.83	0.039	381	398
MW-33D-295	16.18	6.05	0.404	331	144
MW-34D	16.16	6.47	0.302	188	0
MW-35D	17.13	4.33	0.161	477	550
<b>Patuxent Aquifer</b>					
MW-30D-413	15.69	5.21	0.024	426	0
MW-36D	22.14	5.46	0.047	376	120

a/ °C = degrees Celsius; mS/cm = milliSiemens/centimeter; ORP = oxidation-reduction potential; mV = millivolts; NTU = nephelometric turbidity units; LPA = Lower Patapsco Aquifer.

Table 3

**Historical Groundwater Elevations (2015 through 2024)  
Offsite Monitoring Wells  
Former Kop-Flex Facility Site  
Hanover, Maryland**

Well ID	Aquifer/Zone	TOC Elevation	3/17/2015		6/15/2015		9/21/2015		1/4/2016		3/21/2016	
			Depth to Water	Groundwater Elevation								
MW-25S *	Shallow LPA	130.6	12.84	117.76	12.46	118.14	14.33	116.27	13.48	117.12	12.75	117.85
MW-28S *	Shallow LPA	150.5	25.56	124.94	25.24	125.26	25.88	124.62	25.35	125.15	25.34	125.16
MW-45	Shallow LPA	126.7	NM	-								
MW-24D	Deep LPA	129.1	50.9	78.20	49.29	79.81	NM	-	NM	-	44.38	84.72
MW-25D-130	Deep LPA	130.5	58.7	71.80	57.59	72.91	58.26	72.24	53.95	76.55	51.01	79.49
MW-25D-192	Deep LPA	130.5	59.99	70.51	56.4	74.10	57.23	73.27	53.05	77.45	50.27	80.23
MW-28D	Deep LPA	150.5	93.06	57.44	89.36	61.14	90.34	60.16	84.62	65.88	80.72	69.78
MW-29D	Deep LPA	131.9	NM	-								
MW-30D-273	Deep LPA	153.5	NM	-								
MW-31D	Deep LPA	162.5	114.02	48.48	108.58	53.92	109.51	52.99	102.44	60.06	98.41	64.09
MW-32D	Deep LPA	156.1	NM	-								
MW-33D-235	Deep LPA	178.6	131.83	46.77	125.66	52.94	127.11	51.49	119.14	59.46	115.25	63.35
MW-33D-295	Deep LPA	178.3	131.52	46.78	125.42	52.88	126.91	51.39	118.90	59.40	114.96	63.34
MW-34D	Deep LPA	183.9	NM	-								
MW-35D	Deep LPA	177.8	132.01	45.79	126.28	51.52	127.89	49.91	118.96	58.84	114.34	63.46
MW-46D	Deep LPA	124.8	NM	-								
MW-30D-413	Patuxent	153.1	NM	-								
MW-36D	Patuxent	158.7	NM	-								

Notes:

LPA = Lower Patapsco Aquifer

NM = Not Measured

TOC = Top of Casing

\* Well abandoned in August 2019

a/ The field measurement was deemed inaccurate due to an error with the water level indicatorrrrrrr

Table 3

**Historical Groundwater Elevations (2015 through 2024)  
Offsite Monitoring Wells  
Former Kop-Flex Facility Site  
Hanover, Maryland**

Well ID	Aquifer/Zone	TOC Elevation	12/7/2016		5/1/2017		8/31/2017		11/14/2017		2/13/2018		5/31/2018	
			Depth to Water	Groundwater Elevation										
MW-25S *	Shallow LPA	130.6	14.61	115.99	14.02	116.58	14.09	116.51	14.6	116.00	14.56	116.04	13.10	117.50
MW-28S *	Shallow LPA	150.5	26.8	123.70	27.4	123.10	27.2	123.30	27.22	123.28	27.48	123.02	27.42	123.08
MW-45	Shallow LPA	126.7	NM	-	13.67	113.05	NM	-	NM	-	NM	-	12.98	113.74
MW-24D	Deep LPA	129.1	46.3	82.80	48.35	80.75	48.35	80.75	51.99	77.11	NM	-	50.94	78.16
MW-25D-130	Deep LPA	130.5	50.27	80.23	53.80	76.70	61.38	69.12	58.46	72.04	58.31	72.19	58.23	72.27
MW-25D-192	Deep LPA	130.5	52.4	78.10	53.11	77.39	60.36	70.14	58.71	71.79	57.49	73.01	57.40	73.10
MW-28D	Deep LPA	150.5	83.35	67.15	82.72	67.78	94.55	55.95	89.03	61.47	67.37	83.13	88.75	61.75
MW-29D	Deep LPA	131.9	NM	-	64.94	66.98								
MW-30D-273	Deep LPA	153.5	NM	-	98.66	54.88								
MW-31D	Deep LPA	162.5	114.20	48.30	100.24	62.26	115.67	46.83	107.21	55.29	106.29	56.21	106.80	55.70
MW-32D	Deep LPA	156.1	NM	-	97.90	58.24								
MW-33D-235	Deep LPA	178.6	114.2	64.40	117.26	61.34	133.39	45.21	124.55	54.05	123.79	54.81	124.00	54.60
MW-33D-295	Deep LPA	178.3	131.50	46.80	117.03	61.27	133.14	45.16	124.36	53.94	123.60	54.70	123.83	54.47
MW-34D	Deep LPA	183.9	NM	-	132.70	51.21								
MW-35D	Deep LPA	177.8	131.91	45.89	117.28	60.52	133.55	44.25	125.59	52.21	124.02	53.78	124.27	53.53
MW-46D	Deep LPA	124.8	NM	-										
MW-30D-413	Patuxent	153.1	NM	-	138.10	15.03								
MW-36D	Patuxent	158.7	NM	-	141.75	16.96								

Notes:

LPA = Lower Patapsco Aquifer

NM = Not Measured

TOC = Top of Casing

\* Well abandoned in August 2019

a/ The field measurement was deemed inaccurate due to an error with the water level indicatorrrrrrr

Table 3

**Historical Groundwater Elevations (2015 through 2024)  
Offsite Monitoring Wells  
Former Kop-Flex Facility Site  
Hanover, Maryland**

Well ID	Aquifer/Zone	TOC Elevation	8/23/2018		11/8/2018		2/19/2019		5/22/2019		8/6/2019		11/20/2019	
			Depth to Water	Groundwater Elevation										
MW-25S *	Shallow LPA	130.6	NM	-	11.84	118.76	11.75	118.85	NM	-	NM	-	NM	-
MW-28S *	Shallow LPA	150.5	NM	-	24.33	126.17	23.30	127.20	NM	-	NM	-	NM	-
MW-45	Shallow LPA	126.7	NM	-	NM	-	11.98	114.74	11.75	114.97	NM	-	14.55	112.17
MW-24D	Deep LPA	129.1	NM	-	NM	-	48.92	80.18	49.67	79.43	52.37	76.73	51.12	77.98
MW-25D-130	Deep LPA	130.5	59.53	70.97	58.75	71.75	54.96	75.54	56.23	74.27	60.79	69.71	59.94	70.56
MW-25D-192	Deep LPA	130.5	58.69	71.81	57.63	72.87	54.20	76.30	55.45	75.05	60.37	70.13	59.02	71.48
MW-28D	Deep LPA	150.5	90.98	59.52	88.30	62.20	84.78	65.72	86.96	63.54	94.24	56.26	91.37	59.13
MW-29D	Deep LPA	131.9	66.56	65.36	65.03	66.89	60.64	71.28	62.36	69.56	67.20	64.72	67.10	64.82
MW-30D-273	Deep LPA	153.5	100.70	52.84	98.14	55.40	93.10	60.44	95.74	57.80	104.75	48.79	101.12	52.42
MW-31D	Deep LPA	162.5	109.95	52.55	106.27	56.23	102.47	60.03	104.91	57.59	113.35	49.15	110.14	52.36
MW-32D	Deep LPA	156.1	100.65	55.49	98.97	57.17	93.79	62.35	97.02	59.12	99.43	56.71	101.56	54.58
MW-33D-235	Deep LPA	178.6	127.52	51.08	125.14	53.46	119.35	59.25	121.72	56.88	132.76	45.84	127.87	50.73
MW-33D-295	Deep LPA	178.3	127.34	50.96	125.69	52.61	119.10	59.20	NM	NA	131.14	47.16	127.65	50.65
MW-34D	Deep LPA	183.9	136.42	47.49	131.76	52.15	127.40	56.51	129.93	53.98	141.48	42.43	136.62	47.29
MW-35D	Deep LPA	177.8	128.19	49.61	123.64	54.16	119.18	58.62	121.65	56.15	127.51	50.29	129.89	47.91
MW-46D	Deep LPA	124.8	NM	-	NM	-	NM	-	35.47	89.30	38.40	86.37	37.90	86.87
MW-30D-413	Patuxent	153.1	143.75	9.38	140.62	12.51	130.73	22.40	137.25	15.88	145.27	7.86	143.64	9.49
MW-36D	Patuxent	158.7	146.32	12.39	143.85	14.86	134.83	23.88	141.30	17.41	147.65	11.06	146.75	11.96

Notes:

LPA = Lower Patapsco Aquifer

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\* Well abandoned in August 2019

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Table 3

**Historical Groundwater Elevations (2015 through 2024)  
Offsite Monitoring Wells  
Former Kop-Flex Facility Site  
Hanover, Maryland**

Well ID	Aquifer/Zone	TOC Elevation	2/12/2020		5/14/2020		11/23/2020		5/10/2021		11/15/2021	
			Depth to Water	Groundwater Elevation								
MW-25S *	Shallow LPA	130.6	NM	-	NM	-	NM	-	NM	-	-	0.00
MW-28S *	Shallow LPA	150.5	NM	-	NM	-	NM	-	NM	-	-	0.00
MW-45	Shallow LPA	126.7	NM	-	NM	-	NM	-	12.69	114.03	12.69	114.03
MW-24D	Deep LPA	129.1	50.10	79.00	48.80	80.30	53.02	76.08	50.01	79.09	49.40	79.70
MW-25D-130	Deep LPA	130.5	55.55	74.95	54.95	75.55	60.50	70.00	56.11	74.39	NM	-
MW-25D-192	Deep LPA	130.5	54.70	75.80	54.23	76.27	59.50	71.00	55.32	75.18	NM	-
MW-28D	Deep LPA	150.5	85.00	65.50	84.36	66.14	92.87	57.63	86.34	64.16	89.34	61.16
MW-29D	Deep LPA	131.9	61.28	70.64	60.61	71.31	67.75	64.17	62.15	69.77	64.82	67.10
MW-30D-273	Deep LPA	153.5	93.29	60.25	92.60	60.94	103.09	50.45	94.95	58.59	99.70	53.84
MW-31D	Deep LPA	162.5	102.73	59.77	NM	-	113.30	49.20	104.32	58.18	108.09	54.41
MW-32D	Deep LPA	156.1	92.35	63.79	94.31	61.83	103.76	52.38	95.58	60.56	99.72	56.42
MW-33D-235	Deep LPA	178.6	119.72	58.88	119.10	59.50	NM	-	121.30	57.30	125.35	53.25
MW-33D-295	Deep LPA	178.3	119.54	58.76	118.84	59.46	130.21	48.09	121.08	57.22	125.15	53.15
MW-34D	Deep LPA	183.9	127.75	56.16	127.01	56.90	139.08	44.83	129.41	54.50	133.82	50.09
MW-35D	Deep LPA	177.8	119.68	58.12	119.06	58.74	129.67	48.13	121.20	56.60	126.19	51.61
MW-46D	Deep LPA	124.8	36.13	88.64	35.73	89.04	37.72	87.05	35.95	88.82	35.95	88.82
MW-30D-413	Patuxent	153.1	128.12	25.01	127.25	25.88	142.22	10.91	134.60	18.53	140.69	12.44
MW-36D	Patuxent	158.7	132.11	26.60	131.08	27.63	145.25	13.46	137.95	20.76	143.70	15.01

Notes:

LPA = Lower Patapsco Aquifer

NM = Not Measured

TOC = Top of Casing

\* Well abandoned in August 2019

a/ The field measurement was deemed inaccurate due to an error with the water level indicatorrrrrrr

Table 3

**Historical Groundwater Elevations (2015 through 2024)  
Offsite Monitoring Wells  
Former Kop-Flex Facility Site  
Hanover, Maryland**

Well ID	Aquifer/Zone	TOC Elevation	6/27/2022		11/20/2022		5/22/2023		12/4/2023		5/19/2024		6/12/2024	
			Depth to Water	Groundwater Elevation										
MW-25S *	Shallow LPA	130.6	-	-	-	-	NM	-	-	-	-	-	-	-
MW-28S *	Shallow LPA	150.5	-	-	-	-	NM	-	-	-	-	-	-	-
MW-45	Shallow LPA	126.7	12.91	113.81	13.54	113.18	NM	-	13.54	113.18	12.40	114.32	NM	-
MW-24D	Deep LPA	129.1	51.06	78.0	53.11	76.0	49.42	79.68	53.83	75.3	52.60	76.5	NM	-
MW-25D-130	Deep LPA	130.5	60.22	70.3	60.00	70.5	57.68	72.82	61.12	69.4	60.67	69.8	NM	-
MW-25D-192	Deep LPA	130.5	59.12	71.4	59.10	71.4	56.72	73.78	60.15	70.4	59.60	70.9	NM	-
MW-28D	Deep LPA	150.5	93.51	57.0	90.81	59.7	89.06	61.44	92.66	57.8	93.36	57.1	NM	-
MW-29D	Deep LPA	131.9	68.45	63.5	66.70	65.2	65.15	66.77	68.34	63.6	68.31	63.6	69.41	62.5
MW-30D-273	Deep LPA	153.5	104.25	49.3	100.23	53.3	98.76	54.78	102.50	51.0	NM	-	105.30	48.2
MW-31D	Deep LPA	162.5	114.2	48.3	109.24	53.3	107.82	54.68	111.54	51.0	NM	-	115.60	46.9
MW-32D	Deep LPA	156.1	104.98	51.2	100.23	55.9	98.47	57.67	102.17	54.0	103.71	52.4	NM	-
MW-33D-235	Deep LPA	178.6	132.13	46.5	126.56	52.0	125.61	52.99	129.16	49.4	(a)	-	133.30	45.3
MW-33D-295	Deep LPA	178.3	131.85	46.5	126.29	52.0	125.39	52.91	128.89	49.4	131.57	46.7	132.96	45.3
MW-34D	Deep LPA	183.9	141.12	42.8	134.82	49.1	134.32	49.59	137.72	46.2	140.72	43.2	NM	-
MW-35D	Deep LPA	177.8	132.35	45.5	126.60	51.2	126.53	51.27	129.71	48.1	131.83	46.0	NM	-
MW-46D	Deep LPA	124.8	37.13	87.64	38.38	86.4	36.26	88.51	38.88	85.9	37.66	87.1	38.32	86.5
MW-30D-413	Patuxent	153.1	145.4	7.7	141.52	11.6	137.89	15.2	141.29	11.8	139.79	13.3	143.58	9.5
MW-36D	Patuxent	158.7	148.06	10.7	145.05	13.7	141.29	17.4	144.57	14.1	NM	-	146.41	12.3

Notes:

LPA = Lower Patapsco Aquifer

NM = Not Measured

TOC = Top of Casing

\* Well abandoned in August 2019

a/ The field measurement was deemed inaccurate due to an error with the water level indicatorrrrrrr

Table 4

Offsite Monitoring Well Sample Results  
Former Kop-Flex Facility Site  
Hanover, Maryland  
Second Quarter 2024

Parameters (a)	Groundwater Quality Standards (µg/L) (b)	Well ID: Sampling Date:	SHALLOW ZONE LOWER PATAPSCO AQUIFER		DEEP (CONFINED) ZONE LOWER PATAPSCO AQUIFER							
			MW-45 5/20/24	MW-24D 5/20/24	MW-25D-130 5/20/24	MW-200 (d) 5/20/24	MW-25D-190 5/20/24	MW-28D 5/20/24	MW-29D 5/20/24	MW-30D-273 5/20/24	MW-31D 6/12/24	MW-32D 5/20/24
Methyl t-Butyl Ether	20		1.0 U	10.0 U	1.0 U	1.0 U	1.2	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,1-Dichloroethane	2.8		1.0 U	<b>76.8</b>	<b>8.7</b>	<b>7.2</b>	<b>5.0</b>	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,2-Dichloroethane	5		1.0 U	10.0 U	1.4	1.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,1-Dichloroethene	7		1.0 U	<b>999</b>	<b>123</b>	<b>104</b>	<b>19.5</b>	<b>13.2</b>	1.0 U	<b>30.6</b>	1.0 U	5.0 U
1,4-Dioxane	4.6 (c)		1.0 U	<b>78.2</b>	<b>16.4</b>	<b>14.7</b>	<b>6.4</b>	1.0 U	1.0 U	<b>7.1</b>	1.0 U	1.0 U
1,1,1-Trichloroethane	200		1.0 U	10.0 U	6.8	5.8	2.5	1.0 U	1.0 U	1.3	1.0 U	5.0 U
<b>Total CVOCs &amp; 1,4-Dioxane</b>			<i>ND</i>	<i>1,154</i>	<i>156.3</i>	<i>132.9</i>	<i>33.4</i>	<i>13.2</i>	<i>ND</i>	<i>39</i>	<i>ND</i>	<i>ND</i>

a/ U = not detected above the method detection limit; CVOC = chlorinated volatile organic compound.

**Bolded values indicate an exceedence of the Groundwater Quality Standards**

All sample concentrations in micrograms per liter (µg/l)

b/ All cleanup standards, except for 1,4-dioxane, are equal to the Maryland Generic Numeric Cleanup Standards for Groundwater, Type I and II Aquifers, from the State of Maryland Interim Final Guidance (October 2018). Accessed May 27, 2020:

<https://mde.maryland.gov/programs/LAND/MarylandBrownfieldVCP/Documents/www.mde.state.md.us/assets/docu>

c/ Value represents the MDE risk-based action level.

d/ Field duplicate of sample from well MW-25D-130.

Table 4

Offsite Monitoring Well Sample Results  
Former Kop-Flex Facility Site  
Hanover, Maryland  
Second Quarter 2024

Parameters (a)	Groundwater Quality Standards (µg/L) (b)	Well ID: Sampling Date:	DEEP (CONFINED) ZONE LOWER PATAPSCO AQUIFER					PATUXENT AQUIFER	
			MW-33D-235 5/20/24	MW-33D-295 5/20/24	MW-34D 5/20/24	MW-35D 5/20/24	MW-46D 6/12/24	MW-30D-413 5/20/24	MW-36D 5/20/24
Methyl t-Butyl Ether	20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	2.8		1.0 U	1.0 U	1.0 U	1.0 U	<b>16.4</b>	1.0 U	1.0 U
1,2-Dichloroethane	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	7		1.0 U	6.7	1.0 U	1.0 U	<b>65.9</b>	1.0 U	1.0 U
1,4-Dioxane	4.6 (c)		1.0 U	3.6	1.0 U	1.0 U	<b>30.2</b>	1.1 U	1.0 U
1,1,1-Trichloroethane	200		1.0 U	1.0 U	1.0 U	1.0 U	2.4	1.0 U	1.0 U
<b>Total CVOCs &amp; 1,4-Dioxane</b>			<i>ND</i>	<i>10.3</i>	<i>ND</i>	<i>ND</i>	<i>114.9</i>	<i>ND</i>	<i>ND</i>

a/ U = not detected above the method detection limit; CVOC = chlorinated volatile organic compound.

**Bolded values indicate an exceedence of the Groundwater Quality Standards**

All sample concentrations in micrograms per liter (µg/l)

b/ All cleanup standards, except for 1,4-dioxane, are equal to the Maryland Generic Numeric Cleanup Standards for Groundwater, Type I and II Aquifers, from the State of Maryland Interim Final Guidance (October 2018). Accessed May 27, 2020:

<https://mde.maryland.gov/programs/LAND/MarylandBrownfieldVCP/Documents/www.mde.state.md.us/assets/document/MD>

c/ Value represents the MDE risk-based action level.

d/ Field duplicate of sample from well MW-25D-130.

Table 6

Historical Offsite Groundwater Sampling Results (2015 to Present)  
Former Kop-Flex Facility Site  
Hanover, Maryland

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene
<b>Groundwater Quality Standard (µg/L)</b>		NE	2.8 (1)	5	7	70	4.6	5	200	5	5
<b>Shallow Zone Lower Patapsco Wells (b)</b>											
MW-25 (c)	3/19/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	6/24/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	9/23/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	1/6/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	3/23/2016	1.0 U	1.0 U	1.0 U	1.5	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	7/20/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	9/8/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	12/8/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	2/21/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0	2.0 U	1.0 U	1.0 U	1.0 U
	5/2/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	8/31/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	11/14/2017	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	<b>11.7</b>	1.0 U	1.0 U	1.0 U
	2/13/2018	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	5/30/2018	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
MW-28 (c)	3/17/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	6/23/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	9/22/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	1/5/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	3/22/2016	1.0 U	1.0 U	1.0 U	6.2	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	7/19/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	9/7/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	12/8/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	2/21/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	5/2/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	8/31/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	11/14/2017	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	2/14/2018	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/30/2018	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
MW-45	3/24/2017	1.0 U	1.0 U	1.9	1.0 U	2.3	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	6/28/2018	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/22/2019	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12/8/2020	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/15/2021	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	6/27/2022	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/21/2022	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	7/14/2023	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12/4/2023	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/20/2024	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Table 6

**Historical Offsite Groundwater Sampling Results (2015 to Present)**  
**Former Kop-Flex Facility Site**  
**Hanover, Maryland**

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene
<b>Groundwater Quality Standard (µg/L)</b>		NE	2.8 (1)	5	7	70	4.6	5	200	5	5
<b>Deep Zone Lower Patapsco Wells</b>											
<b>MW-24D</b>	3/22/2016	12.5 U	<b>88.0</b>	<b>15.7</b>	<b>1,780</b>	12.5 U	<b>561</b>	<b>39.4</b>	38.6	12.5 U	12.5 U
	12/8/2016	5.0 U	<b>36.1</b>	<b>5.2</b>	<b>701</b>	5.0 U	<b>192</b>	10.0 U	9.0	5.0 U	5.0 U
	5/2/2017	5.0 U	<b>40.4</b>	<b>5.6</b>	<b>830</b>	5.0 U	<b>216</b>	10.0 U	10.2	5.0 U	5.0 U
	11/14/2017	5.0 U	<b>28.1</b>	3.4	<b>803</b>	2.3 U	<b>212</b>	<b>11.7</b>	10.5	0.5 J	<b>5.9</b>
	5/30/2018	4.0 U	<b>26.6</b>	4.0 U	<b>529</b>	4.0 U	<b>187</b>	8.0 U	5.5	4.0 U	4.0 U
	11/7/2018	5.0 U	<b>29.8</b>	5.0 U	<b>560</b>	5.0 U	2.0 U	10.0 U	5.0 U	5.0 U	5.0 U
	5/22/2019	10.0 U	<b>66.2</b>	10.0 U	<b>1,190</b>	10.0 U	<b>359</b>	50.0 U	18.0	10.0 U	10.0 U
	11/19/2019	5.0 U	<b>54.5</b>	<b>6.6</b>	<b>868</b>	5.0 U	<b>155</b>	25.0 U	10.0	5.0 U	6.0 U
	5/12/2020	2.5 U	<b>25.0</b>	3.3	<b>402</b>	5.0 U	<b>139</b>	25.0 U	3.7	5.0 U	3.2
	11/23/2020	4.0 U	<b>73.5</b>	4.0 U	<b>505</b>	4.0 U	<b>208</b>	20.0 U	4.4	4.0 U	4.0 U
	5/10/2021	6.2	<b>151</b>	<b>6.3</b>	<b>788</b>	7.2	<b>299</b>	25.0 U	10.9	5.0 U	5.0 U
	11/15/2021	10.0 U	<b>142</b>	10.0 U	<b>1,300</b>	10.0 U	<b>475</b>	25.0 U	16.1	5.0 U	5.0 U
	6/27/2022	3.6	<b>142</b>	<b>7.4</b>	<b>1,490</b>	6.9	<b>165</b>	1.0 U	18.5	1.0	<b>8.6</b>
	11/21/2022	2.8	<b>114</b>	<b>7.5</b>	<b>1,020</b>	5.5	<b>148</b>	1.0 U	15.3	1.2	<b>7.7</b>
	7/14/2023	1.6	<b>110</b>	<b>7.1</b>	<b>954</b>	4.8	<b>90</b>	10.0 U	14.8	1.1	<b>7.3</b>
	12/4/2023	10.0 U	<b>88.1</b>	10.0 U	<b>1,130</b>	10.0 U	<b>102</b>	10.0 U	11.9	10.0 U	10.0 U
	5/20/2024	10.0 U	<b>76.8</b>	10.0 U	<b>999</b>	10.0 U	<b>78</b>	10.0 U	11.9	10.0 U	10.0 U
<b>MW-25D-130</b>	3/19/2015	10.0 U	<b>38.6</b>	<b>10.8</b>	<b>854</b>	10.0 U	<b>446</b>	200 U	<b>8,930</b>	100.0 U	100.0 U
	6/24/2015	1.0 U	<b>37.1</b>	<b>8.9</b>	<b>1,030</b>	4.6	<b>303</b>	2.0 U	46.3	1.2	<b>6.8</b>
	9/23/2015	10.0 U	<b>29.7</b>	10.0 U	<b>697</b>	10.0 U	<b>295</b>	20.0 U	32.3	10.0 U	<b>14.2</b>
	1/7/2016	5.0 U	<b>33.4</b>	<b>9.7</b>	<b>800</b>	5.0 U	<b>398</b>	10.0 U	5.0 U	5.0 U	<b>6.1</b>
	3/23/2016	5.0 U	<b>24.5</b>	<b>8.0</b>	<b>676</b>	5.0 U	<b>302</b>	10.0 U	26.2	5.0 U	<b>5.0</b>
	7/19/2016	10.0 U	<b>39.3</b>	<b>10.2</b>	<b>1,090</b>	4.9 J	<b>367</b>	14.3 J	37.0	10.0 U	<b>6.5 J</b>
	9/9/2016	5.0 U	<b>27.9</b>	<b>6.4</b>	<b>661</b>	5.0 U	<b>241</b>	<b>12.0</b>	25.0	5.0 U	5.0 U
	12/8/2016	1.0 U	<b>6.7</b>	1.5	<b>171</b>	1.0 U	<b>13.6</b>	2.0 U	6.9	1.0 U	1.0 U
	2/21/2017	1.0 U	<b>7.2</b>	1.7	<b>194</b>	1.0 U	<b>69.1</b>	2.0 U	7.0	1.0 U	1.2
	5/2/2017	2.0 U	<b>6.5</b>	2.0 U	<b>174</b>	2.0 U	<b>61.0</b>	4.0 U	5.0	2.0 U	2.0 U
	8/31/2017	2.0 U	<b>7.4</b>	1.7	<b>193</b>	2.0 U	<b>57.9</b>	4.0 U	6.9	2.0 U	2.0 U
	11/14/2017	2.0 U	<b>5.1</b>	1.3	<b>151</b>	0.6 J	<b>58.5</b>	5.0 U	6.4	1.0 U	1.1
	2/13/2018	2.0 U	<b>6.3</b>	2.0 U	<b>154</b>	2.0 U	<b>67.1</b>	5.0 U	6.4	1.0 U	1.0 U
	5/30/2018	2.0 U	<b>5.0</b>	1.4	<b>144</b>	2.0 U	<b>53.9</b>	5.0 U	5.3	1.0 U	1.0 U
	11/8/2018	2.0 U	<b>4.4</b>	1.1	<b>109</b>	2.0 U	<b>40.2</b>	5.0 U	1.0 U	1.0 U	1.0 U
	5/22/2019	1.0 U	<b>3.7</b>	1.0 U	<b>96.2</b>	1.0 U	<b>38.4</b>	5.0 U	4.2	1.0 U	1.0 U
	11/19/2019	1.0 U	2.7	1.0 U	<b>62.1</b>	1.0 U	<b>31.0</b>	5.0 U	1.0 U	1.0 U	1.0 U
	5/14/2020	1.0 U	<b>3.3</b>	1.0 U	<b>69.1</b>	1.0 U	<b>32.6</b>	5.0 U	1.0 U	1.0 U	1.0 U
	11/23/2020	1.0 U	<b>3.3</b>	1.0 U	<b>76.0</b>	1.0 U	<b>32.4</b>	5.0 U	4.9	1.0 U	1.0 U
	5/10/2021	1.0 U	<b>3.0</b>	1.0 U	<b>50.8</b>	1.0 U	<b>30.2</b>	5.0 U	3.1	1.0 U	1.0 U
	12/27/2021	1.0 U	<b>3.0</b>	1.0 U	<b>45.5</b>	1.0 U	<b>29.1</b>	5.0 U	3.3	1.0 U	1.0 U
	6/27/2022	1.0 U	<b>4.2</b>	1.0 U	<b>65.6</b>	1.0 U	<b>15.6</b>	1.0 U	5.0	1.0 U	1.0 U
	11/21/2022	1.0 U	<b>5.5</b>	1.0 U	<b>80.2</b>	1.0 U	<b>16.1</b>	1.0 U	5.6	1.0 U	1.0 U
	Duplicate 11/21/2022	1.0 U	<b>5.3</b>	1.0 U	<b>76.2</b>	1.0 U	<b>19.1</b>	1.0 U	5.6	1.0 U	1.0 U
	5/22/2023	1.0 U	<b>4.3</b>	1.0 U	<b>52.0</b>	1.0 U	<b>21.3</b>	1.0 U	4.5	1.0 U	1.0 U
	Duplicate 5/22/2023	1.0 U	<b>5.0</b>	1.0 U	<b>60.0</b>	1.0 U	<b>21.0</b>	1.0 U	5.2	1.0 U	1.0 U
	12/4/2023	10.0 U	<b>6.9</b>	1.1	<b>110</b>	1.0 U	<b>28.4</b>	1.0 U	6.2	1.0 U	1.0 U
Duplicate 12/4/2023	10.0 U	<b>5.9</b>	1.0 U	<b>100</b>	1.0 U	<b>23.7</b>	1.0 U	5.6	1.0 U	1.0 U	
5/20/2024	1.0 U	<b>7.2</b>	1.4	<b>123</b>	1.0 U	<b>16.4</b>	1.0 U	6.8	1.0 U	1.0 U	
Duplicate 5/20/2024	1.0 U	<b>5.0</b>	1.2	<b>104</b>	1.0 U	<b>14.7</b>	1.0 U	5.8	1.0 U	1.0 U	
						0.42					

