



Groundwater Monitoring Report-Year 3

**Long-Term Stewardship Plan: OU-1
through OU-5
Former GM Wilmington Assembly Plant
(DE-1149) Wilmington, Delaware**

RACER Trust

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→ The Power of Commitment

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Acronyms

µg/l	micrograms per liter
AST	aboveground storage tank
BGS	below ground surface
CFC-11	trichlorofluoromethane
CLP	Contract Laboratory Program
COCs	constituents of concern
DNREC	Department of Natural Resources and Environmental Control
DO	dissolved oxygen
DOT	Department of Transportation
CFR	Code of Federal Regulations
GHD	GHD Services Inc.
GM	General Motors Corporation
HSCA	Hazardous Substance Cleanup Act
IDW	investigative-derived waste
LTS	Long-Term Stewardship Plan
MLC	Motors Liquidation Company
ORP	oxidation reduction potential
OU	Operable Unit
PCE	tetrachloroethene
PVC	polyvinyl chloride
QA/QC	quality assurance/quality control
RACER	Revitalizing Auto Communities Environmental Response
RCRA	Resource Recovery and Conservation
RI	Remedial Investigation
SVOCs	semi-volatile organic compounds
TCE	trichloroethylene
USEPA	United States Environmental Protection Agency
UST	underground storage tank
VOCs	volatile organic compounds

1. Introduction

On behalf of the Revitalizing Auto Communities Environmental Response Trust (RACER Trust), GHD Services Inc. (GHD) has prepared this Groundwater Monitoring Report - Year 3 (Report) for the former General Motors Corporation (GM) Wilmington Assembly Plant (DE-1149) located at 851 and 1025 Boxwood Road in Wilmington, New Castle County, Delaware (Site), as shown on Figure 1. Historical environmental investigations have identified impacts to environmental media resulting from operations at the Site. A Long-Term Stewardship Plan (LTS) was developed and submitted to the Delaware Department of Natural Resources and Environmental Control (DNREC) on January 14, 2022, to manage post-remedial actions of soil and groundwater in the five operable units (OUs) at the Site where cleanup activities have been completed (OU-1 to OU-5; GHD 2025).

The Site was historically divided into six OUs (OU-1 to OU-6; see Figure 2). Site investigations have been conducted since at least 1990 on the six OUs. OU-6 is excluded from the LTS because the 2015 Remedial Investigation (RI) Report did not identify known or potential releases from historical operations in OU-6 (Conestoga-Rovers & Associates, 2015). A brief description of the OUs is provided in Table 1.1 below.

Table 1.1 *Operable Unit Description*

Operable Units	Description
OU-1	The pump house and aboveground storage tanks (AST) L through Tank O in the AST containment area.
OU-2	Large AST Area/Truck Unloading Rack and surrounding areas.
OU-3	Main Assembly Plant Area.
OU-4	Former Petroleum Dispensing and underground storage tank (UST).
OU-5	Former Test Track Area.
OU-6	Wooded Area adjacent to Little Mill Creek (not subject to LTS).

1.1 Scope

The LTS includes the impacted area in OU-1 (soil) and OU-2, OU-3, OU-4, and OU-5 (soil and groundwater). The LTS specifies no reduction in the groundwater monitoring program based on results during the first 5 years. Thereafter, if the groundwater data indicate that there are no significant variations in groundwater, RACER Trust may present a written request, including technical rationale, to DNREC to modify the scope of the groundwater monitoring plan. This report documents the results from Year 3 of the first 5 years of monitoring and recommendations for future action, as appropriate.

1.2 Background

The Site consists of real property located at 851 and 1025 Boxwood Road, Wilmington, New Castle County, Delaware. It comprises two tax parcels totaling approximately 142 acres of land (which includes the area of OU-6) which formerly included a 3.2 million square foot main assembly building, wastewater treatment plant, pump houses, and powerhouse. GM developed the Site from 1945 to 1947 and used it for automobile assembly operations until July 2009. GM's automobile assembly operations included storage and use of petroleum products for fueling and heating, painting, wastewater treatment, parts cleaning, and hazardous waste storage. Each of these operations used various chemicals. Releases are believed to have occurred at the Site as a result of GM's operations, which have subsequently impacted the soil at and groundwater beneath the Site. DNREC removed the Site from Resource Recovery and Conservation Act (RCRA) in the early 2000s and placed it into the Brownfield/Superfund program which is governed by the Hazardous Substance Cleanup Act (HSCA).

During GM's 2009 bankruptcy, certain operating assets of GM were sold to the newly formed entity known as General Motors LLC. Assets that were not sold to General Motors LLC, including this Site, remained the property of GM, which by then had changed its name to Motors Liquidation Company (MLC). In its capacity as debtor in possession in the bankruptcy case, MLC sold the Site to Fisker Automotive, Inc. (Fisker) in July 2010. On March 31, 2011, the RACER Trust became effective, and since then RACER Trust has been conducting and managing cleanups at several dozen former GM properties, including this Site.

Between July 2009 and April 2014, the Site remained largely idle while Fisker evaluated opportunities to use the plant for assembly of Fisker automobiles. The Site was purchased by Wanxiang Delaware Real Estate Holdings (Wanxiang) in April 2014 as part of a purchase by Wanxiang of Fisker's assets. In October 2017, Harvey, Hanna & Associates, Inc.'s special purpose entity, Boxwood Industrial Park, LLC (Boxwood), purchased the Site from Wanxiang. On November 7, 2019, Dermody Properties' special purpose entity DPIF2 DE 1 New Castle, LLC (Dermody) purchased portions of the Site (OU-1, OU-2, and OU-3) from Boxwood. On January 29, 2020, Dermody purchased additional portions of the Site (OU-4 and OU-5) from Boxwood.

Dermody completed Site redevelopment activities in September 2021, which included an approximately 820,000 square foot logistics building in OU-1, OU-2, and OU-3 and an approximately 220,000 square foot warehouse building in OU-3 and OU-5. No buildings are currently planned in the OU-4 area, which has been developed as parking or landscaped areas; however, OU-4 may be developed with additional buildings or other improvements in the future. Dermody also reconfigured the Site into two tax parcels by legal subdivision, whereas there were formerly five total. DPIF2 DE 1 New Castle, LLC currently owns Lot 1 which contains the approximately 820,000 square foot building and associated improvements, and DPIF2 DE2 New Castle2, LLC currently owns Lot 2 which contains the approximately 220,000 square foot building and associated improvements.

1.3 Geology

Previous subsurface investigations completed at the Site have indicated that soils at the site consist primarily of fill underlain by unconsolidated sediments consisting primarily of silty sands and clays, from below the paved surface to a depth of approximately 8 to 10 feet below ground surface (ft bgs) (BGS; Conestoga-Rovers & Associates, 2015). Gravel lenses were observed ranging in thickness from 1 to 10 feet at varying depths across the Site. Historical soil boring logs indicate a continuous sand layer ranging from 16 to 30 feet in thickness with starting depths ranging from approximately 7.8 to 11.5 ft bgs and extending to depths ranging from approximately 23.8 to 40 ft bgs¹. The historical logs also indicate that the sand layer is underlain by reddish brown clay of an undetermined thickness.

1.4 Hydrogeology

Groundwater was historically observed at an average depth of approximately 12 ft bgs¹ during Site investigations from 2011 to 2013. Following redevelopment activities, the average depth to groundwater is approximately 12.4 ft bgs across the monitoring wells measured in OU-2, OU-4, and OU-5. The now-demolished main assembly building appeared to have created a groundwater divide at the Site, with groundwater on the east side flowing to the east toward Little Mill Creek and groundwater on the west side flowing to the west towards Red Clay Creek. Following redevelopment, groundwater flow in OU-2 appears to be to the southeast, and in OU-4 and OU-5 it appears to flow to the northeast.

Historically, surface water flow across the Site was directed to the on-Site storm sewer system, which discharged to Little Mill Creek at Outfall 001. The redevelopment of the Site did not change the storm sewer system point of discharge to Little Mill Creek; however, some surface water flow is now first directed to three bio-basins before entering the on-Site storm sewer system which connects to Outfall 001. With the exception of Little Mill Creek which is located in OU-6, there were historically no surface water bodies or waterways (streams, rivers, lakes, etc.), including associated wetlands, floodplains, and riparian zones, present on or immediately adjacent to the Site.

¹ Based on the ground surface elevation at the site prior to redevelopment activities. Redevelopment at the site included regrading.

Little Mill Creek is located in the wooded area along the eastern property boundary. Approximately 1,000 ft of this creek is located within the Site property. Little Mill Creek discharges to the Christina River approximately 1 mile downstream. Red Clay Creek is located approximately 1.1 miles west of the Site and also discharges to the Christina River. The Christina River is the major river draining this portion of New Castle County. There are no lakes or significant ponds within one mile of the Site.

2. Groundwater Monitoring Activities

As described in the LTS, groundwater monitoring is performed specific to each OU. Perimeter monitoring wells with historically low concentrations of constituents of concern (COCs) within OU-2, OU-4, and OU-5 were selected for annual monitoring. These wells were selected to monitor for the potential for impacted groundwater to be leaving the Site. A further description of the wells and analytes to be monitored is provided below.

- OU-2: Groundwater monitoring wells MW-8R, MW-9R, and MW-19R², shown on Figure 3.1, were identified in the LTS. These wells are located on the perimeter of OU-2, southwest of the source area. Volatile organic compounds (VOCs) are the analytical parameters monitored in OU-2.
- OU-4: Groundwater monitoring wells MW-36S, MW-36D, DA-MW-40, DA-MW-41, and MW-50R³, shown on Figure 4.1, were identified in the LTS. DA-MW-40 and DA-MW-41 have had low to non-detect concentrations of COCs and are located off-Site to the east of OU-4. VOCs and semi-volatile organic compounds (SVOCs) are the analytical parameters monitored in OU-4.
- OU-5: Groundwater monitoring wells MW-48R, MW-109R, MW-112, and MW-113R⁴, shown on Figure 5.1, were identified in the LTS. Metals are the analytical parameters to be monitored in OU-5, with samples from MW-48R also analyzed for benzene and trichloroethylene (TCE).

2.1 Monitoring Well Condition Assessment

A monitoring well condition assessment was conducted to verify the current condition of the LTS monitoring wells in OU-2, OU-4, and OU-5. The monitoring well assessment, consisting of a visual inspection, water level measurement, and well depth sounding, was performed on November 1, 2024. The well condition assessment is included in Appendix A.

The well condition assessment identified the following deficiencies that need to be addressed:

- MW-109R (OU-5): The concrete well pad is loose and needs to be replaced, and a bolt was missing. This repair will be made concurrently with the abandonment of off-Site monitoring wells no longer sampled in OU-4.⁵
- MW-36S (OU-4) and MW-113R (OU-5): The wells are missing bolts.
- MW-50R (OU-4): The well is missing bolts, and the concrete pad is cracked.
- MW-36D (OU-4): The well was filled with sediment, with the total depth measured at 17.35 ft bgs (the constructed depth is 39 ft bgs). Based on field observations, it is assumed the well has collapsed. GHD recommends abandoning MW-36D concurrently with the abandonment of off-Site monitoring wells in OU-4.

The condition of the remaining LTS monitoring wells was good, with no additional deficiencies identified.

² OU-2 monitoring wells MW-8R, MW-9R, and MW-19R were installed as replacement wells for MW-8, MW-9, and MW-19, respectively, during the property redevelopment.

³ OU-4 monitoring well MW-50R was installed as a replacement for well MW-50 during the property redevelopment.

⁴ OU-5 monitoring wells MW-48R, MW-109R, and MW-113R were installed as replacement wells for MW-48, MW-109, and MW-113, respectively, during the property redevelopment. MW-112 was damaged during site redevelopment activities and was repaired and raised to the current grade.

⁵ RACER Trust has obtained an access agreement with one of the property owners adjacent to OU-4 with off-Site monitoring wells. RACER Trust is currently in the process of obtaining site access with the remaining property owner adjacent to OU-4 with off-Site monitoring wells no longer needed (e.g., not in the LTS). Once the remaining access agreement is obtained, RACER Trust will proceed with abandoning off-Site monitoring wells that are no longer needed.

2.2 Static Water Levels

As detailed in the LTS, static water levels and total depth were collected from the LTS wells prior to sample collection. Specifically, water levels were measured from the following monitoring wells on October 30, 2024:

- OU-2: MW-8R, MW-9R, and MW-19R;
- OU-4: MW-36S, MW-36D, DA-MW40, DA-MW41, and MW-50R; and,
- OU-5: MW-28R⁶, MW-48R, MW-109R, MW-112 and MW-113R.

Static water levels were collected utilizing an oil-water interface probe. Depth to water and total well depth, recorded to the nearest hundredth of a foot, were collected from each monitoring well (utilizing the top of the well riser as a reference point). Water levels are presented in Table 1. Groundwater elevation contours for OU-2, OU-4, and OU-5 are presented in Figures 3.3, 4.4, and 5.4, respectively. Groundwater flow direction in OU-2 is observed to be to the southeast. Previous groundwater flow direction in OU-2, prior to redevelopment activities, was generally to the southwest. Groundwater flow direction in OU-4 is observed to be to the northeast, similar to groundwater flow direction prior to redevelopment. Groundwater flow direction in OU-5 is observed to be to the northeast, similar to groundwater flow direction prior to redevelopment.

An accurate static water level was not obtained from MW-36D due to the well being collapsed, as noted in Section 2.1.

2.3 OU-5 Well Redevelopment

Prior to collecting groundwater samples, OU-5 monitoring wells MW-48R, MW-109R, MW-112 and MW-113R were redeveloped on October 28 and 29, 2024. In the Year 2 LTS Report, GHD recommended redeveloping MW-48R, MW-109R, and MW-112 after observing elevated concentrations of total metals. MW-113R was also redeveloped. All wells were surged and pumped using a Waterra D-25 Foot Valve and surge block. Well development forms are included in Appendix B. The following volumes were removed from each well:

- MW-48R – 6 gallons (approximately 30 well volumes)
- MW-109R – 8 gallons (approximately 24 well volumes)
- MW-112 – 8 gallons (approximately 9 well volumes)
- MW-113R – 9 gallons (approximately 30 well volumes)

MW-48R and MW-112 were developed until the turbidity dropped below 10 NTU. Turbidity at MW-109R fluctuated throughout redevelopment and became notably cleared after 8 gallons (approximately 24 well volumes).

Redevelopment was stopped after 8 gallons were purged, with the final turbidity measured at 264 NTU. Turbidity at MW-113R fluctuated throughout redevelopment and redevelopment was stopped after purging 9 gallons (approximately 30 well volumes), with the final turbidity measured at 816 NTU.

2.4 Sample Collection and Handling

Groundwater samples were collected and analyzed in accordance with the LTS. Groundwater samples collected from monitoring wells in each OU were analyzed for the following parameters:

- OU-2: VOCs via United States Environmental Protection Agency (USEPA) SW-846 Method 8260;
- OU-4: VOCs and SVOCs via USEPA SW-846 Methods 8260 and 8270, respectively; and,
- OU-5: Total and dissolved metals via USEPA SW-846 Methods 6020 and mercury via USEPA SW-846 Method 7470. In addition, samples collected from MW-48R were also analyzed for benzene and TCE via USEPA SW-846 Method 8260.

⁶ Only water levels are collected from MW-28R as part of the LTS. Analytical samples are not collected from this well.

2.4.1 Sample Collection

Groundwater samples were collected by GHD field staff from October 30 to November 1, 2024. Samples were collected using low flow sampling techniques. Prior to groundwater sample collection, each monitoring well was purged until field parameters (pH, specific conductivity, temperature, dissolved oxygen (DO), oxidation reduction potential (ORP), and turbidity) stabilized. Low-flow purging logs for each monitoring well are included as Appendix C.

All samples were placed in laboratory-supplied sample containers and labelled with the sample identification number, date and time of sampling, the type of preservative used, the sampler's initials, and the types of analyses to be performed. The groundwater sample containers were placed in an iced cooler and transported under Chain-of-Custody to Eurofins Environment Testing Northeast, LLC of Edison, New Jersey (Eurofins). Samples were transported to the laboratory by a Eurofins courier.

2.4.2 Decontamination Procedures

Non-dedicated sampling equipment was decontaminated before each use. Decontamination rinsate was discharged to ground surface since no sheen was present.

2.4.3 Management of Investigation-Derived Waste

Investigative-derived waste (IDW) generated during the groundwater sampling activities included purge water, decontamination rinsate, and expendable items such as gloves and tubing. Per the LTS, purge water was discharged to ground surface since no sheen was present.

2.5 Data Usability Assessment

Analytical results for groundwater samples collected during the Year 3 monitoring event are summarized on Tables 2 - 4. Analytical data were reviewed by GHD's project chemist in accordance with DNREC's Data Usability Assessment guidelines. Full Contract Laboratory Program equivalent raw data deliverables were provided by the laboratory. Review of the data was based on information obtained from the finished data sheets, raw data, Chain-of-Custody forms, calibration data, blank data, recovery data from surrogate spikes/laboratory control samples/matrix spike samples, and field Quality Assurance/Quality Control (QA/QC) samples. Applicable guidance from the documents entitled:

- Guidance for Analytical Data Usability Assessment for Programs Under Hazardous Substance Cleanup Act (HSCA) (May 2020);
- National Functional Guidelines for Organic Superfund Methods Data Review, USEPA, 540-R-20-005, November 2020; and
- National Functional Guidelines for Inorganic Superfund Methods Data Review, USEPA, 542-R-20-006, November 2020.

2.5.1 Data Review

The data review determined there were several non-conformance items, listed in the laboratory report case narrative for the following parameters:

VOCs:

- There were several continuing calibration verification (CCV) failures for VOC analyses, specifically carbon tetrachloride, bromodichloromethane, bromoform, chloromethane, and dichlorodifluoromethane. Per the National Functional Guidelines, associated sample data is usable but should be considered estimated.
- There were several high laboratory control sample (LCS) recoveries for VOC analyses. All associated sample results were non-detect and therefore not affected by these outlying recoveries.

- The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) relative percent difference (RPD) for 1,4-dioxane was outside of the laboratory control limits. All sample results were non-detect and therefore not affected by the outlying RPD.
- There were several outlying matrix spike/matrix spike duplicate (MS/MSD) recoveries for VOC analyses. Where high recoveries were observed, associated sample results were non-detect and therefore not impacted by these high recoveries. Where low recoveries were observed, associated sample results were greater than four times the spike amount and therefore could not be assessed.
- Sample GW-11222397-110124-ES-20 (DA-MW41) was diluted prior to analysis, and the reporting limits were adjusted accordingly.

SVOCs:

- There were several CCV failures for SVOC analyses, specifically benzaldehyde, 2,4-dinitrophenol, 2,4-dinitrotoluene, 4,6-dinitro-2-methylphenol, 4-nitroaniline, atrazine, and caprolactam. Per the National Functional Guidelines, associated sample data is usable but should be considered estimated.
- There were several high MS/MSD recoveries for SVOC analyses. Most associated sample results were non-detect and therefore not impacted. The naphthalene result for sample GW-11222397-110124-ES-20 (DA-MW41) should be considered estimated with high bias due to the outlying MS/MSD recovery.

Metals:

- There were several outlying MS/MSD recoveries for total and dissolved metals analyses, specifically antimony, sodium, calcium and magnesium. Where most outlying recoveries were observed, associated sample results were greater than four times the spike amount and therefore could not be assessed. Although the dissolved antimony results were non-detect, the associated reporting limit should be considered estimated due to low MS/MSD recovery.
- The lab duplicate results for nickel and vanadium exceeded the RPD limit. These results for sample GW-11222397-103124-CT-15DU (MW-112) should be considered estimated.

It was determined that the data are acceptable and usable for this event. Appendix D contains the Level 2 analytical laboratory reports. The groundwater analytical results are summarized in Tables 2 - 4 for VOCs, SVOCs, and metals, respectively.

3. Groundwater Monitoring Results

Following the data usability assessment, groundwater monitoring results were compared to the most recent (November 2023) DNREC HSCA screening level for groundwater. As stated in the LTS, groundwater results were also compared to the historical data for that compound. Year 3 groundwater monitoring data is presented on Tables 2 - 4. Historical groundwater data is presented in Appendix E. The following sections discuss groundwater monitoring results for each OU.

3.1 Operable Unit 2 Results

Samples collected from monitoring wells in OU-2 (MW-8R, MW-9R, and MW-19R) were analyzed for VOCs, as described above in Section 2. VOC data are summarized in Table 2 and presented in Figure 3.2. The groundwater sample from MW-9R did not exceed HSCA screening levels, consistent with results from the Year 1 and Year 2 sampling events. The sample collected from MW-19R had low-level VOC detections of TCE at 0.44 micrograms per liter (ug/L) and vinyl chloride (1.7 ug/L) that exceeded the respective HSCA screening levels. The concentrations exceeding HSCA screening levels are consistent with results from the Year 2 sampling event. The concentrations exceeding HSCA screening levels at MW-19R are below the historical maximum concentrations within OU-2 for TCE

(3 ug/L) and vinyl chloride (2.5 ug/L; see Table 2 and Figure 3.2). The sample collected from MW-8R detected TCE at a concentration of 0.35 ug/L that exceeded HSCA screening levels. This is the first VOC with a concentration exceeding criteria at MW-8R; however, the concentration is below the historical maximum concentration of TCE (3 ug/L) in OU-2.

3.2 Operable Unit 4 Results

Groundwater samples in OU-4 were collected from monitoring wells MW-36S, DA-MW40, DA-MW41, and MW-50R. As described in Section 2, samples were collected from these wells and analyzed for SVOCs and VOCs. VOC data are summarized in Table 2 and presented in Figure 4.2. SVOC data are summarized in Table 3 and presented in Figure 4.3.

3.2.1 Operable Unit 4 SVOC Results

Groundwater samples collected from MW-36S (duplicate), DA-MW40, and DA-MW41 detected 2-methylnaphthalene (4.2 ug/L, 8.0 ug/L, and 6.5 ug/L, respectively) at concentrations exceeding HSCA screening levels. Groundwater samples for MW-36S (primary and duplicate), DA-MW40, DA-MW41, and MW-50R detected naphthalene (10 ug/L/13 ug/L, 35 ug/L, 43 ug/L, and 48 ug/L, respectively) at concentrations exceeding HSCA screening levels. The groundwater sample collected from MW-50R detected n-nitrosodi-n-propylamine (1.2 ug/L) at concentrations exceeding the HSCA screening level. The concentrations exceeding HSCA screening levels were all less than the historical maximum concentrations for these compounds within OU-4 and at the individual monitoring wells (see Table 3 and Appendix E), with the exception of n-nitrosodi-n-propylamine, which was the first detected exceedance at MW-50R and in OU-4.

3.2.2 Operable Unit 4 VOC Results

Groundwater samples for MW-36S, DA-MW40, DA-MW41, and MW-50R detected 1,2,4-trimethylbenzene (67 ug/L, 370 ug/L, 280 ug/L, and 11 ug/L, respectively) at concentrations exceeding HSCA screening levels. Groundwater samples for MW-36S, DA-MW40, DA-MW41, and MW-50R detected ethylbenzene (190 ug/L, 110 ug/L, 170 ug/L, and 530 ug/L, respectively), and total xylenes (150 ug/L, 650 ug/L, 510 ug/L, and 210 ug/L, respectively) at concentrations exceeding HSCA screening levels. The groundwater sample from MW-50R detected 1,2-dichloroethane (14 ug/L) and toluene (190 ug/L) at concentrations exceeding HSCA screening levels. Groundwater samples for MW-36S, and MW-50R detected benzene (130 ug/L and 880 ug/L, respectively) at concentrations exceeding HSCA screening levels.

All VOC screening level exceedances in OU-4 were less than the historical maximum concentrations for these compounds within OU-4. VOC screening level exceedances at MW-36S were less than the historical maximum concentrations at this monitoring well (see Table 2 and Appendix E). VOC screening level exceedances at MW-50R were less than the historical maximum concentrations. VOC screening level exceedances at DA-MW40 and DA-MW41 were less than the historical maximum concentrations with the exception of total xylenes and 1,2,4-trimethylbenzene at DA-MW41, which were detected concentrations of 510 ug/L and 280 ug/L, respectively. Concentrations of total xylenes have historically ranged from non-detect to 330 ug/L at DA-MW41 and concentrations of 1,2,4-trimethylbenzene have historically ranged from non-detect to 83 ug/L.

3.3 Operable Unit 5 Results

Groundwater samples in OU-5 were collected from monitoring wells MW-48R, MW-109R, MW-112 and MW-113R. As described in Section 2, samples were collected from these wells were analyzed for the following parameters:

- Total and dissolved metals: MW-48R, MW-109R, MW-112, and MW-113R; and,
- Benzene and TCE: MW-48R.

VOC data are summarized in Table 2 and presented in Figure 5.2. Metals data are summarized in Table 4 and presented in Figure 5.3.

3.3.1 Operable Unit 5 TCE and Benzene Results

The groundwater sample collected from MW-48R was non-detect for benzene but exceeded HSCA screening level for TCE (1.5 µg/L). TCE concentrations have ranged from non-detect during the November 2017 sampling event to 3.8 ug/L during the Year 1 LTS sampling event in January 2023.

3.3.2 Operable Unit 5 Metals Results

The groundwater samples collected from MW-48R exceeded HSCA screening levels for total aluminum (3,430 ug/L), total antimony (0.88 ug/L), total chromium (10.7 ug/L), total and dissolved cobalt (4.7 ug/L and 2.5 ug/L, respectively), total iron (3,450 ug/L), total and dissolved manganese (5,140 and 5,200 ug/L, respectively), and total vanadium (10.9 ug/L). Dissolved aluminum, antimony, chromium, iron, and vanadium were detected below the HSCA screening levels. Aluminum, antimony, chromium, cobalt, iron, and manganese exceedances were less than historical maximum concentrations for these compounds within OU-5 and antimony, chromium, cobalt, iron, manganese, and vanadium exceedances were equal to or less than the historical maximum at MW-48R (see Appendix E). The total aluminum exceedance at MW-48R (3,430 ug/L) was greater than the historical maximum at MW-48R (2,550 ug/L) from November 2023.

The groundwater samples collected from MW-109R, in both the parent and duplicate samples, did not have any detected concentrations that exceeded HSCA screening levels.

The groundwater sample collected from MW-112 exceeded HSCA screening levels for total and dissolved cobalt (3.4 ug/L and 3.2 ug/L, respectively) and total and dissolved manganese (549 and 560 ug/L, respectively). Exceedances of total and dissolved cobalt and manganese were less than the historical maximum within OU-5 and at MW-112 (see Appendix E).

The groundwater sample collected from MW-113R exceeded HSCA screening levels for total aluminum (2,910 ug/L), total and dissolved cobalt (9.4 ug/L and 6.8 ug/L, respectively), total iron (2,350 ug/L), total and dissolved manganese (2,060 and 1,880 ug/L, respectively), and total vanadium (12.8 ug/L). Total cobalt, total iron, and total and dissolved manganese exceedances were less than the historical maximum within OU-5 (see Table 4) and the historical maximum concentrations at MW-113 (see Appendix E). The total aluminum and total vanadium exceedances were greater than the historical maximum concentrations at MW-113 but below the historical maximum within OU-5.

Concentrations of metals at OU-5 wells (MW-48R, MW-109R, MW-112, and MW-113) were near or less than historical levels in OU-5. For most constituents where an elevated concentration greater than the HSCA screening level was observed in the totals sample, the dissolved sample was detected below the HSCA screening levels. The elevated concentrations in the totals samples are likely results of high turbidity. For example, turbidity was stable but elevated at MW-48R prior to sampling, measured at 421 NTU. OU-5 wells were redeveloped prior to Year 3 sampling, and compared to Year 2 results, total metals generally decreased. Dissolved metal samples were collected for comparison to total metals, and in general, dissolved metals were detected below the HSCA screening levels, with the exception of those noted above.

3.3.3 Ecological Impacts to Surface Water

An evaluation of mass loading into the nearby stream, Little Mill Creek, was performed for constituents that exceeded the HSCA Ecological Surface Water Fresh (Eco Fresh) Screening Levels in groundwater. Groundwater data screened against HSCA Eco Fresh Screening Levels are presented in Appendix E. The mass loading evaluation is included in Appendix F. The following section summarizes the evaluation of the potential ecological impacts of OU-5 groundwater to surface water in Little Mill Creek by conservatively calculating surface water concentrations using the maximum detected groundwater concentrations.

3.3.3.1 Estimated Surface Water Concentrations

Surface water concentrations were conservatively calculated for the metals that exceeded HSCA Eco Fresh Screening Levels in groundwater from the OU-5 perimeter wells MW-48R, MW-109R, MW-112, and MW-113R, as presented below in Table 2.1 and detailed in Appendix F. The estimated surface water concentrations are significantly below the respective HSCA Eco Fresh Screening Levels.

Table 2.1 Estimated Surface Water Concentrations

Constituent	HSCA Eco Fresh Screening Level (ug/L)	Maximum Concentration (ug/L)	Estimated Surface Water Concentration (ug/L)
Aluminum	87	3,430	1.42
Barium	4	246	0.10
Iron	300	3,450	1.43
Lead	2.5	11.5	4.8x10 ⁻³
Manganese	120	5,200	2.2
Selenium	1	1.4	5.8x10 ⁻⁴

Based on these estimated surface water concentrations, even though mass loading from groundwater to Little Mill Creek surface water may be occurring, aquatic life in Little Mill Creek is not impacted by the migration of metals from OU-5 groundwater.

4. Operable Unit 5 Cap Inspection

The Final Plan of Remedial Action for OU-5 was approved in August 2019, which included a temporary asphalt cap over the Test Track Area that required quarterly cap inspections until a permanent cap was constructed. Quarterly cap inspections of the temporary cap ceased in December 2020 as requested in a December 4, 2020, letter to DNREC and approved by DNREC via email on December 14, 2020, due to ongoing redevelopment activities in OU-5. Dermody completed installation of the permanent cap in August 2021 consisting of a concrete building slab, landscaping, and concrete or pavement parking lots/roadways as documented in BrightFields' November 8, 2021, *Documentation of Cap Placement* letter (BrightFields 2021).

As described in the LTS, annual permanent cap inspections will be performed. The annual inspection will consist of a visual inspection of the cap covers (concrete slab, concrete and paved parking lots/roadways, landscaped areas) for potential breaches that could result in chronic direct contact exposure to the soil beneath the cap.

4.1 Year 3 Inspection

Inspection of the OU-5 permanent cap was completed on October 29, 2024. The cap inspection form is included as Appendix G. The cap inspection indicated the cap to be in overall good condition and remains protective of human health and the environment. Some missing grass on the west side of the berm beyond semi-loading was evident. Additionally, several small surficial cracks on the pavement were detected behind the loading area at the point of intersection between the concrete and asphalt and in the concrete parking area.

5. Summary, Conclusions, and Recommendations

The following sections present a summary of the Year 3 Groundwater Monitoring Event, and a discussion of and recommendations on potential future monitoring plan adjustments.

5.1 Year 3 Monitoring Summary

As detailed above, this Year 3 Groundwater Monitoring Report describes implementation of Year 3 (October 2024) of the LTS for the Site. As detailed in the LTS, a well condition assessment was performed, water levels measured, and analytical samples were collected from select monitoring wells in OU-2, OU-4, and OU-5. The well inspection indicated that minor repairs are needed to monitoring well MW-109R (OU-5) and MW-113R, to be completed in the future concurrently with the abandonment of OU-4 off-Site monitoring wells. MW-36D was filled with sediment and is assumed to have collapsed. GHD recommends abandoning MW-36D concurrently with the abandonment of off-Site monitoring wells in OU-4.

Analytical data generated from the Year 3 Groundwater Monitoring Event are generally consistent with analytical data from the Year 1 and Year 2 sampling events and meet the objectives outlined in the LTS Groundwater Monitoring Plan for each OU: ensure impacted groundwater is not extending beyond the OU-2 and OU-5 boundaries and impacted groundwater in OU-4 is stable. At the completion of the 5-year monitoring period, the LTS groundwater data will be evaluated to determine whether concentrations are increasing, and adjustments may be proposed to the monitoring plan (see Section 5.2), as appropriate.

Year 3 analytical data indicated certain concentrations that exceed the HSCA groundwater screening levels in the LTS wells. Compounds that exceeded HSCA groundwater screening levels did not exceed the respective historical maximums within OU-2, OU-4, and OU-5. Compared to Year 2 results, OU-5 exceedances of metals generally decreased following well redevelopment, which supports the conclusion in the Year 2 report that these wells may have been improperly developed after installation. In addition to groundwater monitoring, an inspection of the cap in OU-5 was performed (Appendix G). The inspection identified the cap to be in good condition; however, some missing grass on the west side of the berm beyond semi-loading was evident. Additionally, several small surficial cracks on the pavement were detected behind the loading area at the point of intersection between the concrete and asphalt and in the concrete parking area.