Table 6

Historical Offsite Groundwater Sampling Results (2015 to Present)  
Former Kop-Flex Facility Site  
Hanover, Maryland

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene
Groundwater Quality Standard (µg/L)		NE	2.8 (1)	5	7	70	4.6	5	200	5	5
MW-25D-192	3/19/2015	1.0 U	11.7	1.0 U	53.0	1.0 U	49.4	2.0 U	13.7	1.0 U	1.0 U
	6/25/2015	1.0 U	11.9	1.0 U	59.4	1.0 U	39.8	2.0 U	14.2	1.0 U	1.0 U
	9/22/2015	1.0 U	13.9	1.0 U	51.4	1.0 U	45.0	2.0 U	12.9	1.0 U	1.3
	1/7/2016	1.0 U	11.7	1.0 U	47.2	1.0 U	41.7	2.0 U	12.5	1.0 U	1.0 U
	3/23/2016	1.0 U	10.3	1.0 U	43.3	1.0 U	42.2	2.0 U	11.3	1.0 U	1.0 U
	7/20/2016	1.0 U	11.7	0.73 J	54.9	1.0 U	54.4	2.0 U	11.1	1.0 U	1.0 U
	9/8/2016	1.0 U	12.9	1.0 U	56.8	1.0 U	39.3	2.0 U	12.6	1.0 U	1.0 U
	12/8/2016	1.0 U	16.1	1.0 U	64.6	1.0 U	51.3	2.0 U	13.3	1.0 U	1.0 U
	2/21/2017	1.0 U	14.0	1.0 U	63.3	1.0 U	52.1	2.0 U	11.6	1.0 U	1.0 U
	5/2/2017	1.0 U	16.9	1.0 U	81.0	1.0 U	53.1	2.0 U	13.5	1.0 U	1.0 U
	8/31/2017	1.0 U	15.7	1.0 U	62.5	1.0 U	44.3	2.0 U	13.1	1.0 U	1.0 U
	11/14/2017	5.0 U	13.6	0.67 J	67.2	1.0 U	56.7	5.0 U	13.6	1.0 U	1.0 U
	2/13/2018	5.0 U	13.7	1.0 U	69.2	1.0 U	42.7	5.0 U	11.0	1.0 U	1.0 U
	5/30/2018	5.0 U	10.8	1.0 U	58.3	1.0 U	50.8	5.0 U	7.2	1.0 U	1.0 U
	11/8/2018	5.0 U	13.7	1.0 U	61.0	1.0 U	49.3	5.0 U	9.8	1.0 U	1.0 U
	5/22/2019	1.0 U	11.8	1.0 U	51.7	1.0 U	36.7	5.0 U	8.5	1.0 U	1.0 U
	11/19/2019	1.0 U	12.6	1.0 U	53.2	1.0 U	41.1	5.0 U	1.0 U	1.0 U	1.0 U
	5/14/2020	1.0 U	12.8	1.0 U	58.0	1.0 U	41.1	5.0 U	1.0 U	1.0 U	1.0 U
	11/23/2020	1.0 U	11.3	1.0 U	46.9	1.0 U	41.5	5.0 U	5.8	1.0 U	1.0 U
	5/10/2021	1.0 U	6.5	1.0 U	28.3	1.0 U	22.6	5.0 U	3.2	1.0 U	1.0 U
	12/27/2021	1.0 U	6.2	1.0 U	26.0	1.0 U	21.6	5.0 U	3.4	1.0 U	1.0 U
	6/27/2022	1.0 U	8.8	1.0 U	37.3	1.0 U	11.6	1.0 U	4.7	1.0 U	1.0 U
	11/21/2022	1.0 U	7.3	1.0 U	29.1	1.0 U	10.2	1.0 U	3.7	1.0 U	1.0 U
	5/22/2023	1.0 U	7.1	1.0 U	30.1	1.0 U	9.0	1.0 U	3.6	1.0 U	1.0 U
12/4/2023	1.0 U	8.4	1.0 U	36.5	1.0 U	9.4	1.0 U	3.9	1.0 U	1.0 U	
5/20/2024	1.0 U	5.0	1.0 U	19.5	1.0 U	6.4	1.0 U	2.5	1.0 U	1.0 U	
MW-28D	3/17/2015	1.0 U	1.0 U	1.0 U	10.6	1.0 U	5.0	2.0 U	1.0 U	1.0 U	1.0 U
	6/23/2015	1.0 U	1.0 U	1.0 U	12.8	1.0 U	4.5	2.0 U	1.0 U	1.0 U	1.0 U
	9/22/2015	1.0 U	1.0 U	1.0 U	14.3	1.0 U	4.4	2.0 U	1.0 U	1.0 U	1.0 U
	1/5/2016	1.0 U	1.0 U	1.0 U	11.5	1.0 U	5.5	2.0 U	1.0 U	1.0 U	1.0 U
	3/23/2016	1.0 U	1.0 U	1.0 U	9.1	1.0 U	4.0	2.0 U	1.0 U	1.0 U	1.0 U
	7/19/2016	1.0 U	1.0 U	0.25 J	10.1	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	9/7/2016	1.0 U	1.0 U	1.0 U	12.0	1.0 U	5.0	2.0 U	1.0 U	1.0 U	1.0 U
	12/8/2016	1.0 U	1.0 U	1.0 U	6.3	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	2/21/2017	1.0 U	1.0 U	1.0 U	4.6	1.0 U	3.0	2.0 U	1.0 U	1.0 U	1.0 U
	5/2/2017	1.0 U	1.0 U	1.0 U	5.8	1.0 U	2.7	2.0 U	1.0 U	1.0 U	1.0 U
	8/31/2017	1.0 U	1.0 U	1.0 U	5.0	1.0 U	2.7	2.0 U	1.0 U	1.0 U	1.0 U
	11/14/2017	5.0 U	1.0 U	1.0 U	5.5	1.0 U	3.5	5.0 U	1.0 U	1.0 U	1.0 U
	2/14/2018	5.0 U	1.0 U	1.0 U	4.3	1.0 U	2.8	5.0 U	1.0 U	1.0 U	1.0 U
	5/30/2018	5.0 U	1.0 U	1.0 U	6.1	1.0 U	2.4	5.0 U	1.0 U	1.0 U	1.0 U
	11/8/2018	5.0 U	1.0 U	1.0 U	6.9	1.0 U	2.3	5.0 U	1.0 U	1.0 U	1.0 U
	5/22/2019	1.0 U	1.0 U	1.0 U	5.2	1.0 U	3.5	5.0 U	1.0 U	1.0 U	1.0 U
	11/20/2019	1.0 U	1.0 U	1.0 U	6.1	1.0 U	3.9	5.0 U	1.0 U	1.0 U	1.0 U
	5/14/2020	1.0 U	1.0 U	1.0 U	4.0	1.0 U	3.4	5.0 U	1.0 U	1.0 U	1.0 U
	11/23/2020	1.0 U	1.0 U	1.0 U	7.6	1.0 U	4.2	5.0 U	1.0 U	1.0 U	1.0 U
	5/10/2021	1.0 U	1.0 U	1.0 U	10.0	1.0 U	4.3	5.0 U	1.0 U	1.0 U	1.0 U
	11/15/2021	1.0 U	1.0 U	1.0 U	8.1	1.0 U	5.1	5.0 U	1.0 U	1.0 U	1.0 U
	6/27/2022	1.0 U	1.0 U	1.0 U	4.0	1.0 U	2.1	1.0 U	1.0 U	1.0 U	1.0 U
	11/21/2022	1.0 U	1.0 U	1.0 U	6.2	1.0 U	3.1	1.0 U	1.0 U	1.0 U	1.0 U
	5/22/2023	1.0 U	1.0 U	1.0 U	8.3	1.0 U	1.8	1.0 U	1.0 U	1.0 U	1.0 U
12/4/2023	1.0 U	1.0 U	1.0 U	13.3	1.0 U	3.8	1.0 U	1.0 U	1.0 U	1.0 U	
5/20/2024	1.0 U	1.0 U	1.0 U	13.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	

Table 6

Historical Offsite Groundwater Sampling Results (2015 to Present)  
Former Kop-Flex Facility Site  
Hanover, Maryland

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene
Groundwater Quality Standard (µg/L)		NE	2.8 (1)	5	7	70	4.6	5	200	5	5
MW-29D	5/21/2018	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	8/23/2018	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/8/2018	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	2/19/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/22/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/20/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/14/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/23/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/10/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/15/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	6/27/2022	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/21/2022	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/22/2023	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/22/2023	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/20/2024	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-30D-273	5/31/2018	5.0 U	1.0 U	1.0 U	27.4	1.0 U	16.4	5.0 U	1.0 U	1.0 U	1.0 U
	8/23/2018	5.0 U	1.0 U	1.0 U	40.7	1.0 U	24.5	5.0 U	1.7	1.0 U	1.0 U
	11/8/2018	5.0 U	1.2	1.0 U	44.0	1.0 U	22.2	5.0 U	2.1	1.0 U	1.0 U
	2/19/2019	1.0 U	1.1	1.0 U	47.2	1.0 U	23.1	5.0 U	1.0 U	1.0 U	1.0 U
	5/22/2019	1.0 U	1.1	1.0 U	44.2	1.0 U	22.7	5.0 U	2.0	1.0 U	1.0 U
	11/20/2019	1.0 U	1.1	1.0 U	43.3	1.0 U	22.8	5.0 U	1.0 U	1.0 U	1.0 U
	5/14/2020	1.0 U	1.0	1.0 U	42.7	1.0 U	20.9	5.0 U	1.0 U	1.0 U	1.0 U
	11/23/2020	1.0 U	1.0	1.0 U	39.5	1.0 U	19.5	5.0 U	1.0 U	1.0 U	1.0 U
	5/10/2021	1.0 U	1.0	1.0 U	36.9	1.0 U	18.2	5.0 U	1.0 U	1.0 U	1.0 U
	11/15/2021	1.0 U	1.0	1.0 U	34.1	1.0 U	16.6	5.0 U	1.4	1.0 U	1.0 U
	6/27/2022	1.0 U	1.0 U	1.0 U	34.5	1.0 U	7.5	1.0 U	1.3	1.0 U	1.0 U
	11/21/2022	1.0 U	1.0 U	1.0 U	31.3	1.0 U	7.0	1.0 U	1.2	1.0 U	1.0 U
	5/22/2023	1.0 U	1.0 U	1.0 U	35.1	1.0 U	8.0	1.0 U	1.4	1.0 U	1.0 U
	12/4/2023	1.0 U	1.3	1.0 U	51.0	1.0 U	9.6	1.0 U	1.7	1.0 U	1.0 U
	5/20/2024	1.0 U	1.0 U	1.0 U	30.6	1.0 U	7.1	1.0 U	1.3	1.0 U	1.0 U
MW-31D	3/17/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	6/24/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	9/22/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	1/6/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	3/21/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	7/19/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	9/6/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	12/8/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	2/21/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	5/2/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	8/31/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	11/14/2017	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	2/14/2018	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/31/2018	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/8/2018	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/22/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/20/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	6/2/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/23/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/10/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
11/15/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	
6/27/2022	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.1 U	1.0 U	1.0 U	1.0 U	1.0 U	

Table 6

Historical Offsite Groundwater Sampling Results (2015 to Present)  
Former Kop-Flex Facility Site  
Hanover, Maryland

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene
Groundwater Quality Standard (µg/L)		NE	2.8 (1)	5	7	70	4.6	5	200	5	5
MW-31D	11/21/2022	1.0 U	1.0 U	1.3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/22/2023	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.1 U	1.0 U	1.0 U	1.0 U	1.0 U
	12/4/2023	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.1 U	1.0 U	1.0 U	1.0 U	1.0 U
	6/12/2024	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.1 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-32D	5/31/2018	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	8/23/2018	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/8/2018	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	2/19/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/22/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/20/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/14/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/23/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/10/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/15/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	6/27/2022	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/21/2022	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/22/2023	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
	12/4/2023	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U
	5/20/2024	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U
	MW-33D-235	3/18/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U
6/23/2015		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
9/21/2015		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
1/4/2016		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
3/21/2016		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0	2.0 U	1.0 U	1.0 U	1.0 U
7/18/2016		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
9/7/2016		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
12/8/2016		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
2/21/2017		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
5/2/2017		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
8/31/2017		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
11/14/2017		5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.3	12.0	1.0 U	1.0 U	1.0 U
2/13/2018		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
5/31/2018		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
11/8/2018		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
5/22/2019		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
11/20/2019		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
5/14/2020		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
11/23/2020		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
5/10/2021		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
11/15/2021		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
6/27/2022		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.1 U	1.0 U	1.0 U	1.0 U	1.0 U
11/21/2022		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
5/22/2023	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.5 U	1.0 U	1.0 U	1.0 U	1.0 U	
12/4/2023	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
5/20/2024	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	

Table 6

Historical Offsite Groundwater Sampling Results (2015 to Present)  
Former Kop-Flex Facility Site  
Hanover, Maryland

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene
Groundwater Quality Standard (µg/L)		NE	2.8 (1)	5	7	70	4.6	5	200	5	5
MW-33D-295	3/18/2015	1.0 U	1.0 U	1.0 U	4.6	1.0 U	8.0	2.0 U	1.0 U	1.0 U	1.0 U
	6/23/2015	1.0 U	1.0 U	1.0 U	3.3	1.0 U	6.8	2.0 U	1.0 U	1.0 U	1.0 U
	9/21/2015	1.0 U	1.0 U	1.0 U	4.8	1.0 U	6.8	2.0 U	1.0 U	1.0 U	1.0 U
	1/4/2016	1.0 U	1.0 U	1.0 U	3.7	1.0 U	7.6	2.0 U	1.0 U	1.0 U	1.0 U
	3/21/2016	1.0 U	1.0 U	1.0 U	3.9	1.0 U	7.8	2.0 U	1.0 U	1.0 U	1.0 U
	7/18/2016	1.0 U	1.0 U	0.36 J	3.2	1.0 U	5.1	2.0 U	1.0 U	1.0 U	1.0 U
	9/7/2016	1.0 U	1.0 U	1.0 U	3.8	1.0 U	7.4	2.0 U	1.0 U	1.0 U	1.0 U
	12/8/2016	1.0 U	1.0 U	1.0 U	5.4	1.0 U	7.4	2.0 U	1.0 U	1.0 U	1.0 U
	2/21/2017	1.0 U	1.0 U	1.0 U	4.0	1.0 U	6.8	2.0 U	1.0 U	1.0 U	1.0 U
	5/2/2017	1.0 U	1.0 U	1.0 U	5.3	1.0 U	7.4	2.0 U	1.0 U	1.0 U	1.0 U
	8/31/2017	1.0 U	1.0 U	1.0 U	5.6	1.0 U	6.3	2.0 U	1.0 U	1.0 U	1.0 U
	11/14/2017	5.0 U	1.0 U	1.0 U	3.4	1.0 U	9.7	11.5	0.49 J	1.0 U	1.0 U
	2/13/2018	5.0 U	1.0 U	1.0 U	4.6	1.0 U	6.9	2.0 U	0.49 J	1.0 U	1.0 U
	5/31/2018	5.0 U	1.0 U	1.0 U	4.6	1.0 U	6.9	2.0 U	0.49 J	1.0 U	1.0 U
	11/8/2018	5.0 U	1.0 U	1.0 U	4.2	1.0 U	6.1	2.0 U	1.0 U	1.0 U	1.0 U
	5/22/2019	1.0 U	1.0 U	1.0 U	4.5	1.0 U	6.1	5.0 U	1.0 U	1.0 U	1.0 U
	11/20/2019	1.0 U	1.0 U	1.0 U	3.7	1.0 U	6.3	5.0 U	1.0 U	1.0 U	1.0 U
	5/14/2020	1.0 U	1.0 U	1.0 U	4.4	1.0 U	6.0	5.0 U	1.0 U	1.0 U	1.0 U
	11/23/2020	1.0 U	1.0 U	1.0 U	3.6	1.0 U	6.0	5.0 U	1.0 U	1.0 U	1.0 U
	5/10/2021	1.0 U	1.0 U	1.0 U	4.4	1.0 U	5.6	5.0 U	1.0 U	1.0 U	1.0 U
	11/15/2021	1.0 U	1.0 U	1.0 U	4.2	1.0 U	6.1	5.0 U	1.0 U	1.0 U	1.0 U
	6/27/2022	1.0 U	1.0 U	1.0 U	5.1	1.0 U	3.0	1.0 U	1.0 U	1.0 U	1.0 U
	11/21/2022	1.0 U	1.0 U	1.0 U	6.0	1.0 U	3.1	1.0 U	1.0 U	1.0 U	1.0 U
	5/22/2023	1.0 U	1.0 U	1.0 U	6.8	1.0 U	2.2	1.0 U	1.0 U	1.0 U	1.0 U
12/4/2023	1.0 U	1.0 U	1.0 U	8.9	1.0 U	3.3	1.0 U	1.0 U	1.0 U	1.0 U	
5/20/2024	1.0 U	1.0 U	1.0 U	6.7	1.0 U	3.6	1.0 U	1.0 U	1.0 U	1.0 U	
MW-34D	5/31/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	8/23/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	11/8/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	2/19/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/22/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/20/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/14/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/23/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/10/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/15/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	6/27/2022	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/21/2022	1.0 U	1.0 U	1.3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/22/2023	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.0 U	1.0 U	1.0 U	1.0 U
	12/4/2023	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U
5/20/2024	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	

Table 6

Historical Offsite Groundwater Sampling Results (2015 to Present)  
Former Kop-Flex Facility Site  
Hanover, Maryland

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene
Groundwater Quality Standard (µg/L)		NE	2.8 (1)	5	7	70	4.6	5	200	5	5
<b>MW-35D</b>	3/18/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	6/22/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	9/21/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	1/6/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	4/15/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	7/18/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	9/6/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	12/8/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	2/21/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	5/2/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	8/31/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	11/14/2017	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	2/14/2018	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	5/31/2018	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	11/8/2018	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	5/22/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/20/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/14/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/23/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/10/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/15/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	6/27/2022	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.16 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/21/2022	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/22/2023	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
12/4/2023	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
5/20/2024	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
<b>MW-46D</b>	5/30/2018	1.0 U	13.7	1.0 U	29.4	1.0 U	73.5	2.0 U	1.2	1.0 U	1.0 U
	11/7/2018	1.0 U	22.1	1.2	99.6	1.0 U	96.7	2.0 U	7.7	1.0 U	1.0 U
	5/21/2019	1.0 U	26.1	1.0	125	1.0 U	88.0	5.0 U	10.2	1.0 U	1.0 U
	11/19/2019	1.0 U	23.4	1.4	114	1.0	96.3	5.0 U	1.0 U	1.0 U	1.0 U
	5/12/2020	1.0 U	20.7	1.4	98	1.0	63.0	5.0 U	1.0 U	1.0 U	1.0 U
	11/23/2020	1.0 U	18.4	1.0 U	124	1.0 U	29.8	5.0 U	6.4	1.0 U	1.0 U
	5/9/2021	1.0 U	25.7	1.5	116	1.0 U	99.3	5.0 U	7.8	1.0 U	1.0 U
	11/15/2021	1.0 U	19.9	1.0 U	87	1.0 U	79.9	5.0 U	4.8	1.0 U	1.0 U
	6/27/2022	1.0 U	20.7	1.0 U	92	1.0 U	23.4	5.0 U	5.7	1.0 U	1.0 U
	11/21/2022	1.0 U	15.7	1.0 U	74.9	1.0 U	40.1	1.0 U	3.6	1.0 U	1.0 U
	5/21/2023	1.0 U	1.2	1.0 U	19.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12/4/2023	1.0 U	8.7	1.0 U	51.5	1.0 U	27.3	1.0 U	1.6	1.0 U	1.0 U
	6/12/2024	1.0 U	16.4	1.0 U	65.9	1.0 U	30.2	1.0 U	2.4	1.0 U	1.0 U
	<b>Confined Patuxent Wells MW-30D-413</b>	5/31/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U
8/23/2018		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
11/8/2018		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
2/19/2019		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
5/22/2019		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
11/20/2019		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
5/14/2020		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
11/23/2020		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
5/10/2021		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
11/15/2021		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
6/27/2022		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U

Table 6

**Historical Offsite Groundwater Sampling Results (2015 to Present)  
Former Kop-Flex Facility Site  
Hanover, Maryland**

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene
<b>Groundwater Quality Standard (µg/L)</b>		NE	2.8 (1)	5	7	70	4.6	5	200	5	5
<b>MW-30D-413 (continued)</b>	11/21/2022	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/22/2023	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.0 U	1.0 U	1.0 U	1.0 U
	12/4/2023	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/20/2024	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U
<b>MW-36D</b>	5/30/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	8/23/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	11/8/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	2/19/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	5/22/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/20/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/14/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/23/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/10/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/15/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	6/27/2022	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.17 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/21/2022	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/22/2023	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12/4/2023	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.5 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/20/2024	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

(1) MDE GW Quality Standard changed from 90 µg/L to 2.8 µg/L in October 2018

a/ U = not detected above the method detection limit; J = estimated concentration between the reporting limit and method detection limit.

**Bolded values indicate an exceedence of the Groundwater Quality Standards**

Dashed line marks change from quarterly to semi-annual sampling frequency at the well.

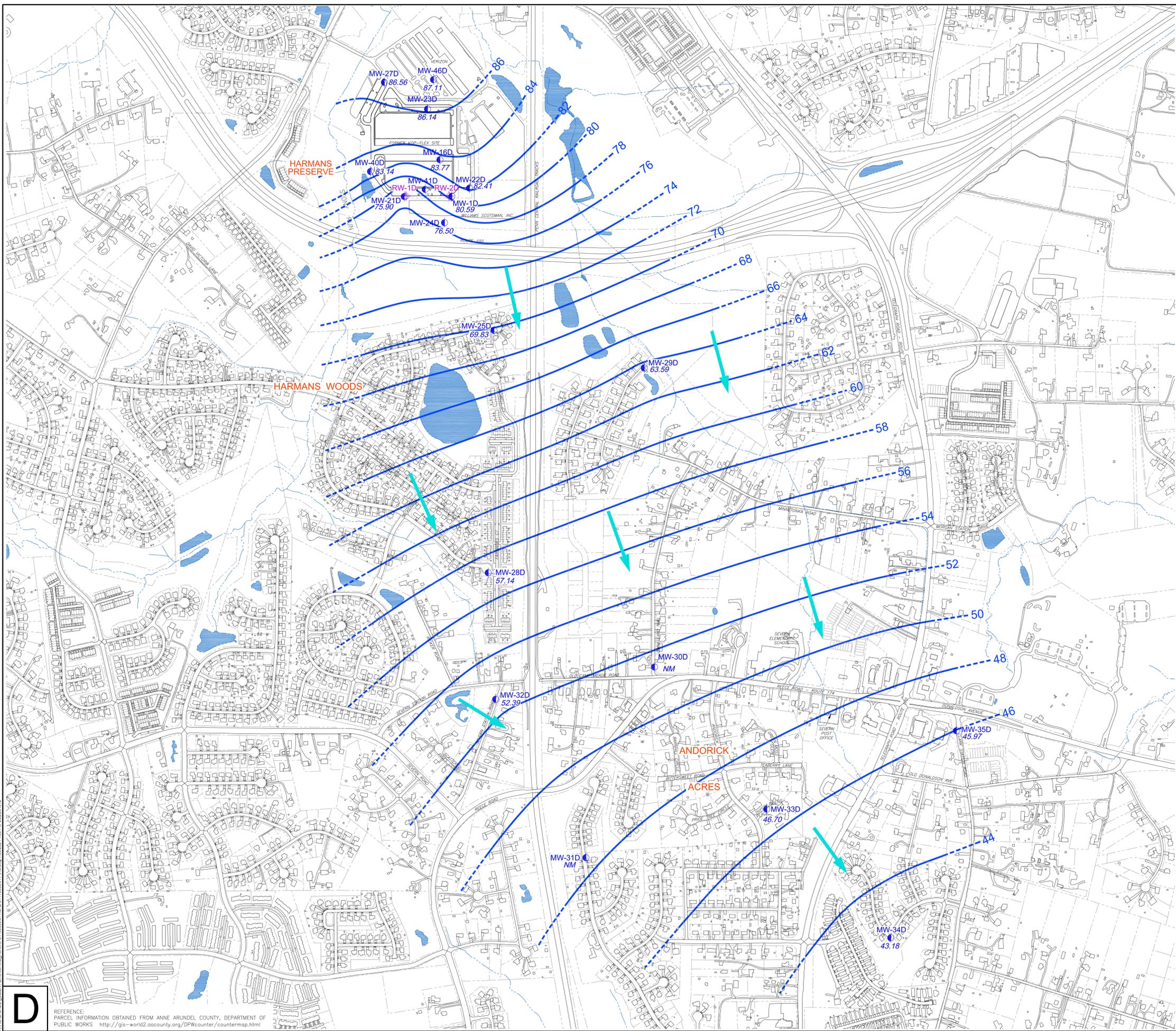
All sample concentrations in micrograms per liter (µg/l)

NS = well not sampled

b/ Wells screened in this portion of the Lower Patapsco aquifer were removed from the monitoring program after the May 2018 sampling event.

c/ Well decommissioned in August 2019

## FIGURES



- LEGEND**
- PROPERTY LINE
  - STREAM
  - WATER BODY
  - MONITORING WELL
  - RECOVERY WELL
  - 75.90 GROUNDWATER SURFACE ELEVATION (FEET MSL)
  - NOT MEASURED
  - GROUNDWATER SURFACE CONTOUR (DASHED WHERE INFERRED)
  - INFERRED GROUNDWATER FLOW DIRECTION

**NOTE:**  
 FIGURE DEPICTS THE POTENTIOMETRIC SURFACE IN THE DEEP (CONFINED) ZONE OF THE LOWER PATAPSCO AQUIFER UNDER PUMPING CONDITIONS AT RW-1D ONLY. RECOVERY WELL RW-2D WAS OFF-LINE DURING THE MONITORING EVENT.

REVISIONS	
REV	DESCRIPTION

DRAWN BY	CHECKED	APPROVED	DATE
EGG	EGG	EGG	7/23/2024
			7/30/2024

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**POTENTIOMETRIC SURFACE CONTOUR MAP DEEP CONFINED ZONE OF THE LOWER PATAPSCO AQUIFER**  
**MAY 2024**  
**FORMER KOP-FLEX FACILITY SITE**  
**HANOVER, MARYLAND**  
 PREPARED FOR  
**EMERSUB 16 LLC**  
**ST. LOUIS, MISSOURI**



WSP USA Inc.  
 13530 DULLES TECHNOLOGY DR, SUITE 300  
 HERRIDON, VA 20171  
 TEL: +1 703.709.6500

**FIGURE 1**  
 Drawing Number  
**314V5608.011-045**

**D**  
 REFERENCE:  
 PARCEL INFORMATION OBTAINED FROM ANNE ARUNDEL COUNTY, DEPARTMENT OF PUBLIC WORKS <http://gis-worl2.aacounty.org/DPW/counmap/counmap.html>

THE ORIGINAL VERSION OF THIS DRAWING IS IN COLOR. BLACK AND WHITE COPIES MAY NOT ACCURATELY DEPICT CERTAIN INFORMATION.





ENXLOSURE A - CERTIFIED LABORATORY ANALYTICAL REPORT FOR  
OFFSTE MONITORING WELL SAMPLES (MAY 2024)



Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | [www.alsglobal.com](http://www.alsglobal.com)  
 Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 | Fax: 717-944-1430 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618  
 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For

**WSP USA Inc.**

Project [KOP-Flex Offsite 31405608.011](#)  
 Workorder [3360622](#)  
 Report ID [325702 on 5/31/2024](#)

### Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on May 20, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Susan Scherer (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at [www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads](http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads).

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.  
 ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):  
 Elliott Martynkiewicz - WSP USA Inc.  
 Eric Johnson - WSP USA INC

*Susan Scherer*

**Susan Scherer**  
 Project Coordinator

(ALS Digital Signature)

*This page is included as part of the Analytical Report and must be retained as a permanent record thereof.*



### Sample Summary

<u>Lab ID</u>	<u>Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>	<u>Collector</u>	<u>Collection Company</u>
3360622001	MW-35D	Ground Water	05/20/2024 08:15	05/20/2024 19:20	CBC	Collected By Client
3360622002	MW-34D	Ground Water	05/20/2024 08:35	05/20/2024 19:20	CBC	Collected By Client
3360622003	MW-33D-295	Ground Water	05/20/2024 09:05	05/20/2024 19:20	CBC	Collected By Client
3360622004	MW-33D-235	Ground Water	05/20/2024 09:15	05/20/2024 19:20	CBC	Collected By Client
3360622005	MW-30D-413	Ground Water	05/20/2024 09:35	05/20/2024 19:20	CBC	Collected By Client
3360622006	MW-30D-273	Ground Water	05/20/2024 09:45	05/20/2024 19:20	CBC	Collected By Client
3360622007	MW-29D	Ground Water	05/20/2024 11:25	05/20/2024 19:20	CBC	Collected By Client
3360622008	MW-45	Ground Water	05/20/2024 12:45	05/20/2024 19:20	CBC	Collected By Client
3360622009	Trip Blank C	Ground Water	05/20/2024 00:00	05/20/2024 19:20	CBC	Collected By Client
3360622010	MW-24D	Ground Water	05/20/2024 13:05	05/20/2024 19:20	CBC	Collected By Client
3360622011	MW-32D	Ground Water	05/20/2024 13:30	05/20/2024 19:20	CBC	Collected By Client
3360622012	MW-28D	Ground Water	05/20/2024 13:50	05/20/2024 19:20	CBC	Collected By Client
3360622013	MW-25D-130	Ground Water	05/20/2024 14:15	05/20/2024 19:20	CBC	Collected By Client
3360622014	MW-25D-190	Ground Water	05/20/2024 14:20	05/20/2024 19:20	CBC	Collected By Client
3360622015	MW-36D	Ground Water	05/20/2024 15:00	05/20/2024 19:20	CBC	Collected By Client
3360622016	Trip Blank-D	Ground Water	05/20/2024 00:00	05/20/2024 19:20	CBC	Collected By Client
3360622017	MW-200	Ground Water	05/20/2024 12:10	05/20/2024 19:20	CBC	Collected By Client



Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:  
 EPA 300.1 Rev. 1.0-1997  
 EPA 300.0 Rev. 2.1-1993  
 EPA 353.2 Rev. 2.0-1993  
 EPA 410.4 Rev. 1.0-1993  
 EPA 420.4 Rev. 1.0-1993  
 EPA 365.1 Rev. 2.0-1993  
 EPA 200.7 Rev. 4.4-1994  
 EPA 200.8 Rev. 5.4-1994  
 EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.



### Project Notations

**P1** A revised chain of custody was provided by email from Elliott Martynkiewicz of WSP on 05/21/24 to include MW-200. Sample containers were received for this location; however, at receipt, it was not included on the chain of custody. SJS 05/22/24

### Sample Notations

Lab ID	Sample ID	
3360622011	MW-32D	<b>S1</b> The reporting limits for GCMS volatile analytes were raised due to the dilution of the sample caused by matrix.

### Result Notations

Notation Ref.	
1	Bromomethane was recovered above the 20 percent 8260D criteria in the continuing calibration verification associated with this sample. The % drift was reported at 29.86%. Acceptable limits are +/-20%.
2	Chlorodibromomethane was recovered above the 20 percent 8260D criteria in the continuing calibration verification associated with this sample. The % difference was reported at 20.63%. Acceptable limits are +/-20%.
3	1,1,1,2-Tetrachloroethane was recovered above the 20 percent 8260D criteria in the continuing calibration verification associated with this sample. The % difference was reported at 20.22%. Acceptable limits are +/-20%.
4	The QC sample type MS for method SW846 8260D was outside the control limits for the analyte Carbon Tetrachloride. The % Recovery was reported as 141 and the control limits were 62 to 132.
5	The QC sample type MSD for method SW846 8260D was outside the control limits for the analyte Carbon Tetrachloride. The % Recovery was reported as 134 and the control limits were 62 to 132.
6	The QC sample type MS for method SW846 8260D was outside the control limits for the analyte 1,1-Dichloroethene. The % Recovery was reported as 135 and the control limits were 63 to 128.
7	The QC sample type MS for method SW846 8260D was outside the control limits for the analyte Methyl t-Butyl Ether. The % Recovery was reported as 117 and the control limits were 69 to 115.
8	The QC sample type MS for method SW846 8270E SIM was outside the control limits for the analyte 1,4-Dioxane. The % Recovery was reported as -126 and the control limits were 22 to 75.
9	The QC sample type MSD for method SW846 8270E SIM was outside the control limits for the analyte 1,4-Dioxane. The % Recovery was reported as 139 and the control limits were 22 to 75.
10	The QC sample type MSD for method SW846 8270E SIM was outside the control limits for the analyte 1,4-Dioxane. The RPD was reported as 43.5 and the upper control limit is 30.



### Detected Results Summary

Client Sample ID	MW-33D-295	Collected	05/20/2024 09:05
Lab Sample ID	3360622003	Lab Receipt	05/20/2024 19:20

<u>Compound</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>	<u>Method</u>	<u>Flag</u>
<b>SEMIVOLATILE SIM</b>					
1,4-Dioxane	3.6	ug/L	1.0	SW846 8270E SIM	#
<b>VOLATILE ORGANICS</b>					
1,1-Dichloroethene	6.7	ug/L	1.0	SW846 8260D	#



### Detected Results Summary

Client Sample ID MW-30D-273 Collected 05/20/2024 09:45  
Lab Sample ID 3360622006 Lab Receipt 05/20/2024 19:20

Compound	Result	Units	RDL	Method	Flag
<b>SEMIVOLATILE SIM</b>					
1,4-Dioxane	7.1	ug/L	1.0	SW846 8270E SIM	#
<b>VOLATILE ORGANICS</b>					
1,1,1-Trichloroethane	1.3	ug/L	1.0	SW846 8260D	#
1,1-Dichloroethene	30.6	ug/L	1.0	SW846 8260D	#



### Detected Results Summary

Client Sample ID MW-24D Collected 05/20/2024 13:05  
Lab Sample ID 3360622010 Lab Receipt 05/20/2024 19:20

<u>Compound</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>	<u>Method</u>	<u>Flag</u>
<b>SEMIVOLATILE SIM</b>					
1,4-Dioxane	78.2	ug/L	20.5	SW846 8270E SIM	#
<b>VOLATILE ORGANICS</b>					
1,1-Dichloroethane	76.8	ug/L	10.0	SW846 8260D	#
1,1-Dichloroethene	999	ug/L	10.0	SW846 8260D	#



### Detected Results Summary

Client Sample ID	MW-28D	Collected	05/20/2024 13:50
Lab Sample ID	3360622012	Lab Receipt	05/20/2024 19:20

<u>Compound</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>	<u>Method</u>	<u>Flag</u>
<b>VOLATILE ORGANICS</b>					
1,1-Dichloroethene	13.2	ug/L	1.0	SW846 8260D	#



### Detected Results Summary

Client Sample ID MW-25D-130 Collected 05/20/2024 14:15  
Lab Sample ID 3360622013 Lab Receipt 05/20/2024 19:20

<u>Compound</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>	<u>Method</u>	<u>Flag</u>
<b>SEMIVOLATILE SIM</b>					
1,4-Dioxane	16.4	ug/L	5.0	SW846 8270E SIM	#
<b>VOLATILE ORGANICS</b>					
1,1,1-Trichloroethane	6.8	ug/L	1.0	SW846 8260D	#
1,1-Dichloroethane	8.7	ug/L	1.0	SW846 8260D	#
1,1-Dichloroethene	123	ug/L	1.0	SW846 8260D	#
1,2-Dichloroethane	1.4	ug/L	1.0	SW846 8260D	#



**Detected Results Summary**

Client Sample ID	MW-25D-190	Collected	05/20/2024 14:20
Lab Sample ID	3360622014	Lab Receipt	05/20/2024 19:20

<u>Compound</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>	<u>Method</u>	<u>Flag</u>
<b>SEMIVOLATILE SIM</b>					
1,4-Dioxane	6.4	ug/L	1.0	SW846 8270E SIM	#
<b>VOLATILE ORGANICS</b>					
1,1,1-Trichloroethane	2.5	ug/L	1.0	SW846 8260D	#
1,1-Dichloroethane	5.0	ug/L	1.0	SW846 8260D	#
1,1-Dichloroethene	19.5	ug/L	1.0	SW846 8260D	#
Methyl t-Butyl Ether	1.2	ug/L	1.0	SW846 8260D	#



**Detected Results Summary**

Client Sample ID	MW-200	Collected	05/20/2024 12:10
Lab Sample ID	3360622017	Lab Receipt	05/20/2024 19:20

<u>Compound</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>	<u>Method</u>	<u>Flag</u>
<b>SEMIVOLATILE SIM</b>					
1,4-Dioxane	14.7	ug/L	6.0	SW846 8270E SIM	#
<b>VOLATILE ORGANICS</b>					
1,1,1-Trichloroethane	5.8	ug/L	1.0	SW846 8260D	#
1,1-Dichloroethane	7.2	ug/L	1.0	SW846 8260D	#
1,1-Dichloroethene	104	ug/L	1.0	SW846 8260D	#
1,2-Dichloroethane	1.2	ug/L	1.0	SW846 8260D	#



## Results

Client Sample ID	MW-35D	Collected	05/20/2024 08:15
Lab Sample ID	3360622001	Lab Receipt	05/20/2024 19:20

### SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	1.0 U	U,P1	ug/L	1.0	SW846 8270E SIM	1	05/24/2024 07:25	S7M	C

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnapthalene-d10	7297-45-2	87.9%	29 - 112	05/24/2024 07:25	
Fluoranthene-d10	93951-69-0	110%	45 - 130	05/24/2024 07:25	

### VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U,3,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
1,1,1-Trichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
1,1,2,2-Tetrachloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
1,1,2-Trichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
1,1-Dichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
1,1-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
1,1-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
1,2,3-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
1,2,3-Trichloropropane	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
1,2,4-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
1,2-Dibromo-3-chloropropane	7.0 U	U,P1	ug/L	7.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
1,2-Dibromoethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
1,2-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
1,2-Dichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
1,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
1,3-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
1,3-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
1,4-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
2,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
2-Butanone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
2-Hexanone	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
Acetone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
Benzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
Bromobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
Bromochloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
Bromodichloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
Bromoform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
Bromomethane	1.0 U	U,1,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
Carbon Tetrachloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
Chlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
Chlorodibromomethane	1.0 U	U,2,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
Chloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
Chloroform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
Chloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A



## Results

Client Sample ID	MW-35D	Collected	05/20/2024 08:15
Lab Sample ID	3360622001	Lab Receipt	05/20/2024 19:20

### VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
cis-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
cis-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
Dibromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
Dichlorodifluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
Diisopropyl ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
Ethylbenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
Hexachlorobutadiene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
Methyl t-Butyl Ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
Methylene Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
mp-Xylene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
Naphthalene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
o-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
o-Xylene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
p-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
p-Isopropyltoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
Styrene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
Tetrachloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
Toluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
Total Xylenes	3.0 U	U,P1	ug/L	3.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
trans-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
trans-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
Trichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
Trichlorofluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
Vinyl Acetate	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 12:49	ILY	A
Vinyl Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:49	ILY	A

### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	62 - 133	05/28/2024 12:49	
4-Bromofluorobenzene	460-00-4	102%	79 - 114	05/28/2024 12:49	
Dibromofluoromethane	1868-53-7	101%	78 - 116	05/28/2024 12:49	
Toluene-d8	2037-26-5	98.8%	76 - 127	05/28/2024 12:49	



## Results

Client Sample ID	MW-34D	Collected	05/20/2024 08:35
Lab Sample ID	3360622002	Lab Receipt	05/20/2024 19:20

### SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	1.0 U	U,P1	ug/L	1.0	SW846 8270E SIM	1	05/24/2024 07:53	S7M	C

### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnapthalene-d10	7297-45-2	96.6%	29 - 112	05/24/2024 07:53	
Fluoranthene-d10	93951-69-0	92.2%	45 - 130	05/24/2024 07:53	

### VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U,3,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
1,1,1-Trichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
1,1,2,2-Tetrachloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
1,1,2-Trichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
1,1-Dichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
1,1-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
1,1-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
1,2,3-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
1,2,3-Trichloropropane	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
1,2,4-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
1,2-Dibromo-3-chloropropane	7.0 U	U,P1	ug/L	7.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
1,2-Dibromoethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
1,2-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
1,2-Dichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
1,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
1,3-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
1,3-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
1,4-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
2,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
2-Butanone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
2-Hexanone	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
Acetone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
Benzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
Bromobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
Bromochloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
Bromodichloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
Bromoform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
Bromomethane	1.0 U	U,1,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
Carbon Tetrachloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
Chlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
Chlorodibromomethane	1.0 U	U,2,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
Chloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
Chloroform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
Chloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A



## Results

Client Sample ID	MW-34D	Collected	05/20/2024 08:35
Lab Sample ID	3360622002	Lab Receipt	05/20/2024 19:20

### VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
cis-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
cis-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
Dibromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
Dichlorodifluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
Diisopropyl ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
Ethylbenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
Hexachlorobutadiene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
Methyl t-Butyl Ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
Methylene Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
mp-Xylene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
Naphthalene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
o-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
o-Xylene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
p-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
p-Isopropyltoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
Styrene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
Tetrachloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
Toluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
Total Xylenes	3.0 U	U,P1	ug/L	3.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
trans-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
trans-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
Trichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
Trichlorofluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
Vinyl Acetate	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 13:09	ILY	A
Vinyl Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:09	ILY	A

### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	106%	62 - 133	05/28/2024 13:09	
4-Bromofluorobenzene	460-00-4	93.4%	79 - 114	05/28/2024 13:09	
Dibromofluoromethane	1868-53-7	106%	78 - 116	05/28/2024 13:09	
Toluene-d8	2037-26-5	99.4%	76 - 127	05/28/2024 13:09	



## Results

Client Sample ID	MW-33D-295	Collected	05/20/2024 09:05
Lab Sample ID	3360622003	Lab Receipt	05/20/2024 19:20

### SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	3.6	P1	ug/L	1.0	SW846 8270E SIM	1	05/24/2024 08:20	S7M	C

### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnaphthalene-d10	7297-45-2	100%	29 - 112	05/24/2024 08:20	
Fluoranthene-d10	93951-69-0	114%	45 - 130	05/24/2024 08:20	

### VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U,3,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
1,1,1-Trichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
1,1,2,2-Tetrachloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
1,1,2-Trichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
1,1-Dichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
1,1-Dichloroethene	6.7	P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
1,1-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
1,2,3-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
1,2,3-Trichloropropane	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
1,2,4-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
1,2-Dibromo-3-chloropropane	7.0 U	U,P1	ug/L	7.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
1,2-Dibromoethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
1,2-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
1,2-Dichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
1,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
1,3-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
1,3-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
1,4-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
2,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
2-Butanone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
2-Hexanone	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
Acetone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
Benzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
Bromobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
Bromochloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
Bromodichloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
Bromoform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
Bromomethane	1.0 U	U,1,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
Carbon Tetrachloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
Chlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
Chlorodibromomethane	1.0 U	U,2,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
Chloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
Chloroform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
Chloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A



## Results

Client Sample ID	MW-33D-295	Collected	05/20/2024 09:05
Lab Sample ID	3360622003	Lab Receipt	05/20/2024 19:20

### VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
cis-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
cis-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
Dibromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
Dichlorodifluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
Diisopropyl ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
Ethylbenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
Hexachlorobutadiene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
Methyl t-Butyl Ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
Methylene Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
mp-Xylene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
Naphthalene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
o-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
o-Xylene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
p-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
p-Isopropyltoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
Styrene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
Tetrachloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
Toluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
Total Xylenes	3.0 U	U,P1	ug/L	3.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
trans-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
trans-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
Trichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
Trichlorofluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
Vinyl Acetate	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 13:29	ILY	A
Vinyl Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:29	ILY	A

### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	104%	62 - 133	05/28/2024 13:29	
4-Bromofluorobenzene	460-00-4	93.6%	79 - 114	05/28/2024 13:29	
Dibromofluoromethane	1868-53-7	102%	78 - 116	05/28/2024 13:29	
Toluene-d8	2037-26-5	93%	76 - 127	05/28/2024 13:29	



## Results

Client Sample ID	MW-33D-235	Collected	05/20/2024 09:15
Lab Sample ID	3360622004	Lab Receipt	05/20/2024 19:20

### SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	1.0 U	U,P1	ug/L	1.0	SW846 8270E SIM	1	05/24/2024 08:47	S7M	C

### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnapthalene-d10	7297-45-2	92.8%	29 - 112	05/24/2024 08:47	
Fluoranthene-d10	93951-69-0	96.5%	45 - 130	05/24/2024 08:47	

### VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U,3,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
1,1,1-Trichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
1,1,2,2-Tetrachloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
1,1,2-Trichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
1,1-Dichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
1,1-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
1,1-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
1,2,3-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
1,2,3-Trichloropropane	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
1,2,4-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
1,2-Dibromo-3-chloropropane	7.0 U	U,P1	ug/L	7.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
1,2-Dibromoethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
1,2-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
1,2-Dichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
1,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
1,3-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
1,3-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
1,4-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
2,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
2-Butanone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
2-Hexanone	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
Acetone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
Benzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
Bromobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
Bromochloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
Bromodichloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
Bromoform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
Bromomethane	1.0 U	U,1,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
Carbon Tetrachloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
Chlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
Chlorodibromomethane	1.0 U	U,2,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
Chloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
Chloroform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
Chloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A



## Results

Client Sample ID	MW-33D-235	Collected	05/20/2024 09:15
Lab Sample ID	3360622004	Lab Receipt	05/20/2024 19:20

### VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
cis-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
cis-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
Dibromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
Dichlorodifluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
Diisopropyl ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
Ethylbenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
Hexachlorobutadiene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
Methyl t-Butyl Ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
Methylene Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
mp-Xylene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
Naphthalene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
o-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
o-Xylene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
p-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
p-Isopropyltoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
Styrene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
Tetrachloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
Toluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
Total Xylenes	3.0 U	U,P1	ug/L	3.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
trans-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
trans-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
Trichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
Trichlorofluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
Vinyl Acetate	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 13:48	ILY	A
Vinyl Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 13:48	ILY	A

### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	105%	62 - 133	05/28/2024 13:48	
4-Bromofluorobenzene	460-00-4	105%	79 - 114	05/28/2024 13:48	
Dibromofluoromethane	1868-53-7	104%	78 - 116	05/28/2024 13:48	
Toluene-d8	2037-26-5	102%	76 - 127	05/28/2024 13:48	



## Results

Client Sample ID	MW-30D-413	Collected	05/20/2024 09:35
Lab Sample ID	3360622005	Lab Receipt	05/20/2024 19:20

### SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	1.1 U	U,P1	ug/L	1.1	SW846 8270E SIM	1	05/24/2024 09:15	S7M	C

### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnaphthalene-d10	7297-45-2	75.6%	29 - 112	05/24/2024 09:15	
Fluoranthene-d10	93951-69-0	90.8%	45 - 130	05/24/2024 09:15	

### VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U,3,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
1,1,1-Trichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
1,1,2,2-Tetrachloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
1,1,2-Trichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
1,1-Dichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
1,1-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
1,1-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
1,2,3-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
1,2,3-Trichloropropane	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
1,2,4-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
1,2-Dibromo-3-chloropropane	7.0 U	U,P1	ug/L	7.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
1,2-Dibromoethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
1,2-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
1,2-Dichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
1,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
1,3-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
1,3-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
1,4-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
2,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
2-Butanone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
2-Hexanone	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
Acetone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
Benzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
Bromobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
Bromochloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
Bromodichloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
Bromoform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
Bromomethane	1.0 U	U,1,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
Carbon Tetrachloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
Chlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
Chlorodibromomethane	1.0 U	U,2,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
Chloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
Chloroform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
Chloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A