5.2 Monitoring Plan Adjustments

The groundwater monitoring plan duration was set in the LTS as 5 years in total (four additional sampling events). Analytical data from the sampling events will be compared to historical data to determine if constituent concentrations are increasing or migrating. After five sampling events the monitoring plan will be adjusted, as appropriate, to increase or decrease frequency of sampling, as described in the following sections.

5.2.1 Monitoring Plan: Step Up

As stated in the LTS, following the completion of five sampling events, analytical results will be compared to historical data to determine if COC concentrations are increasing, decreasing or stable. If a statistically significant increase in concentration of COCs is observed, RACER Trust will contact DNREC to discuss the next steps including evaluating active remediation.

5.2.2 Monitoring Plan: Step Down

After five sampling events, analytical results will be compared to historical data, by OU, to determine if COC concentrations are increasing, decreasing or stable. If a statistically significant decrease in concentrations of COCs is

observed at the perimeter wells, or they are non-detect for COCs, the monitoring frequency will decrease from annually to biennially. If COCs continually decrease or remain stable at the monitoring wells after eight consecutive biennial monitoring events (i.e., sixteen years) RACER Trust will submit a written request to DNREC to eliminate the groundwater monitoring program. This analysis will be conducted independently for OU-2, OU-4, and OU-5.

5.3 Additional Actions

5.3.1 Repairs

The well inspection indicated that minor repairs are needed to monitoring wells MW 109R, MW-113R, MW-36S, MW-36D, and MW-50R. The concrete pad at MW 109R in OU 5 is loose and needs to be replaced and bolts are missing from MW-113R, MW-36S and MW-50R. The concrete pad at MW-50R is cracked. The monitoring well MW-36D is filled with sediment and assumed to have collapsed. These repairs will be made concurrently with the OU-4 off-Site monitoring well abandonment.

6. References

- Brightfields, Inc. 2021. Letter to Mr. Rick Galloway, DNREC, regarding Documentation of Cap Placement, Former GM Assembly Plant (DE-1149) - Operable Unit 5, Wilmington, Delaware, BrightFields 3963.03.52. November 8.
- Conestoga-Rovers & Associates. 2015. Remedial Investigation Report, Former GM Wilmington Assembly Plant, Prepared for RACER Trust. July.
- DNREC – Remediation Section. 2020. Guidance for Analytical Data Usability Assessment for Programs Under Hazardous Substance Cleanup Act (HSCA). May.
- GHD. 2022. Long-Term Stewardship Plan: OU-1 through OU-5, Former GM Wilmington Assembly Plant, Wilmington, Delaware, RACER Trust. January 14.
- United States Environmental Protection Agency. 2020. National Functional Guidelines for Organic Superfund Methods Data Review, 540-R-20-005. November.
- United States Environmental Protection Agency. 2020. National Functional Guidelines for Inorganic Superfund Methods Data Review, 542-R-20-006, November.

Table 1

Groundwater Elevation Data
Long-Term Stewardship Plan Groundwater Sampling Report, Year 3
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Well	Coordinates		TOC Elevation (feet amsl)	Ground Elevation (feet amsl)	Measured Total Depth (feet bgs)	Screen Length (feet)	Depth to Water (feet below TOC)	Water Elevation (feet amsl)
	Northing	Easting						
Operable Unit 2								
MW-8R	629287.640	600410.090	82.49	-	19.50	10	15.64	66.85
MW-9R	629873.770	600068.980	83.14	-	19.69	10	13.59	69.55
MW-19R	629593.420	600357.460	79.18	-	18.95	10	10.98	68.20
Operable Unit 4								
MW-36D	629200.289	602374.450	80.68	80.90	17.35*	5	16.39*	64.29
MW-36S	629188.746	602373.059	80.79	81.23	22.55	10	16.36	64.43
MW-40	629219.970	602578.160	79.46	-	22.51	10	15.45	64.01
MW-41	629307.620	602592.810	78.24	-	24.32	10	14.53	63.71
MW-50R	629260.179	602381.634	80.34	80.50	24.35	15	16.01	64.33
Operable Unit 5								
MW-28R	629916.450	602684.690	73.54	73.74	19.6	10	10.04	63.50
MW-48R	630325.799	603371.716	70.78	70.86	15.93	10	8.71	62.07
MW-109R	630691.629	603493.433	71.13	71.29	16.32	10	11.72	59.41
MW-112	630558.203	603446.161	71.39	71.71	17.75	10	11.75	59.64
MW-113R	630428.085	603409.008	70.44	70.57	17.13	10	9.61	60.83

Note:

TOC = top of casing; amsl = above mean sea level; bgs = below ground surface

* - MW-36D total depth was gauged at 17.35 ft bgs, the constructed well depth is 39 ft bgs. Based on field observations that the well was filled with sediment, it is

Table 2

Groundwater Analytical Results - Volatile Organic Compounds Detections

Long-Term Stewardship Plan Groundwater Sampling Report, Year 3

Former GM Wilmington Assembly Plant

Wilmington, Delaware

Operable Units: Sample Location:							OU-2 MW-8R GW-11222397- 103024-ES-07	OU-2 MW-9R GW-11222397- 103024-CT-02	OU-2 MW-19R GW-11222397- 103024-ES-04	OU-2 MW-19R GW-11222397- 103024-ES-05	OU-4 DA-MW41 GW-11222397- 110124-ES-20	OU-4 DA-MW40 GW-11222397- 103124-ES-10	OU-4 MW-36S GW-11222397- 103124-ES-08	OU-4 MW-50R GW-11222397- 103124-CT-12	OU-5 MW-48R GW-11222397- 103124-ES-16
Sample ID:		Historical Maximum	HSCA	Historical Maximum	Historical Maximum	Historical Maximum	10/30/2024	10/30/2024	10/30/2024	10/30/2024	11/1/2024	10/31/2024	10/31/2024	10/31/2024	10/31/2024
Sample Date:		Concentration	Groundwater Criteria November 2023 ^(c)	Concentration	Concentration	Concentration				Duplicate					
		Exceeding HSCA ^(a)			OU-2	OU-4									
Parameters		Units													
VOCs															
1,2,4-Trimethylbenzene	ug/L	2800	5.6	3500	2800	-	0.37 U	0.37 U	2.6	2.7	280	370	67	11	-
1,2-Dichloroethane	ug/L	71	0.17	0.8	71	-	0.43 U	0.43 U	0.43 U	0.43 U	0.86 U	0.43 U	0.43 U	14	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	850	560	850	90	-	1.9 U	1.9 U	3.5 J	1.9 U	3.7 U	1.9 U	1.9 U	15 J	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	1900 J	630	1900	30	-	1.3 U	1.3 U	1.3 U	1.3 U	2.6 U	1.3 U	1.3 U	6.5 U	-
Acetone	ug/L	470000 J	1800	470000	280	-	4.4 U	4.4 U	17	15	16	4.4 U	4.4 U	45	-
Benzene	ug/L	1500	0.46	1200	1500	15	0.20 U	0.20 U	0.20 U	0.20 U	0.41 U	0.20 U	130	880	0.20 U
Carbon disulfide	ug/L	--	81	19	0.77	-	0.82 U	0.82 U	7.3	7.1	1.6 U	0.82 U	0.82 U	4.1 U	-
cis-1,2-Dichloroethene	ug/L	9.2	2.5	7.1	1.8	-	0.22 U	0.22 U	1.7	1.9	0.44 U	0.22 U	0.22 U	1.1 U	-
Ethylbenzene	ug/L	22000	1.5	22000	2400	-	0.30 U	0.30 U	1.1	0.95 J	170	110	190	530	-
Methyl acetate	ug/L	--	2000	45	-	-	0.79 U	0.79 U	0.79 U	0.79 U	1.6 U	0.79 U	0.79 U	3.9 U	-
Methyl cyclohexane	ug/L	--	-	200	370	-	0.71 U	0.71 U	0.71 U	0.71 U	77	95	24	93	-
Methylene chloride	ug/L	91	5	0.38	91	-	0.32 U	0.32 U	0.32 U	0.32 U	0.63 U	0.32 U	0.32 U	1.6 U	-
Styrene	ug/L	--	100	1.8	72	-	0.42 U	0.42 U	0.50 J	0.48 J	0.92 J	0.42 U	0.42 U	2.1 U	-
Tetrachloroethene	ug/L	8.9	1	0.8	1.3	-	0.67 J	0.25 U	0.25 U	0.25 U	0.50 U	0.25 U	0.25 U	1.2 U	-
Toluene	ug/L	190000	110	190000	6100	-	0.38 U	0.38 U	0.51 J	0.53 J	25	0.38 U	16	190	-
Trichloroethene	ug/L	9.5	0.28	3	9.5	3.8	0.35 J	0.31 U	0.44 J	0.31 U	0.63 U	0.31 U	0.31 U	1.6 U	1.5
Trichlorofluoromethane (CFC-11)	ug/L	--	520	3.4	-	-	2.9	0.32 U	0.32 U	0.32 U	0.64 U	0.32 U	0.32 U	1.6 U	-
Vinyl chloride	ug/L	42	0.019	2.5	23	-	0.17 U	0.17 U	1.7	1.6	0.34 U	0.17 U	0.17 U	0.86 U	-
Xylenes (total)	ug/L	35000	19	35000	13000	-	0.65 U	0.65 U	4.7	4.6	510	650	150	210	-

Notes:

For clarity, only compounds detected above reporting limits are shown.

µg/L= micrograms per liter; DNREC = Department of Natural Resources and Environmental Control; HSCA = Hazardous Substance Cleanup Act; J = estimated concentration; VOCs = volatile organic compounds; U = not detected at the associated reporting limit

Red values exceed the Delaware DNREC HSCA Groundwater Screening Levels, updated November 2023.

a) Maximum historical concentration of analyte exceeding the HSCA Groundwater Screening Levels, November 2023 across the Site

b) Maximum historical concentration of analyte detected at individual operable units OU-2, OU-4, and OU-5

c) Hazardous Substance Cleanup Act (HSCA) Groundwater Screening Levels, November 2023

"--" compound was not analyzed for

Groundwater Analytical Results - Semi-Volatile Organic Compound Detections
LTS Plan Groundwater Sampling Report, Year 3
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:		Historical Maximum Concentration Exceeding HSCA ^(a)	HSCA Groundwater Criteria November 2023 ^(c)	Historical Maximum Concentration OU-4 ^(b)	OU-4 DA-MW41 GW-11222397- 110124-ES-20 11/1/2024	OU-4 DA-MW40 GW-11222397- 103124-ES-10 10/31/2024	OU-4 MW-36S GW-11222397- 103124-ES-08 10/31/2024	OU-4 MW-36S GW-11222397- 103124-ES-09 10/31/2024 Duplicate	OU-4 MW-50R GW-11222397- 103124-CT-12 10/31/2024
Parameters	Units								
SVOCs									
2-Methylnaphthalene	ug/L	180	3.6	180	6.5 J	8.0 J	3.4 J	4.2 J	2.2 J
2-Methylphenol	ug/L	290	93	21	0.67 U	0.67 U	0.67 U	0.67 U	0.74 J
Acetophenone	ug/L	460	190	48	2.3 U	7.7 J	2.3 U	2.3 U	11
Naphthalene	ug/L	3200	0.12	310	43	35	10	13	48
N-Nitrosodi-n-propylamine	ug/L	--	0.011	1.2	0.43 U	0.43 U	0.43 U	0.43 U	1.2
Phenol	ug/L	--	580	11	0.29 U	0.29 U	0.29 U	0.29 U	2.6 J

Notes:

For clarity, only compounds detected above reporting limits are shown.

µg/L= micrograms per liter; DNREC = Department of Natural Resources and Environmental Control; HSCA = Hazardous Substance Cleanup Act; J = estimated concentration; SVOCs = semi-volatile organic compounds; U = not detected at the associated reporting limit.

Red values exceed the Delaware DNREC HSCA Groundwater Screening Levels, updated November 2023.

a) Maximum historical concentration of analyte exceeding the HSCA Groundwater Screening Levels, November 2023 across the Site

b) Maximum historical concentration of analyte detected at OU-4

c) Hazardous Substance Cleanup Act (HSCA) Groundwater Screening Levels, November 2023

"--" compound was not analyzed for

Table 4

Groundwater Analytical Data - Metal Detections

Long-Term Stewardship Plan Groundwater Sampling Report, Year 3

Former GM Wilmington Assembly Plant

Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:		Historical Maximum Concentration Exceeding HSCA ^(a)	HSCA Groundwater Criteria November 2023 ^(c)	Historical Maximum Concentration OU-5 ^(b)	OU-5 MW-48R	OU-5 MW-113R	OU-5 MW-109R	OU-5 MW-109R	OU-5 MW-112	
					GW-11222397-103124-ES-16 10/31/2024	GW-11222397-110124-ES-21 11/1/2024	GW-11222397-103124-CT-18 10/31/2024	GW-11222397-103124-CT-19 10/31/2024 Duplicate	GW-11222397-103124-CT-15 10/31/2024	
Parameters	Units									
Metals										
Aluminum	ug/L	77700	2000	32100	3430	2910	73.9	63.4	247	
Aluminum (dissolved)	ug/L	560	2000	560	19.9 J	19.5 U	19.5 U	19.5 U	19.5 U	
Antimony	ug/L	49.4	0.78	49.4	0.88 J	0.76 U	0.76 U	0.76 U	0.76 U	
Antimony (dissolved)	ug/L	--	0.78	-	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	
Barium	ug/L	1390	380	1390	160	217	150	145	230	
Barium (dissolved)	ug/L	1030	380	1030	152	222	157	161	246	
Beryllium	ug/L	--	2.5	2.6	0.14 J	0.16 J	0.13 U	0.13 U	0.13 U	
Beryllium (dissolved)	ug/L	--	2.5	-	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	
Calcium	ug/L	109000	-	102000	27400	31700	52200	50400	46700	
Calcium (dissolved)	ug/L	113000	-	113000	29300	32400	53100	53500	49200	
Chromium (dissolved)	ug/L	7.6	10	-	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	
Chromium (Trivalent and compounds)	ug/L	145	10	57.7	10.7	9.6	2.5 U	2.5 U	2.5 U	
Cobalt	ug/L	234	0.6	53.4	4.7	9.4	0.71 U	0.71 U	3.4 J	
Cobalt (dissolved)	ug/L	216	0.6	54.9	2.5 J	6.8	0.71 U	0.71 U	3.2 J	
Copper	ug/L	65.7	80	18.3	5.2	4.9	2.5 U	2.5 U	2.5 U	
Copper (dissolved)	ug/L	3.6	80	3.6	2.5 U	3.6 J	2.5 U	2.6 J	2.5 U	
Iron	ug/L	285000	1400	78400	3450	2350	100 J	78.4 J	230	
Iron (dissolved)	ug/L	245000	1400	47500	58.2 U	58.2 U	58.2 U	58.2 U	83.4 J	
Lead	ug/L	124	15	76.9	11.5	4.1	0.84 U	0.84 U	0.84 U	
Lead (dissolved)	ug/L	3.3	15	-	0.84 U	0.84 U	0.84 U	0.84 U	0.84 U	
Magnesium	ug/L	138000	-	138000	29400	28200	18800	18400	30000	
Magnesium (dissolved)	ug/L	144000	-	144000	28700	26600	18700	18300	29400	
Manganese	ug/L	32400	43	12200	5140	2060	16.8	15.2	549	
Manganese (dissolved)	ug/L	29100	43	7910	5200	1880	17.4	16.0	560	
Nickel	ug/L	76.7	39	27.5	11.2	7.2	1.6 J	1.4 J	5.9	
Nickel (dissolved)	ug/L	44.7	39	44.7	9.1	5.0	1.0 J	1.3 J	3.8 J	
Potassium	ug/L	35100	-	35100	3560	5050	7010	6650	6940	
Potassium (dissolved)	ug/L	24700	-	6950	3380	4830	6890	6930	6950	
Selenium	ug/L	16	10	7.6	0.66 J	0.59 U	0.59 U	0.59 U	0.59 U	
Selenium (dissolved)	ug/L	13.1	10	13.1	1.4 J	0.84 J	0.82 J	0.84 J	0.81 J	
Sodium	ug/L	272000	-	248000	93100	70200	66400	63900	101000	
Sodium (dissolved)	ug/L	261000	-	261000	91700	66900	64700	63200	96300	
Vanadium	ug/L	199	8.6	99.7	10.9	12.8	1.3 J	1.1 J	1.3 J	
Vanadium (dissolved)	ug/L	1.9	8.6	1.5	0.68 U	1.5 J	0.68 U	0.68 U	0.68 U	
Zinc	ug/L	237	600	196	21.1	9.1 J	6.5 U	6.5 U	7.5 J	
Zinc (dissolved)	ug/L	88.5	600	88.5	8.5 J	6.5 U	6.5 U	6.5 U	6.5 U	

Notes:

For clarity, only compounds detected above reporting limits are shown.

ug/L= micrograms per liter; DNREC = Department of Natural Resources and Environmental Control; HSCA = Hazardous Substance Cleanup Act; J = estimated concentration; U = not detected at the associated reporting limit.

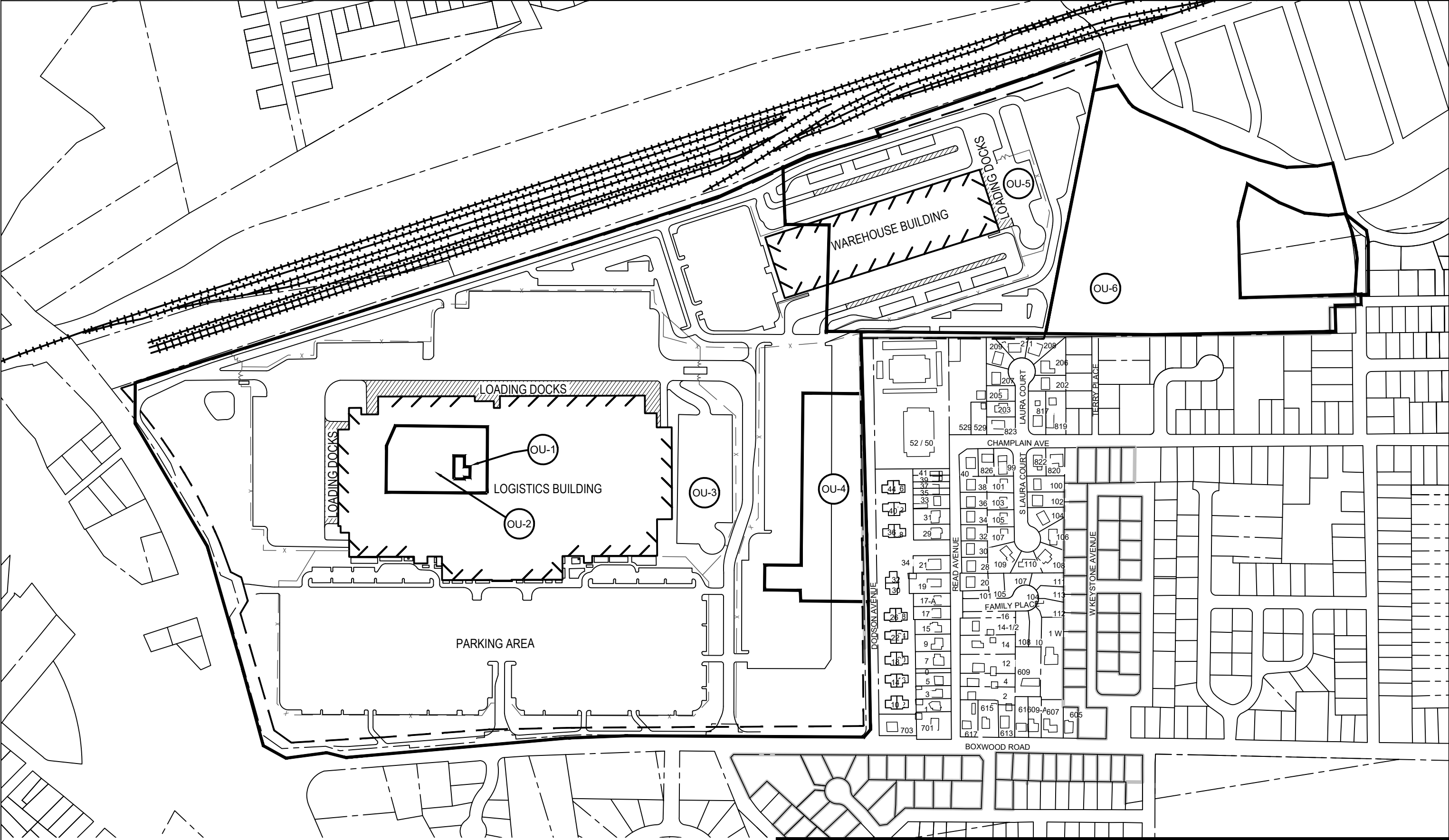
Red values exceed the Delaware DNREC Hazardous Substance Cleanup Act Groundwater Screening Levels, updated November 2023.

a) Maximum historical concentration of analyte exceeding the HSCA Groundwater Screening Levels, November 2023 across

b) Maximum historical concentration of analyte detected at OU-5

c) Hazardous Substance Cleanup Act (HSCA) Groundwater Screening Levels, November 2023

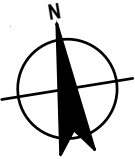
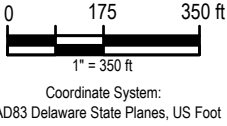
"--" compound was not analyzed for



LEGEND

- APPROXIMATE FACILITY BOUNDARY
- OPERABLE UNIT (OU) BOUNDARY
- ++++ RAILWAY
- - - FENCELINE

NOTE: BUILDING LAYOUT AS OF 2021

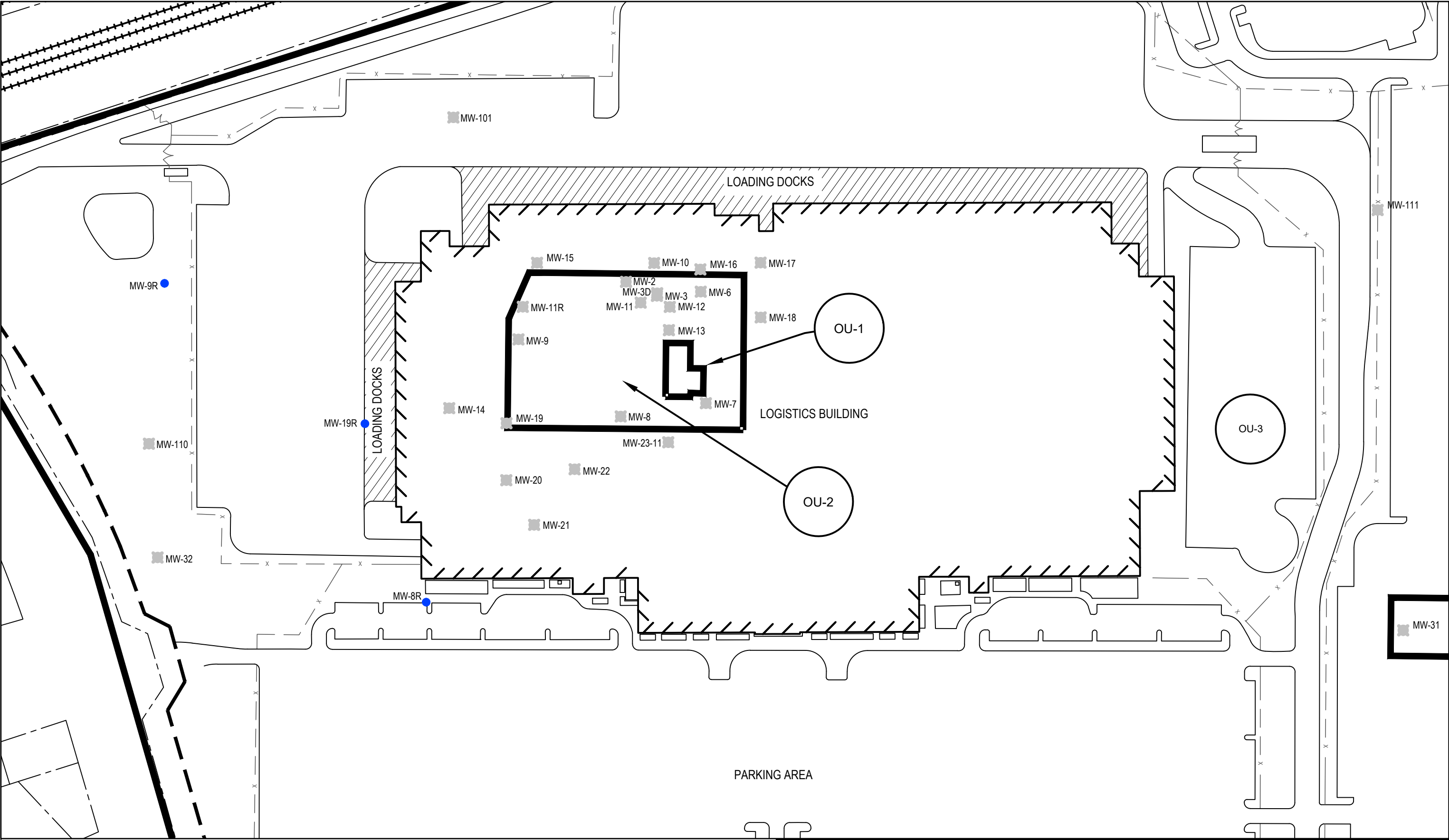


RACER TRUST
WILMINGTON, DELAWARE
LTS GROUNDWATER MONITORING

Project No. 11222397
Date January 2025

LOCATION OF OPERABLE UNITS

FIGURE 2



LEGEND

--- APPROXIMATE FACILITY BOUNDARY

--- OPERABLE UNIT (OU) BOUNDARY

++++ RAILWAY

-x- FENCELINE

MW-28 ABANDONED MONITORING WELL

MW-9R LTS MONITORING WELL

0 75 150 ft

1" = 150 ft

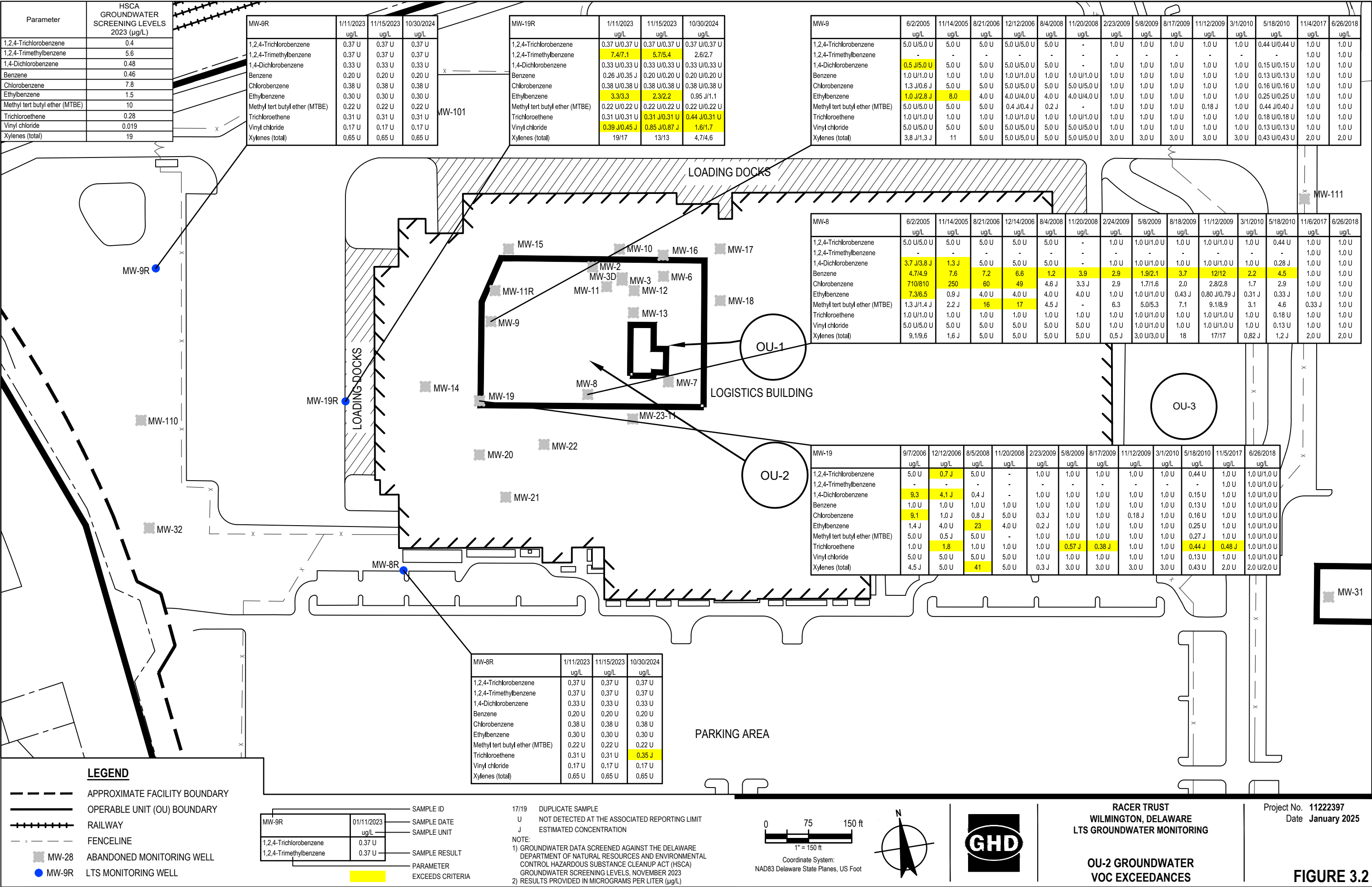
Coordinate System:
NAD83 Delaware State Planes, US Foot

RACER TRUST
WILMINGTON, DELAWARE
LTS GROUNDWATER MONITORING

OU-2 GROUNDWATER
MONITORING LOCATIONS

Project No. 11222397
Date January 2025

FIGURE 3.1



MW-8

6/2/2005
ug/L

11/14/2005
ug/L

8/21/2006
ug/L

12/14/2006
ug/L

8/4/2008
ug/L

11/20/2008
ug/L

2/24/2009
ug/L

5/8/2009
ug/L

8/18/2009
ug/L

11/12/2009
ug/L

3/1/2010
ug/L

5/18/2010
ug/L

11/6/2017
ug/L

6/26/2018
ug/L

1,2,4-Trichlorobenzene

5.0 U/5.0 U

5.0 U

5.0 U

5.0 U

5.0 U

-

1.0 U

1.0 U/1.0 U

1.0 U

1.0 U/1.0 U

1.0 U

0.44 U

1.0 U

1.0 U

1,2,4-Trimethylbenzene

-

-

-

-

-

-

-

-

-

-

-

-

1.0 U

1.0 U

1,4-Dichlorobenzene

3.7 J/3.8 J

1.3 J

5.0 U

5.0 U

5.0 U

-

1.0 U

1.0 U/1.0 U

1.0 U

1.0 U/1.0 U

1.0 U

0.28 J

1.0 U

1.0 U

Benzene

4.7/4.9

7.6

7.2

6.6

1.2

3.9

2.9

1.9/2.1

3.7

12/12

2.2

4.5

1.0 U

1.0 U

Chlorobenzene

710/810

250

60

49

4.6 J

3.3 J

2.9

1.7/1.6

2.0

2.8/2.8

1.7

2.9

1.0 U

1.0 U

Ethylbenzene

7.3/6.5

0.9 J

4.0 U

4.0 U

4.0 U

4.0 U

1.0 U

1.0 U/1.0 U

0.43 J

0.80 J/0.79 J

0.31 J

0.33 J

1.0 U

1.0 U

Methyl tert butyl ether (MTBE)

1.3 J/1.4 J

2.2 J

16

17

4.5 J

-

6.3

5.0/5.3

7.1

9.1/8.9

3.1

4.6

0.33 J

1.0 U

Trichloroethene

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

1.0 U

1.0 U/1.0 U

1.0 U

0.18 U

1.0 U

1.0 U

Vinyl chloride

5.0 U/5.0 U

5.0 U

5.0 U

5.0 U

5.0 U

5.0 U

1.0 U

1.0 U/1.0 U

1.0 U

1.0 U/1.0 U

1.0 U

0.13 U

1.0 U

1.0 U

Xylenes (total)

9.1/9.6

1.6 J

5.0 U

5.0 U

5.0 U

5.0 U

0.5 J

3.0 U/3.0 U

18

17/17

0.82 J

1.2 J

2.0 U

2.0 U

MW-19

9/7/2006
ug/L

12/12/2006
ug/L

8/5/2008
ug/L

11/20/2008
ug/L

2/23/2009
ug/L

5/8/2009
ug/L

8/17/2009
ug/L

11/12/2009
ug/L

3/1/2010
ug/L

5/18/2010
ug/L

11/5/2017
ug/L

6/26/2018
ug/L

1,2,4-Trichlorobenzene

5.0 U

0.7 J

5.0 U

-

1.0 U

1.0 U

1.0 U

1.0 U

1.0 U

0.44 U

1.0 U

1.0 U/1.0 U

1,2,4-Trimethylbenzene

-

-

-

-

-

-

-

-

-

-

-

1.0 U/1.0 U

1,4-Dichlorobenzene

9.3

4.1 J

0.4 J

-

1.0 U

1.0 U

1.0 U

1.0 U

1.0 U

0.15 U

1.0 U

1.0 U/1.0 U

Benzene

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

0.13 U

1.0 U

1.0 U/1.0 U

Chlorobenzene

9.1

1.0 J

0.8 J

5.0 U

0.3 J

1.0 U

1.0 U

0.18 J

1.0 U

0.16 U

1.0 U

1.0 U/1.0 U

Ethylbenzene

1.4 J

4.0 U

23

4.0 U

0.2 J

1.0 U

1.0 U

1.0 U

1.0 U

0.25 U

1.0 U

1.0 U/1.0 U

Methyl tert butyl ether (MTBE)

5.0 U

0.5 J

5.0 U

-

1.0 U

1.0 U

1.0 U

1.0 U

1.0 U

0.27 J

1.0 U

1.0 U/1.0 U

Trichloroethene

1.0 U

1.8

1.0 U

1.0 U

1.0 U

0.57 J

0.38 J

1.0 U

1.0 U

0.44 J

0.48 J

1.0 U/1.0 U

Vinyl chloride

5.0 U

5.0 U

5.0 U

5.0 U

1.0 U

1.0 U

1.0 U

1.0 U

1.0 U

0.13 U

1.0 U

1.0 U/1.0 U

Xylenes (total)

4.5 J

5.0 U

41

5.0 U

0.3 J

3.0 U

3.0 U

3.0 U

3.0 U

0.43 U

2.0 U

2.0 U/2.0 U

MW-8R

1/11/2023
ug/L

11/15/2023
ug/L

10/30/2024
ug/L

1,2,4-Trichlorobenzene

0.37 U

0.37 U

0.37 U

1,2,4-Trimethylbenzene

0.37 U

0.37 U

0.37 U

1,4-Dichlorobenzene

0.33 U

0.33 U

0.33 U

Benzene

0.20 U

0.20 U

0.20 U

Chlorobenzene

0.38 U

0.38 U

0.38 U

Ethylbenzene

0.30 U

0.30 U

0.30 U

Methyl tert butyl ether (MTBE)

0.22 U

0.22 U

0.22 U

Trichloroethene

0.31 U

0.31 U

0.35 J

Vinyl chloride

0.17 U

0.17 U

0.17 U

Xylenes (total)

0.65 U

0.65 U

0.65 U

Parameter

HSCA
GROUNDWATER
SCREENING LEVELS
2023 (ug/L)

1,2,4-Trichlorobenzene

0.4

1,2,4-Trimethylbenzene

5.6

1,4-Dichlorobenzene

0.48

Benzene

0.46

Chlorobenzene

7.8

Ethylbenzene

1.5

Methyl tert butyl ether (MTBE)

10

Trichloroethene

0.28

Vinyl chloride

0.019

Xylenes (total)

19

MW-9R

1/11/2023
ug/L

11/15/2023
ug/L

10/30/2024
ug/L

1,2,4-Trichlorobenzene

0.37 U

0.37 U

0.37 U

1,2,4-Trimethylbenzene

0.37 U

0.37 U

0.37 U

1,4-Dichlorobenzene

0.33 U

0.33 U

0.33 U

Benzene

0.20 U

0.20 U

0.20 U

Chlorobenzene

0.38 U

0.38 U

0.38 U

Ethylbenzene

0.30 U

0.30 U

0.30 U

Methyl tert butyl ether (MTBE)

0.22 U

0.22 U

0.22 U

Trichloroethene

0.31 U

0.31 U

0.31 U

Vinyl chloride

0.17 U

0.17 U

0.17 U

Xylenes (total)

0.65 U

0.65 U

0.65 U

MW-19R

1/11/2023
ug/L

11/15/2023
ug/L

10/30/2024
ug/L

1,2,4-Trichlorobenzene

0.37 U/0.37 U

0.37 U/0.37 U

0.37 U/0.37 U

1,2,4-Trimethylbenzene

7.4/7.1

5.7/5.4

2.6/2.7

1,4-Dichlorobenzene

0.33 U/0.33 U

0.33 U/0.33 U

0.33 U/0.33 U

Benzene

0.26 J/0.35 J

0.20 U/0.20 U

0.20 U/0.20 U

Chlorobenzene

0.38 U/0.38 U

0.38 U/0.38 U

0.38 U/0.38 U

Ethylbenzene

3.3/3.3

2.3/2.2

0.95 J/1.1

Methyl tert butyl ether (MTBE)

0.22 U/0.22 U

0.22 U/0.22 U

0.22 U/0.22 U

Trichloroethene

0.31 U/0.31 U

0.31 J/0.31 U

0.44 J/0.31 U

Vinyl chloride

0.39 J/0.45 J

0.85 J/0.87 J

1.6/1.7

Xylenes (total)

19/17

13/13

4.7/4.6

MW-9

6/2/2005
ug/L

11/14/2005
ug/L

8/21/2006
ug/L

12/12/2006
ug/L

8/4/2008
ug/L

11/20/2008
ug/L

2/23/2009
ug/L

5/8/2009
ug/L

8/17/2009
ug/L

11/12/2009
ug/L

3/1/2010
ug/L

5/18/2010
ug/L

11/4/2017
ug/L

6/26/2018
ug/L

1,2,4-Trichlorobenzene

5.0 U/5.0 U

5.0 U

5.0 U

5.0 U/5.0 U

5.0 U

-

1.0 U

1.0 U

1.0 U

1.0 U

0.44 U/0.44 U

1.0 U

1.0 U

1,2,4-Trimethylbenzene

-

-

-

-

-

-

-

-

-

-

-

-

1.0 U

1.0 U

1,4-Dichlorobenzene

0.5 J/5.0 U

5.0 U

5.0 U

5.0 U/5.0 U

5.0 U

-

1.0 U

1.0 U

1.0 U

1.0 U

0.15 U/0.15 U

1.0 U

1.0 U

Benzene

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

1.0 U

1.0 U

1.0 U

0.13 U/0.13 U

1.0 U

1.0 U

Chlorobenzene

1.3 J/0.6 J

5.0 U

5.0 U

5.0 U/5.0 U

5.0 U

5.0 U/5.0 U

1.0 U

1.0 U

1.0 U

1.0 U

0.16 U/0.16 U

1.0 U

1.0 U

Ethylbenzene

1.0 J/2.8 J

8.0

4.0 U

4.0 U/4.0 U

4.0 U

4.0 U/4.0 U

1.0 U

1.0 U

1.0 U

1.0 U

0.25 U/0.25 U

1.0 U

1.0 U

Methyl tert butyl ether (MTBE)

5.0 U/5.0 U

5.0 U

5.0 U

0.4 J/0.4 J

0.2 J

-

1.0 U

1.0 U

1.0 U

0.18 J

1.0 U

0.44 J/0.40 J

1.0 U

1.0 U

Trichloroethene

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

1.0 U

1.0 U

1.0 U

0.18 U/0.18 U

1.0 U

1.0 U

Vinyl chloride

5.0 U/5.0 U

5.0 U

5.0 U

5.0 U/5.0 U

5.0 U

5.0 U/5.0 U

1.0 U

1.0 U

1.0 U

1.0 U

0.13 U/0.13 U

1.0 U

1.0 U

Xylenes (total)

3.8 J/1.3 J

11

5.0 U

5.0 U/5.0 U

5.0 U

5.0 U/5.0 U

3.0 U

3.0 U

3.0 U

3.0 U

0.43 U/0.43 U

2.0 U

2.0 U

MW-8

6/2/2005
ug/L

11/14/2005
ug/L

8/21/2006
ug/L

12/14/2006
ug/L

8/4/2008
ug/L

11/20/2008
ug/L

2/24/2009
ug/L

5/8/2009
ug/L

8/18/2009
ug/L

11/12/2009
ug/L

3/1/2010
ug/L

5/18/2010
ug/L

11/6/2017
ug/L

6/26/2018
ug/L

1,2,4-Trichlorobenzene

5.0 U/5.0 U

5.0 U

5.0 U

5.0 U

5.0 U

-

1.0 U

1.0 U/1.0 U

1.0 U

1.0 U/1.0 U

1.0 U

0.44 U

1.0 U

1.0 U

1,2,4-Trimethylbenzene

-

-

-

-

-

-

-

-

-

-

-

-

1.0 U

1.0 U

1,4-Dichlorobenzene

3.7 J/3.8 J

1.3 J

5.0 U

5.0 U

5.0 U

-

1.0 U

1.0 U/1.0 U

1.0 U

1.0 U/1.0 U

1.0 U

0.28 J

1.0 U

1.0 U

Benzene

4.7/4.9

7.6

7.2

6.6

1.2

3.9

2.9

1.9/2.1

3.7

12/12

2.2

4.5

1.0 U

1.0 U

Chlorobenzene

710/810

250

60

49

4.6 J

3.3 J

2.9

1.7/1.6

2.0

2.8/2.8

1.7

2.9

1.0 U

1.0 U

Ethylbenzene

7.3/6.5

0.9 J

4.0 U

4.0 U

4.0 U

4.0 U

1.0 U

1.0 U/1.0 U

0.43 J

0.80 J/0.79 J

0.31 J

0.33 J

1.0 U

1.0 U

Methyl tert butyl ether (MTBE)

1.3 J/1.4 J

2.2 J

16

17

4.5 J

-

6.3

5.0/5.3

7.1

9.1/8.9

3.1

4.6

0.33 J

1.0 U

Trichloroethene

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

1.0 U

1.0 U/1.0 U

1.0 U

0.18 U

1.0 U

1.0 U

Vinyl chloride

5.0 U/5.0 U

5.0 U

5.0 U

5.0 U

5.0 U

5.0 U

1.0 U

1.0 U/1.0 U

1.0 U

1.0 U/1.0 U

1.0 U

0.13 U

1.0 U

1.0 U

Xylenes (total)

9.1/9.6

1.6 J

5.0 U

5.0 U

5.0 U

5.0 U

0.5 J

3.0 U/3.0 U

18

17/17

0.82 J

1.2 J

2.0 U

2.0 U

MW-19

9/7/2006
ug/L

12/12/2006
ug/L

8/5/2008
ug/L

11/20/2008
ug/L

2/23/2009
ug/L

5/8/2009
ug/L

8/17/2009
ug/L

11/12/2009
ug/L

3/1/2010
ug/L

5/18/2010
ug/L

11/5/2017
ug/L

6/26/2018
ug/L

1,2,4-Trichlorobenzene

5.0 U

0.7 J

5.0 U

-

1.0 U

1.0 U

1.0 U

1.0 U

1.0 U

0.44 U

1.0 U

1.0 U/1.0 U

1,2,4-Trimethylbenzene

-

-

-

-

-

-

-

-

-

-

-

1.0 U/1.0 U

1,4-Dichlorobenzene

9.3

4.1 J

0.4 J

-

1.0 U

1.0 U

1.0 U

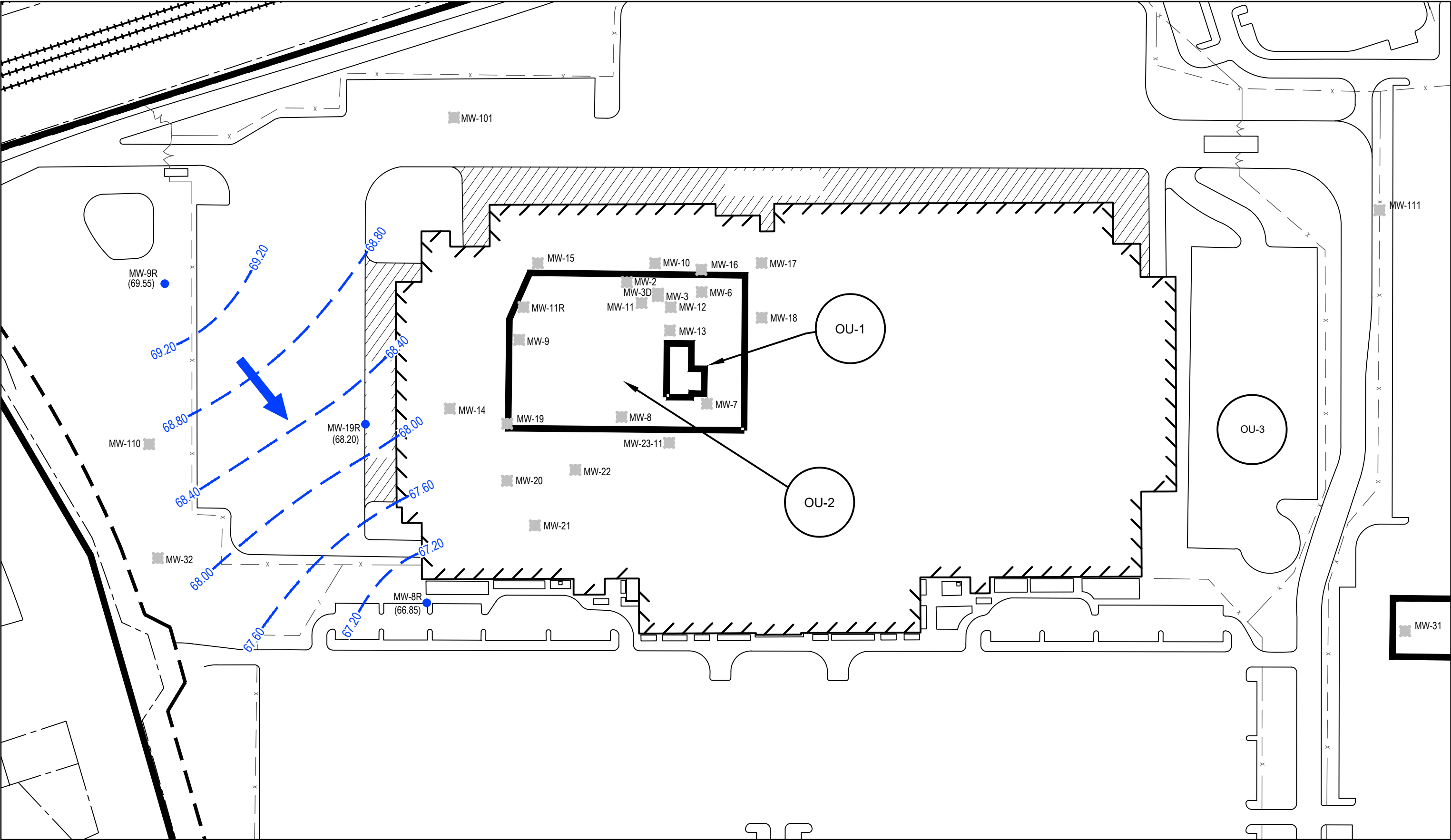
1.0 U

1.0 U

0.15 U

1.0 U

1.0 U/1.0 U



LEGEND

--- APPROXIMATE FACILITY BOUNDARY

--- OPERABLE UNIT (OU) BOUNDARY

++++ RAILWAY

- - - FENCELINE

MW-28 ABANDONED MONITORING WELL

MW-9R (69.55) LTS MONITORING WELL

(69.55) GROUNDWATER ELEVATION MEASURED ON OCTOBER 30, 2024

---68.00--- ESTIMATED GROUNDWATER ELEVATION CONTOUR

➔ ESTIMATED GROUNDWATER FLOW DIRECTION

0 75 150 ft

1" = 150 ft

Coordinate System:
NAD83 Delaware State Planes, US Foot

N

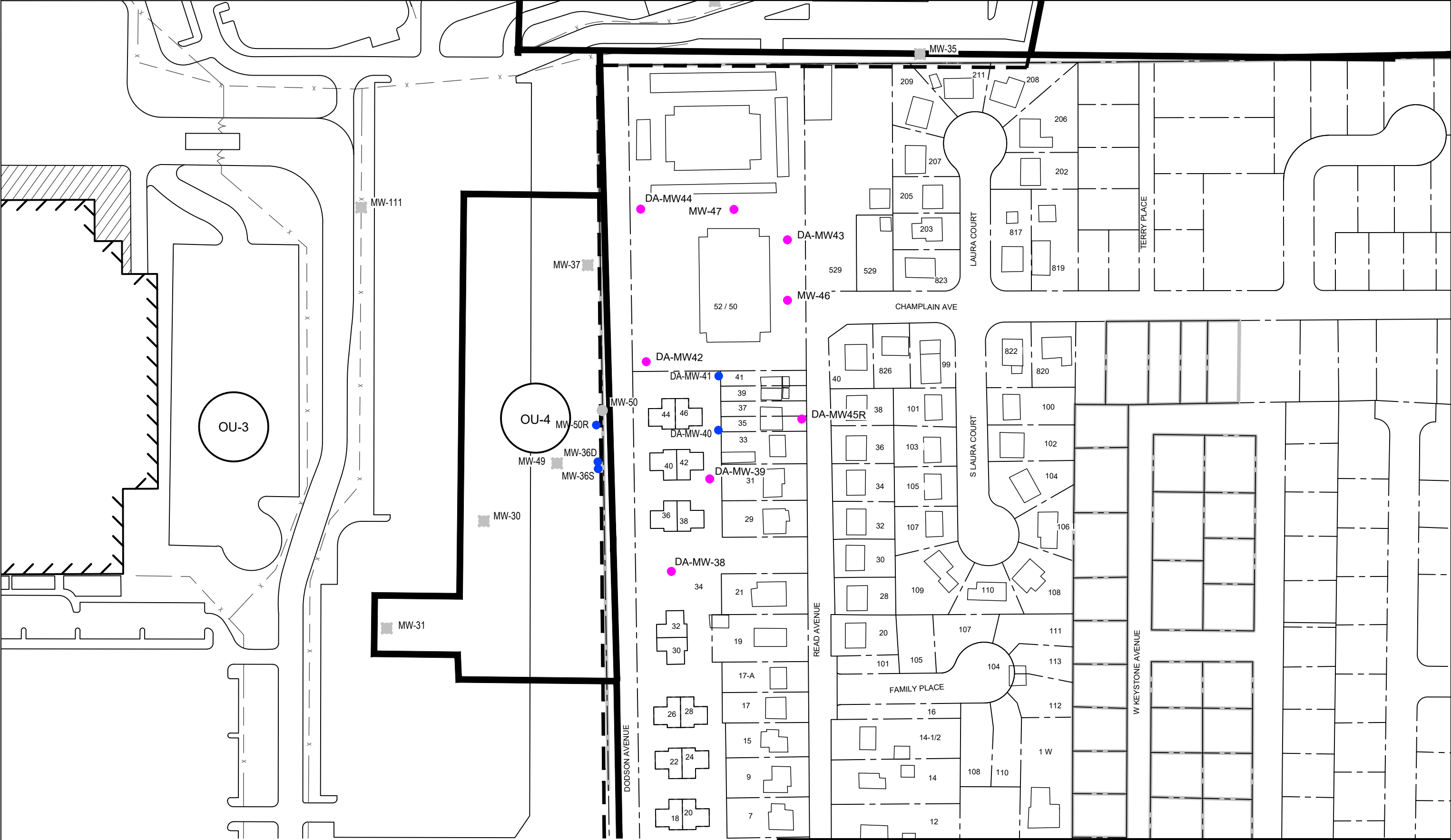
GHD

**RACER TRUST
WILMINGTON, DELAWARE
LTS GROUNDWATER MONITORING**

OU-2 GROUNDWATER CONTOURS

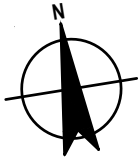
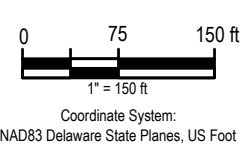
Project No. 11222397
Date January 2025

FIGURE 3.3



LEGEND

- | | | | |
|-------|-------------------------------|----------|---|
| --- | APPROXIMATE FACILITY BOUNDARY | ● MW-109 | MONITORING WELL TO BE ABANDONED WITH ACCESS |
| --- | OPERABLE UNIT (OU) BOUNDARY | ■ MW-28 | ABANDONED MONITORING WELL |
| +++++ | RAILWAY | ● MW-50R | LTS MONITORING WELL |
| -x-x- | FENCELINE | ● MW-50 | WELL LOST UNDER BERM |

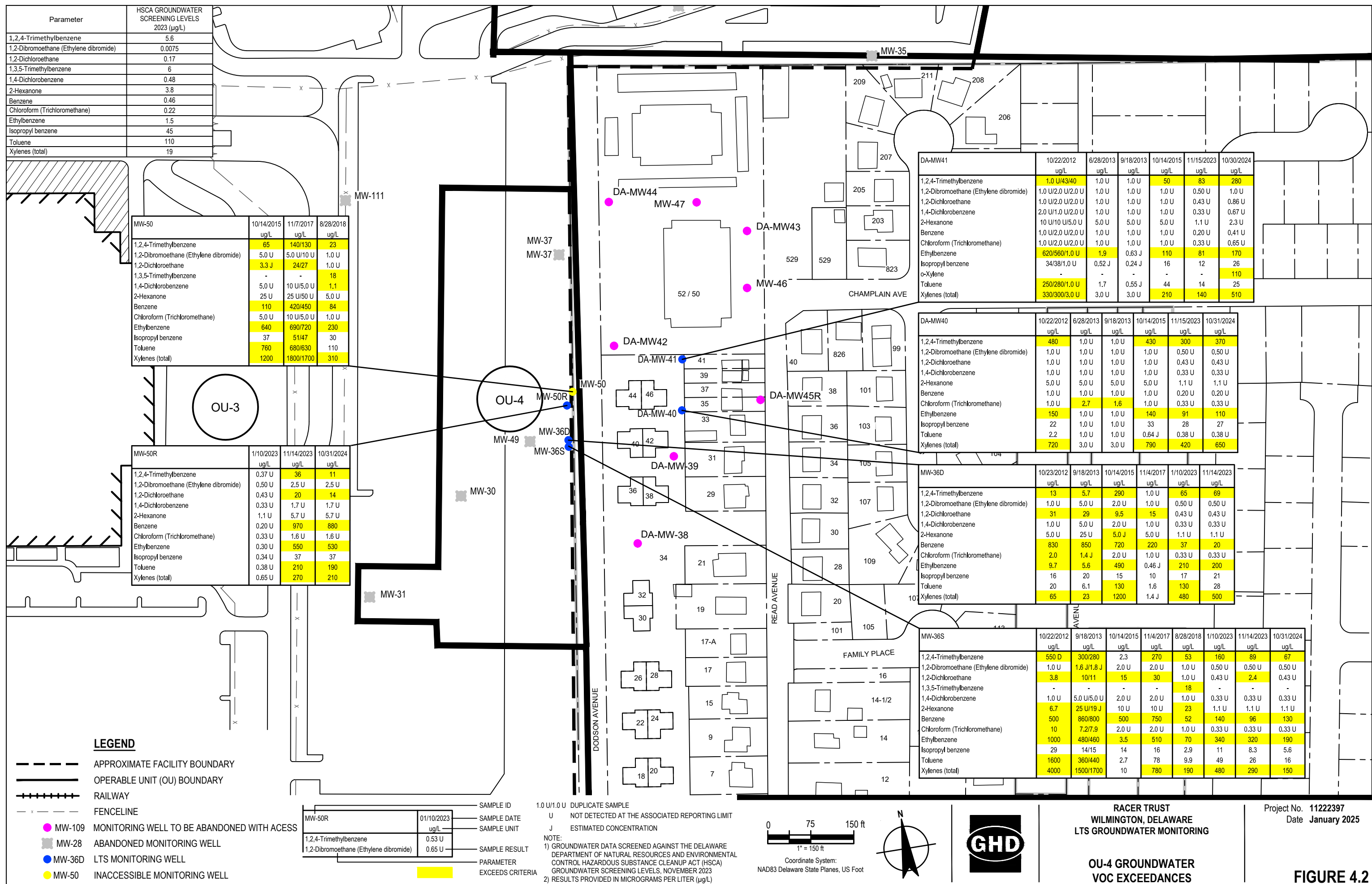


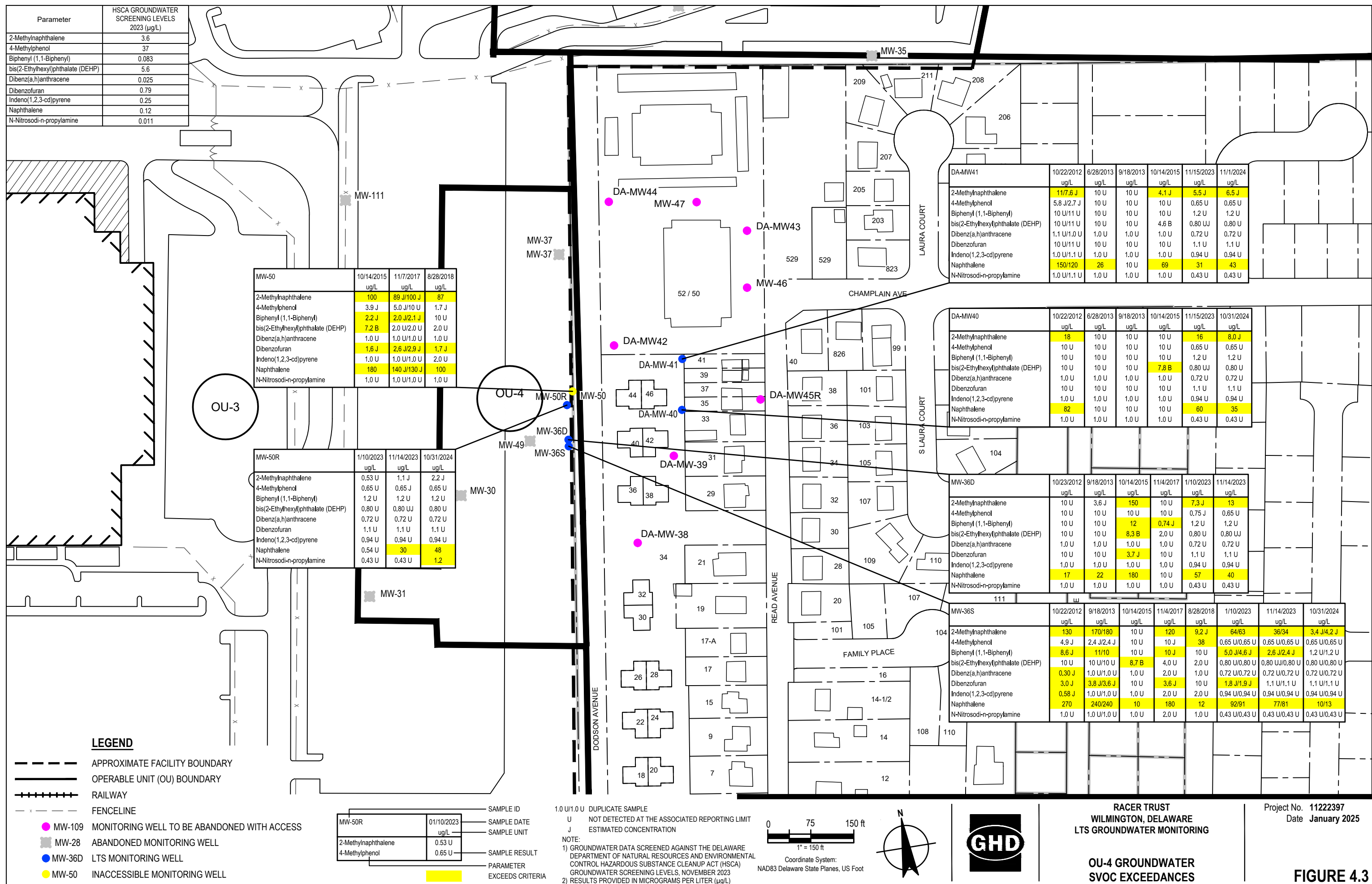
RACER TRUST
WILMINGTON, DELAWARE
LTS GROUNDWATER MONITORING

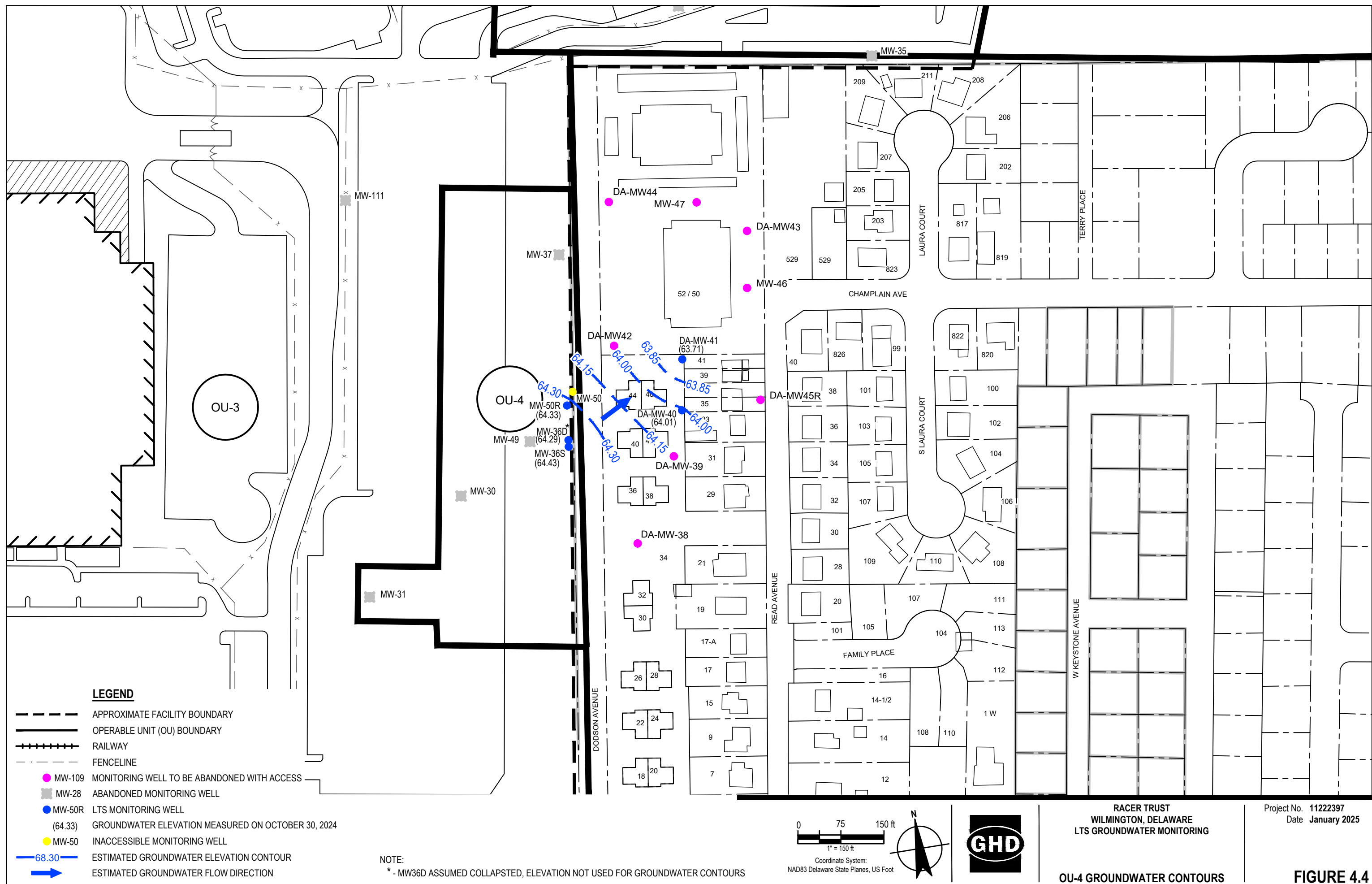
OU-4 GROUNDWATER
MONITORING LOCATIONS

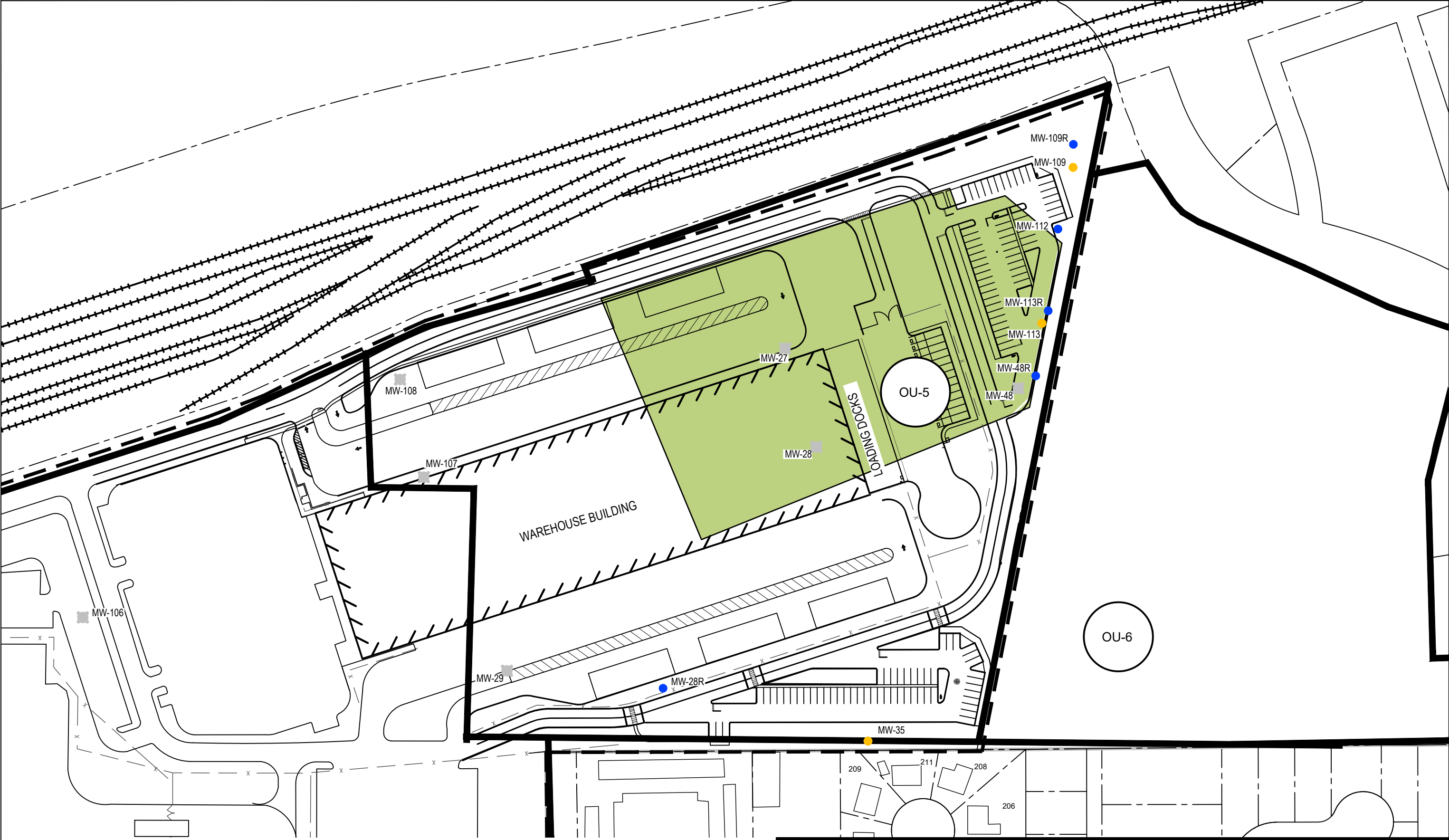
Project No. 11222397
Date January 2025

FIGURE 4.1







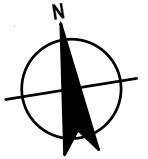


LEGEND

- | | | | |
|-------|-------------------------------|----------|------------------------------|
| --- | APPROXIMATE FACILITY BOUNDARY | ● MW-48R | LTS MONITORING WELL |
| — | OPERABLE UNIT (OU) BOUNDARY | ● MW-109 | INACCESSIBLE MONITORING WELL |
| +++++ | RAILWAY | ■ MW-106 | ABANDONED MONITORING WELL |
| -x-x- | FENCELINE | | |