## Results

Client Sample ID	MW-30D-413	Collected	05/20/2024 09:35
Lab Sample ID	3360622005	Lab Receipt	05/20/2024 19:20

### VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
cis-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
cis-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
Dibromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
Dichlorodifluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
Diisopropyl ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
Ethylbenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
Hexachlorobutadiene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
Methyl t-Butyl Ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
Methylene Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
mp-Xylene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
Naphthalene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
o-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
o-Xylene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
p-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
p-Isopropyltoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
Styrene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
Tetrachloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
Toluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
Total Xylenes	3.0 U	U,P1	ug/L	3.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
trans-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
trans-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
Trichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
Trichlorofluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
Vinyl Acetate	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 14:08	ILY	A
Vinyl Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:08	ILY	A

### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	62 - 133	05/28/2024 14:08	
4-Bromofluorobenzene	460-00-4	101%	79 - 114	05/28/2024 14:08	
Dibromofluoromethane	1868-53-7	102%	78 - 116	05/28/2024 14:08	
Toluene-d8	2037-26-5	98.5%	76 - 127	05/28/2024 14:08	



## Results

Client Sample ID	MW-30D-273	Collected	05/20/2024 09:45
Lab Sample ID	3360622006	Lab Receipt	05/20/2024 19:20

### SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	7.1	P1	ug/L	1.0	SW846 8270E SIM	1	05/24/2024 09:42	S7M	C

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnaphthalene-d10	7297-45-2	94.9%	29 - 112	05/24/2024 09:42	
Fluoranthene-d10	93951-69-0	107%	45 - 130	05/24/2024 09:42	

### VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U,3,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
1,1,1-Trichloroethane	1.3	P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
1,1,2,2-Tetrachloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
1,1,2-Trichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
1,1-Dichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
1,1-Dichloroethene	30.6	P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
1,1-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
1,2,3-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
1,2,3-Trichloropropane	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
1,2,4-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
1,2-Dibromo-3-chloropropane	7.0 U	U,P1	ug/L	7.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
1,2-Dibromoethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
1,2-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
1,2-Dichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
1,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
1,3-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
1,3-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
1,4-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
2,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
2-Butanone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
2-Hexanone	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
Acetone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
Benzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
Bromobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
Bromochloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
Bromodichloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
Bromoform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
Bromomethane	1.0 U	U,1,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
Carbon Tetrachloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
Chlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
Chlorodibromomethane	1.0 U	U,2,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
Chloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
Chloroform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
Chloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A



## Results

Client Sample ID	MW-30D-273	Collected	05/20/2024 09:45
Lab Sample ID	3360622006	Lab Receipt	05/20/2024 19:20

### VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
cis-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
cis-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
Dibromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
Dichlorodifluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
Diisopropyl ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
Ethylbenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
Hexachlorobutadiene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
Methyl t-Butyl Ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
Methylene Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
mp-Xylene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
Naphthalene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
o-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
o-Xylene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
p-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
p-Isopropyltoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
Styrene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
Tetrachloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
Toluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
Total Xylenes	3.0 U	U,P1	ug/L	3.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
trans-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
trans-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
Trichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
Trichlorofluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
Vinyl Acetate	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 14:28	ILY	A
Vinyl Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:28	ILY	A

### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	62 - 133	05/28/2024 14:28	
4-Bromofluorobenzene	460-00-4	97.8%	79 - 114	05/28/2024 14:28	
Dibromofluoromethane	1868-53-7	102%	78 - 116	05/28/2024 14:28	
Toluene-d8	2037-26-5	97.7%	76 - 127	05/28/2024 14:28	



## Results

Client Sample ID	MW-29D	Collected	05/20/2024 11:25
Lab Sample ID	3360622007	Lab Receipt	05/20/2024 19:20

### SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	1.0 U	U,P1	ug/L	1.0	SW846 8270E SIM	1	05/24/2024 10:11	S7M	C

### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnaphthalene-d10	7297-45-2	79.2%	29 - 112	05/24/2024 10:11	
Fluoranthene-d10	93951-69-0	90.2%	45 - 130	05/24/2024 10:11	

### VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U,3,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
1,1,1-Trichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
1,1,2,2-Tetrachloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
1,1,2-Trichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
1,1-Dichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
1,1-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
1,1-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
1,2,3-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
1,2,3-Trichloropropane	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
1,2,4-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
1,2-Dibromo-3-chloropropane	7.0 U	U,P1	ug/L	7.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
1,2-Dibromoethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
1,2-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
1,2-Dichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
1,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
1,3-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
1,3-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
1,4-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
2,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
2-Butanone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
2-Hexanone	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
Acetone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
Benzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
Bromobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
Bromochloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
Bromodichloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
Bromoform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
Bromomethane	1.0 U	U,1,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
Carbon Tetrachloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
Chlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
Chlorodibromomethane	1.0 U	U,2,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
Chloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
Chloroform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
Chloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A



## Results

Client Sample ID	MW-29D	Collected	05/20/2024 11:25
Lab Sample ID	3360622007	Lab Receipt	05/20/2024 19:20

### VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
cis-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
cis-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
Dibromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
Dichlorodifluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
Diisopropyl ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
Ethylbenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
Hexachlorobutadiene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
Methyl t-Butyl Ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
Methylene Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
mp-Xylene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
Naphthalene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
o-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
o-Xylene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
p-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
p-Isopropyltoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
Styrene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
Tetrachloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
Toluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
Total Xylenes	3.0 U	U,P1	ug/L	3.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
trans-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
trans-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
Trichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
Trichlorofluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
Vinyl Acetate	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 14:48	ILY	A
Vinyl Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 14:48	ILY	A

### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	108%	62 - 133	05/28/2024 14:48	
4-Bromofluorobenzene	460-00-4	97.9%	79 - 114	05/28/2024 14:48	
Dibromofluoromethane	1868-53-7	106%	78 - 116	05/28/2024 14:48	
Toluene-d8	2037-26-5	102%	76 - 127	05/28/2024 14:48	



## Results

Client Sample ID	MW-45	Collected	05/20/2024 12:45
Lab Sample ID	3360622008	Lab Receipt	05/20/2024 19:20

### SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	1.0 U	U,P1	ug/L	1.0	SW846 8270E SIM	1	05/24/2024 10:39	S7M	C

### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnaphthalene-d10	7297-45-2	81.8%	29 – 112	05/24/2024 10:39	
Fluoranthene-d10	93951-69-0	95.2%	45 – 130	05/24/2024 10:39	

### VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U,3,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
1,1,1-Trichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
1,1,2,2-Tetrachloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
1,1,2-Trichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
1,1-Dichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
1,1-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
1,1-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
1,2,3-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
1,2,3-Trichloropropane	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
1,2,4-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
1,2-Dibromo-3-chloropropane	7.0 U	U,P1	ug/L	7.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
1,2-Dibromoethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
1,2-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
1,2-Dichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
1,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
1,3-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
1,3-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
1,4-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
2,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
2-Butanone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
2-Hexanone	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
Acetone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
Benzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
Bromobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
Bromochloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
Bromodichloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
Bromoform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
Bromomethane	1.0 U	U,1,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
Carbon Tetrachloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
Chlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
Chlorodibromomethane	1.0 U	U,2,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
Chloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
Chloroform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
Chloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A



## Results

Client Sample ID	MW-45	Collected	05/20/2024 12:45
Lab Sample ID	3360622008	Lab Receipt	05/20/2024 19:20

### VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
cis-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
cis-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
Dibromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
Dichlorodifluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
Diisopropyl ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
Ethylbenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
Hexachlorobutadiene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
Methyl t-Butyl Ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
Methylene Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
mp-Xylene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
Naphthalene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
o-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
o-Xylene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
p-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
p-Isopropyltoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
Styrene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
Tetrachloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
Toluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
Total Xylenes	3.0 U	U,P1	ug/L	3.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
trans-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
trans-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
Trichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
Trichlorofluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
Vinyl Acetate	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 15:08	ILY	A
Vinyl Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:08	ILY	A

### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	104 %	62 - 133	05/28/2024 15:08	
4-Bromofluorobenzene	460-00-4	102 %	79 - 114	05/28/2024 15:08	
Dibromofluoromethane	1868-53-7	103 %	78 - 116	05/28/2024 15:08	
Toluene-d8	2037-26-5	98.8 %	76 - 127	05/28/2024 15:08	



## Results

Client Sample ID	Trip Blank C	Collected	05/20/2024 00:00
Lab Sample ID	3360622009	Lab Receipt	05/20/2024 19:20

### VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U,3,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
1,1,1-Trichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
1,1,2,2-Tetrachloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
1,1,2-Trichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
1,1-Dichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
1,1-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
1,1-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
1,2,3-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
1,2,3-Trichloropropane	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
1,2,4-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
1,2-Dibromo-3-chloropropane	7.0 U	U,P1	ug/L	7.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
1,2-Dibromoethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
1,2-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
1,2-Dichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
1,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
1,3-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
1,3-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
1,4-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
2,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
2-Butanone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
2-Hexanone	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
Acetone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
Benzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
Bromobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
Bromochloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
Bromodichloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
Bromoform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
Bromomethane	1.0 U	U,1,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
Carbon Tetrachloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
Chlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
Chlorodibromomethane	1.0 U	U,2,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
Chloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
Chloroform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
Chloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
cis-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
cis-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
Dibromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
Dichlorodifluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
Diisopropyl ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
Ethylbenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
Hexachlorobutadiene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
Methyl t-Butyl Ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
Methylene Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
mp-Xylene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
Naphthalene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
o-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A



## Results

Client Sample ID	Trip Blank C	Collected	05/20/2024 00:00
Lab Sample ID	3360622009	Lab Receipt	05/20/2024 19:20

### VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
o-Xylene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
p-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
p-Isopropyltoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
Styrene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
Tetrachloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
Toluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
Total Xylenes	3.0 U	U,P1	ug/L	3.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
trans-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
trans-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
Trichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
Trichlorofluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
Vinyl Acetate	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 12:09	ILY	A
Vinyl Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 12:09	ILY	A

### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	05/28/2024 12:09	
4-Bromofluorobenzene	460-00-4	104%	79 – 114	05/28/2024 12:09	
Dibromofluoromethane	1868-53-7	102%	78 – 116	05/28/2024 12:09	
Toluene-d8	2037-26-5	101%	76 – 127	05/28/2024 12:09	



## Results

Client Sample ID	MW-24D	Collected	05/20/2024 13:05
Lab Sample ID	3360622010	Lab Receipt	05/20/2024 19:20

### SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	78.2	P1	ug/L	20.5	SW846 8270E SIM	20	05/28/2024 23:45	M1O	C

### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnaphthalene-d10	7297-45-2	98%	29 – 112	05/28/2024 23:45	
2-Methylnaphthalene-d10	7297-45-2	80.8%	29 – 112	05/24/2024 11:09	
Fluoranthene-d10	93951-69-0	97.1%	45 – 130	05/28/2024 23:45	
Fluoranthene-d10	93951-69-0	96.6%	45 – 130	05/24/2024 11:09	

### VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
1,1,1-Trichloroethane	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
1,1,2,2-Tetrachloroethane	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
1,1,2-Trichloroethane	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
1,1-Dichloroethane	76.8	P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
1,1-Dichloroethene	999	P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
1,1-Dichloropropene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
1,2,3-Trichlorobenzene	20.0 U	U,P1	ug/L	20.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
1,2,3-Trichloropropane	20.0 U	U,P1	ug/L	20.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
1,2,4-Trichlorobenzene	20.0 U	U,P1	ug/L	20.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
1,2-Dibromo-3-chloropropane	70.0 U	U,P1	ug/L	70.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
1,2-Dibromoethane	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
1,2-Dichlorobenzene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
1,2-Dichloroethane	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
1,2-Dichloropropane	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
1,3-Dichlorobenzene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
1,3-Dichloropropane	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
1,4-Dichlorobenzene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
2,2-Dichloropropane	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
2-Butanone	100 U	U,P1	ug/L	100	SW846 8260D	10	05/29/2024 15:29	ADB	A
2-Hexanone	50.0 U	U,P1	ug/L	50.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
4-Methyl-2-Pentanone(MIBK)	50.0 U	U,P1	ug/L	50.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
Acetone	100 U	U,P1	ug/L	100	SW846 8260D	10	05/29/2024 15:29	ADB	A
Benzene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
Bromobenzene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
Bromochloromethane	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
Bromodichloromethane	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
Bromoform	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
Bromomethane	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
Carbon Tetrachloride	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
Chlorobenzene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
Chlorodibromomethane	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
Chloroethane	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A



## Results

Client Sample ID	MW-24D	Collected	05/20/2024 13:05
Lab Sample ID	3360622010	Lab Receipt	05/20/2024 19:20

### VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
Chloromethane	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
cis-1,2-Dichloroethene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
cis-1,3-Dichloropropene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
Dibromomethane	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
Dichlorodifluoromethane	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
Diisopropyl ether	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
Ethylbenzene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
Hexachlorobutadiene	50.0 U	U,P1	ug/L	50.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
Methyl t-Butyl Ether	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
Methylene Chloride	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
mp-Xylene	20.0 U	U,P1	ug/L	20.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
Naphthalene	20.0 U	U,P1	ug/L	20.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
o-Chlorotoluene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
o-Xylene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
p-Chlorotoluene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
p-Isopropyltoluene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
Styrene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
Tetrachloroethene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
Toluene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
Total Xylenes	30.0 U	U,P1	ug/L	30.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
trans-1,2-Dichloroethene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
trans-1,3-Dichloropropene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
Trichloroethene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
Trichlorofluoromethane	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
Vinyl Acetate	50.0 U	U,P1	ug/L	50.0	SW846 8260D	10	05/29/2024 15:29	ADB	A
Vinyl Chloride	10.0 U	U,P1	ug/L	10.0	SW846 8260D	10	05/29/2024 15:29	ADB	A

### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	110%	62 - 133	05/29/2024 15:29	
4-Bromofluorobenzene	460-00-4	101%	79 - 114	05/29/2024 15:29	
Dibromofluoromethane	1868-53-7	96%	78 - 116	05/29/2024 15:29	
Toluene-d8	2037-26-5	94.6%	76 - 127	05/29/2024 15:29	



## Results

Client Sample ID	MW-32D	Collected	05/20/2024 13:30
Lab Sample ID	3360622011	Lab Receipt	05/20/2024 19:20

### SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	1.0 U	U,P1,S1	ug/L	1.0	SW846 8270E SIM	1	05/24/2024 11:37	S7M	C

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnapthalene-d10	7297-45-2	89%	29 - 112	05/24/2024 11:37	
Fluoranthene-d10	93951-69-0	101%	45 - 130	05/24/2024 11:37	

### VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
1,1,1-Trichloroethane	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
1,1,2,2-Tetrachloroethane	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
1,1,2-Trichloroethane	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
1,1-Dichloroethane	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
1,1-Dichloroethene	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
1,1-Dichloropropene	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
1,2,3-Trichlorobenzene	10.0 U	U,P1,S1	ug/L	10.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
1,2,3-Trichloropropane	10.0 U	U,P1,S1	ug/L	10.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
1,2,4-Trichlorobenzene	10.0 U	U,P1,S1	ug/L	10.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
1,2-Dibromo-3-chloropropane	35.0 U	U,P1,S1	ug/L	35.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
1,2-Dibromoethane	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
1,2-Dichlorobenzene	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
1,2-Dichloroethane	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
1,2-Dichloropropane	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
1,3-Dichlorobenzene	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
1,3-Dichloropropane	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
1,4-Dichlorobenzene	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
2,2-Dichloropropane	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
2-Butanone	50.0 U	U,P1,S1	ug/L	50.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
2-Hexanone	25.0 U	U,P1,S1	ug/L	25.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
4-Methyl-2-Pentanone(MIBK)	25.0 U	U,P1,S1	ug/L	25.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
Acetone	50.0 U	U,P1,S1	ug/L	50.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
Benzene	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
Bromobenzene	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
Bromochloromethane	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
Bromodichloromethane	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
Bromoform	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
Bromomethane	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
Carbon Tetrachloride	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
Chlorobenzene	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
Chlorodibromomethane	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
Chloroethane	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
Chloroform	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
Chloromethane	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A



## Results

Client Sample ID	MW-32D	Collected	05/20/2024 13:30
Lab Sample ID	3360622011	Lab Receipt	05/20/2024 19:20

### VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
cis-1,2-Dichloroethene	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
cis-1,3-Dichloropropene	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
Dibromomethane	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
Dichlorodifluoromethane	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
Diisopropyl ether	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
Ethylbenzene	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
Hexachlorobutadiene	25.0 U	U,P1,S1	ug/L	25.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
Methyl t-Butyl Ether	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
Methylene Chloride	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
mp-Xylene	10.0 U	U,P1,S1	ug/L	10.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
Naphthalene	10.0 U	U,P1,S1	ug/L	10.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
o-Chlorotoluene	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
o-Xylene	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
p-Chlorotoluene	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
p-Isopropyltoluene	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
Styrene	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
Tetrachloroethene	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
Toluene	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
Total Xylenes	15.0 U	U,P1,S1	ug/L	15.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
trans-1,2-Dichloroethene	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
trans-1,3-Dichloropropene	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
Trichloroethene	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
Trichlorofluoromethane	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
Vinyl Acetate	25.0 U	U,P1,S1	ug/L	25.0	SW846 8260D	5	05/29/2024 15:08	ADB	A
Vinyl Chloride	5.0 U	U,P1,S1	ug/L	5.0	SW846 8260D	5	05/29/2024 15:08	ADB	A

### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	110%	62 - 133	05/29/2024 15:08	
4-Bromofluorobenzene	460-00-4	90%	79 - 114	05/29/2024 15:08	
Dibromofluoromethane	1868-53-7	96%	78 - 116	05/29/2024 15:08	
Toluene-d8	2037-26-5	90.7%	76 - 127	05/29/2024 15:08	



## Results

Client Sample ID	MW-28D	Collected	05/20/2024 13:50
Lab Sample ID	3360622012	Lab Receipt	05/20/2024 19:20

### SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	1.0 U	U,P1	ug/L	1.0	SW846 8270E SIM	1	05/24/2024 12:07	S7M	C

### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnaphthalene-d10	7297-45-2	92.8%	29 – 112	05/24/2024 12:07	
Fluoranthene-d10	93951-69-0	96.1%	45 – 130	05/24/2024 12:07	

### VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
1,1,1-Trichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
1,1,2,2-Tetrachloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
1,1,2-Trichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
1,1-Dichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
1,1-Dichloroethene	13.2	6,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
1,1-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
1,2,3-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
1,2,3-Trichloropropane	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
1,2,4-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
1,2-Dibromo-3-chloropropane	7.0 U	U,P1	ug/L	7.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
1,2-Dibromoethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
1,2-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
1,2-Dichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
1,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
1,3-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
1,3-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
1,4-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
2,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
2-Butanone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
2-Hexanone	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
Acetone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
Benzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
Bromobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
Bromochloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
Bromodichloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
Bromoform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
Bromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
Carbon Tetrachloride	1.0 U	U,4,5,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
Chlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
Chlorodibromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
Chloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
Chloroform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
Chloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A



## Results

Client Sample ID	MW-28D	Collected	05/20/2024 13:50
Lab Sample ID	3360622012	Lab Receipt	05/20/2024 19:20

### VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
cis-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
cis-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
Dibromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
Dichlorodifluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
Diisopropyl ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
Ethylbenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
Hexachlorobutadiene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
Methyl t-Butyl Ether	1.0 U	U,7,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
Methylene Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
mp-Xylene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
Naphthalene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
o-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
o-Xylene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
p-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
p-Isopropyltoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
Styrene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
Tetrachloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
Toluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
Total Xylenes	3.0 U	U,P1	ug/L	3.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
trans-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
trans-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
Trichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
Trichlorofluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
Vinyl Acetate	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/29/2024 14:07	ADB	A
Vinyl Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:07	ADB	A

### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	107%	62 - 133	05/29/2024 14:07	
4-Bromofluorobenzene	460-00-4	98.8%	79 - 114	05/29/2024 14:07	
Dibromofluoromethane	1868-53-7	95.4%	78 - 116	05/29/2024 14:07	
Toluene-d8	2037-26-5	92.9%	76 - 127	05/29/2024 14:07	



## Results

Client Sample ID	MW-25D-130	Collected	05/20/2024 14:15
Lab Sample ID	3360622013	Lab Receipt	05/20/2024 19:20

### SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	16.4	P1	ug/L	5.0	SW846 8270E SIM	5	05/29/2024 00:12	M1O	C

### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnaphthalene-d10	7297-45-2	80.4%	29 – 112	05/29/2024 00:12	
2-Methylnaphthalene-d10	7297-45-2	84.8%	29 – 112	05/24/2024 12:36	
Fluoranthene-d10	93951-69-0	106%	45 – 130	05/29/2024 00:12	
Fluoranthene-d10	93951-69-0	103%	45 – 130	05/24/2024 12:36	

### VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
1,1,1-Trichloroethane	6.8	P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
1,1,2,2-Tetrachloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
1,1,2-Trichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
1,1-Dichloroethane	8.7	P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
1,1-Dichloroethene	123	P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
1,1-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
1,2,3-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
1,2,3-Trichloropropane	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
1,2,4-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
1,2-Dibromo-3-chloropropane	7.0 U	U,P1	ug/L	7.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
1,2-Dibromoethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
1,2-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
1,2-Dichloroethane	1.4	P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
1,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
1,3-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
1,3-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
1,4-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
2,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
2-Butanone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
2-Hexanone	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
Acetone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
Benzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
Bromobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
Bromochloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
Bromodichloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
Bromoform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
Bromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
Carbon Tetrachloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
Chlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
Chlorodibromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
Chloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A



## Results

Client Sample ID	MW-25D-130	Collected	05/20/2024 14:15
Lab Sample ID	3360622013	Lab Receipt	05/20/2024 19:20

### VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
Chloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
cis-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
cis-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
Dibromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
Dichlorodifluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
Diisopropyl ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
Ethylbenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
Hexachlorobutadiene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
Methyl t-Butyl Ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
Methylene Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
mp-Xylene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
Naphthalene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
o-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
o-Xylene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
p-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
p-Isopropyltoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
Styrene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
Tetrachloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
Toluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
Total Xylenes	3.0 U	U,P1	ug/L	3.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
trans-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
trans-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
Trichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
Trichlorofluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
Vinyl Acetate	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/29/2024 14:27	ADB	A
Vinyl Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:27	ADB	A

### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	111%	62 - 133	05/29/2024 14:27	
4-Bromofluorobenzene	460-00-4	94.7%	79 - 114	05/29/2024 14:27	
Dibromofluoromethane	1868-53-7	98.5%	78 - 116	05/29/2024 14:27	
Toluene-d8	2037-26-5	95.5%	76 - 127	05/29/2024 14:27	



## Results

Client Sample ID	MW-25D-190	Collected	05/20/2024 14:20
Lab Sample ID	3360622014	Lab Receipt	05/20/2024 19:20

### SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	6.4	8,9,10,P 1	ug/L	1.0	SW846 8270E SIM	1	05/24/2024 13:05	S7M	G

### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnaphthalene-d10	7297-45-2	92.1%	29 - 112	05/24/2024 13:05	
Fluoranthene-d10	93951-69-0	102%	45 - 130	05/24/2024 13:05	

### VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U,3,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
1,1,1-Trichloroethane	2.5	P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
1,1,2,2-Tetrachloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
1,1,2-Trichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
1,1-Dichloroethane	5.0	P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
1,1-Dichloroethene	19.5	P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
1,1-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
1,2,3-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
1,2,3-Trichloropropane	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
1,2,4-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
1,2-Dibromo-3-chloropropane	7.0 U	U,P1	ug/L	7.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
1,2-Dibromoethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
1,2-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
1,2-Dichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
1,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
1,3-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
1,3-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
1,4-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
2,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
2-Butanone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
2-Hexanone	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
Acetone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
Benzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
Bromobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
Bromochloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
Bromodichloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
Bromoform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
Bromomethane	1.0 U	U,1,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
Carbon Tetrachloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
Chlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
Chlorodibromomethane	1.0 U	U,2,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
Chloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
Chloroform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
Chloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A



## Results

Client Sample ID	MW-25D-190	Collected	05/20/2024 14:20
Lab Sample ID	3360622014	Lab Receipt	05/20/2024 19:20

### VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
cis-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
cis-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
Dibromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
Dichlorodifluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
Diisopropyl ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
Ethylbenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
Hexachlorobutadiene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
Methyl t-Butyl Ether	1.2	P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
Methylene Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
mp-Xylene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
Naphthalene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
o-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
o-Xylene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
p-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
p-Isopropyltoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
Styrene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
Tetrachloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
Toluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
Total Xylenes	3.0 U	U,P1	ug/L	3.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
trans-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
trans-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
Trichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
Trichlorofluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
Vinyl Acetate	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/28/2024 15:28	ILY	A
Vinyl Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/28/2024 15:28	ILY	A

### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	108%	62 - 133	05/28/2024 15:28	
4-Bromofluorobenzene	460-00-4	94.8%	79 - 114	05/28/2024 15:28	
Dibromofluoromethane	1868-53-7	105%	78 - 116	05/28/2024 15:28	
Toluene-d8	2037-26-5	97.9%	76 - 127	05/28/2024 15:28	



## Results

Client Sample ID	MW-36D	Collected	05/20/2024 15:00
Lab Sample ID	3360622015	Lab Receipt	05/20/2024 19:20

### SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	1.0 U	U,P1	ug/L	1.0	SW846 8270E SIM	1	05/24/2024 14:32	S7M	C

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnapthalene-d10	7297-45-2	83.7%	29 - 112	05/24/2024 14:32	
Fluoranthene-d10	93951-69-0	97.7%	45 - 130	05/24/2024 14:32	

### VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
1,1,1-Trichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
1,1,2,2-Tetrachloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
1,1,2-Trichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
1,1-Dichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
1,1-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
1,1-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
1,2,3-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
1,2,3-Trichloropropane	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
1,2,4-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
1,2-Dibromo-3-chloropropane	7.0 U	U,P1	ug/L	7.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
1,2-Dibromoethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
1,2-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
1,2-Dichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
1,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
1,3-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
1,3-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
1,4-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
2,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
2-Butanone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
2-Hexanone	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
Acetone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
Benzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
Bromobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
Bromochloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
Bromodichloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
Bromoform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
Bromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
Carbon Tetrachloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
Chlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
Chlorodibromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
Chloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
Chloroform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
Chloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A