■ CAP AREA EXTENT

0 75 150 ft
1" = 150 ft
Coordinate System:
NAD83 Delaware State Planes, US Foot



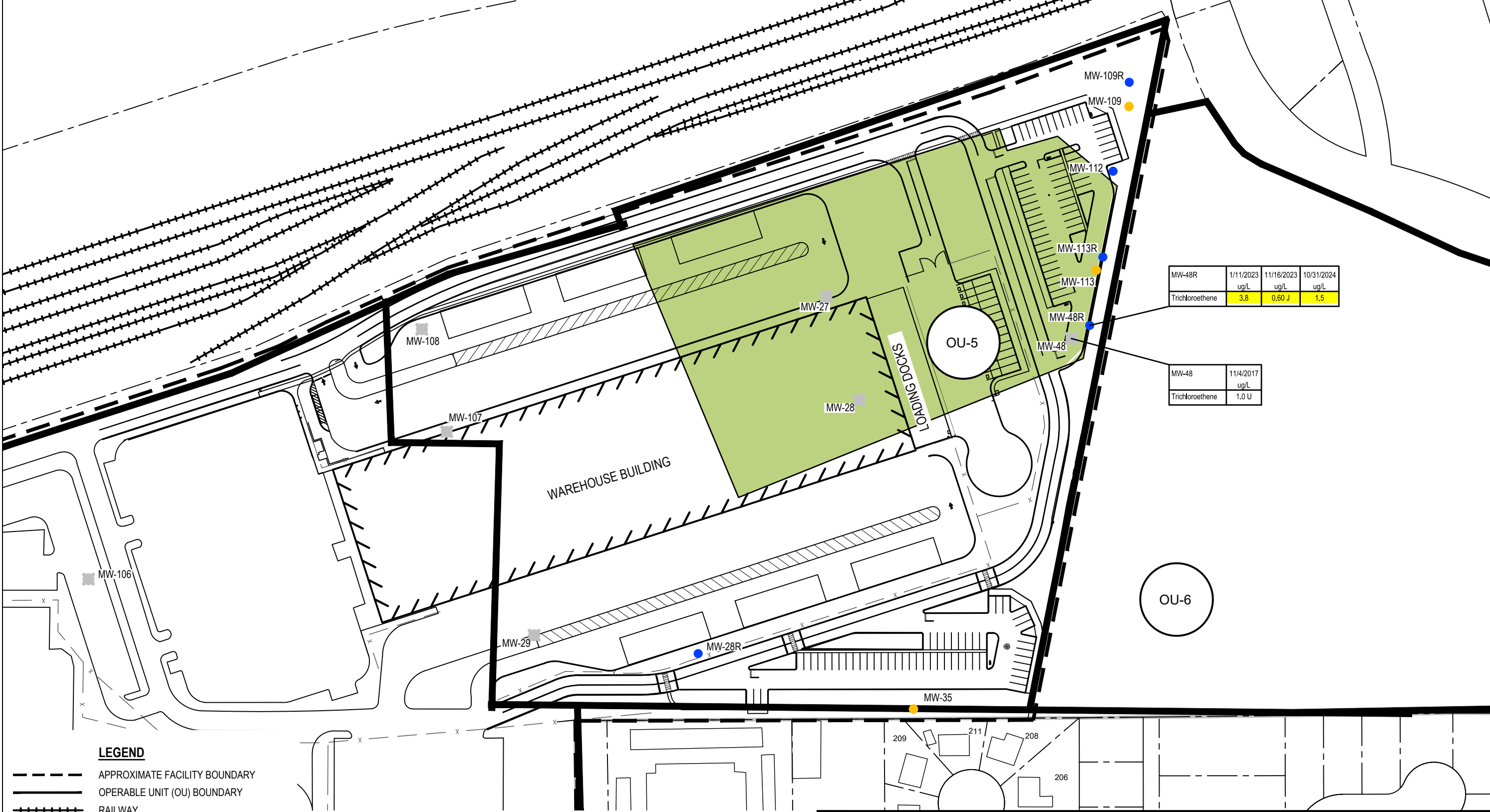
RACER TRUST
WILMINGTON, DELAWARE
LTS GROUNDWATER MONITORING

OU-5 GROUNDWATER
MONITORING LOCATIONS

Project No. 11222397
Date January 2025

FIGURE 5.1

Parameter	HSCA GROUNDWATER SCREENING LEVELS 2023 (µg/L)
Trichloroethene	0.28



MW-48R	1/11/2023	11/16/2023	10/31/2024
	ug/L	ug/L	ug/L
Trichloroethene	3.8	0.60 J	1.5

MW-48	11/4/2017
	ug/L
Trichloroethene	1.0 U

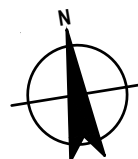
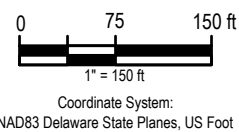
LEGEND

- APPROXIMATE FACILITY BOUNDARY
- OPERABLE UNIT (OU) BOUNDARY
- ++++ RAILWAY
- x - FENCELINE
- MW-48R LTS MONITORING WELL
- MW-109 INACCESSIBLE MONITORING WELL
- MW-106 ABANDONED MONITORING WELL
- CAP AREA EXTENT

MW-48	01/12/2023
	ug/L
Trichloroethene	1.0 U

- SAMPLE ID
- SAMPLE DATE
- SAMPLE UNIT
- SAMPLE RESULT
- PARAMETER
- EXCEEDS CRITERIA
- NOT DETECTED AT THE ASSOCIATED REPORTING LIMIT

NOTE:
1) GROUNDWATER DATA SCREENED AGAINST THE DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL HAZARDOUS SUBSTANCE CLEANUP ACT (HSCA) GROUNDWATER SCREENING LEVELS, NOVEMBER 2023
2) RESULTS PROVIDED IN MICROGRAMS PER LITER (µg/L)

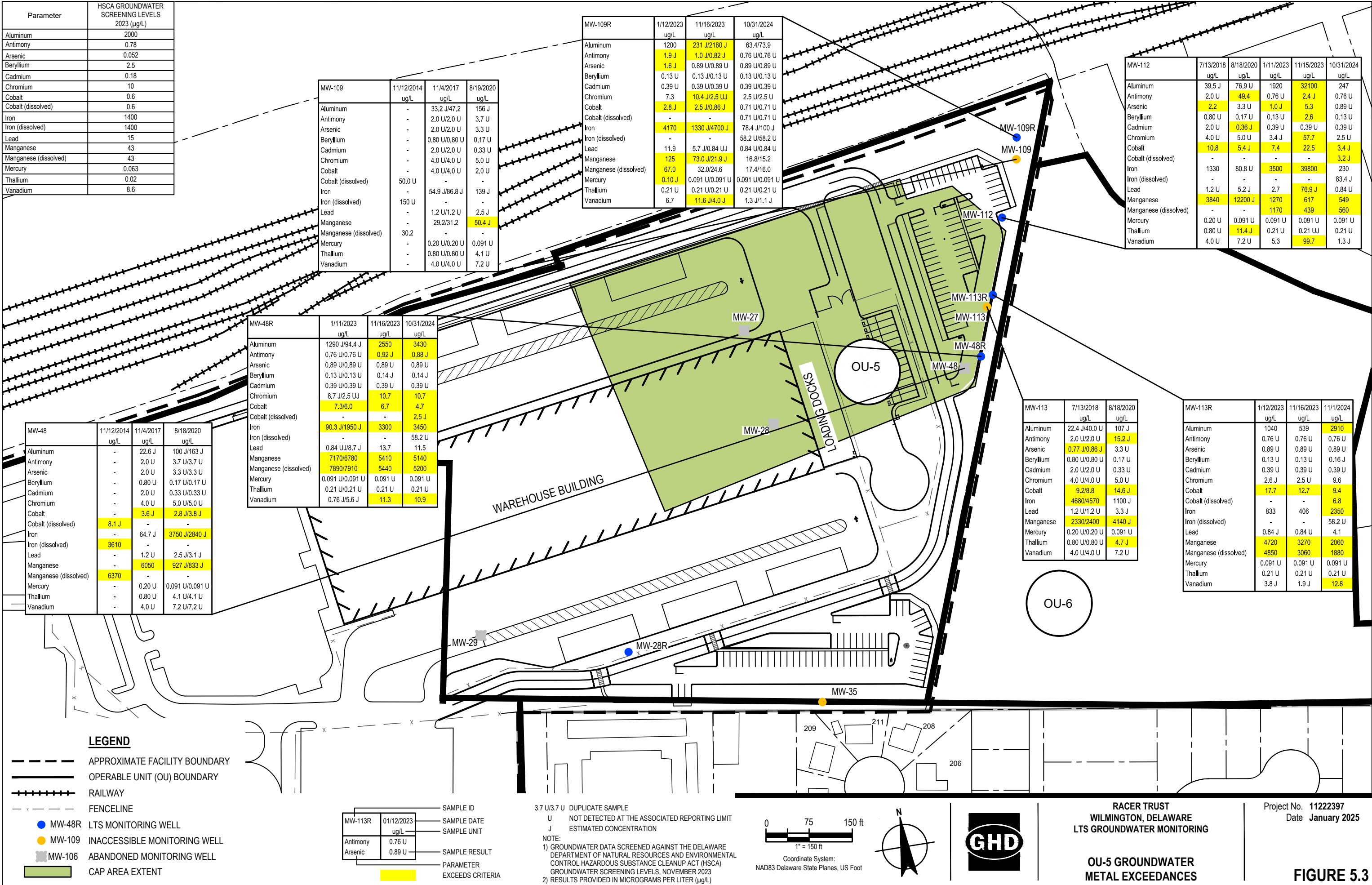


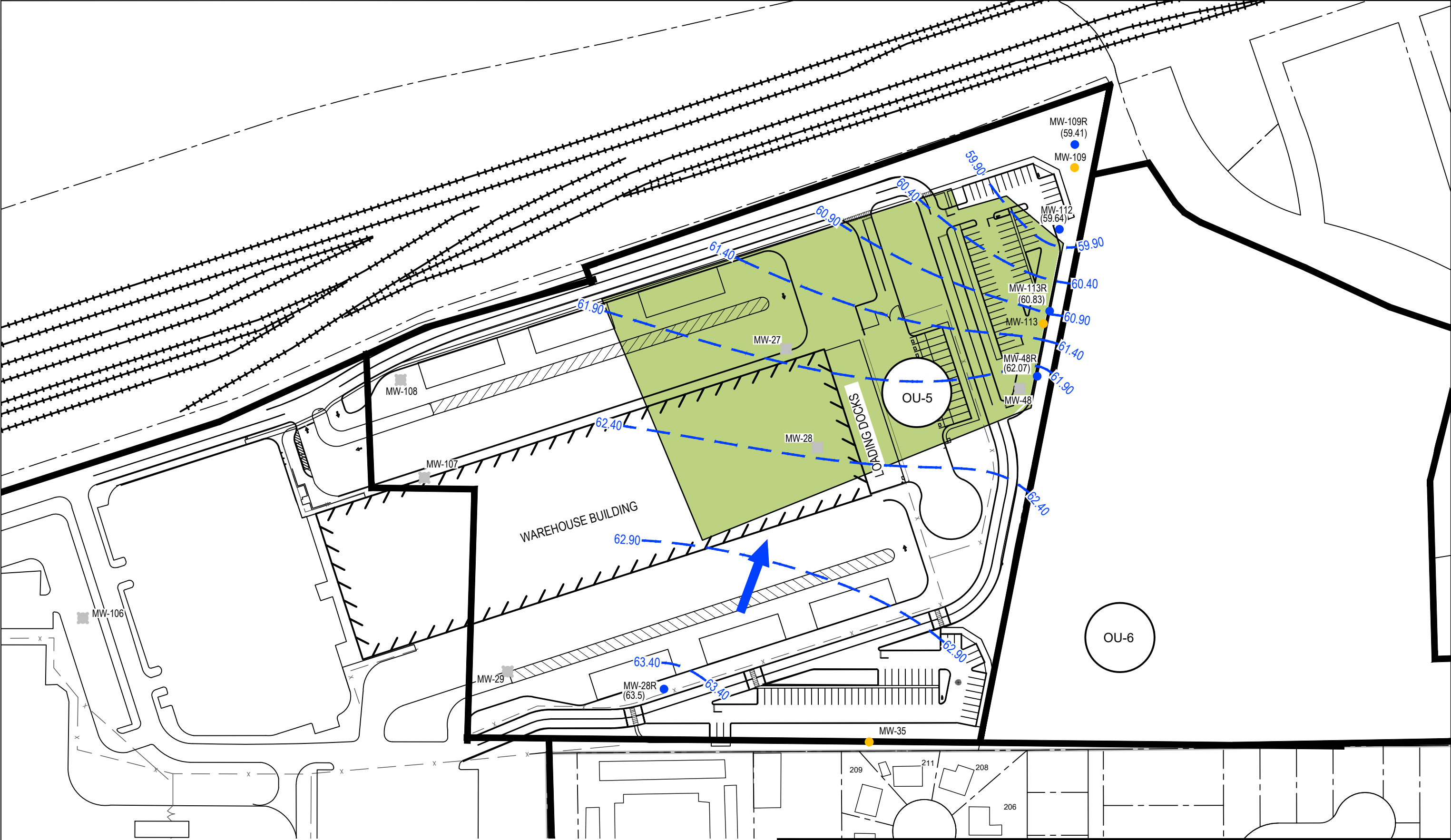
RACER TRUST
WILMINGTON, DELAWARE
LTS GROUNDWATER MONITORING

OU-5 GROUNDWATER
VOC EXCEEDANCES

Project No. 11222397
Date January 2025

FIGURE 5.2





LEGEND

---	APPROXIMATE FACILITY BOUNDARY	MW-106	ABANDONED MONITORING WELL	63.40	ESTIMATED GROUNDWATER ELEVATION CONTOUR
---	OPERABLE UNIT (OU) BOUNDARY	MW-109	INACCESSIBLE MONITORING WELL	→	ESTIMATED GROUNDWATER FLOW DIRECTION
+++++	RAILWAY	MW-28R	LTS MONITORING WELL		
-x-x-	FENCELINE	(63.5)	GROUNDWATER ELEVATION MEASURED ON OCTOBER 30, 2024		

0 75 150 ft
1" = 150 ft
Coordinate System:
NAD83 Delaware State Planes, US Foot

RACER TRUST
WILMINGTON, DELAWARE
LTS GROUNDWATER MONITORING

OU-5 GROUNDWATER CONTOURS

Project No. 11222397
Date January 2025

FIGURE 5.4

Appendices

Appendix A

Well Condition Assessment



Date:

11/1/2024

Inspector:

ES

Location:

Wilmington, DE, 801 Boxwood Road, Wilmington, DE

Well Dia. (inches):

0.75

General Condition:

Good

Well Type:

Casing Material:

Item Condition

Access:

Fair

Well Lock:

Fair

Well Cap:

Fair

Well Pad/Surface:

Well ID:

Not Present

Protective Curbing:

Bollard:

Containment Valve:

Conditions

Comments:

Missing one bolt, loose concrete pad; “fair” access condition because you have to walk to reach it

Repair Notes:

Photo 1:





Date:
11/1/2024

Inspector:
ES

Location:
Wilmington, DE, 801 Boxwood Road, Wilmington, DE

Photo 2:



Photo 3:





Date:

11/1/2024

Inspector:

ES

Location:

Wilmington, DE, 801 Boxwood Road, Wilmington, DE

Well Dia. (inches):

2

General Condition:

Good

Well Type:

Casing Material:

Conditions

Comments:

Repair Notes:

Photo 1:



Item Condition	
Access:	Good
Well Lock:	Good
Well Cap:	Good
Well Pad/Surface:	
Well ID:	Not Present
Protective Curbing:	
Bollard:	
Containment Valve:	



Date:
11/1/2024

Inspector:
ES

Location:
Wilmington, DE, 801 Boxwood Road, Wilmington, DE

Photo 2:



Photo 3:





Date:

11/1/2024

Inspector:

ES

Location:

Wilmington, DE, 801 Boxwood Road, Wilmington, DE

Well Dia. (inches):

0.75

General Condition:

Good

Well Type:

Casing Material:

Conditions

Missing one bolt

Comments:

Item Condition

Access:

Good

Well Lock:

Good

Well Cap:

Fair

Well Pad/Surface:

Well ID:

Not Present

Protective Curbing:

Bollard:

Containment Valve:

Repair Notes:

Photo 1:





Date:
11/1/2024

Inspector:
ES

Location:
Wilmington, DE, 801 Boxwood Road, Wilmington, DE

Photo 2:



Photo 3:





Date:

11/1/2024

Inspector:

Chris Townsend

Location:

Wilmington, DE, 801 Boxwood Road, Wilmington, DE

Well Dia. (inches):

2

General Condition:

Good

Well Type:

Monitoring

Casing Material:

PVC

Conditions

Overall, well is in condition.

Comments:

Repair Notes:

None.

Photo 1: Well outside





Date:
11/1/2024

Inspector:
Chris Townsend

Location:
Wilmington, DE, 801 Boxwood Road, Wilmington, DE

Photo 2: Well, diameter and inside.



Photo 3: Tubing in monitoring well.





Date:

11/1/2024

Inspector:

ES

Location:

Wilmington, DE, 801 Boxwood Road, Wilmington, DE

Well Dia. (inches):

2

General Condition:

Good

Well Type:

Casing Material:

Item Condition

Access:

Fair

Well Lock:

Not Present

Well Cap:

Good

Well Pad/Surface:

Well ID:

Not Present

Protective Curbing:

Bollard:

Containment Valve:

Conditions Comments:

Access condition “fair” because area is occasionally busy with Amazon vans

Repair Notes:

Photo 1:





Date:
11/1/2024

Inspector:
ES

Location:
Wilmington, DE, 801 Boxwood Road, Wilmington, DE

Photo 2:



Photo 3:





Date:

11/1/2024

Inspector:

Chris Townsend

Location:

Wilmington, DE, 801 Boxwood Road, Wilmington, DE

Well Dia. (inches):

2

General Condition:

Good

Well Type:

Monitoring

Casing Material:

PVC

Item Condition

Access:

Good

Well Lock:

Good

Well Cap:

Good

Well Pad/Surface:

Good

Well ID:

Not Present

Protective Curbing:

Good

Bollard:

Good

Containment Valve:

Good

Conditions

Well, seems to be collapsed as about 18 feet down. Feels like hitting a layer of sediment and could not get groundwater sample results. Communicate this with Sam Sasnow for future work. There are no bolts holding down well top.

Comments

Repair Notes:

Photo 1: Top of well





Date:
11/1/2024

Inspector:
Chris Townsend

Location:
Wilmington, DE, 801 Boxwood Road, Wilmington, DE

Photo 2: Inside of well with cap and well lock.



Photo 3: Inside of well.





Date:

11/1/2024

Inspector:

Chris Townsend

Location:

Wilmington, DE, 801 Boxwood Road, Wilmington, DE

Well Dia. (inches):

0.75

General Condition:

Good

Well Type:

Monitoring

Casing Material:

PVC

Item Condition

Access:

Good

Well Lock:

Good

Well Cap:

Good

Well Pad/Surface:

Good

Well ID:

Not Present

Protective Curbing:

Good

Bollard:

Good

Containment Valve:

Good

Conditions

Comments:

Good. There are no bolts, holding down the well lid.

Repair Notes:

Photo 1: Outside of well.





Date:

11/1/2024

Inspector:

Chris Townsend

Location:

Wilmington, DE, 801 Boxwood Road, Wilmington, DE

Photo 2: Inside of well with top casing



Photo 3: Inside of well with tubing.





Date:

11/1/2024

Inspector:

ES

Location:

Wilmington, DE, 801 Boxwood Road, Wilmington, DE

Well Dia. (inches):

0.75

General Condition:

Good

Well Type:

Casing Material:

Conditions

Comments:

Repair Notes:

Photo 1:



Item Condition	
Access:	Good
Well Lock:	Good
Well Cap:	Good
Well Pad/Surface:	
Well ID:	Not Present
Protective Curbing:	
Bollard:	
Containment Valve:	



Date:
11/1/2024

Inspector:
ES

Location:
Wilmington, DE, 801 Boxwood Road, Wilmington, DE

Photo 2:



Photo 3:





Date:

11/1/2024

Inspector:

Chris Townsend

Location:

Wilmington, DE, 801 Boxwood Road, Wilmington, DE

Well Dia. (inches):

2

General Condition:

Good

Well Type:

Monitoring

Casing Material:

PVC

Item Condition

Access:	Good	Well Lock:	Good
Well Cap:	Good	Well Pad/Surface:	Good
Well ID:	Not Present	Protective Curbing:	Good
Bollard:	Good	Containment Valve:	Good

Conditions

Comments

Missing two bolts on well lid. There are some cracks around the cement of the well. this well is closer to the road and near a telephone pole near the treatment building.

Repair Notes:

Photo 1: Outside of well





Project Number:
11222397

WELL INSPECTION - MW-50R

Date:
11/1/2024

Inspector:
Chris Townsend

Location:
Wilmington, DE, 801 Boxwood Road, Wilmington, DE

Photo 2: Well, cap lock, and top casing.



Photo 3: Ground water, tubing and cap lock and top of casing.





Date:

11/1/2024

Inspector:

Chris Townsend

Location:

Wilmington, DE, 801 Boxwood Road, Wilmington, DE

Well Dia. (inches):

2

General Condition:

Good

Well Type:

Monitoring

Casing Material:

PVC

Conditions

Good.

Comments:

Item Condition

Access:

Good

Well Lock:

Good

Well Cap:

Good

Well Pad/Surface:

Good

Well ID:

Not Present

Protective Curbing:

Good

Bollard:

Good

Containment Valve:

Good

Repair Notes:

Photo 1: Outside monitoring well.





Project Number:
11222397

WELL INSPECTION - MW-8R

Date:
11/1/2024

Inspector:
Chris Townsend

Location:
Wilmington, DE, 801 Boxwood Road, Wilmington, DE

Photo 2: Inside of well with cap lock. Some standing water around well.



Photo 3: Inside of well with tubing and cap lock.





Date:

11/1/2024

Inspector:

Chris Townsend

Location:

Wilmington, DE, 801 Boxwood Road, Wilmington, DE

Well Dia. (inches): 2

General Condition: Good

Well Type: Monitoring

Casing Material: PVC

Conditions

Good

Comments:

Item Condition

Access: Good

Well Lock: Good

Well Cap: Good

Well Pad/Surface: Good

Well ID: Not Present

Protective Curbing: Good

Bollard: Good

Containment Valve: Good

Repair Notes:

Photo 1: Well outside





Date: 11/1/2024	Inspector: Chris Townsend	Location: Wilmington, DE, 801 Boxwood Road, Wilmington, DE
---------------------------	-------------------------------------	--

Photo 2: Well inside



Photo 3: Well, diameter and tubing with Caplock.





Date:

11/1/2024

Inspector:

ES

Location:

Wilmington, DE, 801 Boxwood Road, Wilmington, DE

Well Dia. (inches):

0.75

General Condition:

Good

Well Type:

Casing Material:

Conditions

Comments:

“Fair” access condition because on private property and have to walk to reach it

Repair Notes:

Photo 1:





Date:

11/1/2024

Inspector:

ES

Location:

Wilmington, DE, 801 Boxwood Road, Wilmington, DE

Photo 2:



Photo 3:





Date:

11/1/2024

Inspector:

ES

Location:

Wilmington, DE, 801 Boxwood Road, Wilmington, DE

Well Dia. (inches):

General Condition:

Good

Well Type:

Casing Material:

Conditions

Comments:

“Fair” access condition because on private property and have to walk to reach it

Item Condition

Access:

Fair

Well Lock:

Good

Well Cap:

Good

Well Pad/Surface:

Well ID:

Not Present

Protective Curbing:

Bollard:

Containment Valve:

Repair Notes:

Photo 1:





Date:
11/1/2024

Inspector:
ES

Location:
Wilmington, DE, 801 Boxwood Road, Wilmington, DE

Photo 2:



Photo 3:



Appendix B

Well Redevelopment Logs

WELL DEVELOPMENT RECORD

Well I.D.: MW-48R

Client: RACER Trust

Location: 801 Boxwood Rd, Wilmington, DE

☐ Original Development

Date: 10/29/2024

Project No.: 11222397

Personnel: Chris Townsend and Emily Salvatore

☒ Redevelopment - Original Development Date

1. WELL DATA

a. Total Well Depth (from TOC): 15.81 ft

b. Depth to Static Water Level (from TOC): 13.29 ft

c. Length of Water Column: 2.52 ft

d. Well Diameter: 0.75 in

e. Volume of Water Added During Drilling: gal

f. One Well Volume: 0.06 gal

g. Three Well Volumes: 0.18 gal

h. Depth to Top of Screen (from TOC): ft

i. Depth to Bottom of Screen (from TOC): ft

j. Geology at Screen:

2. DEVELOPMENT METHODS

a. Well Development Method:

b. Minimum Volume of Water to Remove:

c. Stabilization Requirements:

d. Equipment Used:

e. Equipment Decontamination Method:

f. Purge Water and Sediment Disposal Method:

Well redevelopment methods with Waterra equipment. A surge block or Waterra surge block/foot valve and then pumped.

0.75" well developer, Waterra D-13 foot valve - low flow, 1/2" OD HDPE tubing 100 ft, turbidimeter, Peristaltic pump and tubing, and buckets.

3. WELL DEVELOPMENT DATA

Time	Volume Removed (gal)	Depth to Water (ft)	Temp. (Deg C)	pH (s.u.)	Spec. Cond. (uS/cm)	ORP (millivolts)	Dissolved Oxygen (mg/L)	Turbidity (visual)	Color (visual)

4. COMMENTS

Start time at 15:12 for purging
Turbidity readings in NTU:
15:40- 29.9
15:50- 683
16:00-360
16:10-53
16:20- 26.6
16:30-633, purged approximately 6-7 gallons of water at this well.

Chris Townsend and Emily Salvatore

Developer (Signature)

(Print Name)

WELL DEVELOPMENT RECORD

Well I.D.:

MW-113R

Client:

RACER Trust

Location:

801 Boxwood Rd, Wilmington, DE19804

☐ Original Development

☒ Redevelopment - Original Development Date

Date:

10/29/2024

Project No.:

11222397

Personnel:

Francis Ramacciotti

1. WELL DATA

a. Total Well Depth (from TOC):

17.5

ft

b. Depth to Static Water Level (from TOC):

7.5

ft

c. Length of Water Column:

10

ft

d. Well Diameter:

0.75

in

e. Volume of Water Added During Drilling:

gal

f. One Well Volume:

0.23

gal

g. Three Well Volumes:

0.69

gal

h. Depth to Top of Screen (from TOC):

ft

i. Depth to Bottom of Screen (from TOC):

ft

j. Geology at Screen:

2. DEVELOPMENT METHODS

a. Well Development Method:

Well redevelopment methods with Waterra equipment. A surge block or Waterra surge block/foot valve and then pumped.

b. Minimum Volume of Water to Remove:

c. Stabilization Requirements:

d. Equipment Used:

0.75" well developer, Waterra D-13 foot valve - low flow, 1/2" OD HDPE tubing 100 ft, turbidimeter, Peristaltic pump and tubing, and buckets.

e. Equipment Decontamination Method:

f. Purge Water and Sediment Disposal Method:

3. WELL DEVELOPMENT DATA

Time	Volume Removed (gal)	Depth to Water (ft)	Temp. (Deg C)	pH (s.u.)	Spec. Cond. (uS/cm)	ORP (millivolts)	Dissolved Oxygen (mg/L)	Turbidity (visual)	Color (visual)

4. COMMENTS

13:05 - MW-113R surge and purge, very dirty and then fairly clear by 13:30. The surge and purge is getting more sediment out of well.
14:00 - purged ~5 gallons after 3-4 ft surge, run dirty.
14:10 - NTU @ 1080.
14:15 - running clear, NTU @35.3, re-surged and no longer running clear.
14:33 - running clear. Turned off pump and removed surge and tubing. Re-surged and running cloudy. Another 2.5 gallons purged.
14:35 - intermittent flow. Cleared up fairly quickly. Still milky cloudy, not brown.
14:44 - running very clear. Surged and sediment brown again. Intermittent flow.
14:50 - NTU 816 milky clear from tape.
14:55 - another 1.5 gallons, stopped purging, took out tubing, and recapped well and cleaned up.

Francis Ramacciotti

Developer (Signature)

(Print Name)

WELL DEVELOPMENT RECORD

Well I.D.: MW-109R

Client: RACER Trust

Location: 801 Boxwood Rd, Wilmington, DE

☐ Original Development

Date: 10/29/2024

Project No.: 11222397

Personnel: Chris Townsend and Emily Salvatore

☒ Redevelopment - Original Development Date

1. WELL DATA

a. Total Well Depth (from TOC): 16.35 ft

b. Depth to Static Water Level (from TOC): 11.35 ft

c. Length of Water Column: 5 ft

d. Well Diameter: 0.75 in

e. Volume of Water Added During Drilling: gal

f. One Well Volume: 0.11 gal

g. Three Well Volumes: 0.33 gal

h. Depth to Top of Screen (from TOC): ft

i. Depth to Bottom of Screen (from TOC): ft

j. Geology at Screen:

2. DEVELOPMENT METHODS

a. Well Development Method:

b. Minimum Volume of Water to Remove:

c. Stabilization Requirements:

d. Equipment Used:

e. Equipment Decontamination Method:

f. Purge Water and Sediment Disposal Method:

Well redevelopment methods with Waterra equipment. A surge block or Waterra surge block/foot valve and then pumped.

0.75" well developer, Waterra D-13 foot valve - low flow, 1/2" OD HDPE tubing 100 ft, turbidimeter, Peristaltic pump and tubing, and buckets.

3. WELL DEVELOPMENT DATA

Time	Volume Removed (gal)	Depth to Water (ft)	Temp. (Deg C)	pH (s.u.)	Spec. Cond. (uS/cm)	ORP (millivolts)	Dissolved Oxygen (mg/L)	Turbidity (visual)	Color (visual)

4. COMMENTS

Started to purge at 12:05 PM
13:30 - 228 NTU Turbidity
14:00 - 46 NTU Turbidity about 3 gallons purged
14:19- 259 NTU Turbidity
14:30- water is clearer, 264 NTU Turbidity
15:03 - packing up on purging water here, why became a cleaner during the end of purging. Have about 8 gallons purged out

Chris Townsend and Emily Salvatore

Developer (Signature)

(Print Name)

WELL DEVELOPMENT RECORD

Well I.D.: MW-112

Client: RACER Trust

Location: 801 Boxwood Rd, Wilmington, DE

☐ Original Development

Date: 10/29/2024

Project No.: 11222397

Personnel: Chris Townsend and Emily Salvatore

☒ Redevelopment - Original Development Date

1. WELL DATA

a. Total Well Depth (from TOC): 17.15 ft

b. Depth to Static Water Level (from TOC): 11.75 ft

c. Length of Water Column: 5.4 ft

d. Well Diameter: 2 in

e. Volume of Water Added During Drilling: gal

f. One Well Volume: 0.88 gal

g. Three Well Volumes: 2.64 gal

h. Depth to Top of Screen (from TOC): ft

i. Depth to Bottom of Screen (from TOC): ft

j. Geology at Screen:

2. DEVELOPMENT METHODS

a. Well Development Method:

b. Minimum Volume of Water to Remove:

c. Stabilization Requirements:

d. Equipment Used:

e. Equipment Decontamination Method:

f. Purge Water and Sediment Disposal Method:

Well redevelopment methods with Waterra equipment. A surge block or Waterra surge block/foot valve and then pumped.

Waterra D-25 Foot Valve - standard flow, Waterra surge block - standard flow - for 2" well, 1/2" OD HDPE tubing 100 ft, turbidimeter, Peristaltic pump and tubing, buckets.

3. WELL DEVELOPMENT DATA

Time	Volume Removed (gal)	Depth to Water (ft)	Temp. (Deg C)	pH (s.u.)	Spec. Cond. (uS/cm)	ORP (millivolts)	Dissolved Oxygen (mg/L)	Turbidity (visual)	Color (visual)

4. COMMENTS

Start time 1150
Turbidity Readings (NTU)-
1210: 407
1220: 281
1230: 138
1240: 124
12:50 - 127
13:00- 99.6
13:10- 136
13:20- 221
13:30- 277
13:45- 255
14:00- 208
14:30- 350
14:45- 363
15:00- 11.2
15:05- 6.92
Stop time at 15:10, approximately 8-9 gallons of water were pumped from the well.

WELL DEVELOPMENT RECORD

Chris Townsend and Emily Salvatore

Developer (Signature)

(Print Name)

Appendix C

Low Flow Sampling Purge Logs

Location Data:

Screen Material:

Screen Start Depth:

Screen End Depth:

Screen Length:

Pump Depth:

Constructed Well Depth:

Measured Well Depth:

Static Water Depth:

Well Diameter:

ft BREF

Water Column Length:

5.26 ft

Ref Point Elev:

Static Water Elev:

Well Volume:

0 gal

Screen Volume:

gal

SSOW Code:

Measurement Type:

Sampling Method: Peristaltic Pump

Purging Start Time: 12:50

Columns below may be blank if not applicable

Time	Cumulative Volume Purged (gal)	Purge Rate (mL/min)	Depth To Water (ft BREF)	Drawdown from Initial Water Level (ft)	pH (standard units)	Temp (deg C)	Conductivity (uS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (millivolts)	Column Not Applicable	Color (describe)	Column Not Applicable	Odor (describe)	Notes
			Precision Required	< 0.4	± 0.1	±% 3	± 5 or ± 10	±% 10	±% 10 or < 5	± 10					
12:50	0.00	200		NA	5.66	25.01	0.342	1.22	1000	156		Reddish-Orange		None	PID= 0.0 ppm
12:55	0.27	200		NA	5.66	22.15	0.365	1.32	1000	149		Reddish-Orange		None	
13:00	0.55	200		NA	5.70	21.52	0.363	1.26	1000	133					
13:05	0.98	200		NA	5.76	24.43	0.339	1.24	452	103					PID= 0.0 ppm
13:10	1.26	200		NA	5.74	24.48	0.337	1.26	315	107					
13:15	1.53	200		NA	5.74	24.36	0.338	1.59	202	106					PID= 0.0 ppm
13:20	1.79	200		NA	5.76	24.11	0.340	1.71	97.1	103					
13:25	2.04	200		NA	5.78	23.81	0.342	2.03	73.4	100					PID= 0.0 ppm
13:30	2.31	200		NA	5.79	23.53	0.345	1.90	76.1	98					
13:35	2.58	200		NA	5.80	23.63	0.346	1.87	57.6	95					PID= 0.0 ppm
13:40	2.84	200		NA	5.81	23.43	0.348	1.79	31.0	92					
13:45	3.10	200		NA	5.82	23.22	0.350	1.71	30.7	91					
13:50	3.36	200		NA	5.82	23.04	0.351	1.68	28.8	89					

Additional Notes including Field Parameters:

Comments: Start time 1245; cannot take depth to water readings with tubing in well because well is too thin

Total Volume Purged: 3.36 gal

of Screen Volumes: ?

of Well Volumes: ?

Sample ID	Type	Matrix	Comp/Grab	Date/Time	Filtered	Analysis	Containers
GW-11222397-103124-ES-10	N	WG	G	10/31 13:55		VOCs (TCL), SVOCs (TCL)	5
TB-11222397-103124-ES-13	TB	WG	G	10/31 14:00		VOCs (TCL)	2

Location Data:

Screen Material:

Screen Start Depth:

Screen End Depth:

Screen Length:

Pump Depth:

Constructed Well Depth:

Measured Well Depth:

Static Water Depth:

Well Diameter:

ft BREF

Water Column Length:

9.34 ft

Ref Point Elev:

Static Water Elev:

Well Volume:

0 gal

Screen Volume:

gal

SSOW Code:

Measurement Type:

Sampling Method: Peristaltic Pump

Purging Start Time: 10:05

Columns below may be blank if not applicable

Time	Cumulative Volume Purged (gal)	Purge Rate (mL/min)	Depth To Water (ft BREF)	Drawdown from Initial Water Level (ft)	pH (standard units)	Temp (deg C)	Conductivity (uS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (millivolts)	Column Not Applicable	Color (describe)	Column Not Applicable	Odor (describe)	Notes
			Precision Required	< 0.4	± 0.1	±% 3	± 5 or ± 10	±% 10	±% 10 or < 5	± 10					
10:05		150		NA	6.52	19.48	0.597	0.00	1000	-64		Reddish-Orange		Oil	
10:10	0.21	150		NA	6.53	19.22	0.598	0.00	1000	-66		Reddish-Orange		Oil	
10:15	0.42	150		NA	6.53	19.01	0.597	0.00	1000	-64		Reddish-Orange		Oil	PID= 7.4 ppm
10:20	0.58	150		NA	6.46	18.88	0.592	0.00	960	-58				Oil	
10:25	0.78	150		NA	6.44	18.76	0.590	0.00	366	-56				Oil	PID= 4.8 ppm
10:30	0.98	150		NA	6.43	18.71	0.591	0.00	252	-56		Reddish-Orange		Oil	
10:35	1.19	150		NA	6.45	18.69	0.590	0.00	226	-58				Oil	PID= 3.4 ppm
10:40	1.38	150		NA	6.44	18.70	0.591	0.00	215	-59		Reddish-Orange		Oil	
10:45	1.58	150		NA	6.44	18.72	0.590	0.00	204	-58				Oil	PID= 2.5 ppm

Additional Notes including Field Parameters:

Comments: Start time 1000; cannot take depth to water readings with tubing in well because well is too thin

Total Volume Purged: 1.58 gal

of Screen Volumes: ?

of Well Volumes: ?

Sample ID	Type	Matrix	Comp/Grab	Date/Time	Filtered	Analysis	Containers
GW-11222397-110124-ES-20	N	WG	G	11/1 10:50		VOCs (TCL), SVOCs (TCL)	9

Location Data:

Screen Material: UNKNOWN

Screen Start Depth: 7 ft BGS

Screen End Depth: 17 ft BGS

Screen Length: ft BGS

Pump Depth: ft BREF

Constructed Well Depth:

Measured Well Depth: ft BREF

Static Water Depth: ft BREF

Well Diameter: 0.75

Water Column Length: ft

Ref Point Elev: ft

Static Water Elev: ft

Well Volume: gal

Screen Volume: gal

SSOW Code:

Measurement Type:

Sampling Method: After (Through) Peristaltic

Purging Start Time: 16:30

Columns below may be blank if not applicable

Time	Cumulative Volume Purged (gal)	Purge Rate (mL/min)	Depth To Water (ft BREF)	Drawdown from Initial Water Level (ft)	pH (standard units)	Temp (deg C)	Conductivity (uS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (millivolts)	Column Not Applicable	Color (describe)	Column Not Applicable	Odor (describe)	Notes
			Precision Required	< 0.4	± 0.1	±% 3	± 5 or ± 10	±% 10	±% 10 or < 5	± 10					
16:30		250	11.72	NA	7.85	29.13	0.869	3.74	0.0	120					
16:35	0.39	250			7.77	28.98	0.866	3.23	0.0	123					
16:40	0.53	250	11.72	NA	7.56	28.54	0.868	1.74	0.0	131					
16:40	0.56	250			7.46	28.14	0.896	1.45	0.0	133					
16:45	0.79	250	11.72	NA	7.35	27.64	0.875	0.32	0.0	126					
16:50	1.13	250			7.26	27.19	0.932	0.00	688	113					
16:55	1.24	250	11.72	NA	7.23	27.06	0.953	0.01	647	110					
17:00	1.11	250			7.22	27.01	0.961	0.02	565	109					
17:05	0.70	250	11.72	NA	7.20	26.95	0.967	0.00	508	108					
17:10	0.11	250			7.18	26.85	0.978	0.00	400	106					
17:15	-0.67	250	11.72	NA	7.17	26.73	0.988	0.00	363	106					
17:20	-1.64	250			7.15	26.79	0.996	0.00	301	106					
17:25	-2.70	250	11.72	NA	7.13	26.76	1.01	0.00	324	106					
17:30	-4.04	250			7.12	26.74	1.01	0.00	319	106					

Additional Notes including Field Parameters:

Comments:

Total Volume Purged: -4.04 gal

of Screen Volumes: ?

of Well Volumes: ?

Sample ID	Type	Matrix	Comp/Grab	Date/Time	Filtered	Analysis	Containers
GW-11222397-103124-CT-18	N	WG	G	10/31 17:35	Yes	Metals (Total), Manganese (Dissolved)	2
GW-11222397-103124-CT-19	FD	WG	G	10/31 17:45	Yes	Metals (Total), Manganese (Dissolved)	2

Monitoring Well Data:

Screen Material:

Screen Start Depth:

Screen End Depth:

Screen Length:

Pump Depth: ft BREF

Constructed Well Depth:

Measured Well Depth: ft BREF

Static Water Depth: ft BREF

Well Diameter:

Water Column Length: ft

Ref Point Elev:

Static Water Elev:

Well Volume: gal

Screen Volume: gal

SSOW Code:

Measurement Type:

Sampling Method: Bladder Pump

Purging Start Time: 14:00

Columns below may be blank if not applicable

Time	Cumulative Volume Purged (gal)	Purge Rate (mL/min)	Depth To Water (ft BREF)	Drawdown from Initial Water Level (ft)	pH (standard units)	Temp (deg C)	Conductivity (uS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (millivolts)	Column Not Applicable	Color (describe)	Column Not Applicable	Odor (describe)	Notes
			Precision Required	< 0.4	± 0.1	±% 3	± 5 or ± 10	±% 10	±% 10 or < 5	± 10					
14:00		250	12.81	NA	6.90	22.03	1.35	0.0	1000	49					
14:05	2377.85	250			6.83	21.84	1.34	0.0	0.0	90					
14:10	2378.07	250	13.75	NA	6.81	21.58	1.34	0.0	0.0	124					
14:15	2378.19	250			6.83	21.45	1.39	0.56	00	142					
14:20	2378.20	250	14.11	NA	6.79	21.39	1.46	0.85	0.0	151					
14:25	2378.13	250			6.81	21.33	1.52	0.77	0.0	140					
14:30	2378.30	250	15.51	NA	6.85	21.24	1.52	0.46	0.0	118					
14:35	2378.37	250			6.84	21.24	1.47	0.00	0.00	118					
14:40	2378.57	250	15.51	NA	6.84	21.23	1.38	3.00	550	89					
14:45	2378.63	250			6.85	21.25	1.38	2.97	430	88					
14:50	2378.89	250	16.00	NA	6.84	21.42	1.40	2.96	367	72					
14:55	2378.99	250			6.84	21.44	1.41	2.92	297	70					
15:00	2378.80	250	16.00	NA	6.83	21.38	1.40	2.91	262	70					
15:05	2379.78	250			6.85	21.45	1.42	1.87	76.3	65					
15:10	2380.46	250	16.00	NA	6.82	21.38	1.41	1.89	81.1	66					
15:15	2380.86	250			6.84	21.41	1.39	1.83	80.3	65					

Additional Notes including Field Parameters:

Comments: Rinse blank off bladder pump 37758.

Total Volume Purged: 2380.86 gal

of Screen Volumes: ?

of Well Volumes: ?

Sample ID	Type	Matrix	Comp/Grab	Date/Time	Filtered	Analysis	Containers
RB-11222397-103124-CT-14	RB	WG	G	10/31 13:40	Yes	Metals (Total), Manganese (Dissolved)	2
GW-11222397-103124-CT-15	N	WG	G	10/31 15:20	Yes	Metals (Total), Manganese (Dissolved)	6

Location Data:

Screen Material: UNKNOWN

Screen Start Depth: 7.5 ft BGS

Screen End Depth: 17.5 ft BGS

Screen Length: 10.0 ft BGS

Pump Depth: ft BREF

Constructed Well Depth:

Measured Well Depth: 17.01 ft BREF

Static Water Depth: 9.52 ft BREF

Well Diameter: 0.75

Water Column Length: 7.49 ft

Ref Point Elev: ft

Static Water Elev: ft

Well Volume: 0 gal

Screen Volume: gal

SSOW Code:

Measurement Type:

Sampling Method: Peristaltic Pump

Purging Start Time: 12:20

Columns below may be blank if not applicable

Time	Cumulative Volume Purged (gal)	Purge Rate (mL/min)	Depth To Water (ft BREF)	Drawdown from Initial Water Level (ft)	pH (standard units)	Temp (deg C)	Conductivity (uS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (millivolts)	Column Not Applicable	Color (describe)	Column Not Applicable	Odor (describe)	Notes
			Precision Required	< 0.4	± 0.1	±% 3	± 5 or ± 10	±% 10	±% 10 or < 5	± 10					
12:20				NA	6.59	19.67	1.16	2.14	1000	58		Brown			
12:25	0.00			NA	6.59	19.68	1.17	0.89	1000	61					PID= 0.4 ppm
12:30	0.00			NA	6.59	19.69	1.17	0.89	656	62					
12:35	0.00			NA	6.59	19.70	1.17	0.72	423	61					PID= 0.2 ppm
12:40	0.00			NA	6.59	19.77	1.17	0.88	149	61					
12:45	0.00			NA	6.59	19.77	1.17	0.99	59.7	61					PID= 0.1 ppm
12:50	0.00			NA	6.59	19.83	1.17	0.89	64.8	62					
12:55	0.00			NA	6.59	19.84	1.18	0.70	72.1	62					PID= 0.0 ppm
13:00	0.00			NA	6.58	19.92	1.18	0.63	71.3	62					
13:05	0.00			NA	6.59	20.06	1.17	0.65	69.0	63					PID= 0.0 ppm
13:10	0.00			NA	6.59	20.08	1.17	0.61	68.7	64					

Additional Notes including Field Parameters:

Comments: Start time 1215; cannot take depth to water readings with tubing in well because well is too thin

Total Volume Purged: 0 gal

of Screen Volumes: ?

of Well Volumes: ?

Sample ID	Type	Matrix	Comp/Grab	Date/Time	Filtered	Analysis	Containers
GW-11222397-110124-ES-21	N	WG	G	11/1 13:15	Yes	Metals (Total), Manganese (Dissolved)	2

Location Data:

Screen Material: UNKNOWN

Screen Start Depth: 9 ft BGS

Screen End Depth: 19 ft BGS

Screen Length: 10.0 ft BGS

Pump Depth: ft BREF

Constructed Well Depth:

Measured Well Depth: 18.95 ft BREF

Static Water Depth: 11.05 ft BREF

Well Diameter: 2.0

Water Column Length: 7.9 ft

Ref Point Elev: ft

Static Water Elev: ft

Well Volume: 0 gal

Screen Volume: gal

SSOW Code:

Measurement Type:

Sampling Method: Peristaltic Pump

Purging Start Time: 13:20

Columns below may be blank if not applicable

Time	Cumulative Volume Purged (gal)	Purge Rate (mL/min)	Depth To Water (ft BREF)	Drawdown from Initial Water Level (ft)	pH (standard units)	Temp (deg C)	Conductivity (uS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (millivolts)	Column Not Applicable	Color (describe)	Column Not Applicable	Odor (describe)	Notes
			Precision Required	< 0.4	± 0.1	±% 3	± 5 or ± 10	±% 10	±% 10 or < 5	± 10					
13:20	0.00	200	11.05	0	7.61	20.85	1.48	4.43	92.7	-142		Black		Oil	
13:25	0.28	200		NA	7.92	20.82	1.46	1.69	74.9	-156					
13:30	0.62	200	11.06	0.01	8.37	20.80	1.44	1.05	83.0	-180		None			
13:35	0.89	200		NA	8.32	20.80	1.43	1.05	30.6	-179					
13:40	1.16	200	11.06	0.01	8.28	21.00	1.42	0.97	14.3	-179					
13:45	1.43	200		NA	8.18	20.81	1.41	0.96	2.5	-176					PID: 0.0 ppm
13:50	1.62	200	11.07	0.02	8.10	20.65	1.41	0.93	5.7	-172					
13:55	1.84	200		NA	7.99	20.66	1.40	0.94	4.1	-168					

Additional Notes including Field Parameters:

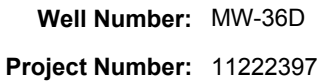
Comments: Start time 1320; Well located between loading zones 213 and 214; PID

Total Volume Purged: 1.84 gal

of Screen Volumes: ?

of Well Volumes: ?

Sample ID	Type	Matrix	Comp/Grab	Date/Time	Filtered	Analysis	Containers
GW-11222397-103024-ES-04	N	WG	G	10/30 14:00		VOCs (TCL)	3
GW-11222397-103024-ES-05	FD	WG	G	10/30 14:10		VOCs (TCL)	3
TB-11222397-103024-ES-06	TB	WG	G	10/30 14:15		VOCs (TCL)	



Sampling Event: 202410-Q4WG

Personnel: ES

GHD

Date: 10/31/2024

Pump Depth:

ft BREF

Water Column Length:

0.96 ft

SSOW Code:

Screen Material: UNKNOWN

Constructed Well Depth:

Ref Point Elev: ft

Measurement Type:

Screen Start Depth: 35 ft BGS

Measured Well Depth: 17.35 ft BREF

Static Water Elev: ft

Sampling Method: Peristaltic Pump

Screen End Depth: 40 ft BGS

Static Water Depth: 16.39 ft BREF

Well Volume: 0 gal

Purging Start Time:

Screen Length: 5.0 ft BGS

Well Diameter:

Screen Volume: gal

Columns below may be blank if not applicable

[illegible]

Additional Notes including Field Parameters:

Comments: Something seems to be blocking the well at 17.35ft, cannot go any deeper

Total Volume Purged: gal

of Screen Volumes:

of Well Volumes:

Sample ID

Type

Matrix

Comp/Grab

Date/Time

Filtered

Analysis

Containers

Location Data:

Screen Material: UNKNOWN

Screen Start Depth: 13 ft BGS

Screen End Depth: 23 ft BGS

Screen Length: 10.0 ft BGS

Pump Depth: ft BREF

Constructed Well Depth:

Measured Well Depth: 22.55 ft BREF

Static Water Depth: 16.36 ft BREF

Well Diameter:

Water Column Length: 6.19 ft

Ref Point Elev: ft

Static Water Elev: ft

Well Volume: 0 gal

Screen Volume: gal

SSOW Code:

Measurement Type:

Sampling Method: Peristaltic Pump

Purging Start Time: 10:05

Columns below may be blank if not applicable

Time	Cumulative Volume Purged (gal)	Purge Rate (mL/min)	Depth To Water (ft BREF)	Drawdown from Initial Water Level (ft)	pH (standard units)	Temp (deg C)	Conductivity (uS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (millivolts)	Column Not Applicable	Color (describe)	Column Not Applicable	Odor (describe)	Notes
			Precision Required	< 0.4	± 0.1	±% 3	± 5 or ± 10	±% 10	±% 10 or < 5	± 10					
10:05		125		NA	6.70	18.64	1.09	12.21	746	-73					
10:10	0.23	125		NA	6.67	18.91	1.10	9.01	772	-77					PID= 0.8 ppm
10:15	0.42	125		NA	6.69	19.36	1.10	8.00	566	-82					
10:20	0.58	125		NA	6.71	19.80	1.09	7.58	454	-83					PID= 26.4 ppm
10:25	0.74	125		NA	6.69	20.29	1.08	7.42	377	-84					
10:30	0.92	125		NA	6.70	20.90	1.02	7.55	394	-86					PID= 37.2 ppm
10:35	1.07	125		NA	6.67	21.41	0.967	7.14	340	-87					

Additional Notes including Field Parameters:

Comments: Start time 1000; can't read depth to water while tubing is in well because well is too thin

Total Volume Purged: 1.07 gal

of Screen Volumes: ?

of Well Volumes: ?

Sample ID	Type	Matrix	Comp/Grab	Date/Time	Filtered	Analysis	Containers
GW-11222397-103124-ES-08	N	WG	G	10/31 10:40		VOCs (TCL), SVOCs (TCL)	5
GW-11222397-103124-ES-09	FD	WG	G	10/31 10:50		SVOCs (TCL)	2

Location Data:

Screen Material: UNKNOWN

Screen Start Depth: 6 ft BGS

Screen End Depth: 16 ft BGS

Screen Length: 10.0 ft BGS

Pump Depth: ft BREF

Constructed Well Depth:

Measured Well Depth: 15.95 ft BREF

Static Water Depth: 9.7 ft BREF

Well Diameter: 0.75

Water Column Length: 6.25 ft

Ref Point Elev: ft

Static Water Elev: ft

Well Volume: 0 gal

Screen Volume: gal

SSOW Code:

Measurement Type:

Sampling Method: Peristaltic Pump

Purging Start Time: 14:55

Columns below may be blank if not applicable

Time	Cumulative Volume Purged (gal)	Purge Rate (mL/min)	Depth To Water (ft BREF)	Drawdown from Initial Water Level (ft)	pH (standard units)	Temp (deg C)	Conductivity (uS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (millivolts)	Column Not Applicable	Color (describe)	Column Not Applicable	Odor (describe)	Notes
			Precision Required	< 0.4	± 0.1	±% 3	± 5 or ± 10	±% 10	±% 10 or < 5	± 10					
14:55		200		NA	6.41	21.82	1.30	4.45	1000	93					
15:00	0.28	200		NA	6.45	21.70	1.30	0.00	1000	95					
15:10	0.81	200		NA	6.46	21.43	1.30	0.00	421	101					
15:15	1.12	200		NA	6.45	21.66	1.30	0.00	287	102					
15:20	1.44	200		NA	6.46	21.82	1.30	0.00	180	103					PID= 0.0 ppm
15:25	1.72	200		NA	6.45	21.66	1.30	0.00	139	103					
15:30	1.98	200		NA	6.46	21.64	1.30	0.00	126	104					PID = 0.0 ppm
15:35	2.25	200		NA	6.46	22.15	1.28	0.00	137	105					

Additional Notes including Field Parameters:

Comments: Start time 1450; cannot take depth to water readings with tubing in well because well is too thin

Total Volume Purged: 2.25 gal

of Screen Volumes: ?

of Well Volumes: ?

Sample ID	Type	Matrix	Comp/Grab	Date/Time	Filtered	Analysis	Containers
GW-11222397-103124-ES-16	N	WG	G	10/31 15:40	Yes	VOCs (TCL), Metals (Total), Manganese (Dissolved)	5
TB-11222397-103124-ES-17	TB	WG	G	10/31 15:45		VOCs (TCL)	2

Location Data:

Screen Material: UNKNOWN

Screen Start Depth: 10 ft BGS

Screen End Depth: 25 ft BGS

Screen Length: ft BGS

Pump Depth: ft BREF

Constructed Well Depth:

Measured Well Depth: ft BREF

Static Water Depth: ft BREF

Well Diameter: 2.0

Water Column Length: ft

Ref Point Elev: ft

Static Water Elev: ft

Well Volume: gal

Screen Volume: gal

SSOW Code:

Measurement Type:

Sampling Method:

Purging Start Time: 11:40

Columns below may be blank if not applicable

Time	Cumulative Volume Purged (gal)	Purge Rate (mL/min)	Depth To Water (ft BREF)	Drawdown from Initial Water Level (ft)	pH (standard units)	Temp (deg C)	Conductivity (uS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (millivolts)	Column Not Applicable	Color (describe)	Column Not Applicable	Odor (describe)	Notes
			Precision Required	< 0.4	± 0.1	±% 3	± 5 or ± 10	±% 10	±% 10 or < 5	± 10					
11:40		250	16.20	NA	7.53	20.34	1.24	1.30	0.0	-69					
11:45	0.76	250			7.13	19.18	1.28	0.19	0.0	-82					
11:50	0.81	250	16.20	NA	7.11	18.84	1.28	0.00	0.0	-85					
11:55	0.88	250			7.10	18.42	1.28	0.00	0.0	-93					
12:00	1.13	250	16.20	NA	7.07	18.27	1.29	0.00	0.0	-96					
12:05	1.21	250			7.03	18.25	1.29	0.00	0.0	-96					

Additional Notes including Field Parameters:

Comments: Rinse blank taken off pump 33122. Switched to new bladder pump switched out battery for sampling. Ground water has a hint of brown in color. Bladder pump 37758

Total Volume Purged: 1.21 gal

of Screen Volumes: ?

of Well Volumes: ?

Sample ID	Type	Matrix	Comp/Grab	Date/Time	Filtered	Analysis	Containers
RB-11222397-103124-CT-11	RB	WG	G	10/31 9:30	No	SVOCs (TCL)	2
GW-11222397-103124-CT-12	N	WG	G	10/31 12:05	No	VOCs (TCL), SVOCs (TCL)	5

Location Data:

Screen Material: UNKNOWN

Screen Start Depth: 9 ft BGS

Screen End Depth: 19 ft BGS

Screen Length: 10.0 ft BGS

Pump Depth: ft BREF

Constructed Well Depth:

Measured Well Depth: 19.11 ft BREF

Static Water Depth: 15.66 ft BREF

Well Diameter: 2.0

Water Column Length: 3.45 ft

Ref Point Elev: ft

Static Water Elev: ft

Well Volume: 0 gal

Screen Volume: gal

SSOW Code:

Measurement Type:

Sampling Method: Peristaltic Pump

Purging Start Time: 15:30

Columns below may be blank if not applicable

Time	Cumulative Volume Purged (gal)	Purge Rate (mL/min)	Depth To Water (ft BREF)	Drawdown from Initial Water Level (ft)	pH (standard units)	Temp (deg C)	Conductivity (uS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (millivolts)	Column Not Applicable	Color (describe)	Column Not Applicable	Odor (describe)	Notes
			Precision Required	< 0.4	± 0.1	±% 3	± 5 or ± 10	±% 10	±% 10 or < 5	± 10					
15:30		200	15.66	0	6.30	23.43	1.18	9.08	76.9	74					
15:35	0.28	200		NA	6.26	24.60	1.08	5.89	70.6	85					
15:40	0.51	200	15.71	0.05	6.20	22.82	1.04	6.85	60.8	93					PID- 0.0 ppm
15:45	0.79	150		NA	6.11	24.48	0.963	6.07	46.9	103					
15:50	1.00	150	15.70	0.04	6.04	24.92	0.901	5.82	12.9	111					PID- 0.0 ppm
15:55	1.18	150		NA	6.05	24.82	0.995	1.51	14.4	114					
16:00	1.39	150	15.70	0.04	6.04	24.83	0.981	1.44	22.9	118					PID= 0.0 ppm
16:05	1.60	150		NA	6.00	24.78	0.944	1.57	16.5	122					
16:10	1.79	150	15.71	0.05	5.97	24.77	0.930	1.41	15.7	126					
16:15	1.98	150		NA	5.96	24.74	0.916	1.47	11.4	129					
16:20	2.17	150	15.70	0.04	5.94	24.67	0.904	1.37	8.1	132					
16:25	2.36	150		NA	5.93	24.59	0.901	1.22	4.9	134					
16:30	2.56	150	15.70	0.04	5.90	24.51	0.890	1.14	3.9	137					
16:35	2.68	150		NA	5.91	24.53	0.895	1.18	3.5	139					

Additional Notes including Field Parameters:

Comments: Start time: 1525

Total Volume Purged: 2.68 gal

of Screen Volumes: ?

of Well Volumes: ?

Sample ID	Type	Matrix	Comp/Grab	Date/Time	Filtered	Analysis	Containers
GW-11222397-103024-ES-07	N	WG	G	10/30 16:35		VOCs (TCL)	9

Location Data:

Screen Material: UNKNOWN

Screen Start Depth: 9 ft BGS

Screen End Depth: 19 ft BGS

Screen Length: ft BGS

Pump Depth: ft BREF

Constructed Well Depth:

Measured Well Depth: 19.69 ft BREF

Static Water Depth: ft BREF

Well Diameter: 2.0

Water Column Length: ft

Ref Point Elev: ft

Static Water Elev: 13.59 ft

Well Volume: gal

Screen Volume: gal

SSOW Code:

Measurement Type:

Sampling Method: Peristaltic Pump

Purging Start Time: 13:30

Columns below may be blank if not applicable

Time	Cumulative Volume Purged (gal)	Purge Rate (mL/min)	Depth To Water (ft BREF)	Drawdown from Initial Water Level (ft)	pH (standard units)	Temp (deg C)	Conductivity (uS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (millivolts)	Column Not Applicable	Color (describe)	Column Not Applicable	Odor (describe)	Notes
			Precision Required	< 0.4	± 0.1	±% 3	± 5 or ± 10	±% 10	±% 10 or < 5	± 10					
13:30	0.00	250	13.59	NA	6.21	21.71	1.14	3.37	0.0	209					
13:35	0.00	250			5.53	20.37	1.12	3.05	795	251					
13:40	0.23	250	13.72	NA	5.45	20.10	1.13	1.57	601	263					
13:45	0.12	250			5.51	20.14	1.15	0.85	385	269					
13:50	0.10	250	13.75	NA	5.51	20.03	1.18	0.49	231	270					
13:55	-0.01	250			5.52	19.81	1.18	0.00	174	275					
14:00	0.01	250	13.72	NA	5.52	20.04	1.18	0.01	113	273					
14:05	-0.08	250			5.52	20.23	1.20	0.00	76.7	273					
14:10	-0.42	250	13.72	NA	5.56	20.29	1.19	0.00	61.4	274					
14:15	-0.71	250			5.52	20.15	1.19	0.00	46.1	271					
14:20	-1.12	250	13.72	NA	5.52	20.06	1.19	0.00	35.7	274					
14:25	-1.66	250			5.53	20.18	1.20	0.00	31.3	271					
14:30	-2.06	250	13.72	NA	5.53	20.06	1.20	0.00	20.1	274					

Additional Notes including Field Parameters:

Comments: Rinse blank off bladder pump. Bladder pump is 33122. All other parameters were stabilizing, except for turbidity, after while, just went ahead and took samples since everything else was stabilizing. The color had a hint of brown to begin with, but then was clear as groundwater sampling continued.