## Results

Client Sample ID	MW-36D	Collected	05/20/2024 15:00
Lab Sample ID	3360622015	Lab Receipt	05/20/2024 19:20

### VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
cis-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
cis-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
Dibromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
Dichlorodifluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
Diisopropyl ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
Ethylbenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
Hexachlorobutadiene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
Methyl t-Butyl Ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
Methylene Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
mp-Xylene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
Naphthalene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
o-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
o-Xylene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
p-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
p-Isopropyltoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
Styrene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
Tetrachloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
Toluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
Total Xylenes	3.0 U	U,P1	ug/L	3.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
trans-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
trans-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
Trichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
Trichlorofluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
Vinyl Acetate	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/29/2024 14:48	ADB	A
Vinyl Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 14:48	ADB	A

### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	110%	62 - 133	05/29/2024 14:48	
4-Bromofluorobenzene	460-00-4	100%	79 - 114	05/29/2024 14:48	
Dibromofluoromethane	1868-53-7	96%	78 - 116	05/29/2024 14:48	
Toluene-d8	2037-26-5	94.4%	76 - 127	05/29/2024 14:48	



## Results

Client Sample ID	Trip Blank-D	Collected	05/20/2024 00:00
Lab Sample ID	3360622016	Lab Receipt	05/20/2024 19:20

### VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
1,1,1-Trichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
1,1,2,2-Tetrachloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
1,1,2-Trichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
1,1-Dichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
1,1-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
1,1-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
1,2,3-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
1,2,3-Trichloropropane	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
1,2,4-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
1,2-Dibromo-3-chloropropane	7.0 U	U,P1	ug/L	7.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
1,2-Dibromoethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
1,2-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
1,2-Dichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
1,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
1,3-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
1,3-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
1,4-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
2,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
2-Butanone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
2-Hexanone	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
Acetone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
Benzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
Bromobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
Bromochloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
Bromodichloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
Bromoform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
Bromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
Carbon Tetrachloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
Chlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
Chlorodibromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
Chloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
Chloroform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
Chloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
cis-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
cis-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
Dibromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
Dichlorodifluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
Diisopropyl ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
Ethylbenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
Hexachlorobutadiene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
Methyl t-Butyl Ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
Methylene Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
mp-Xylene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
Naphthalene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
o-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A



## Results

Client Sample ID	Trip Blank-D	Collected	05/20/2024 00:00
Lab Sample ID	3360622016	Lab Receipt	05/20/2024 19:20

### VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
o-Xylene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
p-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
p-Isopropyltoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
Styrene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
Tetrachloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
Toluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
Total Xylenes	3.0 U	U,P1	ug/L	3.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
trans-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
trans-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
Trichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
Trichlorofluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
Vinyl Acetate	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/29/2024 13:47	ADB	A
Vinyl Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 13:47	ADB	A

### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	112%	62 – 133	05/29/2024 13:47	
4-Bromofluorobenzene	460-00-4	95.4%	79 – 114	05/29/2024 13:47	
Dibromofluoromethane	1868-53-7	99.1%	78 – 116	05/29/2024 13:47	
Toluene-d8	2037-26-5	96.5%	76 – 127	05/29/2024 13:47	



## Results

Client Sample ID	MW-200	Collected	05/20/2024 12:10
Lab Sample ID	3360622017	Lab Receipt	05/20/2024 19:20

### SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	14.7	P1	ug/L	6.0	SW846 8270E SIM	5	05/29/2024 00:39	M10	C

### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnaphthalene-d10	7297-45-2	76.7%	29 - 112	05/29/2024 00:39	
Fluoranthene-d10	93951-69-0	92.9%	45 - 130	05/29/2024 00:39	

### VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
1,1,1-Trichloroethane	5.8	P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
1,1,2,2-Tetrachloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
1,1,2-Trichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
1,1-Dichloroethane	7.2	P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
1,1-Dichloroethene	104	P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
1,1-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
1,2,3-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
1,2,3-Trichloropropane	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
1,2,4-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
1,2-Dibromo-3-chloropropane	7.0 U	U,P1	ug/L	7.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
1,2-Dibromoethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
1,2-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
1,2-Dichloroethane	1.2	P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
1,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
1,3-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
1,3-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
1,4-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
2,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
2-Butanone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
2-Hexanone	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
Acetone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
Benzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
Bromobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
Bromochloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
Bromodichloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
Bromoform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
Bromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
Carbon Tetrachloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
Chlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
Chlorodibromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
Chloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
Chloroform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
Chloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A



## Results

Client Sample ID	MW-200	Collected	05/20/2024 12:10
Lab Sample ID	3360622017	Lab Receipt	05/20/2024 19:20

### VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
cis-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
cis-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
Dibromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
Dichlorodifluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
Diisopropyl ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
Ethylbenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
Hexachlorobutadiene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
Methyl t-Butyl Ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
Methylene Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
mp-Xylene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
Naphthalene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
o-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
o-Xylene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
p-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
p-Isopropyltoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
Styrene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
Tetrachloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
Toluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
Total Xylenes	3.0 U	U,P1	ug/L	3.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
trans-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
trans-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
Trichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
Trichlorofluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
Vinyl Acetate	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	05/29/2024 18:12	ADB	A
Vinyl Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	05/29/2024 18:12	ADB	A

### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	109%	62 - 133	05/29/2024 18:12	
4-Bromofluorobenzene	460-00-4	99.7%	79 - 114	05/29/2024 18:12	
Dibromofluoromethane	1868-53-7	96.3%	78 - 116	05/29/2024 18:12	
Toluene-d8	2037-26-5	91.9%	76 - 127	05/29/2024 18:12	



### Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3360622001	MW-35D	SW846 8270E SIM SW846 8260D	SW846 3510C N/A	
3360622002	MW-34D	SW846 8270E SIM SW846 8260D	SW846 3510C N/A	
3360622003	MW-33D-295	SW846 8270E SIM SW846 8260D	SW846 3510C N/A	
3360622004	MW-33D-235	SW846 8270E SIM SW846 8260D	SW846 3510C N/A	
3360622005	MW-30D-413	SW846 8270E SIM SW846 8260D	SW846 3510C N/A	
3360622006	MW-30D-273	SW846 8270E SIM SW846 8260D	SW846 3510C N/A	
3360622007	MW-29D	SW846 8270E SIM SW846 8260D	SW846 3510C N/A	
3360622008	MW-45	SW846 8270E SIM SW846 8260D	SW846 3510C N/A	
3360622009	Trip Blank C	SW846 8260D	N/A	
3360622010	MW-24D	SW846 8270E SIM SW846 8260D	SW846 3510C N/A	
3360622011	MW-32D	SW846 8270E SIM SW846 8260D	SW846 3510C N/A	
3360622012	MW-28D	SW846 8270E SIM SW846 8260D	SW846 3510C N/A	
3360622013	MW-25D-130	SW846 8270E SIM SW846 8260D	SW846 3510C N/A	
3360622014	MW-25D-190	SW846 8270E SIM SW846 8260D	SW846 3510C N/A	
3360622015	MW-36D	SW846 8270E SIM SW846 8260D	SW846 3510C N/A	
3360622016	Trip Blank-D	SW846 8260D	N/A	
3360622017	MW-200	SW846 8270E SIM SW846 8260D	SW846 3510C N/A	



**QUALITY CONTROL SAMPLES**

**SEMIVOLATILE SIM**

QC Batch			
QC Batch	1207926	Prep Method	SW846 3510C
Date	05/23/2024 09:45	Analysis Method	SW846 8270E SIM
Tech.	MJA		

Associated Samples			
3360622017	3360622001	3360622002	3360622003
3360622004	3360622005	3360622006	3360622007
3360622008	3360622010	3360622011	3360622012
3360622013	3360622014	3360622015	

**Method Blank** 3829428 (MB) Created on 05/22/2024 17:29 For QC Batch 1207926

**RESULTS**

Compound	CAS No	Result	Units	RDL	Qualifiers
1,4-Dioxane	123-91-1	BLK	1.0 U ug/L	1.0	U

**SURROGATES**

Compound	CAS No	Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2-Methylnapthalene-d10	7297-45-2	BLK 0.83	1	83.1	29 - 112	
Fluoranthene-d10	93951-69-0	BLK 1	1	102	45 - 130	

**Lab Control Standard** 3829429 (LCS) Created on 05/22/2024 17:29 For QC Batch 1207926

**RESULTS**

Compound	CAS No	Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,4-Dioxane	123-91-1	LCS 0.34		1	34.1	22 - 75		U

**SURROGATES**

Compound	CAS No	Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2-Methylnapthalene-d10	7297-45-2	LCS 0.92	1	92.2	29 - 112	
Fluoranthene-d10	93951-69-0	LCS 1.10	1	110	45 - 130	

**Matrix Spike** 3829430 (MS) 3360622014 For QC Batch 1207926

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

**Matrix Spike Duplicate** 3829431 (MSD) 3360622014 For QC Batch 1207926

**RESULTS**

Compound	CAS No	Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,4-Dioxane	123-91-1	MS 5.10	6.40	1.10	NC	22 - 75		
1,4-Dioxane	123-91-1	MSD 7.90	6.40	1.10	NC	22 - 75	RPD 43.50* (Max-30)	



QUALITY CONTROL SAMPLES

SEMIVOLATILE SIM (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2-Methylnaphthalene-d10	7297-45-2	MS	0.73	1.10	69.8	29 - 112	
2-Methylnaphthalene-d10	7297-45-2	MSD	0.97	1.10	89.2	29 - 112	
Fluoranthene-d10	93951-69-0	MS	0.53	1.10	50.5	45 - 130	
Fluoranthene-d10	93951-69-0	MSD	1.10	1.10	105	45 - 130	



**QUALITY CONTROL SAMPLES**

**VOLATILE ORGANICS**

QC Batch			
QC Batch	1209901	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples			
3360622001	3360622002	3360622003	3360622004
3360622005	3360622006	3360622007	3360622008
3360622009	3360622014		

**Method Blank** 3831042 (MB) Created on 05/28/2024 10:53 For QC Batch 1209901

**RESULTS**

Compound	CAS No	Result	Units	RDL	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	BLK	1.0 U ug/L	1.0	U
1,1,1-Trichloroethane	71-55-6	BLK	1.0 U ug/L	1.0	U
1,1,2,2-Tetrachloroethane	79-34-5	BLK	1.0 U ug/L	1.0	U
1,1,2-Trichloroethane	79-00-5	BLK	1.0 U ug/L	1.0	U
1,1-Dichloroethane	75-34-3	BLK	1.0 U ug/L	1.0	U
1,1-Dichloroethene	75-35-4	BLK	1.0 U ug/L	1.0	U
1,1-Dichloropropene	563-58-6	BLK	1.0 U ug/L	1.0	U
1,2,3-Trichlorobenzene	87-61-6	BLK	2.0 U ug/L	2.0	U
1,2,3-Trichloropropane	96-18-4	BLK	2.0 U ug/L	2.0	U
1,2,4-Trichlorobenzene	120-82-1	BLK	2.0 U ug/L	2.0	U
1,2-Dibromo-3-chloropropane	96-12-8	BLK	7.0 U ug/L	7.0	U
1,2-Dibromoethane	106-93-4	BLK	1.0 U ug/L	1.0	U
1,2-Dichlorobenzene	95-50-1	BLK	1.0 U ug/L	1.0	U
1,2-Dichloroethane	107-06-2	BLK	1.0 U ug/L	1.0	U
1,2-Dichloropropane	78-87-5	BLK	1.0 U ug/L	1.0	U
1,3-Dichlorobenzene	541-73-1	BLK	1.0 U ug/L	1.0	U
1,3-Dichloropropane	142-28-9	BLK	1.0 U ug/L	1.0	U
1,4-Dichlorobenzene	106-46-7	BLK	1.0 U ug/L	1.0	U
2,2-Dichloropropane	594-20-7	BLK	1.0 U ug/L	1.0	U
2-Butanone	78-93-3	BLK	10.0 U ug/L	10.0	U
2-Hexanone	591-78-6	BLK	5.0 U ug/L	5.0	U
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	5.0 U ug/L	5.0	U
Acetone	67-64-1	BLK	10.0 U ug/L	10.0	U
Benzene	71-43-2	BLK	1.0 U ug/L	1.0	U
Bromobenzene	108-86-1	BLK	1.0 U ug/L	1.0	U
Bromochloromethane	74-97-5	BLK	1.0 U ug/L	1.0	U
Bromodichloromethane	75-27-4	BLK	1.0 U ug/L	1.0	U
Bromoform	75-25-2	BLK	1.0 U ug/L	1.0	U
Bromomethane	74-83-9	BLK	1.0 U ug/L	1.0	U
Carbon Tetrachloride	56-23-5	BLK	1.0 U ug/L	1.0	U
Chlorobenzene	108-90-7	BLK	1.0 U ug/L	1.0	U
Chlorodibromomethane	124-48-1	BLK	1.0 U ug/L	1.0	U
Chloroethane	75-00-3	BLK	1.0 U ug/L	1.0	U
Chloroform	67-66-3	BLK	1.0 U ug/L	1.0	U
Chloromethane	74-87-3	BLK	1.0 U ug/L	1.0	U
cis-1,2-Dichloroethene	156-59-2	BLK	1.0 U ug/L	1.0	U
cis-1,3-Dichloropropene	10061-01-5	BLK	1.0 U ug/L	1.0	U
Dibromomethane	74-95-3	BLK	1.0 U ug/L	1.0	U
Dichlorodifluoromethane	75-71-8	BLK	1.0 U ug/L	1.0	U



**QUALITY CONTROL SAMPLES**

**VOLATILE ORGANICS (cont.)**

*RESULTS*

Compound	CAS No		Result	Units	RDL	Qualifiers
Diisopropyl ether	108-20-3	BLK	1.0 U	ug/L	1.0	U
Ethylbenzene	100-41-4	BLK	1.0 U	ug/L	1.0	U
Hexachlorobutadiene	87-68-3	BLK	5.0 U	ug/L	5.0	U
Methyl t-Butyl Ether	1634-04-4	BLK	1.0 U	ug/L	1.0	U
Methylene Chloride	75-09-2	BLK	1.0 U	ug/L	1.0	U
mp-Xylene	108383/106423	BLK	2.0 U	ug/L	2.0	U
Naphthalene	91-20-3	BLK	2.0 U	ug/L	2.0	U
o-Chlorotoluene	95-49-8	BLK	1.0 U	ug/L	1.0	U
o-Xylene	95-47-6	BLK	1.0 U	ug/L	1.0	U
p-Chlorotoluene	106-43-4	BLK	1.0 U	ug/L	1.0	U
p-Isopropyltoluene	99-87-6	BLK	1.0 U	ug/L	1.0	U
Styrene	100-42-5	BLK	1.0 U	ug/L	1.0	U
Tetrachloroethene	127-18-4	BLK	1.0 U	ug/L	1.0	U
Toluene	108-88-3	BLK	1.0 U	ug/L	1.0	U
Total Xylenes	1330-20-7	BLK	3.0 U	ug/L	3.0	U
trans-1,2-Dichloroethene	156-60-5	BLK	1.0 U	ug/L	1.0	U
trans-1,3-Dichloropropene	10061-02-6	BLK	1.0 U	ug/L	1.0	U
Trichloroethene	79-01-6	BLK	1.0 U	ug/L	1.0	U
Trichlorofluoromethane	75-69-4	BLK	1.0 U	ug/L	1.0	U
Vinyl Acetate	108-05-4	BLK	5.0 U	ug/L	5.0	U
Vinyl Chloride	75-01-4	BLK	1.0 U	ug/L	1.0	U

*SURROGATES*

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	31.30	30	104	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	29.40	30	98.1	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	31	30	103	78 - 116	
Toluene-d8	2037-26-5	BLK	30.20	30	101	76 - 127	

**Lab Control Standard**

3831043 (LCS)

Created on 05/28/2024 10:53

For QC Batch 1209901

*RESULTS*

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	LCS	22.80		20	114	78 - 121		
1,1,1-Trichloroethane	71-55-6	LCS	20.70		20	104	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	18.90		20	94.6	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	19.40		20	96.8	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	18.40		20	91.9	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	18.50		20	92.5	63 - 128		
1,1-Dichloropropene	563-58-6	LCS	19.10		20	95.7	76 - 126		
1,2,3-Trichlorobenzene	87-61-6	LCS	21.10		20	106	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	20.20		20	101	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	21.80		20	109	67 - 123		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	17.60		20	88.1	59 - 133		



QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2-Dibromoethane	106-93-4	LCS	21		20	105	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	20.60		20	103	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	20.30		20	102	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	17.60		20	87.8	81 - 127		
1,3-Dichlorobenzene	541-73-1	LCS	20.70		20	104	81 - 118		
1,3-Dichloropropane	142-28-9	LCS	19.50		20	97.4	82 - 126		
1,4-Dichlorobenzene	106-46-7	LCS	21.40		20	107	81 - 116		
2,2-Dichloropropane	594-20-7	LCS	21.30		20	106	64 - 129		
2-Butanone	78-93-3	LCS	90.60		100	90.6	50 - 152		
2-Hexanone	591-78-6	LCS	89.40		100	89.4	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	87.90		100	87.9	71 - 146		
Acetone	67-64-1	LCS	92.10		100	92.1	40 - 151		
Benzene	71-43-2	LCS	19.30		20	96.4	80 - 124		
Bromobenzene	108-86-1	LCS	21		20	105	81 - 119		
Bromochloromethane	74-97-5	LCS	21.90		20	109	73 - 117		
Bromodichloromethane	75-27-4	LCS	20.60		20	103	79 - 126		
Bromoform	75-25-2	LCS	20		20	99.8	70 - 123		
Bromomethane	74-83-9	LCS	21.20		20	106	45 - 148		
Carbon Tetrachloride	56-23-5	LCS	21.30		20	106	62 - 132		
Chlorobenzene	108-90-7	LCS	20.60		20	103	85 - 117		
Chlorodibromomethane	124-48-1	LCS	22.10		20	110	77 - 122		
Chloroethane	75-00-3	LCS	14.20		20	71.2	51 - 142		
Chloroform	67-66-3	LCS	20		20	100	78 - 122		
Chloromethane	74-87-3	LCS	9.10		20	45.5	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	18.50		20	92.3	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	19.70		20	98.7	81 - 121		
Dibromomethane	74-95-3	LCS	19.30		20	96.5	81 - 125		
Dichlorodifluoromethane	75-71-8	LCS	7.50		20	37.4	17 - 166		
Diisopropyl ether	108-20-3	LCS	16.80		20	83.9	74 - 131		
Ethylbenzene	100-41-4	LCS	20.70		20	104	80 - 124		
Hexachlorobutadiene	87-68-3	LCS	23.80		20	119	55 - 128		
Methyl t-Butyl Ether	1634-04-4	LCS	20.20		20	101	69 - 115		
Methylene Chloride	75-09-2	LCS	18.50		20	92.3	76 - 121		
mp-Xylene	108383/106423	LCS	42.10		40	105	79 - 125		
Naphthalene	91-20-3	LCS	19.90		20	99.6	56 - 134		
o-Chlorotoluene	95-49-8	LCS	19.30		20	96.5	78 - 126		
o-Xylene	95-47-6	LCS	20		20	100	79 - 124		
p-Chlorotoluene	106-43-4	LCS	19.30		20	96.6	78 - 125		
p-Isopropyltoluene	99-87-6	LCS	19.90		20	99.6	72 - 123		
Styrene	100-42-5	LCS	20.40		20	102	79 - 123		
Tetrachloroethene	127-18-4	LCS	21		20	105	72 - 124		
Toluene	108-88-3	LCS	19.80		20	99	80 - 125		
Total Xylenes	1330-20-7	LCS	62.10		60	104	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	18.30		20	91.4	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	20.90		20	105	78 - 126		
Trichloroethene	79-01-6	LCS	19.50		20	97.3	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	19.10		20	95.5	38 - 123		



**QUALITY CONTROL SAMPLES**

**VOLATILE ORGANICS (cont.)**

*RESULTS*

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Vinyl Acetate	108-05-4	LCS	20.10		20	100	58 - 136		
Vinyl Chloride	75-01-4	LCS	12.60		20	62.9	27 - 138		

*SURROGATES*

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	32.70	30	109	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	31.40	30	105	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	31.20	30	104	78 - 116	
Toluene-d8	2037-26-5	LCS	30.10	30	100	76 - 127	

**Matrix Spike** 3831044 (MS) 3360622014 For QC Batch 1209901

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

**Matrix Spike Duplicate** 3831045 (MSD) 3360622014 For QC Batch 1209901

*RESULTS*

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	MS	22.90	0	20	114	78 - 121		
1,1,1,2-Tetrachloroethane	630-20-6	MSD	22.50	0	20	112	78 - 121	RPD <u>1.69</u> (Max-16)	
1,1,1-Trichloroethane	71-55-6	MS	25	2.50	20	112	66 - 130		
1,1,1-Trichloroethane	71-55-6	MSD	24	2.50	20	107	66 - 130	RPD <u>4.06</u> (Max-20)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	17.80	0	20	89.1	74 - 135		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	17	0	20	85.2	74 - 135	RPD <u>4.46</u> (Max-16)	
1,1,2-Trichloroethane	79-00-5	MS	19	0	20	94.8	82 - 126		
1,1,2-Trichloroethane	79-00-5	MSD	19.20	0	20	96.1	82 - 126	RPD <u>1.37</u> (Max-15)	
1,1-Dichloroethane	75-34-3	MS	23.70	5	20	93.5	78 - 124		
1,1-Dichloroethane	75-34-3	MSD	22.80	5	20	89.3	78 - 124	RPD <u>3.65</u> (Max-15)	
1,1-Dichloroethene	75-35-4	MS	38.30	19.50	20	93.7	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	35.80	19.50	20	81.4	63 - 128	RPD <u>6.65</u> (Max-21)	
1,1-Dichloropropene	563-58-6	MS	20.90	0	20	104	76 - 126		
1,1-Dichloropropene	563-58-6	MSD	20.10	0	20	101	76 - 126	RPD <u>3.68</u> (Max-16)	
1,2,3-Trichlorobenzene	87-61-6	MS	18.70	0	20	93.3	61 - 126		
1,2,3-Trichlorobenzene	87-61-6	MSD	18.30	0	20	91.3	61 - 126	RPD <u>2.10</u> (Max-36)	
1,2,3-Trichloropropane	96-18-4	MS	18.90	0	20	94.4	75 - 132		
1,2,3-Trichloropropane	96-18-4	MSD	18.10	0	20	90.5	75 - 132	RPD <u>4.31</u> (Max-19)	
1,2,4-Trichlorobenzene	120-82-1	MS	19.30	0	20	96.7	67 - 123		
1,2,4-Trichlorobenzene	120-82-1	MSD	18.50	0	20	92.6	67 - 123	RPD <u>4.41</u> (Max-22)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	16.40	0	20	82.2	59 - 133		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	16.40	0	20	82	59 - 133	RPD <u>0.31</u> (Max-26)	
1,2-Dibromoethane	106-93-4	MS	20.30	0	20	101	80 - 124		
1,2-Dibromoethane	106-93-4	MSD	20.30	0	20	102	80 - 124	RPD <u>0.31</u> (Max-19)	
1,2-Dichlorobenzene	95-50-1	MS	19.20	0	20	96.2	82 - 118		
1,2-Dichlorobenzene	95-50-1	MSD	18.30	0	20	91.5	82 - 118	RPD <u>5.01</u> (Max-15)	



QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2-Dichloroethane	107-06-2	MS	20.70	0	20	104	70 - 133		
1,2-Dichloroethane	107-06-2	MSD	20.70	0	20	103	70 - 133	RPD	<u>0.38</u> (Max-19)
1,2-Dichloropropane	78-87-5	MS	18.10	0	20	90.5	81 - 127		
1,2-Dichloropropane	78-87-5	MSD	17.70	0	20	88.4	81 - 127	RPD	<u>2.35</u> (Max-15)
1,3-Dichlorobenzene	541-73-1	MS	18.90	0	20	94.6	81 - 118		
1,3-Dichlorobenzene	541-73-1	MSD	18.10	0	20	90.5	81 - 118	RPD	<u>4.44</u> (Max-16)
1,3-Dichloropropane	142-28-9	MS	19	0	20	95.1	82 - 126		
1,3-Dichloropropane	142-28-9	MSD	19	0	20	95	82 - 126	RPD	<u>0.06</u> (Max-15)
1,4-Dichlorobenzene	106-46-7	MS	19.50	0	20	97.6	81 - 116		
1,4-Dichlorobenzene	106-46-7	MSD	18.60	0	20	93	81 - 116	RPD	<u>4.85</u> (Max-15)
2,2-Dichloropropane	594-20-7	MS	19	0	20	95.2	64 - 129		
2,2-Dichloropropane	594-20-7	MSD	18.10	0	20	90.5	64 - 129	RPD	<u>5.13</u> (Max-18)
2-Butanone	78-93-3	MS	89.40	0	100	89.4	50 - 152		
2-Butanone	78-93-3	MSD	86.30	0	100	86.3	50 - 152	RPD	<u>3.55</u> (Max-16)
2-Hexanone	591-78-6	MS	88.10	0	100	88.1	65 - 154		
2-Hexanone	591-78-6	MSD	87.20	0	100	87.2	65 - 154	RPD	<u>1.02</u> (Max-17)
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	86.50	0	100	86.5	71 - 146		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	87.60	0	100	87.6	71 - 146	RPD	<u>1.27</u> (Max-16)
Acetone	67-64-1	MS	82.60	0	100	82.6	40 - 151		
Acetone	67-64-1	MSD	84	0	100	84	40 - 151	RPD	<u>1.70</u> (Max-40)
Benzene	71-43-2	MS	20.20	0	20	101	80 - 124		
Benzene	71-43-2	MSD	19.60	0	20	97.8	80 - 124	RPD	<u>3.15</u> (Max-26)
Bromobenzene	108-86-1	MS	19.50	0	20	97.4	81 - 119		
Bromobenzene	108-86-1	MSD	18.50	0	20	92.7	81 - 119	RPD	<u>4.90</u> (Max-17)
Bromochloromethane	74-97-5	MS	21.90	0	20	110	73 - 117		
Bromochloromethane	74-97-5	MSD	21.50	0	20	107	73 - 117	RPD	<u>1.88</u> (Max-19)
Bromodichloromethane	75-27-4	MS	21.20	0	20	106	79 - 126		
Bromodichloromethane	75-27-4	MSD	21	0	20	105	79 - 126	RPD	<u>1.20</u> (Max-16)
Bromoform	75-25-2	MS	18.50	0	20	92.5	70 - 123		
Bromoform	75-25-2	MSD	18	0	20	89.9	70 - 123	RPD	<u>2.89</u> (Max-16)
Bromomethane	74-83-9	MS	15.60	0	20	78.1	45 - 148		
Bromomethane	74-83-9	MSD	18	0	20	90.2	45 - 148	RPD	<u>14.40</u> (Max-26)
Carbon Tetrachloride	56-23-5	MS	24.40	0	20	122	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	23	0	20	115	62 - 132	RPD	<u>6.22</u> (Max-17)
Chlorobenzene	108-90-7	MS	20.70	0	20	103	85 - 117		
Chlorobenzene	108-90-7	MSD	20.10	0	20	100	85 - 117	RPD	<u>2.84</u> (Max-15)
Chlorodibromomethane	124-48-1	MS	21.70	0	20	109	77 - 122		
Chlorodibromomethane	124-48-1	MSD	21.60	0	20	108	77 - 122	RPD	<u>0.54</u> (Max-15)
Chloroethane	75-00-3	MS	18.50	0	20	92.3	51 - 142		
Chloroethane	75-00-3	MSD	17.70	0	20	88.3	51 - 142	RPD	<u>4.44</u> (Max-24)
Chloroform	67-66-3	MS	20.90	0	20	105	78 - 122		
Chloroform	67-66-3	MSD	19.90	0	20	99.7	78 - 122	RPD	<u>4.82</u> (Max-16)
Chloromethane	74-87-3	MS	14.30	0	20	71.6	38 - 156		
Chloromethane	74-87-3	MSD	13.50	0	20	67.5	38 - 156	RPD	<u>5.89</u> (Max-27)
cis-1,2-Dichloroethene	156-59-2	MS	21	0	20	105	78 - 125		
cis-1,2-Dichloroethene	156-59-2	MSD	19.40	0	20	97.1	78 - 125	RPD	<u>7.87</u> (Max-21)
cis-1,3-Dichloropropene	10061-01-5	MS	18.70	0	20	93.6	81 - 121		
cis-1,3-Dichloropropene	10061-01-5	MSD	18.70	0	20	93.6	81 - 121	RPD	<u>0.01</u> (Max-16)
Dibromomethane	74-95-3	MS	19.40	0	20	96.9	81 - 125		



QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Dibromomethane	74-95-3	MSD	19.20	0	20	96	81 - 125	RPD <u>0.92</u> (Max-16)	
Dichlorodifluoromethane	75-71-8	MS	21.30	0	20	107	17 - 166		
Dichlorodifluoromethane	75-71-8	MSD	19.70	0	20	98.6	17 - 166	RPD <u>7.82</u> (Max-24)	
Diisopropyl ether	108-20-3	MS	17.10	0	20	85.4	74 - 131		
Diisopropyl ether	108-20-3	MSD	16.90	0	20	84.4	74 - 131	RPD <u>1.18</u> (Max-15)	
Ethylbenzene	100-41-4	MS	21.20	0	20	106	80 - 124		
Ethylbenzene	100-41-4	MSD	20.50	0	20	103	80 - 124	RPD <u>3.02</u> (Max-19)	
Hexachlorobutadiene	87-68-3	MS	20.40	0	20	102	55 - 128		
Hexachlorobutadiene	87-68-3	MSD	20.10	0	20	100	55 - 128	RPD <u>1.62</u> (Max-35)	
Methyl t-Butyl Ether	1634-04-4	MS	21.10	1.20	20	99.5	69 - 115		
Methyl t-Butyl Ether	1634-04-4	MSD	21	1.20	20	99.2	69 - 115	RPD <u>0.27</u> (Max-20)	
Methylene Chloride	75-09-2	MS	19.20	0	20	96.1	76 - 121		
Methylene Chloride	75-09-2	MSD	18.80	0	20	93.8	76 - 121	RPD <u>2.50</u> (Max-17)	
mp-Xylene	108383/106423	MS	42.70	0	40	107	79 - 125		
mp-Xylene	108383/106423	MSD	42	0	40	105	79 - 125	RPD <u>1.63</u> (Max-21)	
Naphthalene	91-20-3	MS	19.50	0	20	97.7	56 - 134		
Naphthalene	91-20-3	MSD	18.20	0	20	91	56 - 134	RPD <u>7.17</u> (Max-40)	
o-Chlorotoluene	95-49-8	MS	18.80	0	20	94.1	78 - 126		
o-Chlorotoluene	95-49-8	MSD	17.70	0	20	88.5	78 - 126	RPD <u>6.15</u> (Max-17)	
o-Xylene	95-47-6	MS	20.10	0	20	100	79 - 124		
o-Xylene	95-47-6	MSD	19.70	0	20	98.7	79 - 124	RPD <u>1.61</u> (Max-19)	
p-Chlorotoluene	106-43-4	MS	18	0	20	90.2	78 - 125		
p-Chlorotoluene	106-43-4	MSD	17	0	20	85.2	78 - 125	RPD <u>5.62</u> (Max-16)	
p-Isopropyltoluene	99-87-6	MS	18.90	0	20	94.5	72 - 123		
p-Isopropyltoluene	99-87-6	MSD	17.80	0	20	88.8	72 - 123	RPD <u>6.24</u> (Max-17)	
Styrene	100-42-5	MS	19.10	0	20	95.6	79 - 123		
Styrene	100-42-5	MSD	18.30	0	20	91.7	79 - 123	RPD <u>4.23</u> (Max-16)	
Tetrachloroethene	127-18-4	MS	20.90	0	20	104	72 - 124		
Tetrachloroethene	127-18-4	MSD	19.80	0	20	99	72 - 124	RPD <u>5.38</u> (Max-38)	
Toluene	108-88-3	MS	20.10	0	20	100	80 - 125		
Toluene	108-88-3	MSD	19.60	0	20	98.2	80 - 125	RPD <u>2.15</u> (Max-20)	
Total Xylenes	1330-20-7	MS	62.70	0	60	105	79 - 125		
Total Xylenes	1330-20-7	MSD	61.70	0	60	103	79 - 125	RPD <u>1.62</u> (Max-35)	
trans-1,2-Dichloroethene	156-60-5	MS	19.40	0	20	96.9	71 - 122		
trans-1,2-Dichloroethene	156-60-5	MSD	18.30	0	20	91.6	71 - 122	RPD <u>5.56</u> (Max-22)	
trans-1,3-Dichloropropene	10061-02-6	MS	19.70	0	20	98.5	78 - 126		
trans-1,3-Dichloropropene	10061-02-6	MSD	19.60	0	20	98.1	78 - 126	RPD <u>0.46</u> (Max-18)	
Trichloroethene	79-01-6	MS	20.60	0	20	103	77 - 124		
Trichloroethene	79-01-6	MSD	20.10	0	20	100	77 - 124	RPD <u>2.62</u> (Max-18)	
Trichlorofluoromethane	75-69-4	MS	23.20	0	20	116	38 - 123		
Trichlorofluoromethane	75-69-4	MSD	21.80	0	20	109	38 - 123	RPD <u>6.32</u> (Max-23)	
Vinyl Acetate	108-05-4	MS	17.10	0	20	85.7	58 - 136		
Vinyl Acetate	108-05-4	MSD	17.20	0	20	86.2	58 - 136	RPD <u>0.50</u> (Max-17)	
Vinyl Chloride	75-01-4	MS	19	0	20	95.1	27 - 138		
Vinyl Chloride	75-01-4	MSD	17.10	0	20	85.7	27 - 138	RPD <u>10.30</u> (Max-40)	



**QUALITY CONTROL SAMPLES**

**VOLATILE ORGANICS (cont.)**

*SURROGATES*

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	31.80	30	106	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	32.60	30	109	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	28.30	30	94.2	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	29.70	30	99.2	79 - 114	
Dibromofluoromethane	1868-53-7	MS	30.50	30	102	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	31.50	30	105	78 - 116	
Toluene-d8	2037-26-5	MS	28.10	30	93.8	76 - 127	
Toluene-d8	2037-26-5	MSD	30.50	30	102	76 - 127	

**QC Batch**

**Associated Samples**

QC Batch	1210272	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

3360622016	3360622017	3360622010	3360622011
3360622012	3360622013	3360622015	

**Lab Control Standard**

3831816 (LCS)

Created on 05/29/2024 12:49

For QC Batch 1210272

*RESULTS*

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	LCS	19.70		20	98.6	78 - 121		
1,1,1-Trichloroethane	71-55-6	LCS	21.80		20	109	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	21.70		20	108	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	19.60		20	97.9	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	22		20	110	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	24.80		20	124	63 - 128		
1,1-Dichloropropene	563-58-6	LCS	21.60		20	108	76 - 126		
1,2,3-Trichlorobenzene	87-61-6	LCS	18		20	89.8	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	20.70		20	104	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	18		20	90.2	67 - 123		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	16		20	80.1	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	19.40		20	96.8	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	19.10		20	95.7	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	21.60		20	108	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	21.70		20	109	81 - 127		
1,3-Dichlorobenzene	541-73-1	LCS	18.90		20	94.6	81 - 118		
1,3-Dichloropropane	142-28-9	LCS	19.40		20	97	82 - 126		
1,4-Dichlorobenzene	106-46-7	LCS	19.10		20	95.3	81 - 116		
2,2-Dichloropropane	594-20-7	LCS	22		20	110	64 - 129		
2-Butanone	78-93-3	LCS	103		100	103	50 - 152		
2-Hexanone	591-78-6	LCS	109		100	109	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	108		100	108	71 - 146		
Acetone	67-64-1	LCS	109		100	109	40 - 151		
Benzene	71-43-2	LCS	21.20		20	106	80 - 124		
Bromobenzene	108-86-1	LCS	19.70		20	98.5	81 - 119		



**QUALITY CONTROL SAMPLES**

**VOLATILE ORGANICS (cont.)**

*RESULTS*

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Bromochloromethane	74-97-5	LCS	20.90		20	105	73 - 117		
Bromodichloromethane	75-27-4	LCS	22.10		20	110	79 - 126		
Bromoform	75-25-2	LCS	17.40		20	87	70 - 123		
Bromomethane	74-83-9	LCS	21.90		20	110	45 - 148		
Carbon Tetrachloride	56-23-5	LCS	22.60		20	113	62 - 132		
Chlorobenzene	108-90-7	LCS	18.60		20	92.9	85 - 117		
Chlorodibromomethane	124-48-1	LCS	16.70		20	83.4	77 - 122		
Chloroethane	75-00-3	LCS	20.10		20	101	51 - 142		
Chloroform	67-66-3	LCS	21.90		20	109	78 - 122		
Chloromethane	74-87-3	LCS	19.70		20	98.3	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	21.90		20	110	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	20		20	99.8	81 - 121		
Dibromomethane	74-95-3	LCS	21.20		20	106	81 - 125		
Dichlorodifluoromethane	75-71-8	LCS	17.50		20	87.4	17 - 166		
Diisopropyl ether	108-20-3	LCS	23.30		20	117	74 - 131		
Ethylbenzene	100-41-4	LCS	19		20	95.1	80 - 124		
Hexachlorobutadiene	87-68-3	LCS	18.70		20	93.6	55 - 128		
Methyl t-Butyl Ether	1634-04-4	LCS	22.30		20	112	69 - 115		
Methylene Chloride	75-09-2	LCS	20.90		20	105	76 - 121		
mp-Xylene	108383/106423	LCS	37.40		40	93.4	79 - 125		
Naphthalene	91-20-3	LCS	19		20	94.8	56 - 134		
o-Chlorotoluene	95-49-8	LCS	20.80		20	104	78 - 126		
o-Xylene	95-47-6	LCS	18.30		20	91.4	79 - 124		
p-Chlorotoluene	106-43-4	LCS	20.90		20	104	78 - 125		
p-Isopropyltoluene	99-87-6	LCS	18.70		20	93.7	72 - 123		
Styrene	100-42-5	LCS	20.60		20	103	79 - 123		
Tetrachloroethene	127-18-4	LCS	19.30		20	96.6	72 - 124		
Toluene	108-88-3	LCS	18.80		20	94	80 - 125		
Total Xylenes	1330-20-7	LCS	55.60		60	92.7	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	22.10		20	111	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	20.30		20	102	78 - 126		
Trichloroethene	79-01-6	LCS	21.20		20	106	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	21.10		20	106	38 - 123		
Vinyl Acetate	108-05-4	LCS	19.40		20	96.8	58 - 136		
Vinyl Chloride	75-01-4	LCS	19.90		20	99.4	27 - 138		

*SURROGATES*

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	33.50	30	112	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	28.20	30	94	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	30.70	30	102	78 - 116	
Toluene-d8	2037-26-5	LCS	27.50	30	91.6	76 - 127	



QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

Method Blank 3831817 (MB) Created on 05/29/2024 12:49 For QC Batch 1210272

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	BLK	1.0 U	ug/L	1.0	U
1,1,1-Trichloroethane	71-55-6	BLK	1.0 U	ug/L	1.0	U
1,1,2,2-Tetrachloroethane	79-34-5	BLK	1.0 U	ug/L	1.0	U
1,1,2-Trichloroethane	79-00-5	BLK	1.0 U	ug/L	1.0	U
1,1-Dichloroethane	75-34-3	BLK	1.0 U	ug/L	1.0	U
1,1-Dichloroethene	75-35-4	BLK	1.0 U	ug/L	1.0	U
1,1-Dichloropropene	563-58-6	BLK	1.0 U	ug/L	1.0	U
1,2,3-Trichlorobenzene	87-61-6	BLK	2.0 U	ug/L	2.0	U
1,2,3-Trichloropropane	96-18-4	BLK	2.0 U	ug/L	2.0	U
1,2,4-Trichlorobenzene	120-82-1	BLK	2.0 U	ug/L	2.0	U
1,2-Dibromo-3-chloropropane	96-12-8	BLK	7.0 U	ug/L	7.0	U
1,2-Dibromoethane	106-93-4	BLK	1.0 U	ug/L	1.0	U
1,2-Dichlorobenzene	95-50-1	BLK	1.0 U	ug/L	1.0	U
1,2-Dichloroethane	107-06-2	BLK	1.0 U	ug/L	1.0	U
1,2-Dichloropropane	78-87-5	BLK	1.0 U	ug/L	1.0	U
1,3-Dichlorobenzene	541-73-1	BLK	1.0 U	ug/L	1.0	U
1,3-Dichloropropane	142-28-9	BLK	1.0 U	ug/L	1.0	U
1,4-Dichlorobenzene	106-46-7	BLK	1.0 U	ug/L	1.0	U
2,2-Dichloropropane	594-20-7	BLK	1.0 U	ug/L	1.0	U
2-Butanone	78-93-3	BLK	10.0 U	ug/L	10.0	U
2-Hexanone	591-78-6	BLK	5.0 U	ug/L	5.0	U
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	5.0 U	ug/L	5.0	U
Acetone	67-64-1	BLK	10.0 U	ug/L	10.0	U
Benzene	71-43-2	BLK	1.0 U	ug/L	1.0	U
Bromobenzene	108-86-1	BLK	1.0 U	ug/L	1.0	U
Bromochloromethane	74-97-5	BLK	1.0 U	ug/L	1.0	U
Bromodichloromethane	75-27-4	BLK	1.0 U	ug/L	1.0	U
Bromoform	75-25-2	BLK	1.0 U	ug/L	1.0	U
Bromomethane	74-83-9	BLK	1.0 U	ug/L	1.0	U
Carbon Tetrachloride	56-23-5	BLK	1.0 U	ug/L	1.0	U
Chlorobenzene	108-90-7	BLK	1.0 U	ug/L	1.0	U
Chlorodibromomethane	124-48-1	BLK	1.0 U	ug/L	1.0	U
Chloroethane	75-00-3	BLK	1.0 U	ug/L	1.0	U
Chloroform	67-66-3	BLK	1.0 U	ug/L	1.0	U
Chloromethane	74-87-3	BLK	1.0 U	ug/L	1.0	U
cis-1,2-Dichloroethene	156-59-2	BLK	1.0 U	ug/L	1.0	U
cis-1,3-Dichloropropene	10061-01-5	BLK	1.0 U	ug/L	1.0	U
Dibromomethane	74-95-3	BLK	1.0 U	ug/L	1.0	U
Dichlorodifluoromethane	75-71-8	BLK	1.0 U	ug/L	1.0	U
Diisopropyl ether	108-20-3	BLK	1.0 U	ug/L	1.0	U
Ethylbenzene	100-41-4	BLK	1.0 U	ug/L	1.0	U
Hexachlorobutadiene	87-68-3	BLK	5.0 U	ug/L	5.0	U
Methyl t-Butyl Ether	1634-04-4	BLK	1.0 U	ug/L	1.0	U
Methylene Chloride	75-09-2	BLK	1.0 U	ug/L	1.0	U
mp-Xylene	108383/106423	BLK	2.0 U	ug/L	2.0	U



**QUALITY CONTROL SAMPLES**

**VOLATILE ORGANICS (cont.)**

**RESULTS**

Compound	CAS No		Result	Units	RDL	Qualifiers
Naphthalene	91-20-3	BLK	2.0 U	ug/L	2.0	U
o-Chlorotoluene	95-49-8	BLK	1.0 U	ug/L	1.0	U
o-Xylene	95-47-6	BLK	1.0 U	ug/L	1.0	U
p-Chlorotoluene	106-43-4	BLK	1.0 U	ug/L	1.0	U
p-Isopropyltoluene	99-87-6	BLK	1.0 U	ug/L	1.0	U
Styrene	100-42-5	BLK	1.0 U	ug/L	1.0	U
Tetrachloroethene	127-18-4	BLK	1.0 U	ug/L	1.0	U
Toluene	108-88-3	BLK	1.0 U	ug/L	1.0	U
Total Xylenes	1330-20-7	BLK	3.0 U	ug/L	3.0	U
trans-1,2-Dichloroethene	156-60-5	BLK	1.0 U	ug/L	1.0	U
trans-1,3-Dichloropropene	10061-02-6	BLK	1.0 U	ug/L	1.0	U
Trichloroethene	79-01-6	BLK	1.0 U	ug/L	1.0	U
Trichlorofluoromethane	75-69-4	BLK	1.0 U	ug/L	1.0	U
Vinyl Acetate	108-05-4	BLK	5.0 U	ug/L	5.0	U
Vinyl Chloride	75-01-4	BLK	1.0 U	ug/L	1.0	U

**SURROGATES**

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	31.40	30	105	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	27.40	30	91.4	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	28	30	93.3	78 - 116	
Toluene-d8	2037-26-5	BLK	27.90	30	93.1	76 - 127	

**Matrix Spike** 3831901 (MS) 3360622012 For QC Batch 1210272

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

**Matrix Spike Duplicate** 3831902 (MSD) 3360622012 For QC Batch 1210272

**RESULTS**

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	MS	20.40	0	20	102	78 - 121		
1,1,1,2-Tetrachloroethane	630-20-6	MSD	19.50	0	20	97.6	78 - 121	RPD <u>4.17</u> (Max-16)	
1,1,1-Trichloroethane	71-55-6	MS	23.70	0	20	118	66 - 130		
1,1,1-Trichloroethane	71-55-6	MSD	22.50	0	20	113	66 - 130	RPD <u>4.95</u> (Max-20)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	22.50	0	20	113	74 - 135		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	22.60	0	20	113	74 - 135	RPD <u>0.09</u> (Max-16)	
1,1,2-Trichloroethane	79-00-5	MS	20.90	0	20	104	82 - 126		
1,1,2-Trichloroethane	79-00-5	MSD	19.60	0	20	98.2	82 - 126	RPD <u>6.15</u> (Max-15)	
1,1-Dichloroethane	75-34-3	MS	24.80	0.41	20	122	78 - 124		
1,1-Dichloroethane	75-34-3	MSD	23.40	0.41	20	115	78 - 124	RPD <u>5.88</u> (Max-15)	
1,1-Dichloroethene	75-35-4	MS	40.20	13.20	20	135*	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	38.10	13.20	20	125	63 - 128	RPD <u>5.52</u> (Max-21)	
1,1-Dichloropropene	563-58-6	MS	23.50	0	20	117	76 - 126		



**QUALITY CONTROL SAMPLES**

**VOLATILE ORGANICS (cont.)**

*RESULTS*

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1-Dichloropropene	563-58-6	MSD	22.10	0	20	111	76 - 126	RPD <u>5.98</u> (Max-16)	
1,2,3-Trichlorobenzene	87-61-6	MS	18.50	0	20	92.7	61 - 126		
1,2,3-Trichlorobenzene	87-61-6	MSD	18.40	0	20	92	61 - 126	RPD <u>0.78</u> (Max-36)	
1,2,3-Trichloropropane	96-18-4	MS	20.80	0	20	104	75 - 132		
1,2,3-Trichloropropane	96-18-4	MSD	22	0	20	110	75 - 132	RPD <u>5.80</u> (Max-19)	
1,2,4-Trichlorobenzene	120-82-1	MS	17.80	0	20	89.1	67 - 123		
1,2,4-Trichlorobenzene	120-82-1	MSD	17.20	0	20	86.1	67 - 123	RPD <u>3.40</u> (Max-22)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	17.40	0	20	86.9	59 - 133		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	17.90	0	20	89.7	59 - 133	RPD <u>3.24</u> (Max-26)	
1,2-Dibromoethane	106-93-4	MS	20	0	20	100	80 - 124		
1,2-Dibromoethane	106-93-4	MSD	19	0	20	95.2	80 - 124	RPD <u>5.14</u> (Max-19)	
1,2-Dichlorobenzene	95-50-1	MS	19.90	0	20	99.5	82 - 118		
1,2-Dichlorobenzene	95-50-1	MSD	19.30	0	20	96.4	82 - 118	RPD <u>3.14</u> (Max-15)	
1,2-Dichloroethane	107-06-2	MS	23.20	0	20	116	70 - 133		
1,2-Dichloroethane	107-06-2	MSD	22.10	0	20	111	70 - 133	RPD <u>4.84</u> (Max-19)	
1,2-Dichloropropane	78-87-5	MS	23.70	0	20	119	81 - 127		
1,2-Dichloropropane	78-87-5	MSD	22.40	0	20	112	81 - 127	RPD <u>5.44</u> (Max-15)	
1,3-Dichlorobenzene	541-73-1	MS	19.50	0	20	97.3	81 - 118		
1,3-Dichlorobenzene	541-73-1	MSD	19.10	0	20	95.6	81 - 118	RPD <u>1.74</u> (Max-16)	
1,3-Dichloropropane	142-28-9	MS	20.90	0	20	104	82 - 126		
1,3-Dichloropropane	142-28-9	MSD	19.70	0	20	98.5	82 - 126	RPD <u>5.91</u> (Max-15)	
1,4-Dichlorobenzene	106-46-7	MS	19.50	0	20	97.5	81 - 116		
1,4-Dichlorobenzene	106-46-7	MSD	19.40	0	20	96.9	81 - 116	RPD <u>0.71</u> (Max-15)	
2,2-Dichloropropane	594-20-7	MS	23.40	0	20	117	64 - 129		
2,2-Dichloropropane	594-20-7	MSD	21.80	0	20	109	64 - 129	RPD <u>7.05</u> (Max-18)	
2-Butanone	78-93-3	MS	116	0	100	116	50 - 152		
2-Butanone	78-93-3	MSD	116	0	100	116	50 - 152	RPD <u>0.09</u> (Max-16)	
2-Hexanone	591-78-6	MS	115	0	100	115	65 - 154		
2-Hexanone	591-78-6	MSD	112	0	100	112	65 - 154	RPD <u>2.42</u> (Max-17)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	118	0	100	118	71 - 146		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	114	0	100	114	71 - 146	RPD <u>3.19</u> (Max-16)	
Acetone	67-64-1	MS	101	0	100	101	40 - 151		
Acetone	67-64-1	MSD	103	0	100	103	40 - 151	RPD <u>2.37</u> (Max-40)	
Benzene	71-43-2	MS	23.20	0	20	116	80 - 124		
Benzene	71-43-2	MSD	22	0	20	110	80 - 124	RPD <u>5.37</u> (Max-26)	
Bromobenzene	108-86-1	MS	20.60	0	20	103	81 - 119		
Bromobenzene	108-86-1	MSD	20.70	0	20	103	81 - 119	RPD <u>0.34</u> (Max-17)	
Bromochloromethane	74-97-5	MS	22.80	0	20	114	73 - 117		
Bromochloromethane	74-97-5	MSD	21.80	0	20	109	73 - 117	RPD <u>4.51</u> (Max-19)	
Bromodichloromethane	75-27-4	MS	23.10	0	20	116	79 - 126		
Bromodichloromethane	75-27-4	MSD	22.10	0	20	110	79 - 126	RPD <u>4.80</u> (Max-16)	
Bromoform	75-25-2	MS	17.50	0	20	87.3	70 - 123		
Bromoform	75-25-2	MSD	18	0	20	90.2	70 - 123	RPD <u>3.25</u> (Max-16)	
Bromomethane	74-83-9	MS	24.20	0	20	121	45 - 148		
Bromomethane	74-83-9	MSD	23.70	0	20	118	45 - 148	RPD <u>2.36</u> (Max-26)	
Carbon Tetrachloride	56-23-5	MS	28.20	0	20	141*	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	26.90	0	20	134*	62 - 132	RPD <u>4.74</u> (Max-17)	
Chlorobenzene	108-90-7	MS	19.50	0	20	97.6	85 - 117		
Chlorobenzene	108-90-7	MSD	18.30	0	20	91.3	85 - 117	RPD <u>6.75</u> (Max-15)	



QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chlorodibromomethane	124-48-1	MS	17.20	0	20	86.2	77 - 122		
Chlorodibromomethane	124-48-1	MSD	16.70	0	20	83.3	77 - 122	RPD	<u>3.51</u> (Max-15)
Chloroethane	75-00-3	MS	23.10	0	20	116	51 - 142		
Chloroethane	75-00-3	MSD	21.80	0	20	109	51 - 142	RPD	<u>5.98</u> (Max-24)
Chloroform	67-66-3	MS	23.60	0	20	118	78 - 122		
Chloroform	67-66-3	MSD	22.30	0	20	112	78 - 122	RPD	<u>5.69</u> (Max-16)
Chloromethane	74-87-3	MS	21.70	0	20	108	38 - 156		
Chloromethane	74-87-3	MSD	20.30	0	20	101	38 - 156	RPD	<u>6.72</u> (Max-27)
cis-1,2-Dichloroethene	156-59-2	MS	24	0	20	120	78 - 125		
cis-1,2-Dichloroethene	156-59-2	MSD	22.50	0	20	112	78 - 125	RPD	<u>6.50</u> (Max-21)
cis-1,3-Dichloropropene	10061-01-5	MS	21.20	0	20	106	81 - 121		
cis-1,3-Dichloropropene	10061-01-5	MSD	20	0	20	99.8	81 - 121	RPD	<u>6.20</u> (Max-16)
Dibromomethane	74-95-3	MS	21.80	0	20	109	81 - 125		
Dibromomethane	74-95-3	MSD	21.30	0	20	106	81 - 125	RPD	<u>2.51</u> (Max-16)
Dichlorodifluoromethane	75-71-8	MS	20.10	0	20	101	17 - 166		
Dichlorodifluoromethane	75-71-8	MSD	18.90	0	20	94.6	17 - 166	RPD	<u>6.20</u> (Max-24)
Diisopropyl ether	108-20-3	MS	25.50	0	20	127	74 - 131		
Diisopropyl ether	108-20-3	MSD	24.50	0	20	122	74 - 131	RPD	<u>4.12</u> (Max-15)
Ethylbenzene	100-41-4	MS	20.80	0	20	104	80 - 124		
Ethylbenzene	100-41-4	MSD	18.90	0	20	94.7	80 - 124	RPD	<u>9.48</u> (Max-19)
Hexachlorobutadiene	87-68-3	MS	16.80	0	20	84.1	55 - 128		
Hexachlorobutadiene	87-68-3	MSD	17.30	0	20	86.7	55 - 128	RPD	<u>3.14</u> (Max-35)
Methyl t-Butyl Ether	1634-04-4	MS	23.50	0	20	117*	69 - 115		
Methyl t-Butyl Ether	1634-04-4	MSD	22.80	0	20	114	69 - 115	RPD	<u>3.11</u> (Max-20)
Methylene Chloride	75-09-2	MS	22.90	0	20	115	76 - 121		
Methylene Chloride	75-09-2	MSD	21.60	0	20	108	76 - 121	RPD	<u>5.79</u> (Max-17)
mp-Xylene	108383/106423	MS	39.80	0	40	99.4	79 - 125		
mp-Xylene	108383/106423	MSD	37	0	40	92.6	79 - 125	RPD	<u>7.12</u> (Max-21)
Naphthalene	91-20-3	MS	19.80	0	20	99	56 - 134		
Naphthalene	91-20-3	MSD	20	0	20	100	56 - 134	RPD	<u>1</u> (Max-40)
o-Chlorotoluene	95-49-8	MS	21.70	0	20	108	78 - 126		
o-Chlorotoluene	95-49-8	MSD	21.10	0	20	105	78 - 126	RPD	<u>2.85</u> (Max-17)
o-Xylene	95-47-6	MS	19.60	0	20	98	79 - 124		
o-Xylene	95-47-6	MSD	18.40	0	20	91.8	79 - 124	RPD	<u>6.56</u> (Max-19)
p-Chlorotoluene	106-43-4	MS	21.40	0	20	107	78 - 125		
p-Chlorotoluene	106-43-4	MSD	20.90	0	20	105	78 - 125	RPD	<u>2.27</u> (Max-16)
p-Isopropyltoluene	99-87-6	MS	19	0	20	95	72 - 123		
p-Isopropyltoluene	99-87-6	MSD	18.60	0	20	93.2	72 - 123	RPD	<u>1.85</u> (Max-17)
Styrene	100-42-5	MS	22.30	0	20	111	79 - 123		
Styrene	100-42-5	MSD	21.40	0	20	107	79 - 123	RPD	<u>4.06</u> (Max-16)
Tetrachloroethene	127-18-4	MS	18.70	0	20	93.3	72 - 124		
Tetrachloroethene	127-18-4	MSD	17.60	0	20	88.1	72 - 124	RPD	<u>5.78</u> (Max-38)
Toluene	108-88-3	MS	20.80	0	20	104	80 - 125		
Toluene	108-88-3	MSD	19.10	0	20	95.7	80 - 125	RPD	<u>8.28</u> (Max-20)
Total Xylenes	1330-20-7	MS	59.40	0	60	99	79 - 125		
Total Xylenes	1330-20-7	MSD	55.40	0	60	92.3	79 - 125	RPD	<u>6.94</u> (Max-35)
trans-1,2-Dichloroethene	156-60-5	MS	24	0	20	120	71 - 122		
trans-1,2-Dichloroethene	156-60-5	MSD	23.30	0	20	116	71 - 122	RPD	<u>3.08</u> (Max-22)



QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
trans-1,3-Dichloropropene	10061-02-6	MS	21.80	0	20	109	78 - 126		
trans-1,3-Dichloropropene	10061-02-6	MSD	20.80	0	20	104	78 - 126	RPD	5.03 (Max-18)
Trichloroethene	79-01-6	MS	22.80	0	20	114	77 - 124		
Trichloroethene	79-01-6	MSD	21.30	0	20	106	77 - 124	RPD	6.92 (Max-18)
Trichlorofluoromethane	75-69-4	MS	24.50	0	20	122	38 - 123		
Trichlorofluoromethane	75-69-4	MSD	23.10	0	20	116	38 - 123	RPD	5.79 (Max-23)
Vinyl Acetate	108-05-4	MS	17.50	0	20	87.5	58 - 136		
Vinyl Acetate	108-05-4	MSD	17.60	0	20	88.1	58 - 136	RPD	0.69 (Max-17)
Vinyl Chloride	75-01-4	MS	23.20	0	20	116	27 - 138		
Vinyl Chloride	75-01-4	MSD	21	0	20	105	27 - 138	RPD	9.81 (Max-40)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	34.10	30	114	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	32.70	30	109	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	26.90	30	89.6	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	30.60	30	102	79 - 114	
Dibromofluoromethane	1868-53-7	MS	30.50	30	102	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	30.20	30	101	78 - 116	
Toluene-d8	2037-26-5	MS	27.30	30	91.2	76 - 127	
Toluene-d8	2037-26-5	MSD	27.70	30	92.2	76 - 127	



**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3360622001	MW-35D	SW846 3510C N/A	1207926 N/A	05/23/2024 09:45 N/A	MJA	SW846 8270E SIM SW846 8260D	1209058 1209901
3360622002	MW-34D	SW846 3510C N/A	1207926 N/A	05/23/2024 09:45 N/A	MJA	SW846 8270E SIM SW846 8260D	1209058 1209901
3360622003	MW-33D-295	SW846 3510C N/A	1207926 N/A	05/23/2024 09:45 N/A	MJA	SW846 8270E SIM SW846 8260D	1209058 1209901
3360622004	MW-33D-235	SW846 3510C N/A	1207926 N/A	05/23/2024 09:45 N/A	MJA	SW846 8270E SIM SW846 8260D	1209058 1209901
3360622005	MW-30D-413	SW846 3510C N/A	1207926 N/A	05/23/2024 09:45 N/A	MJA	SW846 8270E SIM SW846 8260D	1209058 1209901
3360622006	MW-30D-273	SW846 3510C N/A	1207926 N/A	05/23/2024 09:45 N/A	MJA	SW846 8270E SIM SW846 8260D	1209058 1209901
3360622007	MW-29D	SW846 3510C N/A	1207926 N/A	05/23/2024 09:45 N/A	MJA	SW846 8270E SIM SW846 8260D	1209058 1209901
3360622008	MW-45	SW846 3510C N/A	1207926 N/A	05/23/2024 09:45 N/A	MJA	SW846 8270E SIM SW846 8260D	1209058 1209901
3360622009	Trip Blank C	N/A	N/A	N/A		SW846 8260D	1209901
3360622010	MW-24D	SW846 3510C N/A	1207926 N/A	05/23/2024 09:45 N/A	MJA	SW846 8270E SIM SW846 8260D	1209058 1210272
3360622011	MW-32D	SW846 3510C N/A	1207926 N/A	05/23/2024 09:45 N/A	MJA	SW846 8270E SIM SW846 8260D	1209058 1210272
3360622012	MW-28D	SW846 3510C N/A	1207926 N/A	05/23/2024 09:45 N/A	MJA	SW846 8270E SIM SW846 8260D	1209058 1210272
3360622013	MW-25D-130	SW846 3510C N/A	1207926 N/A	05/23/2024 09:45 N/A	MJA	SW846 8270E SIM SW846 8260D	1209058 1210272
3360622014	MW-25D-190	SW846 3510C N/A	1207926 N/A	05/23/2024 09:45 N/A	MJA	SW846 8270E SIM SW846 8260D	1209058 1209901
3360622015	MW-36D	SW846 3510C N/A	1207926 N/A	05/23/2024 09:45 N/A	MJA	SW846 8270E SIM SW846 8260D	1209058 1210272
3360622016	Trip Blank-D	N/A	N/A	N/A		SW846 8260D	1210272
3360622017	MW-200	SW846 3510C N/A	1207926 N/A	05/23/2024 09:45 N/A	MJA	SW846 8270E SIM SW846 8260D	1209058 1210272





301 Fulling Mill Rd, Suite A  
Middletown, PA 17057  
P. 717-944-5541

**CHAIN OF CUSTODY/  
REQUEST FOR ANALYSIS**  
**ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /  
SAMPLER. INSTRUCTIONS ON THE BACK.**

COC #: 2 of 2 3360622 of  
ALS Quote #:

Client Name: WSP USA		Container Type	C6	AG	Yes	No	Hexavalent Chromium Filtered?	Yes	No
Address: 13530 Dulles Technology Dr Suite 300 Herndon VA 20171		Container Size	40	750					
Contact: Eric Johnson		Preservative	HCl	NA					
Phone#:		Orthophosphate Filtered?							
Project Name#:		ANALYSIS / METHOD REQUESTED							
Bill To:		Enter Number of Containers Per Sample or Field Results Below.							
Purchase Order #:		SDWA Sample Type (see key)	8370 1/4 Dioxane						
TAT <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days. <input type="checkbox"/> Rush-Subject to ALS approval and surcharges.		**Matrix (See bottom of COC)	VOC, EPA 8360						
Date Required: <input type="checkbox"/> Approved?		SDWA Sample Type (see key)	8370 1/4 Dioxane						
Email? <input type="checkbox"/>		SDWA Sample Type (see key)	8370 1/4 Dioxane						
Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	Enter Number of Containers Per Sample or Field Results Below.						
1 MW-240	5/20/24	1305	60W X 2X						
2 MW-320	5/20/24	1330	60W X 2X						
3 NW-280	5/20/24	1350	60W X 2						
4 MW-250-130	5/20/24	1415	60W X 5						
5 MW-250-190	5/20/24	1420	60W X 5						
6 MW-360	5/20/24	1500	60W X 7X						
7 Trip Blank - D	5/20/24								
8									
9									
10									

Temp Taken By: \_\_\_\_\_ Therm ID: \_\_\_\_\_ WO Temp (°C) \_\_\_\_\_  
 Receipt Info completed by: \_\_\_\_\_ WV Containers 0-6°C Y N NA  
 Cooler Custody Seals Intact Y N NA Deviations? NO YES  
 Sample Custody Seal Intact Y N NA If YES, list below  
 Received on Ice Y N NA  
 Coolers & Samples Intact Y N NA  
 Correct Containers Provided Y N NA  
 Sample Label/COC Agree Y N NA  
 Adequate Sample Volumes Y N NA  
 VOA only: Trip Blank Y N NA  
 NJ ≤ 4 days? Y N NA  
 Courier/Tracking # \_\_\_\_\_ Client contact: \_\_\_\_\_  
 (Date/Facil)  
 Sample(s) for Radiation testing? Y N Rad Screen (uCi) \_\_\_\_\_  
 Reportable SDWA Sample(s)? Y N New Source? Y N  
 SDWA State of Origin? \_\_\_\_\_ New Source Contact: \_\_\_\_\_  
 PWSID # \_\_\_\_\_  
 PWS Contact: \_\_\_\_\_ PWS Phone #: \_\_\_\_\_  
 SDWA Sample Type Key: D=Distribution E=Entry Point  
 R=Raw P=Plant C=Check S=Special A=Annual Startup  
 Sample/COC Remarks \_\_\_\_\_  
 Contains Short Hold Testing YES NO  
 Internal Use: if less than 48 hours - notify lab upon receipt  
 State Samples Collected In: HSCA \_\_\_\_\_ NY \_\_\_\_\_  
 Landfill \_\_\_\_\_ NJ \_\_\_\_\_  
 NJ/GW \_\_\_\_\_ PA \_\_\_\_\_  
 WW \_\_\_\_\_ FL \_\_\_\_\_  
 other \_\_\_\_\_  
 Standard LW 1 \_\_\_\_\_ CLP-like \_\_\_\_\_  
 Standard LW 2 \_\_\_\_\_ DOD \_\_\_\_\_  
 Standard LW 3 \_\_\_\_\_ NJ RED \_\_\_\_\_  
 Standard LW 4 \_\_\_\_\_ NJ Full \_\_\_\_\_  
 Excel Summary \_\_\_\_\_ Sample Disposal \_\_\_\_\_  
 Equis \_\_\_\_\_ Lab \_\_\_\_\_  
 Custom \_\_\_\_\_ Special \_\_\_\_\_  
 EDDS: \_\_\_\_\_ Format Type \_\_\_\_\_  
 EDDS: \_\_\_\_\_  
 \*G=Grab, C=Composite \*\*Matrix - A=Air, D=Drinking Water, GW=Groundwater, O=Oil, LW=Liquid Waste, S=Solid/Soil/Sludge, SW=Surface Water, WP=Wipe, WW=Wastewater  
 ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Suite A, Middletown, PA 17057  
 5/31/2024 1:40 PM  
 Rev 07.06.2023



ENCLOSURE B - CERTIFIED LABORATORY ANALYTICAL REPORT FOR  
MONITORING WELL MW-31D AND MW-46D SAMPLES (JUNE 2024)



Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | [www.alsglobal.com](http://www.alsglobal.com)  
 Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 | Fax: 717-944-1430 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618  
 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For

**WSP USA Inc.**

Project KOP-Flex Offsite 31405608.011  
 Workorder 3364481  
 Report ID 331780 on 6/26/2024

### Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Jun 14, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Susan Scherer (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at [www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads](http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads).

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.  
 ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):  
 Elliott Martynkiewicz - WSP USA Inc.  
 Eric Johnson - WSP USA INC

*Susan Scherer*

**Susan Scherer**  
 Project Coordinator

(ALS Digital Signature)

*This page is included as part of the Analytical Report and must be retained as a permanent record thereof.*



## Sample Summary

<u>Lab ID</u>	<u>Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>	<u>Collector</u>	<u>Collection Company</u>
3364481001	MW-31D	Ground Water	06/13/2024 15:30	06/14/2024 08:45		WSP USA Inc.
3364481002	MW-46D	Ground Water	06/12/2024 16:25	06/14/2024 08:45		WSP USA Inc.



## Reference

### Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  - EPA 300.1 Rev. 1.0-1997
  - EPA 300.0 Rev. 2.1-1993
  - EPA 353.2 Rev. 2.0-1993
  - EPA 410.4 Rev. 1.0-1993
  - EPA 420.4 Rev. 1.0-1993
  - EPA 365.1 Rev. 2.0-1993
  - EPA 200.7 Rev. 4.4-1994
  - EPA 200.8 Rev. 5.4-1994
  - EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

### Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.



**Project** KOP-Flex Offsite 31405608.011  
**Workorder** 3364481

**Project Notations**

**Sample Notations**

**Lab ID**      **Sample ID**

**Result Notations**

**Notation Ref.**

1      Bromomethane recovery from the 8260D calibration verification standard was 122%.  
Control limits are 80 to 120%.



### Detected Results Summary

Client Sample ID MW-46D Collected 06/12/2024 16:25  
Lab Sample ID 3364481002 Lab Receipt 06/14/2024 08:45

Compound	Result	Units	RDL	Method	Flag
<b>SEMIVOLATILE SIM</b>					
1,4-Dioxane	30.2	ug/L	5.0	SW846 8270E SIM	#
<b>VOLATILE ORGANICS</b>					
1,1,1-Trichloroethane	2.4	ug/L	1.0	SW846 8260D	#
1,1-Dichloroethane	16.4	ug/L	1.0	SW846 8260D	#
1,1-Dichloroethene	65.9	ug/L	1.0	SW846 8260D	#



## Results

Client Sample ID	MW-31D	Collected	06/13/2024 15:30
Lab Sample ID	3364481001	Lab Receipt	06/14/2024 08:45

### SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	1.0 U	U	ug/L	1.0	SW846 8270E SIM	1	06/23/2024 04:00	M1O	C

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnaphthalene-d10	7297-45-2	90.3%	29 - 112	06/23/2024 04:00	
Fluoranthene-d10	93951-69-0	95.8%	45 - 130	06/23/2024 04:00	

### VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
1,1-Dichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
1,1-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
1,1-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
1,2,3-Trichloropropane	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
1,2-Dibromo-3-chloropropane	7.0 U	U	ug/L	7.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
1,3-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
2,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
2-Butanone	10.0 U	U	ug/L	10.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
2-Hexanone	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
Acetone	10.0 U	U	ug/L	10.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
Benzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
Bromobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
Bromochloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
Bromoform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
Bromomethane	1.0 U	U,1	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
Chlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
Chloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
Chloroform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
Chloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A



## Results

Client Sample ID	MW-31D	Collected	06/13/2024 15:30
Lab Sample ID	3364481001	Lab Receipt	06/14/2024 08:45

### VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
Dibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
Dichlorodifluoromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
Diisopropyl ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
Ethylbenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
Hexachlorobutadiene	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
Methylene Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
mp-Xylene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
Naphthalene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
o-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
o-Xylene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
p-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
p-Isopropyltoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
Styrene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
Toluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
Total Xylenes	3.0 U	U	ug/L	3.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
Trichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
Trichlorofluoromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
Vinyl Acetate	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/22/2024 14:10	TMP	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:10	TMP	A

### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	112%	62 - 133	06/22/2024 14:10	
4-Bromofluorobenzene	460-00-4	107%	79 - 114	06/22/2024 14:10	
Dibromofluoromethane	1868-53-7	102%	78 - 116	06/22/2024 14:10	
Toluene-d8	2037-26-5	101%	76 - 127	06/22/2024 14:10	



## Results

Client Sample ID	MW-46D	Collected	06/12/2024 16:25
Lab Sample ID	3364481002	Lab Receipt	06/14/2024 08:45

### SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	30.2		ug/L	5.0	SW846 8270E SIM	5	06/23/2024 12:16	CGS	C

### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnaphthalene-d10	7297-45-2	63.2%	29 – 112	06/23/2024 03:05	
2-Methylnaphthalene-d10	7297-45-2	61.4%	29 – 112	06/23/2024 12:16	
Fluoranthene-d10	93951-69-0	59.2%	45 – 130	06/23/2024 03:05	
Fluoranthene-d10	93951-69-0	60.7%	45 – 130	06/23/2024 12:16	

### VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
1,1,1-Trichloroethane	2.4		ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
1,1-Dichloroethane	16.4		ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
1,1-Dichloroethene	65.9		ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
1,1-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
1,2,3-Trichloropropane	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
1,2-Dibromo-3-chloropropane	7.0 U	U	ug/L	7.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
1,3-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
2,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
2-Butanone	10.0 U	U	ug/L	10.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
2-Hexanone	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
Acetone	10.0 U	U	ug/L	10.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
Benzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
Bromobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
Bromochloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
Bromoform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
Bromomethane	1.0 U	U,1	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
Chlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
Chloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A



## Results

Client Sample ID	MW-46D	Collected	06/12/2024 16:25
Lab Sample ID	3364481002	Lab Receipt	06/14/2024 08:45

### VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
Chloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
Dibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
Dichlorodifluoromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
Diisopropyl ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
Ethylbenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
Hexachlorobutadiene	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
Methylene Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
mp-Xylene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
Naphthalene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
o-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
o-Xylene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
p-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
p-Isopropyltoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
Styrene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
Toluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
Total Xylenes	3.0 U	U	ug/L	3.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
Trichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
Trichlorofluoromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
Vinyl Acetate	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/22/2024 14:30	TMP	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/22/2024 14:30	TMP	A

### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	62 - 133	06/22/2024 14:30	
4-Bromofluorobenzene	460-00-4	96.8%	79 - 114	06/22/2024 14:30	
Dibromofluoromethane	1868-53-7	98.1%	78 - 116	06/22/2024 14:30	
Toluene-d8	2037-26-5	97.1%	76 - 127	06/22/2024 14:30	



### Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3364481001	MW-31D	SW846 8270E SIM	SW846 3510C	
		SW846 8260D	N/A	
3364481002	MW-46D	SW846 8270E SIM	SW846 3510C	
		SW846 8260D	N/A	



**QUALITY CONTROL SAMPLES**

**SEMIVOLATILE SIM**

QC Batch			
QC Batch	1224338	Prep Method	SW846 3510C
Date	06/19/2024 16:10	Analysis Method	SW846 8270E SIM
Tech.	BMP		

Associated Samples	
3364481001	3364481002

**Method Blank** 3841679 (MB) Created on 06/19/2024 14:34 For QC Batch 1224338

**RESULTS**

Compound	CAS No	Result	Units	RDL	Qualifiers
1,4-Dioxane	123-91-1	BLK	1.0 U ug/L	1.0	U

**SURROGATES**

Compound	CAS No	Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2-Methylnaphthalene-d10	7297-45-2	BLK 0.72	1	72.2	29 - 112	
Fluoranthene-d10	93951-69-0	BLK 0.90	1	89.9	45 - 130	

**Lab Control Standard** 3841680 (LCS) Created on 06/19/2024 14:34 For QC Batch 1224338

**RESULTS**

Compound	CAS No	Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,4-Dioxane	123-91-1	LCS 0.57		1	57.5	22 - 75		U

**SURROGATES**

Compound	CAS No	Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2-Methylnaphthalene-d10	7297-45-2	LCS 0.75	1	74.6	29 - 112	
Fluoranthene-d10	93951-69-0	LCS 0.95	1	95.1	45 - 130	

**Matrix Spike** 3841681 (MS) 3364481002 For QC Batch 1224338

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

**RESULTS**

Compound	CAS No	Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,4-Dioxane	123-91-1	MS 33.90	30.20	1	NC	22 - 75		

**SURROGATES**

Compound	CAS No	Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2-Methylnaphthalene-d10	7297-45-2	MS 0.83	1	82.6	29 - 112	



**QUALITY CONTROL SAMPLES**

**SEMIVOLATILE SIM (cont.)**

*SURROGATES*

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Fluoranthene-d10	93951-69-0	MS	0.91	1	91.1	45 - 130	

**Duplicate** 3841682 (DUP) 3364481001 For QC Batch 1224338

\*\*\*\*NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

*RESULTS*

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)		Qualifiers
1,4-Dioxane	123-91-1	DUP	0.0596	0.0579	RPD 2.75 (Max-30)	U

*SURROGATES*

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2-Methylnapthalene-d10	7297-45-2	DUP	0.77	1	76.6	29 - 112	
Fluoranthene-d10	93951-69-0	DUP	0.97	1	96.8	45 - 130	



**QUALITY CONTROL SAMPLES**

**VOLATILE ORGANICS**

QC Batch		Prep Method	
QC Batch	1228213	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples	
3364481001	3364481002

**Matrix Spike** 3843099 (MS) 3364169005 (non-Project Sample) For QC Batch 1228213

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

**Matrix Spike Duplicate** 3843100 (MSD) 3364169005 (non-Project Sample) For QC Batch 1228213

**RESULTS**

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	MS	19.80	0	20	98.8	78 - 121		
1,1,1,2-Tetrachloroethane	630-20-6	MSD	18.30	0	20	91.6	78 - 121	RPD <u>7.55</u>	(Max-16)
1,1,1-Trichloroethane	71-55-6	MS	20.80	0	20	104	66 - 130		
1,1,1-Trichloroethane	71-55-6	MSD	18.40	0	20	91.9	66 - 130	RPD <u>12.60</u>	(Max-20)
1,1,2,2-Tetrachloroethane	79-34-5	MS	23.70	0	20	118	74 - 135		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	21.10	0	20	105	74 - 135	RPD <u>11.60</u>	(Max-16)
1,1,2-Trichloroethane	79-00-5	MS	20.90	0	20	105	82 - 126		
1,1,2-Trichloroethane	79-00-5	MSD	19.60	0	20	98.1	82 - 126	RPD <u>6.54</u>	(Max-15)
1,1-Dichloroethane	75-34-3	MS	21.20	0	20	106	78 - 124		
1,1-Dichloroethane	75-34-3	MSD	18.60	0	20	93.1	78 - 124	RPD <u>12.70</u>	(Max-15)
1,1-Dichloroethene	75-35-4	MS	20.80	0	20	104	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	18.60	0	20	93.2	63 - 128	RPD <u>10.90</u>	(Max-21)
1,1-Dichloropropene	563-58-6	MS	21	0	20	105	76 - 126		
1,1-Dichloropropene	563-58-6	MSD	18.90	0	20	94.3	76 - 126	RPD <u>10.90</u>	(Max-16)
1,2,3-Trichlorobenzene	87-61-6	MS	21	0	20	105	61 - 126		
1,2,3-Trichlorobenzene	87-61-6	MSD	18.10	0	20	90.7	61 - 126	RPD <u>14.70</u>	(Max-36)
1,2,3-Trichloropropane	96-18-4	MS	22.90	0	20	115	75 - 132		
1,2,3-Trichloropropane	96-18-4	MSD	20.60	0	20	103	75 - 132	RPD <u>10.60</u>	(Max-19)
1,2,4-Trichlorobenzene	120-82-1	MS	21.20	0	20	106	67 - 123		
1,2,4-Trichlorobenzene	120-82-1	MSD	19	0	20	95.1	67 - 123	RPD <u>10.90</u>	(Max-22)
1,2-Dibromo-3-chloropropane	96-12-8	MS	18.80	0	20	94	59 - 133		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	18.20	0	20	91.2	59 - 133	RPD <u>3.06</u>	(Max-26)
1,2-Dibromoethane	106-93-4	MS	19.30	0	20	96.5	80 - 124		
1,2-Dibromoethane	106-93-4	MSD	18.10	0	20	90.3	80 - 124	RPD <u>6.65</u>	(Max-19)
1,2-Dichlorobenzene	95-50-1	MS	21.80	0	20	109	82 - 118		
1,2-Dichlorobenzene	95-50-1	MSD	19.80	0	20	99	82 - 118	RPD <u>9.80</u>	(Max-15)
1,2-Dichloroethane	107-06-2	MS	20.90	0	20	104	70 - 133		
1,2-Dichloroethane	107-06-2	MSD	18.60	0	20	93.1	70 - 133	RPD <u>11.40</u>	(Max-19)
1,2-Dichloropropane	78-87-5	MS	22.20	0	20	111	81 - 127		
1,2-Dichloropropane	78-87-5	MSD	19.90	0	20	99.5	81 - 127	RPD <u>10.80</u>	(Max-15)
1,3-Dichlorobenzene	541-73-1	MS	22	0	20	110	81 - 118		
1,3-Dichlorobenzene	541-73-1	MSD	19.60	0	20	98.1	81 - 118	RPD <u>11.20</u>	(Max-16)
1,3-Dichloropropane	142-28-9	MS	20.30	0	20	102	82 - 126		
1,3-Dichloropropane	142-28-9	MSD	19.30	0	20	96.5	82 - 126	RPD <u>5.11</u>	(Max-15)
1,4-Dichlorobenzene	106-46-7	MS	21.60	0	20	108	81 - 116		



QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,4-Dichlorobenzene	106-46-7	MSD	19.60	0	20	98.1	81 - 116	RPD <u>9.68</u> (Max-15)	
2,2-Dichloropropane	594-20-7	MS	18.40	0	20	92.2	64 - 129		
2,2-Dichloropropane	594-20-7	MSD	16.80	0	20	84	64 - 129	RPD <u>9.32</u> (Max-18)	
2-Butanone	78-93-3	MS	111	0	100	111	50 - 152		
2-Butanone	78-93-3	MSD	99.10	0	100	99.1	50 - 152	RPD <u>11.10</u> (Max-16)	
2-Hexanone	591-78-6	MS	114	0	100	114	65 - 154		
2-Hexanone	591-78-6	MSD	107	0	100	107	65 - 154	RPD <u>6.21</u> (Max-17)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	113	0	100	113	71 - 146		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	107	0	100	107	71 - 146	RPD <u>5.92</u> (Max-16)	
Acetone	67-64-1	MS	91.10	0	100	91.1	40 - 151		
Acetone	67-64-1	MSD	82.70	0	100	82.7	40 - 151	RPD <u>9.66</u> (Max-40)	
Benzene	71-43-2	MS	21	0	20	105	80 - 124		
Benzene	71-43-2	MSD	18.70	0	20	93.4	80 - 124	RPD <u>11.40</u> (Max-26)	
Bromobenzene	108-86-1	MS	21.80	0	20	109	81 - 119		
Bromobenzene	108-86-1	MSD	19.70	0	20	98.4	81 - 119	RPD <u>10.30</u> (Max-17)	
Bromochloromethane	74-97-5	MS	21.10	0	20	105	73 - 117		
Bromochloromethane	74-97-5	MSD	19	0	20	95.2	73 - 117	RPD <u>10.20</u> (Max-19)	
Bromodichloromethane	75-27-4	MS	19.50	0	20	97.6	79 - 126		
Bromodichloromethane	75-27-4	MSD	17.70	0	20	88.7	79 - 126	RPD <u>9.53</u> (Max-16)	
Bromoform	75-25-2	MS	17.40	0	20	86.9	70 - 123		
Bromoform	75-25-2	MSD	16	0	20	80.2	70 - 123	RPD <u>8.01</u> (Max-16)	
Bromomethane	74-83-9	MS	22.30	0.53	20	109	45 - 148		
Bromomethane	74-83-9	MSD	20.80	0.53	20	102	45 - 148	RPD <u>6.80</u> (Max-26)	
Carbon Tetrachloride	56-23-5	MS	21.50	0	20	107	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	18.90	0	20	94.3	62 - 132	RPD <u>13.10</u> (Max-17)	
Chlorobenzene	108-90-7	MS	19.80	0	20	98.9	85 - 117		
Chlorobenzene	108-90-7	MSD	18.40	0	20	92.2	85 - 117	RPD <u>6.95</u> (Max-15)	
Chlorodibromomethane	124-48-1	MS	17	0	20	85	77 - 122		
Chlorodibromomethane	124-48-1	MSD	16	0	20	80	77 - 122	RPD <u>6.03</u> (Max-15)	
Chloroethane	75-00-3	MS	19.40	0	20	97	51 - 142		
Chloroethane	75-00-3	MSD	17	0	20	85.1	51 - 142	RPD <u>13</u> (Max-24)	
Chloroform	67-66-3	MS	20.80	0	20	104	78 - 122		
Chloroform	67-66-3	MSD	18.20	0	20	90.9	78 - 122	RPD <u>13.30</u> (Max-16)	
Chloromethane	74-87-3	MS	20.30	0	20	102	38 - 156		
Chloromethane	74-87-3	MSD	18.50	0	20	92.3	38 - 156	RPD <u>9.59</u> (Max-27)	
cis-1,2-Dichloroethene	156-59-2	MS	22.80	1.30	20	107	78 - 125		
cis-1,2-Dichloroethene	156-59-2	MSD	20.30	1.30	20	95	78 - 125	RPD <u>11.40</u> (Max-21)	
cis-1,3-Dichloropropene	10061-01-5	MS	18.40	0	20	92.2	81 - 121		
cis-1,3-Dichloropropene	10061-01-5	MSD	17.50	0	20	87.5	81 - 121	RPD <u>5.22</u> (Max-16)	
Dibromomethane	74-95-3	MS	20.40	0	20	102	81 - 125		
Dibromomethane	74-95-3	MSD	18.60	0	20	93	81 - 125	RPD <u>9.03</u> (Max-16)	
Dichlorodifluoromethane	75-71-8	MS	18.60	0	20	93.1	17 - 166		
Dichlorodifluoromethane	75-71-8	MSD	16.40	0	20	82.1	17 - 166	RPD <u>12.60</u> (Max-24)	
Diisopropyl ether	108-20-3	MS	22.30	0	20	112	74 - 131		
Diisopropyl ether	108-20-3	MSD	20.10	0	20	101	74 - 131	RPD <u>10.50</u> (Max-15)	
Ethylbenzene	100-41-4	MS	20.70	0	20	103	80 - 124		
Ethylbenzene	100-41-4	MSD	18.60	0	20	93.1	80 - 124	RPD <u>10.40</u> (Max-19)	
Hexachlorobutadiene	87-68-3	MS	20.20	0	20	101	55 - 128		
Hexachlorobutadiene	87-68-3	MSD	18.90	0	20	94.4	55 - 128	RPD <u>6.74</u> (Max-35)	



QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Methyl t-Butyl Ether	1634-04-4	MS	26.50	5.70	20	104	69 - 115		
Methyl t-Butyl Ether	1634-04-4	MSD	24.10	5.70	20	92.2	69 - 115	RPD	<u>9.62</u> (Max-20)
Methylene Chloride	75-09-2	MS	19.30	0	20	96.4	76 - 121		
Methylene Chloride	75-09-2	MSD	17.60	0	20	87.9	76 - 121	RPD	<u>9.31</u> (Max-17)
mp-Xylene	108383/106423	MS	39.90	0	40	99.8	79 - 125		
mp-Xylene	108383/106423	MSD	37.20	0	40	93.1	79 - 125	RPD	<u>6.99</u> (Max-21)
Naphthalene	91-20-3	MS	20.90	0	20	105	56 - 134		
Naphthalene	91-20-3	MSD	19.40	0	20	97.2	56 - 134	RPD	<u>7.42</u> (Max-40)
o-Chlorotoluene	95-49-8	MS	22.90	0	20	114	78 - 126		
o-Chlorotoluene	95-49-8	MSD	20.20	0	20	101	78 - 126	RPD	<u>12.30</u> (Max-17)
o-Xylene	95-47-6	MS	19.50	0	20	97.7	79 - 124		
o-Xylene	95-47-6	MSD	18.10	0	20	90.3	79 - 124	RPD	<u>7.92</u> (Max-19)
p-Chlorotoluene	106-43-4	MS	22.80	0	20	114	78 - 125		
p-Chlorotoluene	106-43-4	MSD	20.30	0	20	102	78 - 125	RPD	<u>11.60</u> (Max-16)
p-Isopropyltoluene	99-87-6	MS	22.80	0	20	114	72 - 123		
p-Isopropyltoluene	99-87-6	MSD	20.30	0	20	101	72 - 123	RPD	<u>11.80</u> (Max-17)
Styrene	100-42-5	MS	22.70	0	20	114	79 - 123		
Styrene	100-42-5	MSD	20.20	0	20	101	79 - 123	RPD	<u>11.70</u> (Max-16)
Tetrachloroethene	127-18-4	MS	17	0	20	85	72 - 124		
Tetrachloroethene	127-18-4	MSD	15.60	0	20	78.2	72 - 124	RPD	<u>8.25</u> (Max-38)
Toluene	108-88-3	MS	19.30	0	20	96.7	80 - 125		
Toluene	108-88-3	MSD	18.30	0	20	91.4	80 - 125	RPD	<u>5.61</u> (Max-20)
Total Xylenes	1330-20-7	MS	59.50	0	60	99.1	79 - 125		
Total Xylenes	1330-20-7	MSD	55.30	0	60	92.1	79 - 125	RPD	<u>7.29</u> (Max-35)
trans-1,2-Dichloroethene	156-60-5	MS	21	0	20	105	71 - 122		
trans-1,2-Dichloroethene	156-60-5	MSD	18.50	0	20	92.6	71 - 122	RPD	<u>12.70</u> (Max-22)
trans-1,3-Dichloropropene	10061-02-6	MS	17.90	0	20	89.3	78 - 126		
trans-1,3-Dichloropropene	10061-02-6	MSD	17	0	20	85	78 - 126	RPD	<u>4.95</u> (Max-18)
Trichloroethene	79-01-6	MS	20.10	0	20	101	77 - 124		
Trichloroethene	79-01-6	MSD	17.90	0	20	89.7	77 - 124	RPD	<u>11.50</u> (Max-18)
Trichlorofluoromethane	75-69-4	MS	19.50	0	20	97.5	38 - 123		
Trichlorofluoromethane	75-69-4	MSD	17.20	0	20	86.2	38 - 123	RPD	<u>12.30</u> (Max-23)
Vinyl Acetate	108-05-4	MS	14.10	0	20	70.5	58 - 136		
Vinyl Acetate	108-05-4	MSD	13.50	0	20	67.3	58 - 136	RPD	<u>4.60</u> (Max-17)
Vinyl Chloride	75-01-4	MS	18.60	0	20	93.2	27 - 138		
Vinyl Chloride	75-01-4	MSD	17	0	20	84.8	27 - 138	RPD	<u>9.42</u> (Max-40)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	32.60	30	109	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	31.80	30	106	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	30.10	30	100	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	27.40	30	91.3	79 - 114	
Dibromofluoromethane	1868-53-7	MS	31.10	30	104	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	29	30	96.6	78 - 116	
Toluene-d8	2037-26-5	MS	28.40	30	94.6	76 - 127	
Toluene-d8	2037-26-5	MSD	27.90	30	93.2	76 - 127	



QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

Method Blank

3843097 (MB)

Created on 06/22/2024 11:21

For QC Batch 1228213

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	BLK	1.0 U	ug/L	1.0	U
1,1,1-Trichloroethane	71-55-6	BLK	1.0 U	ug/L	1.0	U
1,1,2,2-Tetrachloroethane	79-34-5	BLK	1.0 U	ug/L	1.0	U
1,1,2-Trichloroethane	79-00-5	BLK	1.0 U	ug/L	1.0	U
1,1-Dichloroethane	75-34-3	BLK	1.0 U	ug/L	1.0	U
1,1-Dichloroethene	75-35-4	BLK	1.0 U	ug/L	1.0	U
1,1-Dichloropropene	563-58-6	BLK	1.0 U	ug/L	1.0	U
1,2,3-Trichlorobenzene	87-61-6	BLK	2.0 U	ug/L	2.0	U
1,2,3-Trichloropropane	96-18-4	BLK	2.0 U	ug/L	2.0	U
1,2,4-Trichlorobenzene	120-82-1	BLK	2.0 U	ug/L	2.0	U
1,2-Dibromo-3-chloropropane	96-12-8	BLK	7.0 U	ug/L	7.0	U
1,2-Dibromoethane	106-93-4	BLK	1.0 U	ug/L	1.0	U
1,2-Dichlorobenzene	95-50-1	BLK	1.0 U	ug/L	1.0	U
1,2-Dichloroethane	107-06-2	BLK	1.0 U	ug/L	1.0	U
1,2-Dichloropropane	78-87-5	BLK	1.0 U	ug/L	1.0	U
1,3-Dichlorobenzene	541-73-1	BLK	1.0 U	ug/L	1.0	U
1,3-Dichloropropane	142-28-9	BLK	1.0 U	ug/L	1.0	U
1,4-Dichlorobenzene	106-46-7	BLK	1.0 U	ug/L	1.0	U
2,2-Dichloropropane	594-20-7	BLK	1.0 U	ug/L	1.0	U
2-Butanone	78-93-3	BLK	10.0 U	ug/L	10.0	U
2-Hexanone	591-78-6	BLK	5.0 U	ug/L	5.0	U
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	5.0 U	ug/L	5.0	U
Acetone	67-64-1	BLK	10.0 U	ug/L	10.0	U
Benzene	71-43-2	BLK	1.0 U	ug/L	1.0	U
Bromobenzene	108-86-1	BLK	1.0 U	ug/L	1.0	U
Bromochloromethane	74-97-5	BLK	1.0 U	ug/L	1.0	U
Bromodichloromethane	75-27-4	BLK	1.0 U	ug/L	1.0	U
Bromoform	75-25-2	BLK	1.0 U	ug/L	1.0	U
Bromomethane	74-83-9	BLK	1.0 U	ug/L	1.0	U
Carbon Tetrachloride	56-23-5	BLK	1.0 U	ug/L	1.0	U
Chlorobenzene	108-90-7	BLK	1.0 U	ug/L	1.0	U
Chlorodibromomethane	124-48-1	BLK	1.0 U	ug/L	1.0	U
Chloroethane	75-00-3	BLK	1.0 U	ug/L	1.0	U
Chloroform	67-66-3	BLK	1.0 U	ug/L	1.0	U
Chloromethane	74-87-3	BLK	1.0 U	ug/L	1.0	U
cis-1,2-Dichloroethene	156-59-2	BLK	1.0 U	ug/L	1.0	U
cis-1,3-Dichloropropene	10061-01-5	BLK	1.0 U	ug/L	1.0	U
Dibromomethane	74-95-3	BLK	1.0 U	ug/L	1.0	U
Dichlorodifluoromethane	75-71-8	BLK	1.0 U	ug/L	1.0	U
Diisopropyl ether	108-20-3	BLK	1.0 U	ug/L	1.0	U
Ethylbenzene	100-41-4	BLK	1.0 U	ug/L	1.0	U
Hexachlorobutadiene	87-68-3	BLK	5.0 U	ug/L	5.0	U
Methyl t-Butyl Ether	1634-04-4	BLK	1.0 U	ug/L	1.0	U
Methylene Chloride	75-09-2	BLK	1.0 U	ug/L	1.0	U
mp-Xylene	108383/106423	BLK	2.0 U	ug/L	2.0	U



**QUALITY CONTROL SAMPLES**

**VOLATILE ORGANICS (cont.)**

*RESULTS*

Compound	CAS No		Result	Units	RDL	Qualifiers
Naphthalene	91-20-3	BLK	2.0 U	ug/L	2.0	U
o-Chlorotoluene	95-49-8	BLK	1.0 U	ug/L	1.0	U
o-Xylene	95-47-6	BLK	1.0 U	ug/L	1.0	U
p-Chlorotoluene	106-43-4	BLK	1.0 U	ug/L	1.0	U
p-Isopropyltoluene	99-87-6	BLK	1.0 U	ug/L	1.0	U
Styrene	100-42-5	BLK	1.0 U	ug/L	1.0	U
Tetrachloroethene	127-18-4	BLK	1.0 U	ug/L	1.0	U
Toluene	108-88-3	BLK	1.0 U	ug/L	1.0	U
Total Xylenes	1330-20-7	BLK	3.0 U	ug/L	3.0	U
trans-1,2-Dichloroethene	156-60-5	BLK	1.0 U	ug/L	1.0	U
trans-1,3-Dichloropropene	10061-02-6	BLK	1.0 U	ug/L	1.0	U
Trichloroethene	79-01-6	BLK	1.0 U	ug/L	1.0	U
Trichlorofluoromethane	75-69-4	BLK	1.0 U	ug/L	1.0	U
Vinyl Acetate	108-05-4	BLK	5.0 U	ug/L	5.0	U
Vinyl Chloride	75-01-4	BLK	1.0 U	ug/L	1.0	U

*SURROGATES*

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	31.60	30	105	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	29.20	30	97.2	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	29	30	96.8	78 - 116	
Toluene-d8	2037-26-5	BLK	29.90	30	99.8	76 - 127	

**Lab Control Standard**

3843098 (LCS)

Created on 06/22/2024 11:21

For QC Batch 1228213

*RESULTS*

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	LCS	20.60		20	103	78 - 121		
1,1,1-Trichloroethane	71-55-6	LCS	19.60		20	97.9	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	23.30		20	116	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	21.60		20	108	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	20.10		20	100	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	19.70		20	98.6	63 - 128		
1,1-Dichloropropene	563-58-6	LCS	20.50		20	102	76 - 126		
1,2,3-Trichlorobenzene	87-61-6	LCS	21.80		20	109	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	22.50		20	113	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	22.70		20	114	67 - 123		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	19.30		20	96.4	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	20.30		20	101	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	22.60		20	113	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	19.70		20	98.4	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	21.40		20	107	81 - 127		
1,3-Dichlorobenzene	541-73-1	LCS	22.50		20	113	81 - 118		
1,3-Dichloropropane	142-28-9	LCS	20.70		20	104	82 - 126		



QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,4-Dichlorobenzene	106-46-7	LCS	22.30		20	112	81 - 116		
2,2-Dichloropropane	594-20-7	LCS	20.60		20	103	64 - 129		
2-Butanone	78-93-3	LCS	104		100	104	50 - 152		
2-Hexanone	591-78-6	LCS	115		100	115	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	112		100	112	71 - 146		
Acetone	67-64-1	LCS	104		100	104	40 - 151		
Benzene	71-43-2	LCS	19.90		20	99.3	80 - 124		
Bromobenzene	108-86-1	LCS	22.10		20	111	81 - 119		
Bromochloromethane	74-97-5	LCS	21.30		20	106	73 - 117		
Bromodichloromethane	75-27-4	LCS	19.20		20	96	79 - 126		
Bromoform	75-25-2	LCS	18.10		20	90.4	70 - 123		
Bromomethane	74-83-9	LCS	22.70		20	113	45 - 148		
Carbon Tetrachloride	56-23-5	LCS	17.70		20	88.4	62 - 132		
Chlorobenzene	108-90-7	LCS	20.20		20	101	85 - 117		
Chlorodibromomethane	124-48-1	LCS	18.20		20	91.1	77 - 122		
Chloroethane	75-00-3	LCS	18.60		20	92.9	51 - 142		
Chloroform	67-66-3	LCS	19.80		20	99	78 - 122		
Chloromethane	74-87-3	LCS	19.40		20	96.9	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	20.70		20	103	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	20.20		20	101	81 - 121		
Dibromomethane	74-95-3	LCS	20.20		20	101	81 - 125		
Dichlorodifluoromethane	75-71-8	LCS	16.50		20	82.6	17 - 166		
Diisopropyl ether	108-20-3	LCS	22.10		20	111	74 - 131		
Ethylbenzene	100-41-4	LCS	20.20		20	101	80 - 124		
Hexachlorobutadiene	87-68-3	LCS	22.90		20	114	55 - 128		
Methyl t-Butyl Ether	1634-04-4	LCS	20.90		20	105	69 - 115		
Methylene Chloride	75-09-2	LCS	18.90		20	94.4	76 - 121		
mp-Xylene	108383/106423	LCS	40.60		40	101	79 - 125		
Naphthalene	91-20-3	LCS	22.10		20	111	56 - 134		
o-Chlorotoluene	95-49-8	LCS	22.40		20	112	78 - 126		
o-Xylene	95-47-6	LCS	19.90		20	99.3	79 - 124		
p-Chlorotoluene	106-43-4	LCS	22.60		20	113	78 - 125		
p-Isopropyltoluene	99-87-6	LCS	23.20		20	116	72 - 123		
Styrene	100-42-5	LCS	22.50		20	112	79 - 123		
Tetrachloroethene	127-18-4	LCS	17.90		20	89.7	72 - 124		
Toluene	108-88-3	LCS	20		20	99.8	80 - 125		
Total Xylenes	1330-20-7	LCS	60.40		60	101	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	20.10		20	101	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	19.80		20	99.1	78 - 126		
Trichloroethene	79-01-6	LCS	19.50		20	97.7	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	18.40		20	92.2	38 - 123		
Vinyl Acetate	108-05-4	LCS	16.90		20	84.7	58 - 136		
Vinyl Chloride	75-01-4	LCS	17.40		20	87.2	27 - 138		



QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	31.70	30	106	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	31.80	30	106	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	31.30	30	104	78 - 116	
Toluene-d8	2037-26-5	LCS	29.70	30	99	76 - 127	



### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3364481001	MW-31D	SW846 3510C	1224338	06/19/2024 16:10	BMP	SW846 8270E SIM	1228308
		N/A	N/A	N/A		SW846 8260D	1228213
3364481002	MW-46D	SW846 3510C	1224338	06/19/2024 16:10	BMP	SW846 8270E SIM	1228308
		SW846 3510C	1224338	06/19/2024 16:10	BMP	SW846 8270E SIM	1228710
		N/A	N/A	N/A		SW846 8260D	1228213

CHAIN-OF-CUSTODY RECORD

3364481

Page 1 of 1

WSP USA Office Address  
 13530 Dulles Technology Dr, Suite 300 Herndon VA 20171  
 Project Name  
 Kop-Flex offsite  
 Project Location  
 Herndon MD  
 Project Number & Task  
 P162840US001  
 Sampler(s) Name(s)  
 Elliott Martynkiewicz

WSP USA Contact Name  
 Eric Johnson  
 WSP USA Contact E-mail  
 eric.johnson@wsp.com  
 WSP USA Contact Phone  
 (703) 318-3936  
 Sampler(s) Signature(s)  


Sample Identification	Matrix	Collection Start*		Collection Stop*		Number of Containers
		Date	Time	Date	Time	
MW-310	GW	6/13/24	1530	6/13/24	1530	4
MW-460	GW	6/12/24	1625	6/12/24	1625	4

Requested Air  
 Requested Air  
 Requested Air

Temp By: MSE | WO Temp (°C) 3° | Therm ID 524

Receipt Info Completed By:  
 Cooler Custody Seal Intact Y N NA  
 Sample Custody Seal Intact Y N NA  
 Received on Ice Y N NA  
 Cooler & Samples Intact Y N NA  
 Correct Containers Provided Y N NA  
 Sample Label/COC Agree Y N NA  
 Adequate Sample Volumes Y N NA  
 CR6 Samples Filtered Y N NA  
 OP Samples Filtered Y N NA  
 VOA Trip Blank Y N NA  
 NJ ≤ 4 Days? Y N NA  
 Rad Screen (uCi) Y N NA  
 Courier/Tracking #: 76850293047  
 SDWA Compliance Y N NA  
 PWSID Y N NA  
 WV Containers 0-6°C Y N NA

Requested Air  
 Requested Air  
 Requested Air

3364481

Logged By: SLS  
 PM: SJB

0039

Name & Location

Middletown PA

Laboratory Project Manager

Susan Scherer

Requested Turn-Around-Time

Standard  24 HR

48 HR  72 HR

HR

Sample Comments

Temp By: MSE | WO Temp (°C) 3° | Therm ID 524

Receipt Info Completed By:

Y N NA



3364481

Logged By: SLS  
 PM: SJB

0039

Name & Location

Middletown PA

Laboratory Project Manager

Susan Scherer

Requested Turn-Around-Time

Standard  24 HR

48 HR  72 HR

HR

Sample Comments

Temp By: MSE | WO Temp (°C) 3° | Therm ID 524

Receipt Info Completed By:

Y N NA

3364481

Logged By: SLS  
 PM: SJB

0039

Name & Location

Middletown PA

Laboratory Project Manager

Susan Scherer

Requested Turn-Around-Time

Standard  24 HR

48 HR  72 HR

HR

Sample Comments

Temp By: MSE | WO Temp (°C) 3° | Therm ID 524

Receipt Info Completed By:

Y N NA

3364481

Logged By: SLS  
 PM: SJB

0039

Name & Location

Middletown PA

Laboratory Project Manager

Susan Scherer

Requested Turn-Around-Time

Standard  24 HR

48 HR  72 HR

HR

Sample Comments

Temp By: MSE | WO Temp (°C) 3° | Therm ID 524

Receipt Info Completed By:

Y N NA

3364481

Logged By: SLS  
 PM: SJB

0039

Name & Location

Middletown PA

Laboratory Project Manager

Susan Scherer

Requested Turn-Around-Time

Standard  24 HR

48 HR  72 HR

HR

Sample Comments

Temp By: MSE | WO Temp (°C) 3° | Therm ID 524

Receipt Info Completed By:

Y N NA