Total Volume Purged: -2.06 gal

of Screen Volumes: ?

of Well Volumes: ?

Sample ID	Type	Matrix	Comp/Grab	Date/Time	Filtered	Analysis	Containers
RB-11222397-103024-CT-01	RB	WG	G	10/30 13:00	No	VOCs (TCL)	3
GW-11222397-103024-CT-02	N	WG	G	10/30 14:30	No	VOCs (TCL)	3
TB-11222397-103024-CT-03	TB	WG	G	10/30 14:35	No	VOCs (TCL)	2

Appendix D

Level 2 Laboratory Analytical Reports

ANALYTICAL REPORT

PREPARED FOR

Attn: Christopher Arcuri
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Generated 11/11/2024 3:53:23 PM

JOB DESCRIPTION

Racer Trust

JOB NUMBER

460-314495-1

Eurofins Edison

Job Notes

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

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

Authorization



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Authorized for release by
Elizabeth Flannery, Project Manager I
Elizabeth.Flannery@et.eurofinsus.com
(732)549-3900

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: Racer Trust

Job ID: 460-314495-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.

Glossary

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

Case Narrative

Client: GHD Services Inc.
Project: Racer Trust

Job ID: 460-314495-1

Job ID: 460-314495-1

Eurofins Edison

CASE NARRATIVE

Client: GHD Services Inc.

Project: Racer Trust

Report Number: 460-314495-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

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

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

RECEIPT

The samples were received on 10/30/2024 7:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples RB-11222397-103024-CT-01 (460-314495-1), GW-11222397-103024-CT-02 (460-314495-2), TB-11222397-103024-CT-03 (460-314495-3), GW-11222397-103024-ES-04 (460-314495-4), GW-11222397-103024-ES-05 (460-314495-5) and TB-11222397-103024-ES-06 (460-314495-6) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260DEL. The samples were analyzed on 11/06/2024 and 11/07/2024.

The continuing calibration verification (CCV) associated with batch 460-1005690 recovered above the upper control limit for 2-Butanone (MEK). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: GW-11222397-103024-ES-04 (460-314495-4) and (CCVIS 460-1005690/3).

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

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Detection Summary

Client: GHD Services Inc.
Project/Site: Racer Trust

Job ID: 460-314495-1

Client Sample ID: RB-11222397-103024-CT-01

Lab Sample ID: 460-314495-1

No Detections.

Client Sample ID: GW-11222397-103024-CT-02

Lab Sample ID: 460-314495-2

No Detections.

Client Sample ID: TB-11222397-103024-CT-03

Lab Sample ID: 460-314495-3

No Detections.

Client Sample ID: GW-11222397-103024-ES-04

Lab Sample ID: 460-314495-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2.6		1.0	0.37	ug/L	1			8260D	Total/NA
2-Butanone (MEK)	3.5	J	5.0	1.9	ug/L	1			8260D	Total/NA
Acetone	17		5.0	4.4	ug/L	1			8260D	Total/NA
Carbon disulfide	7.3		1.0	0.82	ug/L	1			8260D	Total/NA
cis-1,2-Dichloroethene	1.7		1.0	0.22	ug/L	1			8260D	Total/NA
Ethylbenzene	1.1		1.0	0.30	ug/L	1			8260D	Total/NA
Styrene	0.50	J	1.0	0.42	ug/L	1			8260D	Total/NA
Toluene	0.51	J	1.0	0.38	ug/L	1			8260D	Total/NA
Trichloroethene	0.44	J	1.0	0.31	ug/L	1			8260D	Total/NA
Vinyl chloride	1.7		1.0	0.17	ug/L	1			8260D	Total/NA
Xylenes, Total	4.7		2.0	0.65	ug/L	1			8260D	Total/NA

Client Sample ID: GW-11222397-103024-ES-05

Lab Sample ID: 460-314495-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2.7		1.0	0.37	ug/L	1			8260D	Total/NA
Acetone	15		5.0	4.4	ug/L	1			8260D	Total/NA
Carbon disulfide	7.1		1.0	0.82	ug/L	1			8260D	Total/NA
cis-1,2-Dichloroethene	1.9		1.0	0.22	ug/L	1			8260D	Total/NA
Ethylbenzene	0.95	J	1.0	0.30	ug/L	1			8260D	Total/NA
Styrene	0.48	J	1.0	0.42	ug/L	1			8260D	Total/NA
Toluene	0.53	J	1.0	0.38	ug/L	1			8260D	Total/NA
Vinyl chloride	1.6		1.0	0.17	ug/L	1			8260D	Total/NA
Xylenes, Total	4.6		2.0	0.65	ug/L	1			8260D	Total/NA

Client Sample ID: TB-11222397-103024-ES-06

Lab Sample ID: 460-314495-6

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Racer Trust

Job ID: 460-314495-1

Client Sample ID: RB-11222397-103024-CT-01

Lab Sample ID: 460-314495-1

Date Collected: 10/30/24 13:00

Matrix: Water

Date Received: 10/30/24 19:00

Method: SW846 8260D - Volatile Organics (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			11/06/24 21:21	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/06/24 21:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/06/24 21:21	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/06/24 21:21	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/06/24 21:21	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/06/24 21:21	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/06/24 21:21	1
1,2,4-Trimethylbenzene	0.37	U	1.0	0.37	ug/L			11/06/24 21:21	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/06/24 21:21	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/06/24 21:21	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/06/24 21:21	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			11/06/24 21:21	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/06/24 21:21	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/06/24 21:21	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/06/24 21:21	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			11/06/24 21:21	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/06/24 21:21	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			11/06/24 21:21	1
Acetone	4.4	U	5.0	4.4	ug/L			11/06/24 21:21	1
Benzene	0.20	U	1.0	0.20	ug/L			11/06/24 21:21	1
Bromoform	0.54	U	1.0	0.54	ug/L			11/06/24 21:21	1
Bromomethane	0.55	U	1.0	0.55	ug/L			11/06/24 21:21	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			11/06/24 21:21	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			11/06/24 21:21	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/06/24 21:21	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			11/06/24 21:21	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/06/24 21:21	1
Chloroform	0.33	U	1.0	0.33	ug/L			11/06/24 21:21	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/06/24 21:21	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			11/06/24 21:21	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/06/24 21:21	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			11/06/24 21:21	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			11/06/24 21:21	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/06/24 21:21	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			11/06/24 21:21	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			11/06/24 21:21	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/06/24 21:21	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/06/24 21:21	1
Methylcyclohexane	0.71	U	1.0	0.71	ug/L			11/06/24 21:21	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			11/06/24 21:21	1
Styrene	0.42	U	1.0	0.42	ug/L			11/06/24 21:21	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			11/06/24 21:21	1
Toluene	0.38	U	1.0	0.38	ug/L			11/06/24 21:21	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/06/24 21:21	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/06/24 21:21	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			11/06/24 21:21	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			11/06/24 21:21	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			11/06/24 21:21	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			11/06/24 21:21	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Racer Trust

Job ID: 460-314495-1

Client Sample ID: RB-11222397-103024-CT-01

Lab Sample ID: 460-314495-1

Date Collected: 10/30/24 13:00

Matrix: Water

Date Received: 10/30/24 19:00

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>			<i>N/A</i>		<i>11/06/24 21:21</i>	<i>1</i>
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	<i>106</i>		<i>70 - 128</i>					<i>11/06/24 21:21</i>	<i>1</i>
<i>4-Bromofluorobenzene</i>	<i>99</i>		<i>76 - 120</i>					<i>11/06/24 21:21</i>	<i>1</i>
<i>Dibromofluoromethane (Surr)</i>	<i>102</i>		<i>77 - 132</i>					<i>11/06/24 21:21</i>	<i>1</i>
<i>Toluene-d8 (Surr)</i>	<i>98</i>		<i>80 - 120</i>					<i>11/06/24 21:21</i>	<i>1</i>

Client Sample ID: GW-11222397-103024-CT-02

Lab Sample ID: 460-314495-2

Date Collected: 10/30/24 14:30

Matrix: Water

Date Received: 10/30/24 19:00

Method: SW846 8260D - Volatile Organics (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			11/07/24 15:25	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/07/24 15:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/07/24 15:25	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/07/24 15:25	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/07/24 15:25	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/07/24 15:25	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/07/24 15:25	1
1,2,4-Trimethylbenzene	0.37	U	1.0	0.37	ug/L			11/07/24 15:25	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/07/24 15:25	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/07/24 15:25	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/07/24 15:25	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			11/07/24 15:25	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/07/24 15:25	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/07/24 15:25	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/07/24 15:25	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			11/07/24 15:25	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/07/24 15:25	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			11/07/24 15:25	1
Acetone	4.4	U	5.0	4.4	ug/L			11/07/24 15:25	1
Benzene	0.20	U	1.0	0.20	ug/L			11/07/24 15:25	1
Bromoform	0.54	U	1.0	0.54	ug/L			11/07/24 15:25	1
Bromomethane	0.55	U	1.0	0.55	ug/L			11/07/24 15:25	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			11/07/24 15:25	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			11/07/24 15:25	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/07/24 15:25	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			11/07/24 15:25	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/07/24 15:25	1
Chloroform	0.33	U	1.0	0.33	ug/L			11/07/24 15:25	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/07/24 15:25	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			11/07/24 15:25	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/07/24 15:25	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			11/07/24 15:25	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			11/07/24 15:25	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/07/24 15:25	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			11/07/24 15:25	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			11/07/24 15:25	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/07/24 15:25	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Racer Trust

Job ID: 460-314495-1

Client Sample ID: GW-11222397-103024-CT-02

Lab Sample ID: 460-314495-2

Date Collected: 10/30/24 14:30

Matrix: Water

Date Received: 10/30/24 19:00

Method: SW846 8260D - Volatile Organics (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/07/24 15:25	1
Methylcyclohexane	0.71	U	1.0	0.71	ug/L			11/07/24 15:25	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			11/07/24 15:25	1
Styrene	0.42	U	1.0	0.42	ug/L			11/07/24 15:25	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			11/07/24 15:25	1
Toluene	0.38	U	1.0	0.38	ug/L			11/07/24 15:25	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/07/24 15:25	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/07/24 15:25	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			11/07/24 15:25	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			11/07/24 15:25	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			11/07/24 15:25	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			11/07/24 15:25	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		11/07/24 15:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 128		11/07/24 15:25	1
4-Bromofluorobenzene	95		76 - 120		11/07/24 15:25	1
Dibromofluoromethane (Surr)	105		77 - 132		11/07/24 15:25	1
Toluene-d8 (Surr)	97		80 - 120		11/07/24 15:25	1

Client Sample ID: TB-11222397-103024-CT-03

Lab Sample ID: 460-314495-3

Date Collected: 10/30/24 14:35

Matrix: Water

Date Received: 10/30/24 19:00

Method: SW846 8260D - Volatile Organics (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			11/06/24 21:45	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/06/24 21:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/06/24 21:45	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/06/24 21:45	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/06/24 21:45	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/06/24 21:45	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/06/24 21:45	1
1,2,4-Trimethylbenzene	0.37	U	1.0	0.37	ug/L			11/06/24 21:45	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/06/24 21:45	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/06/24 21:45	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/06/24 21:45	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			11/06/24 21:45	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/06/24 21:45	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/06/24 21:45	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/06/24 21:45	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			11/06/24 21:45	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/06/24 21:45	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			11/06/24 21:45	1
Acetone	4.4	U	5.0	4.4	ug/L			11/06/24 21:45	1
Benzene	0.20	U	1.0	0.20	ug/L			11/06/24 21:45	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			11/06/24 21:45	1
Bromoform	0.54	U	1.0	0.54	ug/L			11/06/24 21:45	1

Eurofins Edison

Client Sample Results

Client: GHD Services Inc.
Project/Site: Racer Trust

Job ID: 460-314495-1

Client Sample ID: TB-11222397-103024-CT-03

Lab Sample ID: 460-314495-3

Date Collected: 10/30/24 14:35

Matrix: Water

Date Received: 10/30/24 19:00

Method: SW846 8260D - Volatile Organics (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	0.55	U	1.0	0.55	ug/L			11/06/24 21:45	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			11/06/24 21:45	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			11/06/24 21:45	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/06/24 21:45	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/06/24 21:45	1
Chloroform	0.33	U	1.0	0.33	ug/L			11/06/24 21:45	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/06/24 21:45	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			11/06/24 21:45	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/06/24 21:45	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			11/06/24 21:45	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			11/06/24 21:45	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/06/24 21:45	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			11/06/24 21:45	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			11/06/24 21:45	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/06/24 21:45	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/06/24 21:45	1
Methylcyclohexane	0.71	U	1.0	0.71	ug/L			11/06/24 21:45	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			11/06/24 21:45	1
Styrene	0.42	U	1.0	0.42	ug/L			11/06/24 21:45	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			11/06/24 21:45	1
Toluene	0.38	U	1.0	0.38	ug/L			11/06/24 21:45	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/06/24 21:45	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/06/24 21:45	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			11/06/24 21:45	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			11/06/24 21:45	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			11/06/24 21:45	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			11/06/24 21:45	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		11/06/24 21:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 128		11/06/24 21:45	1
4-Bromofluorobenzene	101		76 - 120		11/06/24 21:45	1
Dibromofluoromethane (Surr)	103		77 - 132		11/06/24 21:45	1
Toluene-d8 (Surr)	95		80 - 120		11/06/24 21:45	1

Client Sample ID: GW-11222397-103024-ES-04

Lab Sample ID: 460-314495-4

Date Collected: 10/30/24 14:00

Matrix: Water

Date Received: 10/30/24 19:00

Method: SW846 8260D - Volatile Organics (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			11/07/24 14:59	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/07/24 14:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/07/24 14:59	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/07/24 14:59	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/07/24 14:59	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/07/24 14:59	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/07/24 14:59	1

Eurofins Edison

Client Sample Results

Client: GHD Services Inc.
Project/Site: Racer Trust

Job ID: 460-314495-1

Client Sample ID: GW-11222397-103024-ES-04

Lab Sample ID: 460-314495-4

Date Collected: 10/30/24 14:00

Matrix: Water

Date Received: 10/30/24 19:00

Method: SW846 8260D - Volatile Organics (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	2.6		1.0	0.37	ug/L			11/07/24 14:59	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/07/24 14:59	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/07/24 14:59	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/07/24 14:59	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			11/07/24 14:59	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/07/24 14:59	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/07/24 14:59	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/07/24 14:59	1
2-Butanone (MEK)	3.5	J	5.0	1.9	ug/L			11/07/24 14:59	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/07/24 14:59	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			11/07/24 14:59	1
Acetone	17		5.0	4.4	ug/L			11/07/24 14:59	1
Benzene	0.20	U	1.0	0.20	ug/L			11/07/24 14:59	1
Bromoform	0.54	U	1.0	0.54	ug/L			11/07/24 14:59	1
Bromomethane	0.55	U	1.0	0.55	ug/L			11/07/24 14:59	1
Carbon disulfide	7.3		1.0	0.82	ug/L			11/07/24 14:59	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			11/07/24 14:59	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/07/24 14:59	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			11/07/24 14:59	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/07/24 14:59	1
Chloroform	0.33	U	1.0	0.33	ug/L			11/07/24 14:59	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/07/24 14:59	1
cis-1,2-Dichloroethene	1.7		1.0	0.22	ug/L			11/07/24 14:59	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/07/24 14:59	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			11/07/24 14:59	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			11/07/24 14:59	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/07/24 14:59	1
Ethylbenzene	1.1		1.0	0.30	ug/L			11/07/24 14:59	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			11/07/24 14:59	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/07/24 14:59	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/07/24 14:59	1
Methylcyclohexane	0.71	U	1.0	0.71	ug/L			11/07/24 14:59	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			11/07/24 14:59	1
Styrene	0.50	J	1.0	0.42	ug/L			11/07/24 14:59	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			11/07/24 14:59	1
Toluene	0.51	J	1.0	0.38	ug/L			11/07/24 14:59	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/07/24 14:59	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/07/24 14:59	1
Trichloroethene	0.44	J	1.0	0.31	ug/L			11/07/24 14:59	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			11/07/24 14:59	1
Vinyl chloride	1.7		1.0	0.17	ug/L			11/07/24 14:59	1
Xylenes, Total	4.7		2.0	0.65	ug/L			11/07/24 14:59	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
1,1-Dichloro-1-fluoroethane	7.9	J N	ug/L		2.59	1717-00-6		11/07/24 14:59	1
Naphthalene	5.3	J N	ug/L		13.04	91-20-3		11/07/24 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 128		11/07/24 14:59	1
4-Bromofluorobenzene	94		76 - 120		11/07/24 14:59	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Racer Trust

Job ID: 460-314495-1

Client Sample ID: GW-11222397-103024-ES-04

Lab Sample ID: 460-314495-4

Date Collected: 10/30/24 14:00

Matrix: Water

Date Received: 10/30/24 19:00

Method: SW846 8260D - Volatile Organics (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	104		77 - 132		11/07/24 14:59	1
Toluene-d8 (Surr)	98		80 - 120		11/07/24 14:59	1

Client Sample ID: GW-11222397-103024-ES-05

Lab Sample ID: 460-314495-5

Date Collected: 10/30/24 14:10

Matrix: Water

Date Received: 10/30/24 19:00

Method: SW846 8260D - Volatile Organics (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			11/07/24 14:34	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/07/24 14:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/07/24 14:34	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/07/24 14:34	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/07/24 14:34	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/07/24 14:34	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/07/24 14:34	1
1,2,4-Trimethylbenzene	2.7		1.0	0.37	ug/L			11/07/24 14:34	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/07/24 14:34	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/07/24 14:34	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/07/24 14:34	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			11/07/24 14:34	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/07/24 14:34	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/07/24 14:34	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/07/24 14:34	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			11/07/24 14:34	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/07/24 14:34	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			11/07/24 14:34	1
Acetone	15		5.0	4.4	ug/L			11/07/24 14:34	1
Benzene	0.20	U	1.0	0.20	ug/L			11/07/24 14:34	1
Bromoform	0.54	U	1.0	0.54	ug/L			11/07/24 14:34	1
Bromomethane	0.55	U	1.0	0.55	ug/L			11/07/24 14:34	1
Carbon disulfide	7.1		1.0	0.82	ug/L			11/07/24 14:34	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			11/07/24 14:34	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/07/24 14:34	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			11/07/24 14:34	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/07/24 14:34	1
Chloroform	0.33	U	1.0	0.33	ug/L			11/07/24 14:34	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/07/24 14:34	1
cis-1,2-Dichloroethene	1.9		1.0	0.22	ug/L			11/07/24 14:34	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/07/24 14:34	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			11/07/24 14:34	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			11/07/24 14:34	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/07/24 14:34	1
Ethylbenzene	0.95	J	1.0	0.30	ug/L			11/07/24 14:34	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			11/07/24 14:34	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/07/24 14:34	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/07/24 14:34	1
Methylcyclohexane	0.71	U	1.0	0.71	ug/L			11/07/24 14:34	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			11/07/24 14:34	1

Eurofins Edison

Client Sample Results

Client: GHD Services Inc.
Project/Site: Racer Trust

Job ID: 460-314495-1

Client Sample ID: GW-11222397-103024-ES-05

Lab Sample ID: 460-314495-5

Date Collected: 10/30/24 14:10

Matrix: Water

Date Received: 10/30/24 19:00

Method: SW846 8260D - Volatile Organics (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.48	J	1.0	0.42	ug/L			11/07/24 14:34	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			11/07/24 14:34	1
Toluene	0.53	J	1.0	0.38	ug/L			11/07/24 14:34	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/07/24 14:34	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/07/24 14:34	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			11/07/24 14:34	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			11/07/24 14:34	1
Vinyl chloride	1.6		1.0	0.17	ug/L			11/07/24 14:34	1
Xylenes, Total	4.6		2.0	0.65	ug/L			11/07/24 14:34	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
1,1-Dichloro-1-fluoroethane	7.8	J N	ug/L		2.59	1717-00-6		11/07/24 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 128		11/07/24 14:34	1
4-Bromofluorobenzene	96		76 - 120		11/07/24 14:34	1
Dibromofluoromethane (Surr)	104		77 - 132		11/07/24 14:34	1
Toluene-d8 (Surr)	98		80 - 120		11/07/24 14:34	1

Client Sample ID: TB-11222397-103024-ES-06

Lab Sample ID: 460-314495-6

Date Collected: 10/30/24 14:15

Matrix: Water

Date Received: 10/30/24 19:00

Method: SW846 8260D - Volatile Organics (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			11/06/24 22:10	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/06/24 22:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/06/24 22:10	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/06/24 22:10	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/06/24 22:10	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/06/24 22:10	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/06/24 22:10	1
1,2,4-Trimethylbenzene	0.37	U	1.0	0.37	ug/L			11/06/24 22:10	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/06/24 22:10	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/06/24 22:10	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/06/24 22:10	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			11/06/24 22:10	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/06/24 22:10	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/06/24 22:10	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/06/24 22:10	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			11/06/24 22:10	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/06/24 22:10	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			11/06/24 22:10	1
Acetone	4.4	U	5.0	4.4	ug/L			11/06/24 22:10	1
Benzene	0.20	U	1.0	0.20	ug/L			11/06/24 22:10	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			11/06/24 22:10	1
Bromoform	0.54	U	1.0	0.54	ug/L			11/06/24 22:10	1
Bromomethane	0.55	U	1.0	0.55	ug/L			11/06/24 22:10	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			11/06/24 22:10	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			11/06/24 22:10	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Racer Trust

Job ID: 460-314495-1

Client Sample ID: TB-11222397-103024-ES-06

Lab Sample ID: 460-314495-6

Date Collected: 10/30/24 14:15

Matrix: Water

Date Received: 10/30/24 19:00

Method: SW846 8260D - Volatile Organics (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/06/24 22:10	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/06/24 22:10	1
Chloroform	0.33	U	1.0	0.33	ug/L			11/06/24 22:10	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/06/24 22:10	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			11/06/24 22:10	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/06/24 22:10	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			11/06/24 22:10	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			11/06/24 22:10	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/06/24 22:10	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			11/06/24 22:10	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			11/06/24 22:10	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/06/24 22:10	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/06/24 22:10	1
Methylcyclohexane	0.71	U	1.0	0.71	ug/L			11/06/24 22:10	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			11/06/24 22:10	1
Styrene	0.42	U	1.0	0.42	ug/L			11/06/24 22:10	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			11/06/24 22:10	1
Toluene	0.38	U	1.0	0.38	ug/L			11/06/24 22:10	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/06/24 22:10	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/06/24 22:10	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			11/06/24 22:10	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			11/06/24 22:10	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			11/06/24 22:10	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			11/06/24 22:10	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		11/06/24 22:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 128		11/06/24 22:10	1
4-Bromofluorobenzene	101		76 - 120		11/06/24 22:10	1
Dibromofluoromethane (Surr)	103		77 - 132		11/06/24 22:10	1
Toluene-d8 (Surr)	97		80 - 120		11/06/24 22:10	1

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Racer Trust

Job ID: 460-314495-1

Method: 8260D - Volatile Organics (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (70-128)	BFB (76-120)	DBFM (77-132)	TOL (80-120)
460-314495-1	RB-11222397-103024-CT-01	106	99	102	98
460-314495-2	GW-11222397-103024-CT-02	101	95	105	97
460-314495-3	TB-11222397-103024-CT-03	100	101	103	95
460-314495-4	GW-11222397-103024-ES-04	103	94	104	98
460-314495-5	GW-11222397-103024-ES-05	101	96	104	98
460-314495-6	TB-11222397-103024-ES-06	99	101	103	97
LCS 460-1005622/4	Lab Control Sample	97	99	98	92
LCS 460-1005690/4	Lab Control Sample	104	101	103	102
LCSD 460-1005622/5	Lab Control Sample Dup	100	94	96	92
LCSD 460-1005690/5	Lab Control Sample Dup	101	99	98	98
MB 460-1005622/10	Method Blank	100	94	98	93
MB 460-1005690/9	Method Blank	101	99	103	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: GHD Services Inc.
Project/Site: Racer Trust

Job ID: 460-314495-1

Method: 8260D - Volatile Organics (GC/MS)

Lab Sample ID: MB 460-1005622/10

Matrix: Water

Analysis Batch: 1005622

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			11/06/24 20:57	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/06/24 20:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/06/24 20:57	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/06/24 20:57	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/06/24 20:57	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/06/24 20:57	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/06/24 20:57	1
1,2,4-Trimethylbenzene	0.37	U	1.0	0.37	ug/L			11/06/24 20:57	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/06/24 20:57	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/06/24 20:57	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/06/24 20:57	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			11/06/24 20:57	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/06/24 20:57	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/06/24 20:57	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/06/24 20:57	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			11/06/24 20:57	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/06/24 20:57	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			11/06/24 20:57	1
Acetone	4.4	U	5.0	4.4	ug/L			11/06/24 20:57	1
Benzene	0.20	U	1.0	0.20	ug/L			11/06/24 20:57	1
Bromoform	0.54	U	1.0	0.54	ug/L			11/06/24 20:57	1
Bromomethane	0.55	U	1.0	0.55	ug/L			11/06/24 20:57	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			11/06/24 20:57	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			11/06/24 20:57	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/06/24 20:57	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/06/24 20:57	1
Chloroform	0.33	U	1.0	0.33	ug/L			11/06/24 20:57	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/06/24 20:57	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			11/06/24 20:57	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/06/24 20:57	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			11/06/24 20:57	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			11/06/24 20:57	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			11/06/24 20:57	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/06/24 20:57	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			11/06/24 20:57	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			11/06/24 20:57	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/06/24 20:57	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/06/24 20:57	1
Methylcyclohexane	0.71	U	1.0	0.71	ug/L			11/06/24 20:57	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			11/06/24 20:57	1
Styrene	0.42	U	1.0	0.42	ug/L			11/06/24 20:57	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			11/06/24 20:57	1
Toluene	0.38	U	1.0	0.38	ug/L			11/06/24 20:57	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/06/24 20:57	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/06/24 20:57	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			11/06/24 20:57	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			11/06/24 20:57	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			11/06/24 20:57	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Racer Trust

Job ID: 460-314495-1

Method: 8260D - Volatile Organics (GC/MS) (Continued)

Lab Sample ID: MB 460-1005622/10

Matrix: Water

Analysis Batch: 1005622

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.65	U	2.0	0.65	ug/L			11/06/24 20:57	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		11/06/24 20:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 128		11/06/24 20:57	1
4-Bromofluorobenzene	94		76 - 120		11/06/24 20:57	1
Dibromofluoromethane (Surr)	98		77 - 132		11/06/24 20:57	1
Toluene-d8 (Surr)	93		80 - 120		11/06/24 20:57	1

Lab Sample ID: LCS 460-1005622/4

Matrix: Water

Analysis Batch: 1005622

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	18.7		ug/L		94	72 - 128
1,1,2,2-Tetrachloroethane	20.0	17.9		ug/L		90	63 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	17.3		ug/L		86	65 - 142
1,1,2-Trichloroethane	20.0	17.1		ug/L		86	74 - 125
1,1-Dichloroethane	20.0	18.5		ug/L		92	73 - 130
1,1-Dichloroethene	20.0	17.8		ug/L		89	68 - 133
1,2,4-Trichlorobenzene	20.0	18.8		ug/L		94	67 - 132
1,2,4-Trimethylbenzene	20.0	19.0		ug/L		95	75 - 125
1,2-Dibromo-3-Chloropropane	20.0	21.0		ug/L		105	58 - 132
1,2-Dibromoethane	20.0	18.5		ug/L		93	79 - 126
1,2-Dichlorobenzene	20.0	18.5		ug/L		93	80 - 120
1,2-Dichloroethane	20.0	18.8		ug/L		94	66 - 129
1,2-Dichloropropane	20.0	17.6		ug/L		88	72 - 128
1,3-Dichlorobenzene	20.0	19.1		ug/L		96	80 - 120
1,4-Dichlorobenzene	20.0	19.0		ug/L		95	80 - 120
2-Butanone (MEK)	100	91.7		ug/L		92	65 - 142
2-Hexanone	100	91.5		ug/L		92	72 - 134
4-Methyl-2-pentanone (MIBK)	100	95.6		ug/L		96	77 - 130
Acetone	100	85.5		ug/L		85	60 - 133
Benzene	20.0	18.3		ug/L		92	71 - 126
Bromoform	20.0	18.3		ug/L		91	58 - 128
Bromomethane	20.0	18.2		ug/L		91	33 - 150
Carbon disulfide	20.0	17.8		ug/L		89	35 - 150
Carbon tetrachloride	20.0	20.0		ug/L		100	65 - 131
Chlorobenzene	20.0	18.0		ug/L		90	80 - 120
Chloroethane	20.0	17.4		ug/L		87	54 - 150
Chloroform	20.0	19.3		ug/L		96	78 - 125
Chloromethane	20.0	17.5		ug/L		87	43 - 149
cis-1,2-Dichloroethene	20.0	18.8		ug/L		94	78 - 121
cis-1,3-Dichloropropene	20.0	18.2		ug/L		91	74 - 125
Cyclohexane	20.0	16.3		ug/L		82	64 - 142

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Racer Trust

Job ID: 460-314495-1

Method: 8260D - Volatile Organics (GC/MS) (Continued)

Lab Sample ID: LCS 460-1005622/4

Matrix: Water

Analysis Batch: 1005622

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorodibromomethane	20.0	20.0		ug/L		100	73 - 121
Dichlorobromomethane	20.0	18.6		ug/L		93	76 - 121
Dichlorodifluoromethane	20.0	17.4		ug/L		87	38 - 144
Ethylbenzene	20.0	17.5		ug/L		88	78 - 120
Isopropylbenzene	20.0	17.5		ug/L		88	79 - 125
Methyl acetate	40.0	37.2		ug/L		93	50 - 147
Methyl tert-butyl ether	20.0	18.8		ug/L		94	72 - 131
Methylcyclohexane	20.0	18.4		ug/L		92	63 - 138
Methylene Chloride	20.0	18.0		ug/L		90	74 - 127
Styrene	20.0	17.6		ug/L		88	82 - 127
Tetrachloroethene	20.0	19.3		ug/L		97	70 - 127
Toluene	20.0	17.5		ug/L		88	78 - 120
trans-1,2-Dichloroethene	20.0	18.0		ug/L		90	70 - 126
trans-1,3-Dichloropropene	20.0	18.8		ug/L		94	71 - 127
Trichloroethene	20.0	18.9		ug/L		95	73 - 121
Trichlorofluoromethane	20.0	18.7		ug/L		93	62 - 134
Vinyl chloride	20.0	17.1		ug/L		85	55 - 144
Xylenes, Total	40.0	35.6		ug/L		89	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 128
4-Bromofluorobenzene	99		76 - 120
Dibromofluoromethane (Surr)	98		77 - 132
Toluene-d8 (Surr)	92		80 - 120

Lab Sample ID: LCSD 460-1005622/5

Matrix: Water

Analysis Batch: 1005622

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	18.7		ug/L		94	72 - 128	0	30
1,1,2,2-Tetrachloroethane	20.0	18.0		ug/L		90	63 - 139	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.1		ug/L		96	65 - 142	10	30
1,1,2-Trichloroethane	20.0	15.6		ug/L		78	74 - 125	9	30
1,1-Dichloroethane	20.0	19.5		ug/L		97	73 - 130	5	30
1,1-Dichloroethene	20.0	19.4		ug/L		97	68 - 133	9	30
1,2,4-Trichlorobenzene	20.0	18.6		ug/L		93	67 - 132	1	30
1,2,4-Trimethylbenzene	20.0	18.6		ug/L		93	75 - 125	2	30
1,2-Dibromo-3-Chloropropane	20.0	18.1		ug/L		90	58 - 132	15	30
1,2-Dibromoethane	20.0	17.9		ug/L		89	79 - 126	4	30
1,2-Dichlorobenzene	20.0	19.0		ug/L		95	80 - 120	3	30
1,2-Dichloroethane	20.0	18.7		ug/L		94	66 - 129	0	30
1,2-Dichloropropane	20.0	19.0		ug/L		95	72 - 128	8	30
1,3-Dichlorobenzene	20.0	19.6		ug/L		98	80 - 120	2	30
1,4-Dichlorobenzene	20.0	18.3		ug/L		92	80 - 120	3	30
2-Butanone (MEK)	100	84.7		ug/L		85	65 - 142	8	30
2-Hexanone	100	89.1		ug/L		89	72 - 134	3	30
4-Methyl-2-pentanone (MIBK)	100	94.7		ug/L		95	77 - 130	1	30

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Racer Trust

Job ID: 460-314495-1

Method: 8260D - Volatile Organics (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1005622/5

Matrix: Water

Analysis Batch: 1005622

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	100	82.3		ug/L		82	60 - 133	4	30
Benzene	20.0	18.0		ug/L		90	71 - 126	2	30
Bromoform	20.0	18.1		ug/L		90	58 - 128	1	30
Bromomethane	20.0	17.2		ug/L		86	33 - 150	6	30
Carbon disulfide	20.0	17.8		ug/L		89	35 - 150	0	30
Carbon tetrachloride	20.0	19.3		ug/L		96	65 - 131	4	30
Chlorobenzene	20.0	18.7		ug/L		94	80 - 120	4	30
Chloroethane	20.0	17.6		ug/L		88	54 - 150	2	30
Chloroform	20.0	19.5		ug/L		98	78 - 125	1	30
Chloromethane	20.0	17.9		ug/L		89	43 - 149	2	30
cis-1,2-Dichloroethene	20.0	19.6		ug/L		98	78 - 121	4	30
cis-1,3-Dichloropropene	20.0	19.9		ug/L		99	74 - 125	9	30
Cyclohexane	20.0	18.2		ug/L		91	64 - 142	11	30
Chlorodibromomethane	20.0	19.1		ug/L		95	73 - 121	5	30
Dichlorobromomethane	20.0	19.6		ug/L		98	76 - 121	5	30
Dichlorodifluoromethane	20.0	19.5		ug/L		97	38 - 144	11	30
Ethylbenzene	20.0	18.8		ug/L		94	78 - 120	7	30
Isopropylbenzene	20.0	17.2		ug/L		86	79 - 125	2	30
Methyl acetate	40.0	37.5		ug/L		94	50 - 147	1	30
Methyl tert-butyl ether	20.0	19.1		ug/L		96	72 - 131	2	30
Methylcyclohexane	20.0	19.1		ug/L		96	63 - 138	4	30
Methylene Chloride	20.0	19.1		ug/L		96	74 - 127	6	30
Styrene	20.0	18.6		ug/L		93	82 - 127	6	30
Tetrachloroethene	20.0	19.3		ug/L		97	70 - 127	0	30
Toluene	20.0	17.8		ug/L		89	78 - 120	1	30
trans-1,2-Dichloroethene	20.0	18.9		ug/L		94	70 - 126	5	30
trans-1,3-Dichloropropene	20.0	19.3		ug/L		96	71 - 127	3	30
Trichloroethene	20.0	19.0		ug/L		95	73 - 121	0	30
Trichlorofluoromethane	20.0	19.0		ug/L		95	62 - 134	2	30
Vinyl chloride	20.0	17.7		ug/L		89	55 - 144	4	30
Xylenes, Total	40.0	34.4		ug/L		86	80 - 120	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 128
4-Bromofluorobenzene	94		76 - 120
Dibromofluoromethane (Surr)	96		77 - 132
Toluene-d8 (Surr)	92		80 - 120

Lab Sample ID: MB 460-1005690/9

Matrix: Water

Analysis Batch: 1005690

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			11/07/24 09:28	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/07/24 09:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/07/24 09:28	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/07/24 09:28	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/07/24 09:28	1

Eurofins Edison

QC Sample Results

Client: GHD Services Inc.
Project/Site: Racer Trust

Job ID: 460-314495-1

Method: 8260D - Volatile Organics (GC/MS) (Continued)

Lab Sample ID: MB 460-1005690/9

Matrix: Water

Analysis Batch: 1005690

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/07/24 09:28	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/07/24 09:28	1
1,2,4-Trimethylbenzene	0.37	U	1.0	0.37	ug/L			11/07/24 09:28	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/07/24 09:28	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/07/24 09:28	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/07/24 09:28	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			11/07/24 09:28	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/07/24 09:28	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/07/24 09:28	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/07/24 09:28	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			11/07/24 09:28	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/07/24 09:28	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			11/07/24 09:28	1
Acetone	4.4	U	5.0	4.4	ug/L			11/07/24 09:28	1
Benzene	0.20	U	1.0	0.20	ug/L			11/07/24 09:28	1
Bromoform	0.54	U	1.0	0.54	ug/L			11/07/24 09:28	1
Bromomethane	0.55	U	1.0	0.55	ug/L			11/07/24 09:28	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			11/07/24 09:28	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			11/07/24 09:28	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/07/24 09:28	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/07/24 09:28	1
Chloroform	0.33	U	1.0	0.33	ug/L			11/07/24 09:28	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/07/24 09:28	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			11/07/24 09:28	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/07/24 09:28	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			11/07/24 09:28	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			11/07/24 09:28	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			11/07/24 09:28	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/07/24 09:28	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			11/07/24 09:28	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			11/07/24 09:28	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/07/24 09:28	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/07/24 09:28	1
Methylcyclohexane	0.71	U	1.0	0.71	ug/L			11/07/24 09:28	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			11/07/24 09:28	1
Styrene	0.42	U	1.0	0.42	ug/L			11/07/24 09:28	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			11/07/24 09:28	1
Toluene	0.38	U	1.0	0.38	ug/L			11/07/24 09:28	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/07/24 09:28	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/07/24 09:28	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			11/07/24 09:28	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			11/07/24 09:28	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			11/07/24 09:28	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			11/07/24 09:28	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		11/07/24 09:28	1

Eurofins Edison

QC Sample Results

Client: GHD Services Inc.
Project/Site: Racer Trust

Job ID: 460-314495-1

Method: 8260D - Volatile Organics (GC/MS) (Continued)

Lab Sample ID: MB 460-1005690/9

Matrix: Water

Analysis Batch: 1005690

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 128		11/07/24 09:28	1
4-Bromofluorobenzene	99		76 - 120		11/07/24 09:28	1
Dibromofluoromethane (Surr)	103		77 - 132		11/07/24 09:28	1
Toluene-d8 (Surr)	101		80 - 120		11/07/24 09:28	1

Lab Sample ID: LCS 460-1005690/4

Matrix: Water

Analysis Batch: 1005690

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	18.7		ug/L		94	72 - 128
1,1,2,2-Tetrachloroethane	20.0	19.3		ug/L		97	63 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.4		ug/L		92	65 - 142
1,1,2-Trichloroethane	20.0	19.5		ug/L		97	74 - 125
1,1-Dichloroethane	20.0	19.0		ug/L		95	73 - 130
1,1-Dichloroethene	20.0	18.5		ug/L		93	68 - 133
1,2,4-Trichlorobenzene	20.0	19.2		ug/L		96	67 - 132
1,2,4-Trimethylbenzene	20.0	18.8		ug/L		94	75 - 125
1,2-Dibromo-3-Chloropropane	20.0	19.2		ug/L		96	58 - 132
1,2-Dibromoethane	20.0	18.4		ug/L		92	79 - 126
1,2-Dichlorobenzene	20.0	18.9		ug/L		95	80 - 120
1,2-Dichloroethane	20.0	19.6		ug/L		98	66 - 129
1,2-Dichloropropane	20.0	18.9		ug/L		94	72 - 128
1,3-Dichlorobenzene	20.0	19.1		ug/L		96	80 - 120
1,4-Dichlorobenzene	20.0	18.7		ug/L		93	80 - 120
2-Butanone (MEK)	100	96.6		ug/L		97	65 - 142
2-Hexanone	100	96.4		ug/L		96	72 - 134
4-Methyl-2-pentanone (MIBK)	100	97.3		ug/L		97	77 - 130
Acetone	100	91.6		ug/L		92	60 - 133
Benzene	20.0	18.7		ug/L		93	71 - 126
Bromoform	20.0	19.2		ug/L		96	58 - 128
Bromomethane	20.0	19.5		ug/L		97	33 - 150
Carbon disulfide	20.0	18.2		ug/L		91	35 - 150
Carbon tetrachloride	20.0	19.5		ug/L		98	65 - 131
Chlorobenzene	20.0	18.5		ug/L		93	80 - 120
Chloroethane	20.0	17.9		ug/L		89	54 - 150
Chloroform	20.0	19.7		ug/L		99	78 - 125
Chloromethane	20.0	17.5		ug/L		88	43 - 149
cis-1,2-Dichloroethene	20.0	19.2		ug/L		96	78 - 121
cis-1,3-Dichloropropene	20.0	19.5		ug/L		98	74 - 125
Cyclohexane	20.0	18.2		ug/L		91	64 - 142
Chlorodibromomethane	20.0	18.8		ug/L		94	73 - 121
Dichlorobromomethane	20.0	18.3		ug/L		92	76 - 121
Dichlorodifluoromethane	20.0	16.4		ug/L		82	38 - 144
Ethylbenzene	20.0	18.6		ug/L		93	78 - 120
Isopropylbenzene	20.0	18.7		ug/L		94	79 - 125
Methyl acetate	40.0	41.4		ug/L		104	50 - 147
Methyl tert-butyl ether	20.0	18.9		ug/L		94	72 - 131

Eurofins Edison

QC Sample Results

Client: GHD Services Inc.
Project/Site: Racer Trust

Job ID: 460-314495-1

Method: 8260D - Volatile Organics (GC/MS) (Continued)

Lab Sample ID: LCS 460-1005690/4

Matrix: Water

Analysis Batch: 1005690

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylcyclohexane	20.0	17.5		ug/L		87	63 - 138
Methylene Chloride	20.0	19.2		ug/L		96	74 - 127
Styrene	20.0	18.0		ug/L		90	82 - 127
Tetrachloroethene	20.0	18.2		ug/L		91	70 - 127
Toluene	20.0	18.9		ug/L		95	78 - 120
trans-1,2-Dichloroethene	20.0	18.6		ug/L		93	70 - 126
trans-1,3-Dichloropropene	20.0	18.8		ug/L		94	71 - 127
Trichloroethene	20.0	18.5		ug/L		92	73 - 121
Trichlorofluoromethane	20.0	16.1		ug/L		81	62 - 134
Vinyl chloride	20.0	17.6		ug/L		88	55 - 144
Xylenes, Total	40.0	38.3		ug/L		96	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 128
4-Bromofluorobenzene	101		76 - 120
Dibromofluoromethane (Surr)	103		77 - 132
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: LCSD 460-1005690/5

Matrix: Water

Analysis Batch: 1005690

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	20.1		ug/L		100	72 - 128	7	30
1,1,2,2-Tetrachloroethane	20.0	23.4		ug/L		117	63 - 139	19	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.5		ug/L		103	65 - 142	11	30
1,1,2-Trichloroethane	20.0	22.3		ug/L		111	74 - 125	13	30
1,1-Dichloroethane	20.0	21.0		ug/L		105	73 - 130	10	30
1,1-Dichloroethene	20.0	21.8		ug/L		109	68 - 133	16	30
1,2,4-Trichlorobenzene	20.0	23.0		ug/L		115	67 - 132	18	30
1,2,4-Trimethylbenzene	20.0	21.3		ug/L		106	75 - 125	12	30
1,2-Dibromo-3-Chloropropane	20.0	22.9		ug/L		115	58 - 132	18	30
1,2-Dibromoethane	20.0	22.0		ug/L		110	79 - 126	18	30
1,2-Dichlorobenzene	20.0	21.3		ug/L		106	80 - 120	12	30
1,2-Dichloroethane	20.0	21.5		ug/L		108	66 - 129	9	30
1,2-Dichloropropane	20.0	21.1		ug/L		105	72 - 128	11	30
1,3-Dichlorobenzene	20.0	22.0		ug/L		110	80 - 120	14	30
1,4-Dichlorobenzene	20.0	21.2		ug/L		106	80 - 120	13	30
2-Butanone (MEK)	100	107		ug/L		107	65 - 142	10	30
2-Hexanone	100	112		ug/L		112	72 - 134	15	30
4-Methyl-2-pentanone (MIBK)	100	113		ug/L		113	77 - 130	15	30
Acetone	100	103		ug/L		103	60 - 133	12	30
Benzene	20.0	21.0		ug/L		105	71 - 126	11	30
Bromoform	20.0	21.5		ug/L		108	58 - 128	11	30
Bromomethane	20.0	21.3		ug/L		107	33 - 150	9	30
Carbon disulfide	20.0	20.0		ug/L		100	35 - 150	9	30
Carbon tetrachloride	20.0	20.7		ug/L		104	65 - 131	6	30
Chlorobenzene	20.0	21.3		ug/L		106	80 - 120	14	30

Eurofins Edison

QC Sample Results

Client: GHD Services Inc.
Project/Site: Racer Trust

Job ID: 460-314495-1

Method: 8260D - Volatile Organics (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1005690/5

Matrix: Water

Analysis Batch: 1005690

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloroethane	20.0	19.1		ug/L		95	54 - 150	6	30
Chloroform	20.0	21.4		ug/L		107	78 - 125	8	30
Chloromethane	20.0	19.4		ug/L		97	43 - 149	10	30
cis-1,2-Dichloroethene	20.0	21.1		ug/L		105	78 - 121	9	30
cis-1,3-Dichloropropene	20.0	21.9		ug/L		110	74 - 125	12	30
Cyclohexane	20.0	20.7		ug/L		104	64 - 142	13	30
Chlorodibromomethane	20.0	21.7		ug/L		109	73 - 121	14	30
Dichlorobromomethane	20.0	20.9		ug/L		104	76 - 121	13	30
Dichlorodifluoromethane	20.0	18.3		ug/L		92	38 - 144	11	30
Ethylbenzene	20.0	21.2		ug/L		106	78 - 120	13	30
Isopropylbenzene	20.0	21.5		ug/L		107	79 - 125	14	30
Methyl acetate	40.0	44.4		ug/L		111	50 - 147	7	30
Methyl tert-butyl ether	20.0	22.3		ug/L		111	72 - 131	17	30
Methylcyclohexane	20.0	19.6		ug/L		98	63 - 138	12	30
Methylene Chloride	20.0	21.4		ug/L		107	74 - 127	11	30
Styrene	20.0	21.2		ug/L		106	82 - 127	16	30
Tetrachloroethene	20.0	20.6		ug/L		103	70 - 127	13	30
Toluene	20.0	21.2		ug/L		106	78 - 120	11	30
trans-1,2-Dichloroethene	20.0	21.2		ug/L		106	70 - 126	13	30
trans-1,3-Dichloropropene	20.0	21.9		ug/L		109	71 - 127	15	30
Trichloroethene	20.0	20.8		ug/L		104	73 - 121	12	30
Trichlorofluoromethane	20.0	18.8		ug/L		94	62 - 134	15	30
Vinyl chloride	20.0	19.8		ug/L		99	55 - 144	12	30
Xylenes, Total	40.0	41.7		ug/L		104	80 - 120	9	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 128
4-Bromofluorobenzene	99		76 - 120
Dibromofluoromethane (Surr)	98		77 - 132
Toluene-d8 (Surr)	98		80 - 120

QC Association Summary

Client: GHD Services Inc.
Project/Site: Racer Trust

Job ID: 460-314495-1

GC/MS VOA

Analysis Batch: 1005622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-314495-1	RB-11222397-103024-CT-01	Total/NA	Water	8260D	
460-314495-3	TB-11222397-103024-CT-03	Total/NA	Water	8260D	
460-314495-6	TB-11222397-103024-ES-06	Total/NA	Water	8260D	
MB 460-1005622/10	Method Blank	Total/NA	Water	8260D	
LCS 460-1005622/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-1005622/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 1005690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-314495-2	GW-11222397-103024-CT-02	Total/NA	Water	8260D	
460-314495-4	GW-11222397-103024-ES-04	Total/NA	Water	8260D	
460-314495-5	GW-11222397-103024-ES-05	Total/NA	Water	8260D	
MB 460-1005690/9	Method Blank	Total/NA	Water	8260D	
LCS 460-1005690/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-1005690/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Racer Trust

Job ID: 460-314495-1

Client Sample ID: RB-11222397-103024-CT-01

Lab Sample ID: 460-314495-1

Date Collected: 10/30/24 13:00

Matrix: Water

Date Received: 10/30/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	1005622	MZS	EET EDI	11/06/24 21:21

Client Sample ID: GW-11222397-103024-CT-02

Lab Sample ID: 460-314495-2

Date Collected: 10/30/24 14:30

Matrix: Water

Date Received: 10/30/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	1005690	CJM	EET EDI	11/07/24 15:25

Client Sample ID: TB-11222397-103024-CT-03

Lab Sample ID: 460-314495-3

Date Collected: 10/30/24 14:35

Matrix: Water

Date Received: 10/30/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	1005622	MZS	EET EDI	11/06/24 21:45

Client Sample ID: GW-11222397-103024-ES-04

Lab Sample ID: 460-314495-4

Date Collected: 10/30/24 14:00

Matrix: Water

Date Received: 10/30/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	1005690	CJM	EET EDI	11/07/24 14:59

Client Sample ID: GW-11222397-103024-ES-05

Lab Sample ID: 460-314495-5

Date Collected: 10/30/24 14:10

Matrix: Water

Date Received: 10/30/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	1005690	CJM	EET EDI	11/07/24 14:34

Client Sample ID: TB-11222397-103024-ES-06

Lab Sample ID: 460-314495-6

Date Collected: 10/30/24 14:15

Matrix: Water

Date Received: 10/30/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	1005622	MZS	EET EDI	11/06/24 22:10

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: Racer Trust

Job ID: 460-314495-1

Laboratory: Eurofins Edison

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

Authority	Program	Identification Number	Expiration Date
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-02-25

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

Analysis Method	Prep Method	Matrix	Analyte
8260D		Water	1,1,1-Trichloroethane
8260D		Water	1,1,2,2-Tetrachloroethane
8260D		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260D		Water	1,1,2-Trichloroethane
8260D		Water	1,1-Dichloroethane
8260D		Water	1,1-Dichloroethene
8260D		Water	1,2,4-Trichlorobenzene
8260D		Water	1,2,4-Trimethylbenzene
8260D		Water	1,2-Dibromo-3-Chloropropane
8260D		Water	1,2-Dibromoethane
8260D		Water	1,2-Dichlorobenzene
8260D		Water	1,2-Dichloroethane
8260D		Water	1,2-Dichloropropane
8260D		Water	1,3-Dichlorobenzene
8260D		Water	1,4-Dichlorobenzene
8260D		Water	2-Butanone (MEK)
8260D		Water	2-Hexanone
8260D		Water	4-Methyl-2-pentanone (MIBK)
8260D		Water	Acetone
8260D		Water	Benzene
8260D		Water	Bromoform
8260D		Water	Bromomethane
8260D		Water	Carbon disulfide
8260D		Water	Carbon tetrachloride
8260D		Water	Chlorobenzene
8260D		Water	Chlorodibromomethane
8260D		Water	Chloroethane
8260D		Water	Chloroform
8260D		Water	Chloromethane
8260D		Water	cis-1,2-Dichloroethene
8260D		Water	cis-1,3-Dichloropropene
8260D		Water	Cyclohexane
8260D		Water	Dichlorobromomethane
8260D		Water	Dichlorodifluoromethane
8260D		Water	Ethylbenzene
8260D		Water	Isopropylbenzene
8260D		Water	Methyl acetate
8260D		Water	Methyl tert-butyl ether
8260D		Water	Methylcyclohexane
8260D		Water	Methylene Chloride
8260D		Water	Styrene
8260D		Water	Tetrachloroethene
8260D		Water	Toluene
8260D		Water	trans-1,2-Dichloroethene
8260D		Water	trans-1,3-Dichloropropene

Eurofins Edison

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: Racer Trust

Job ID: 460-314495-1

Laboratory: Eurofins Edison (Continued)

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

Authority	Program	Identification Number	Expiration Date
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8260D		Water	Trichloroethene
8260D		Water	Trichlorofluoromethane
8260D		Water	Vinyl chloride
8260D		Water	Xylenes, Total

Method Summary

Client: GHD Services Inc.
Project/Site: Racer Trust

Job ID: 460-314495-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organics (GC/MS)	SW846	EET EDI
5030B	Purge and Trap	SW846	EET EDI

Protocol References:

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

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

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Sample Summary

Client: GHD Services Inc.
Project/Site: Racer Trust

Job ID: 460-314495-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-314495-1	RB-11222397-103024-CT-01	Water	10/30/24 13:00	10/30/24 19:00
460-314495-2	GW-11222397-103024-CT-02	Water	10/30/24 14:30	10/30/24 19:00
460-314495-3	TB-11222397-103024-CT-03	Water	10/30/24 14:35	10/30/24 19:00
460-314495-4	GW-11222397-103024-ES-04	Water	10/30/24 14:00	10/30/24 19:00
460-314495-5	GW-11222397-103024-ES-05	Water	10/30/24 14:10	10/30/24 19:00
460-314495-6	TB-11222397-103024-ES-06	Water	10/30/24 14:15	10/30/24 19:00

Job Number:

314495

Number of Coolers:

IR Gun #

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	35	34 °C	Cooler #4:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C
			Cooler #7:	°C	°C
			Cooler #8:	°C	°C
			Cooler #9:	°C	°C

[illegible]

If pH adjustments are required record the information below:

Sample No(s). adjusted:

Preservative Name/Conc.

Volume of Preservative used (ml).

Lot # of Preservative(s)

Expiration Date.

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

Initials:

Date.

EDS-WI-038, Rev 4, 06/09/2014

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 460-314495-1

Login Number: 314495

List Source: Eurofins Edison

List Number: 1

Creator: Thundathorn, Sukanan 1

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Samantha Sasnow
GHD Services Inc.
410 Eagleview Boulevard
Suite 110
Exton, Pennsylvania 19341

Generated 11/11/2024 11:59:35 AM

JOB DESCRIPTION

RACER Trust

JOB NUMBER

460-314572-1

Eurofins Edison

Job Notes

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

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

Authorization



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Authorized for release by
Elizabeth Flannery, Project Manager I
Elizabeth.Flannery@et.eurofinsus.com
(732)549-3900



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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: GHD Services Inc.
Project: RACER Trust

Job ID: 460-314572-1

Job ID: 460-314572-1

Eurofins Edison

CASE NARRATIVE

Client: GHD Services Inc.

Project: RACER Trust

Report Number: 460-314572-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

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

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

RECEIPT

The samples were received on 10/31/2024 7:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples GW-11222397-103024-ES-07 (460-314572-1), GW-11222397-103124-ES-08 (460-314572-2), GW-11222397-103124-ES-10 (460-314572-4), GW-11222397-103124-CT-12 (460-314572-6) and TB-11222397-103124-ES-13 (460-314572-7) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260DEL. The samples were analyzed on 11/06/2024 and 11/07/2024.

The continuing calibration verification (CCV) associated with batch 460-1005690 recovered above the upper control limit for 2-Butanone (MEK). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: GW-11222397-103124-CT-12 (460-314572-6) and (CCVIS 460-1005690/3).

Sample GW-11222397-103124-CT-12 (460-314572-6)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples GW-11222397-103124-ES-08 (460-314572-2), GW-11222397-103124-ES-09 (460-314572-3), GW-11222397-103124-ES-10 (460-314572-4), RB-11222397-103124-CT-11 (460-314572-5) and GW-11222397-103124-CT-12 (460-314572-6) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270DEL. The samples were prepared and analyzed on 11/02/2024.

The continuing calibration verification (CCV) analyzed in batch 460-1004975 was outside the method criteria for the following analyte(s): 2,4-Dinitrophenol and Benzaldehyde. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Eurofins Edison

Case Narrative

Client: GHD Services Inc.
Project: RACER Trust

Job ID: 460-314572-1

Job ID: 460-314572-1 (Continued)

Eurofins Edison

The capping continuing calibration verification (CCV) analyzed in batch 460-1004975. was outside the method criteria for the following analyte(s): Benzaldehyde. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

Eurofins Edison

Detection Summary

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Client Sample ID: GW-11222397-103024-ES-07

Lab Sample ID: 460-314572-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.67	J	1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	0.35	J	1.0	0.31	ug/L	1		8260D	Total/NA
Trichlorofluoromethane	2.9		1.0	0.32	ug/L	1		8260D	Total/NA

Client Sample ID: GW-11222397-103124-ES-08

Lab Sample ID: 460-314572-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	67		1.0	0.37	ug/L	1		8260D	Total/NA
Benzene	130		1.0	0.20	ug/L	1		8260D	Total/NA
Cyclohexane	85		1.0	0.32	ug/L	1		8260D	Total/NA
Ethylbenzene	190		1.0	0.30	ug/L	1		8260D	Total/NA
Isopropylbenzene	5.6		1.0	0.34	ug/L	1		8260D	Total/NA
Methylcyclohexane	24		1.0	0.71	ug/L	1		8260D	Total/NA
Toluene	16		1.0	0.38	ug/L	1		8260D	Total/NA
Xylenes, Total	150		2.0	0.65	ug/L	1		8260D	Total/NA
2-Methylnaphthalene	3.4	J	10	0.53	ug/L	1		8270C	Total/NA
Naphthalene	10		2.0	0.54	ug/L	1		8270C	Total/NA

Client Sample ID: GW-11222397-103124-ES-09

Lab Sample ID: 460-314572-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	4.2	J	10	0.53	ug/L	1		8270C	Total/NA
Naphthalene	13		2.0	0.54	ug/L	1		8270C	Total/NA

Client Sample ID: GW-11222397-103124-ES-10

Lab Sample ID: 460-314572-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	370		1.0	0.37	ug/L	1		8260D	Total/NA
Cyclohexane	190		1.0	0.32	ug/L	1		8260D	Total/NA
Ethylbenzene	110		1.0	0.30	ug/L	1		8260D	Total/NA
Isopropylbenzene	27		1.0	0.34	ug/L	1		8260D	Total/NA
Methylcyclohexane	95		1.0	0.71	ug/L	1		8260D	Total/NA
Xylenes, Total	650		2.0	0.65	ug/L	1		8260D	Total/NA
2-Methylnaphthalene	8.0	J	10	0.53	ug/L	1		8270C	Total/NA
Acetophenone	7.7	J	10	2.3	ug/L	1		8270C	Total/NA
Naphthalene	35		2.0	0.54	ug/L	1		8270C	Total/NA

Client Sample ID: RB-11222397-103124-CT-11

Lab Sample ID: 460-314572-5

No Detections.

Client Sample ID: GW-11222397-103124-CT-12

Lab Sample ID: 460-314572-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	11		5.0	1.9	ug/L	5		8260D	Total/NA
1,2-Dichloroethane	14		5.0	2.2	ug/L	5		8260D	Total/NA
2-Butanone (MEK)	15	J	25	9.3	ug/L	5		8260D	Total/NA
Acetone	45		25	22	ug/L	5		8260D	Total/NA
Benzene	880		5.0	1.0	ug/L	5		8260D	Total/NA
Cyclohexane	260		5.0	1.6	ug/L	5		8260D	Total/NA
Ethylbenzene	530		5.0	1.5	ug/L	5		8260D	Total/NA
Isopropylbenzene	37		5.0	1.7	ug/L	5		8260D	Total/NA
Methylcyclohexane	93		5.0	3.5	ug/L	5		8260D	Total/NA
Toluene	190		5.0	1.9	ug/L	5		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Detection Summary

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Client Sample ID: GW-11222397-103124-CT-12 (Continued)

Lab Sample ID: 460-314572-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	210		10	3.3	ug/L	5		8260D	Total/NA
2-Methylnaphthalene	2.2	J	10	0.53	ug/L	1		8270C	Total/NA
2-Methylphenol	0.74	J	10	0.67	ug/L	1		8270C	Total/NA
Acetophenone	11		10	2.3	ug/L	1		8270C	Total/NA
Naphthalene	48		2.0	0.54	ug/L	1		8270C	Total/NA
N-Nitrosodi-n-propylamine	1.2		1.0	0.43	ug/L	1		8270C	Total/NA
Phenol	2.6	J	10	0.29	ug/L	1		8270C	Total/NA

Client Sample ID: TB-11222397-103124-ES-13

Lab Sample ID: 460-314572-7

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Client Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Client Sample ID: GW-11222397-103024-ES-07

Lab Sample ID: 460-314572-1

Date Collected: 10/31/24 16:35

Matrix: Water

Date Received: 10/31/24 19:00

Method: SW846 8260D - Volatile Organics (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			11/07/24 14:08	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/07/24 14:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/07/24 14:08	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/07/24 14:08	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/07/24 14:08	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/07/24 14:08	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/07/24 14:08	1
1,2,4-Trimethylbenzene	0.37	U	1.0	0.37	ug/L			11/07/24 14:08	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/07/24 14:08	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/07/24 14:08	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/07/24 14:08	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			11/07/24 14:08	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/07/24 14:08	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/07/24 14:08	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/07/24 14:08	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			11/07/24 14:08	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/07/24 14:08	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			11/07/24 14:08	1
Acetone	4.4	U	5.0	4.4	ug/L			11/07/24 14:08	1
Benzene	0.20	U	1.0	0.20	ug/L			11/07/24 14:08	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			11/07/24 14:08	1
Bromoform	0.54	U	1.0	0.54	ug/L			11/07/24 14:08	1
Bromomethane	0.55	U	1.0	0.55	ug/L			11/07/24 14:08	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			11/07/24 14:08	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			11/07/24 14:08	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/07/24 14:08	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/07/24 14:08	1
Chloroform	0.33	U	1.0	0.33	ug/L			11/07/24 14:08	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/07/24 14:08	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			11/07/24 14:08	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/07/24 14:08	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			11/07/24 14:08	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			11/07/24 14:08	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/07/24 14:08	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			11/07/24 14:08	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			11/07/24 14:08	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/07/24 14:08	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/07/24 14:08	1
Methylcyclohexane	0.71	U	1.0	0.71	ug/L			11/07/24 14:08	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			11/07/24 14:08	1
Styrene	0.42	U	1.0	0.42	ug/L			11/07/24 14:08	1
Tetrachloroethene	0.67	J	1.0	0.25	ug/L			11/07/24 14:08	1
Toluene	0.38	U	1.0	0.38	ug/L			11/07/24 14:08	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/07/24 14:08	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/07/24 14:08	1
Trichloroethene	0.35	J	1.0	0.31	ug/L			11/07/24 14:08	1
Trichlorofluoromethane	2.9		1.0	0.32	ug/L			11/07/24 14:08	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			11/07/24 14:08	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			11/07/24 14:08	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Client Sample ID: GW-11222397-103024-ES-07

Lab Sample ID: 460-314572-1

Date Collected: 10/31/24 16:35

Matrix: Water

Date Received: 10/31/24 19:00

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	62	J	ug/L		2.66	N/A		11/07/24 14:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 128					11/07/24 14:08	1
4-Bromofluorobenzene	94		76 - 120					11/07/24 14:08	1
Dibromofluoromethane (Surr)	104		77 - 132					11/07/24 14:08	1
Toluene-d8 (Surr)	99		80 - 120					11/07/24 14:08	1

Client Sample ID: GW-11222397-103124-ES-08

Lab Sample ID: 460-314572-2

Date Collected: 10/31/24 10:40

Matrix: Water

Date Received: 10/31/24 19:00

Method: SW846 8260D - Volatile Organics (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			11/07/24 01:47	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/07/24 01:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/07/24 01:47	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/07/24 01:47	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/07/24 01:47	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/07/24 01:47	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/07/24 01:47	1
1,2,4-Trimethylbenzene	67		1.0	0.37	ug/L			11/07/24 01:47	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/07/24 01:47	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/07/24 01:47	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/07/24 01:47	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			11/07/24 01:47	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/07/24 01:47	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/07/24 01:47	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/07/24 01:47	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			11/07/24 01:47	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/07/24 01:47	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			11/07/24 01:47	1
Acetone	4.4	U	5.0	4.4	ug/L			11/07/24 01:47	1
Benzene	130		1.0	0.20	ug/L			11/07/24 01:47	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			11/07/24 01:47	1
Bromoform	0.54	U	1.0	0.54	ug/L			11/07/24 01:47	1
Bromomethane	0.55	U	1.0	0.55	ug/L			11/07/24 01:47	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			11/07/24 01:47	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			11/07/24 01:47	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/07/24 01:47	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/07/24 01:47	1
Chloroform	0.33	U	1.0	0.33	ug/L			11/07/24 01:47	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/07/24 01:47	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			11/07/24 01:47	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/07/24 01:47	1
Cyclohexane	85		1.0	0.32	ug/L			11/07/24 01:47	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			11/07/24 01:47	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/07/24 01:47	1
Ethylbenzene	190		1.0	0.30	ug/L			11/07/24 01:47	1
Isopropylbenzene	5.6		1.0	0.34	ug/L			11/07/24 01:47	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/07/24 01:47	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Client Sample ID: GW-11222397-103124-ES-08

Lab Sample ID: 460-314572-2

Date Collected: 10/31/24 10:40

Matrix: Water

Date Received: 10/31/24 19:00

Method: SW846 8260D - Volatile Organics (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/07/24 01:47	1
Methylcyclohexane	24		1.0	0.71	ug/L			11/07/24 01:47	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			11/07/24 01:47	1
Styrene	0.42	U	1.0	0.42	ug/L			11/07/24 01:47	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			11/07/24 01:47	1
Toluene	16		1.0	0.38	ug/L			11/07/24 01:47	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/07/24 01:47	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/07/24 01:47	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			11/07/24 01:47	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			11/07/24 01:47	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			11/07/24 01:47	1
Xylenes, Total	150		2.0	0.65	ug/L			11/07/24 01:47	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	500	J	ug/L		1.26	N/A		11/07/24 01:47	1
Unknown alkane	120	J	ug/L		1.40	N/A		11/07/24 01:47	1
Butane, 2-methyl-	370	J N	ug/L		1.48	78-78-4		11/07/24 01:47	1
Pentane	140	J N	ug/L		1.53	109-66-0		11/07/24 01:47	1
Unknown	140	J	ug/L		1.59	N/A		11/07/24 01:47	1
Cyclopropane, 1,2-dimethyl-, cis-	340	J N	ug/L		1.69	930-18-7		11/07/24 01:47	1
2-Pentene, 4-methyl-, (Z)-	99	J N	ug/L		2.46	691-38-3		11/07/24 01:47	1
2-Pentene, 3-methyl-, (E)-	120	J N	ug/L		2.62	616-12-6		11/07/24 01:47	1
Cyclopentene, 1-methyl-	54	J N	ug/L		3.07	693-89-0		11/07/24 01:47	1
Benzene, 1-ethyl-3-methyl-	49	J N	ug/L		9.47	620-14-4		11/07/24 01:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 128		11/07/24 01:47	1
4-Bromofluorobenzene	104		76 - 120		11/07/24 01:47	1
Dibromofluoromethane (Surr)	105		77 - 132		11/07/24 01:47	1
Toluene-d8 (Surr)	102		80 - 120		11/07/24 01:47	1

Method: SW846 8270C - Semivolatile Organics (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	1.2	U	10	1.2	ug/L		11/02/24 10:42	11/02/24 17:42	1
2,2'-oxybis[1-chloropropane]	0.63	U	10	0.63	ug/L		11/02/24 10:42	11/02/24 17:42	1
2,4,5-Trichlorophenol	0.88	U	10	0.88	ug/L		11/02/24 10:42	11/02/24 17:42	1
2,4,6-Trichlorophenol	0.86	U	10	0.86	ug/L		11/02/24 10:42	11/02/24 17:42	1
2,4-Dichlorophenol	1.1	U	10	1.1	ug/L		11/02/24 10:42	11/02/24 17:42	1
2,4-Dimethylphenol	0.62	U	10	0.62	ug/L		11/02/24 10:42	11/02/24 17:42	1
2,4-Dinitrophenol	2.6	U	40	2.6	ug/L		11/02/24 10:42	11/02/24 17:42	1
2,4-Dinitrotoluene	1.0	U	10	1.0	ug/L		11/02/24 10:42	11/02/24 17:42	1
2,6-Dinitrotoluene	0.83	U	2.0	0.83	ug/L		11/02/24 10:42	11/02/24 17:42	1
2-Chloronaphthalene	1.2	U	10	1.2	ug/L		11/02/24 10:42	11/02/24 17:42	1
2-Chlorophenol	0.38	U	10	0.38	ug/L		11/02/24 10:42	11/02/24 17:42	1
2-Methylnaphthalene	3.4	J	10	0.53	ug/L		11/02/24 10:42	11/02/24 17:42	1
2-Methylphenol	0.67	U	10	0.67	ug/L		11/02/24 10:42	11/02/24 17:42	1
2-Nitroaniline	0.47	U	10	0.47	ug/L		11/02/24 10:42	11/02/24 17:42	1
2-Nitrophenol	0.75	U	10	0.75	ug/L		11/02/24 10:42	11/02/24 17:42	1
3,3'-Dichlorobenzidine	1.4	U	10	1.4	ug/L		11/02/24 10:42	11/02/24 17:42	1
3-Nitroaniline	1.9	U	10	1.9	ug/L		11/02/24 10:42	11/02/24 17:42	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Client Sample ID: GW-11222397-103124-ES-08

Lab Sample ID: 460-314572-2

Date Collected: 10/31/24 10:40

Matrix: Water

Date Received: 10/31/24 19:00

Method: SW846 8270C - Semivolatile Organics (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	3.0	U	20	3.0	ug/L		11/02/24 10:42	11/02/24 17:42	1
4-Bromophenyl phenyl ether	0.75	U	10	0.75	ug/L		11/02/24 10:42	11/02/24 17:42	1
4-Chloro-3-methylphenol	0.58	U	10	0.58	ug/L		11/02/24 10:42	11/02/24 17:42	1
4-Chlorophenyl phenyl ether	1.3	U	10	1.3	ug/L		11/02/24 10:42	11/02/24 17:42	1
4-Methylphenol	0.65	U	10	0.65	ug/L		11/02/24 10:42	11/02/24 17:42	1
4-Nitroaniline	1.2	U	10	1.2	ug/L		11/02/24 10:42	11/02/24 17:42	1
4-Nitrophenol	4.0	U	20	4.0	ug/L		11/02/24 10:42	11/02/24 17:42	1
Acenaphthene	1.1	U	10	1.1	ug/L		11/02/24 10:42	11/02/24 17:42	1
Acenaphthylene	0.82	U	10	0.82	ug/L		11/02/24 10:42	11/02/24 17:42	1
Acetophenone	2.3	U	10	2.3	ug/L		11/02/24 10:42	11/02/24 17:42	1
Anthracene	1.3	U	10	1.3	ug/L		11/02/24 10:42	11/02/24 17:42	1
Atrazine	1.3	U	2.0	1.3	ug/L		11/02/24 10:42	11/02/24 17:42	1
Benzaldehyde	2.1	U	10	2.1	ug/L		11/02/24 10:42	11/02/24 17:42	1
Benzo[a]anthracene	0.59	U	1.0	0.59	ug/L		11/02/24 10:42	11/02/24 17:42	1
Benzo[a]pyrene	0.41	U	1.0	0.41	ug/L		11/02/24 10:42	11/02/24 17:42	1
Benzo[b]fluoranthene	0.68	U	2.0	0.68	ug/L		11/02/24 10:42	11/02/24 17:42	1
Benzo[g,h,i]perylene	0.70	U	10	0.70	ug/L		11/02/24 10:42	11/02/24 17:42	1
Benzo[k]fluoranthene	0.67	U	1.0	0.67	ug/L		11/02/24 10:42	11/02/24 17:42	1
Bis(2-chloroethoxy)methane	0.59	U	10	0.59	ug/L		11/02/24 10:42	11/02/24 17:42	1
Bis(2-chloroethyl)ether	0.63	U	1.0	0.63	ug/L		11/02/24 10:42	11/02/24 17:42	1
Bis(2-ethylhexyl) phthalate	0.80	U	2.0	0.80	ug/L		11/02/24 10:42	11/02/24 17:42	1
Butyl benzyl phthalate	0.85	U	10	0.85	ug/L		11/02/24 10:42	11/02/24 17:42	1
Caprolactam	2.2	U	10	2.2	ug/L		11/02/24 10:42	11/02/24 17:42	1
Carbazole	0.68	U	10	0.68	ug/L		11/02/24 10:42	11/02/24 17:42	1
Chrysene	0.91	U	2.0	0.91	ug/L		11/02/24 10:42	11/02/24 17:42	1
Dibenz(a,h)anthracene	0.72	U	1.0	0.72	ug/L		11/02/24 10:42	11/02/24 17:42	1
Dibenzofuran	1.1	U	10	1.1	ug/L		11/02/24 10:42	11/02/24 17:42	1
Diethyl phthalate	0.98	U	10	0.98	ug/L		11/02/24 10:42	11/02/24 17:42	1
Dimethyl phthalate	0.77	U	10	0.77	ug/L		11/02/24 10:42	11/02/24 17:42	1
Di-n-butyl phthalate	0.84	U	10	0.84	ug/L		11/02/24 10:42	11/02/24 17:42	1
Di-n-octyl phthalate	0.75	U	10	0.75	ug/L		11/02/24 10:42	11/02/24 17:42	1
Fluoranthene	0.84	U	10	0.84	ug/L		11/02/24 10:42	11/02/24 17:42	1
Fluorene	0.91	U	10	0.91	ug/L		11/02/24 10:42	11/02/24 17:42	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		11/02/24 10:42	11/02/24 17:42	1
Hexachlorobutadiene	0.78	U	1.0	0.78	ug/L		11/02/24 10:42	11/02/24 17:42	1
Hexachlorocyclopentadiene	3.6	U	10	3.6	ug/L		11/02/24 10:42	11/02/24 17:42	1
Hexachloroethane	0.80	U	2.0	0.80	ug/L		11/02/24 10:42	11/02/24 17:42	1
Indeno[1,2,3-cd]pyrene	0.94	U	2.0	0.94	ug/L		11/02/24 10:42	11/02/24 17:42	1
Isophorone	0.80	U	10	0.80	ug/L		11/02/24 10:42	11/02/24 17:42	1
Naphthalene	10		2.0	0.54	ug/L		11/02/24 10:42	11/02/24 17:42	1
Nitrobenzene	0.57	U	1.0	0.57	ug/L		11/02/24 10:42	11/02/24 17:42	1
N-Nitrosodi-n-propylamine	0.43	U	1.0	0.43	ug/L		11/02/24 10:42	11/02/24 17:42	1
N-Nitrosodiphenylamine	0.89	U	10	0.89	ug/L		11/02/24 10:42	11/02/24 17:42	1
Pentachlorophenol	1.4	U	20	1.4	ug/L		11/02/24 10:42	11/02/24 17:42	1
Phenanthrene	1.3	U	10	1.3	ug/L		11/02/24 10:42	11/02/24 17:42	1
Phenol	0.29	U	10	0.29	ug/L		11/02/24 10:42	11/02/24 17:42	1
Pyrene	1.6	U	10	1.6	ug/L		11/02/24 10:42	11/02/24 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	93		37 - 150	11/02/24 10:42	11/02/24 17:42	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Client Sample ID: GW-11222397-103124-ES-08

Lab Sample ID: 460-314572-2

Date Collected: 10/31/24 10:40

Matrix: Water

Date Received: 10/31/24 19:00

Method: SW846 8270C - Semivolatile Organics (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		46 - 139	11/02/24 10:42	11/02/24 17:42	1
2-Fluorophenol (Surr)	48		16 - 80	11/02/24 10:42	11/02/24 17:42	1
Nitrobenzene-d5 (Surr)	78		51 - 145	11/02/24 10:42	11/02/24 17:42	1
Phenol-d5 (Surr)	35		10 - 56	11/02/24 10:42	11/02/24 17:42	1
Terphenyl-d14 (Surr)	25		13 - 159	11/02/24 10:42	11/02/24 17:42	1

Client Sample ID: GW-11222397-103124-ES-09

Lab Sample ID: 460-314572-3

Date Collected: 10/31/24 10:50

Matrix: Water

Date Received: 10/31/24 19:00

Method: SW846 8270C - Semivolatile Organics (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	1.2	U	10	1.2	ug/L		11/02/24 10:42	11/02/24 18:03	1
2,2'-oxybis[1-chloropropane]	0.63	U	10	0.63	ug/L		11/02/24 10:42	11/02/24 18:03	1
2,4,5-Trichlorophenol	0.88	U	10	0.88	ug/L		11/02/24 10:42	11/02/24 18:03	1
2,4,6-Trichlorophenol	0.86	U	10	0.86	ug/L		11/02/24 10:42	11/02/24 18:03	1
2,4-Dichlorophenol	1.1	U	10	1.1	ug/L		11/02/24 10:42	11/02/24 18:03	1
2,4-Dimethylphenol	0.62	U	10	0.62	ug/L		11/02/24 10:42	11/02/24 18:03	1
2,4-Dinitrophenol	2.6	U	40	2.6	ug/L		11/02/24 10:42	11/02/24 18:03	1
2,4-Dinitrotoluene	1.0	U	10	1.0	ug/L		11/02/24 10:42	11/02/24 18:03	1
2,6-Dinitrotoluene	0.83	U	2.0	0.83	ug/L		11/02/24 10:42	11/02/24 18:03	1
2-Chloronaphthalene	1.2	U	10	1.2	ug/L		11/02/24 10:42	11/02/24 18:03	1
2-Chlorophenol	0.38	U	10	0.38	ug/L		11/02/24 10:42	11/02/24 18:03	1
2-Methylnaphthalene	4.2	J	10	0.53	ug/L		11/02/24 10:42	11/02/24 18:03	1
2-Methylphenol	0.67	U	10	0.67	ug/L		11/02/24 10:42	11/02/24 18:03	1
2-Nitroaniline	0.47	U	10	0.47	ug/L		11/02/24 10:42	11/02/24 18:03	1
2-Nitrophenol	0.75	U	10	0.75	ug/L		11/02/24 10:42	11/02/24 18:03	1
3,3'-Dichlorobenzidine	1.4	U	10	1.4	ug/L		11/02/24 10:42	11/02/24 18:03	1
3-Nitroaniline	1.9	U	10	1.9	ug/L		11/02/24 10:42	11/02/24 18:03	1
4,6-Dinitro-2-methylphenol	3.0	U	20	3.0	ug/L		11/02/24 10:42	11/02/24 18:03	1
4-Bromophenyl phenyl ether	0.75	U	10	0.75	ug/L		11/02/24 10:42	11/02/24 18:03	1
4-Chloro-3-methylphenol	0.58	U	10	0.58	ug/L		11/02/24 10:42	11/02/24 18:03	1
4-Chlorophenyl phenyl ether	1.3	U	10	1.3	ug/L		11/02/24 10:42	11/02/24 18:03	1
4-Methylphenol	0.65	U	10	0.65	ug/L		11/02/24 10:42	11/02/24 18:03	1
4-Nitroaniline	1.2	U	10	1.2	ug/L		11/02/24 10:42	11/02/24 18:03	1
4-Nitrophenol	4.0	U	20	4.0	ug/L		11/02/24 10:42	11/02/24 18:03	1
Acenaphthene	1.1	U	10	1.1	ug/L		11/02/24 10:42	11/02/24 18:03	1
Acenaphthylene	0.82	U	10	0.82	ug/L		11/02/24 10:42	11/02/24 18:03	1
Acetophenone	2.3	U	10	2.3	ug/L		11/02/24 10:42	11/02/24 18:03	1
Anthracene	1.3	U	10	1.3	ug/L		11/02/24 10:42	11/02/24 18:03	1
Atrazine	1.3	U	2.0	1.3	ug/L		11/02/24 10:42	11/02/24 18:03	1
Benzaldehyde	2.1	U	10	2.1	ug/L		11/02/24 10:42	11/02/24 18:03	1
Benzo[a]anthracene	0.59	U	1.0	0.59	ug/L		11/02/24 10:42	11/02/24 18:03	1
Benzo[a]pyrene	0.41	U	1.0	0.41	ug/L		11/02/24 10:42	11/02/24 18:03	1
Benzo[b]fluoranthene	0.68	U	2.0	0.68	ug/L		11/02/24 10:42	11/02/24 18:03	1
Benzo[g,h,i]perylene	0.70	U	10	0.70	ug/L		11/02/24 10:42	11/02/24 18:03	1
Benzo[k]fluoranthene	0.67	U	1.0	0.67	ug/L		11/02/24 10:42	11/02/24 18:03	1
Bis(2-chloroethoxy)methane	0.59	U	10	0.59	ug/L		11/02/24 10:42	11/02/24 18:03	1
Bis(2-chloroethyl)ether	0.63	U	1.0	0.63	ug/L		11/02/24 10:42	11/02/24 18:03	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Client Sample ID: GW-11222397-103124-ES-09

Lab Sample ID: 460-314572-3

Date Collected: 10/31/24 10:50

Matrix: Water

Date Received: 10/31/24 19:00

Method: SW846 8270C - Semivolatile Organics (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	0.80	U	2.0	0.80	ug/L		11/02/24 10:42	11/02/24 18:03	1
Butyl benzyl phthalate	0.85	U	10	0.85	ug/L		11/02/24 10:42	11/02/24 18:03	1
Caprolactam	2.2	U	10	2.2	ug/L		11/02/24 10:42	11/02/24 18:03	1
Carbazole	0.68	U	10	0.68	ug/L		11/02/24 10:42	11/02/24 18:03	1
Chrysene	0.91	U	2.0	0.91	ug/L		11/02/24 10:42	11/02/24 18:03	1
Dibenz(a,h)anthracene	0.72	U	1.0	0.72	ug/L		11/02/24 10:42	11/02/24 18:03	1
Dibenzofuran	1.1	U	10	1.1	ug/L		11/02/24 10:42	11/02/24 18:03	1
Diethyl phthalate	0.98	U	10	0.98	ug/L		11/02/24 10:42	11/02/24 18:03	1
Dimethyl phthalate	0.77	U	10	0.77	ug/L		11/02/24 10:42	11/02/24 18:03	1
Di-n-butyl phthalate	0.84	U	10	0.84	ug/L		11/02/24 10:42	11/02/24 18:03	1
Di-n-octyl phthalate	0.75	U	10	0.75	ug/L		11/02/24 10:42	11/02/24 18:03	1
Fluoranthene	0.84	U	10	0.84	ug/L		11/02/24 10:42	11/02/24 18:03	1
Fluorene	0.91	U	10	0.91	ug/L		11/02/24 10:42	11/02/24 18:03	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		11/02/24 10:42	11/02/24 18:03	1
Hexachlorobutadiene	0.78	U	1.0	0.78	ug/L		11/02/24 10:42	11/02/24 18:03	1
Hexachlorocyclopentadiene	3.6	U	10	3.6	ug/L		11/02/24 10:42	11/02/24 18:03	1
Hexachloroethane	0.80	U	2.0	0.80	ug/L		11/02/24 10:42	11/02/24 18:03	1
Indeno[1,2,3-cd]pyrene	0.94	U	2.0	0.94	ug/L		11/02/24 10:42	11/02/24 18:03	1
Isophorone	0.80	U	10	0.80	ug/L		11/02/24 10:42	11/02/24 18:03	1
Naphthalene	13		2.0	0.54	ug/L		11/02/24 10:42	11/02/24 18:03	1
Nitrobenzene	0.57	U	1.0	0.57	ug/L		11/02/24 10:42	11/02/24 18:03	1
N-Nitrosodi-n-propylamine	0.43	U	1.0	0.43	ug/L		11/02/24 10:42	11/02/24 18:03	1
N-Nitrosodiphenylamine	0.89	U	10	0.89	ug/L		11/02/24 10:42	11/02/24 18:03	1
Pentachlorophenol	1.4	U	20	1.4	ug/L		11/02/24 10:42	11/02/24 18:03	1
Phenanthrene	1.3	U	10	1.3	ug/L		11/02/24 10:42	11/02/24 18:03	1
Phenol	0.29	U	10	0.29	ug/L		11/02/24 10:42	11/02/24 18:03	1
Pyrene	1.6	U	10	1.6	ug/L		11/02/24 10:42	11/02/24 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	97		37 - 150	11/02/24 10:42	11/02/24 18:03	1
2-Fluorobiphenyl	78		46 - 139	11/02/24 10:42	11/02/24 18:03	1
2-Fluorophenol (Surr)	48		16 - 80	11/02/24 10:42	11/02/24 18:03	1
Nitrobenzene-d5 (Surr)	80		51 - 145	11/02/24 10:42	11/02/24 18:03	1
Phenol-d5 (Surr)	35		10 - 56	11/02/24 10:42	11/02/24 18:03	1
Terphenyl-d14 (Surr)	27		13 - 159	11/02/24 10:42	11/02/24 18:03	1

Client Sample ID: GW-11222397-103124-ES-10

Lab Sample ID: 460-314572-4

Date Collected: 10/31/24 13:55

Matrix: Water

Date Received: 10/31/24 19:00

Method: SW846 8260D - Volatile Organics (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			11/07/24 02:10	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/07/24 02:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/07/24 02:10	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/07/24 02:10	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/07/24 02:10	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/07/24 02:10	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/07/24 02:10	1
1,2,4-Trimethylbenzene	370		1.0	0.37	ug/L			11/07/24 02:10	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Client Sample ID: GW-11222397-103124-ES-10

Lab Sample ID: 460-314572-4

Date Collected: 10/31/24 13:55

Matrix: Water

Date Received: 10/31/24 19:00

Method: SW846 8260D - Volatile Organics (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/07/24 02:10	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/07/24 02:10	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/07/24 02:10	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			11/07/24 02:10	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/07/24 02:10	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/07/24 02:10	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/07/24 02:10	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			11/07/24 02:10	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/07/24 02:10	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			11/07/24 02:10	1
Acetone	4.4	U	5.0	4.4	ug/L			11/07/24 02:10	1
Benzene	0.20	U	1.0	0.20	ug/L			11/07/24 02:10	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			11/07/24 02:10	1
Bromoform	0.54	U	1.0	0.54	ug/L			11/07/24 02:10	1
Bromomethane	0.55	U	1.0	0.55	ug/L			11/07/24 02:10	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			11/07/24 02:10	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			11/07/24 02:10	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/07/24 02:10	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/07/24 02:10	1
Chloroform	0.33	U	1.0	0.33	ug/L			11/07/24 02:10	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/07/24 02:10	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			11/07/24 02:10	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/07/24 02:10	1
Cyclohexane	190		1.0	0.32	ug/L			11/07/24 02:10	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			11/07/24 02:10	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/07/24 02:10	1
Ethylbenzene	110		1.0	0.30	ug/L			11/07/24 02:10	1
Isopropylbenzene	27		1.0	0.34	ug/L			11/07/24 02:10	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/07/24 02:10	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/07/24 02:10	1
Methylcyclohexane	95		1.0	0.71	ug/L			11/07/24 02:10	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			11/07/24 02:10	1
Styrene	0.42	U	1.0	0.42	ug/L			11/07/24 02:10	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			11/07/24 02:10	1
Toluene	0.38	U	1.0	0.38	ug/L			11/07/24 02:10	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/07/24 02:10	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/07/24 02:10	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			11/07/24 02:10	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			11/07/24 02:10	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			11/07/24 02:10	1
Xylenes, Total	650		2.0	0.65	ug/L			11/07/24 02:10	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	270	J	ug/L		1.26	N/A		11/07/24 02:10	1
Unknown alkane	200	J	ug/L		1.41	N/A		11/07/24 02:10	1
Butane, 2-methyl-	490	J N	ug/L		1.47	78-78-4		11/07/24 02:10	1
Pentane	410	J N	ug/L		1.53	109-66-0		11/07/24 02:10	1
Pentane, 3-methylene-	73	J N	ug/L		2.43	760-21-4		11/07/24 02:10	1
Benzene, 1-ethyl-3-methyl-	240	J N	ug/L		9.47	620-14-4		11/07/24 02:10	1
Benzene, 1,3,5-trimethyl-	110	J N	ug/L		9.62	108-67-8		11/07/24 02:10	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Client Sample ID: GW-11222397-103124-ES-10

Lab Sample ID: 460-314572-4

Date Collected: 10/31/24 13:55

Matrix: Water

Date Received: 10/31/24 19:00

Method: SW846 8260D - Volatile Organics (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Benzene, 1-ethyl-2-methyl-	97	J N	ug/L		9.92	611-14-3		11/07/24 02:10	1
Indane	72	J N	ug/L		10.88	496-11-7		11/07/24 02:10	1
Benzene, 2-ethenyl-1,4-dimethyl-	73	J N	ug/L		11.93	2039-89-6		11/07/24 02:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 128					11/07/24 02:10	1
4-Bromofluorobenzene	102		76 - 120					11/07/24 02:10	1
Dibromofluoromethane (Surr)	96		77 - 132					11/07/24 02:10	1
Toluene-d8 (Surr)	97		80 - 120					11/07/24 02:10	1

Method: SW846 8270C - Semivolatile Organics (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	1.2	U	10	1.2	ug/L		11/02/24 10:42	11/02/24 18:45	1
2,2'-oxybis[1-chloropropane]	0.63	U	10	0.63	ug/L		11/02/24 10:42	11/02/24 18:45	1
2,4,5-Trichlorophenol	0.88	U	10	0.88	ug/L		11/02/24 10:42	11/02/24 18:45	1
2,4,6-Trichlorophenol	0.86	U	10	0.86	ug/L		11/02/24 10:42	11/02/24 18:45	1
2,4-Dichlorophenol	1.1	U	10	1.1	ug/L		11/02/24 10:42	11/02/24 18:45	1
2,4-Dimethylphenol	0.62	U	10	0.62	ug/L		11/02/24 10:42	11/02/24 18:45	1
2,4-Dinitrophenol	2.6	U	40	2.6	ug/L		11/02/24 10:42	11/02/24 18:45	1
2,4-Dinitrotoluene	1.0	U	10	1.0	ug/L		11/02/24 10:42	11/02/24 18:45	1
2,6-Dinitrotoluene	0.83	U	2.0	0.83	ug/L		11/02/24 10:42	11/02/24 18:45	1
2-Chloronaphthalene	1.2	U	10	1.2	ug/L		11/02/24 10:42	11/02/24 18:45	1
2-Chlorophenol	0.38	U	10	0.38	ug/L		11/02/24 10:42	11/02/24 18:45	1
2-Methylnaphthalene	8.0	J	10	0.53	ug/L		11/02/24 10:42	11/02/24 18:45	1
2-Methylphenol	0.67	U	10	0.67	ug/L		11/02/24 10:42	11/02/24 18:45	1
2-Nitroaniline	0.47	U	10	0.47	ug/L		11/02/24 10:42	11/02/24 18:45	1
2-Nitrophenol	0.75	U	10	0.75	ug/L		11/02/24 10:42	11/02/24 18:45	1
3,3'-Dichlorobenzidine	1.4	U	10	1.4	ug/L		11/02/24 10:42	11/02/24 18:45	1
3-Nitroaniline	1.9	U	10	1.9	ug/L		11/02/24 10:42	11/02/24 18:45	1
4,6-Dinitro-2-methylphenol	3.0	U	20	3.0	ug/L		11/02/24 10:42	11/02/24 18:45	1
4-Bromophenyl phenyl ether	0.75	U	10	0.75	ug/L		11/02/24 10:42	11/02/24 18:45	1
4-Chloro-3-methylphenol	0.58	U	10	0.58	ug/L		11/02/24 10:42	11/02/24 18:45	1
4-Chlorophenyl phenyl ether	1.3	U	10	1.3	ug/L		11/02/24 10:42	11/02/24 18:45	1
4-Methylphenol	0.65	U	10	0.65	ug/L		11/02/24 10:42	11/02/24 18:45	1
4-Nitroaniline	1.2	U	10	1.2	ug/L		11/02/24 10:42	11/02/24 18:45	1
4-Nitrophenol	4.0	U	20	4.0	ug/L		11/02/24 10:42	11/02/24 18:45	1
Acenaphthene	1.1	U	10	1.1	ug/L		11/02/24 10:42	11/02/24 18:45	1
Acenaphthylene	0.82	U	10	0.82	ug/L		11/02/24 10:42	11/02/24 18:45	1
Acetophenone	7.7	J	10	2.3	ug/L		11/02/24 10:42	11/02/24 18:45	1
Anthracene	1.3	U	10	1.3	ug/L		11/02/24 10:42	11/02/24 18:45	1
Atrazine	1.3	U	2.0	1.3	ug/L		11/02/24 10:42	11/02/24 18:45	1
Benzaldehyde	2.1	U	10	2.1	ug/L		11/02/24 10:42	11/02/24 18:45	1
Benzo[a]anthracene	0.59	U	1.0	0.59	ug/L		11/02/24 10:42	11/02/24 18:45	1
Benzo[a]pyrene	0.41	U	1.0	0.41	ug/L		11/02/24 10:42	11/02/24 18:45	1
Benzo[b]fluoranthene	0.68	U	2.0	0.68	ug/L		11/02/24 10:42	11/02/24 18:45	1
Benzo[g,h,i]perylene	0.70	U	10	0.70	ug/L		11/02/24 10:42	11/02/24 18:45	1
Benzo[k]fluoranthene	0.67	U	1.0	0.67	ug/L		11/02/24 10:42	11/02/24 18:45	1
Bis(2-chloroethoxy)methane	0.59	U	10	0.59	ug/L		11/02/24 10:42	11/02/24 18:45	1
Bis(2-chloroethyl)ether	0.63	U	1.0	0.63	ug/L		11/02/24 10:42	11/02/24 18:45	1

Eurofins Edison

Client Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Client Sample ID: GW-11222397-103124-ES-10

Lab Sample ID: 460-314572-4

Date Collected: 10/31/24 13:55

Matrix: Water

Date Received: 10/31/24 19:00

Method: SW846 8270C - Semivolatile Organics (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	0.80	U	2.0	0.80	ug/L		11/02/24 10:42	11/02/24 18:45	1
Butyl benzyl phthalate	0.85	U	10	0.85	ug/L		11/02/24 10:42	11/02/24 18:45	1
Caprolactam	2.2	U	10	2.2	ug/L		11/02/24 10:42	11/02/24 18:45	1
Carbazole	0.68	U	10	0.68	ug/L		11/02/24 10:42	11/02/24 18:45	1
Chrysene	0.91	U	2.0	0.91	ug/L		11/02/24 10:42	11/02/24 18:45	1
Dibenz(a,h)anthracene	0.72	U	1.0	0.72	ug/L		11/02/24 10:42	11/02/24 18:45	1
Dibenzofuran	1.1	U	10	1.1	ug/L		11/02/24 10:42	11/02/24 18:45	1
Diethyl phthalate	0.98	U	10	0.98	ug/L		11/02/24 10:42	11/02/24 18:45	1
Dimethyl phthalate	0.77	U	10	0.77	ug/L		11/02/24 10:42	11/02/24 18:45	1
Di-n-butyl phthalate	0.84	U	10	0.84	ug/L		11/02/24 10:42	11/02/24 18:45	1
Di-n-octyl phthalate	0.75	U	10	0.75	ug/L		11/02/24 10:42	11/02/24 18:45	1
Fluoranthene	0.84	U	10	0.84	ug/L		11/02/24 10:42	11/02/24 18:45	1
Fluorene	0.91	U	10	0.91	ug/L		11/02/24 10:42	11/02/24 18:45	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		11/02/24 10:42	11/02/24 18:45	1
Hexachlorobutadiene	0.78	U	1.0	0.78	ug/L		11/02/24 10:42	11/02/24 18:45	1
Hexachlorocyclopentadiene	3.6	U	10	3.6	ug/L		11/02/24 10:42	11/02/24 18:45	1
Hexachloroethane	0.80	U	2.0	0.80	ug/L		11/02/24 10:42	11/02/24 18:45	1
Indeno[1,2,3-cd]pyrene	0.94	U	2.0	0.94	ug/L		11/02/24 10:42	11/02/24 18:45	1
Isophorone	0.80	U	10	0.80	ug/L		11/02/24 10:42	11/02/24 18:45	1
Naphthalene	35		2.0	0.54	ug/L		11/02/24 10:42	11/02/24 18:45	1
Nitrobenzene	0.57	U	1.0	0.57	ug/L		11/02/24 10:42	11/02/24 18:45	1
N-Nitrosodi-n-propylamine	0.43	U	1.0	0.43	ug/L		11/02/24 10:42	11/02/24 18:45	1
N-Nitrosodiphenylamine	0.89	U	10	0.89	ug/L		11/02/24 10:42	11/02/24 18:45	1
Pentachlorophenol	1.4	U	20	1.4	ug/L		11/02/24 10:42	11/02/24 18:45	1
Phenanthrene	1.3	U	10	1.3	ug/L		11/02/24 10:42	11/02/24 18:45	1
Phenol	0.29	U	10	0.29	ug/L		11/02/24 10:42	11/02/24 18:45	1
Pyrene	1.6	U	10	1.6	ug/L		11/02/24 10:42	11/02/24 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	99		37 - 150	11/02/24 10:42	11/02/24 18:45	1
2-Fluorobiphenyl	86		46 - 139	11/02/24 10:42	11/02/24 18:45	1
2-Fluorophenol (Surr)	49		16 - 80	11/02/24 10:42	11/02/24 18:45	1
Nitrobenzene-d5 (Surr)	84		51 - 145	11/02/24 10:42	11/02/24 18:45	1
Phenol-d5 (Surr)	35		10 - 56	11/02/24 10:42	11/02/24 18:45	1
Terphenyl-d14 (Surr)	32		13 - 159	11/02/24 10:42	11/02/24 18:45	1

Client Sample ID: RB-11222397-103124-CT-11

Lab Sample ID: 460-314572-5

Date Collected: 10/31/24 09:30

Matrix: Water

Date Received: 10/31/24 19:00

Method: SW846 8270C - Semivolatile Organics (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	1.2	U	10	1.2	ug/L		11/02/24 10:42	11/02/24 18:24	1
2,2'-oxybis[1-chloropropane]	0.63	U	10	0.63	ug/L		11/02/24 10:42	11/02/24 18:24	1
2,4,5-Trichlorophenol	0.88	U	10	0.88	ug/L		11/02/24 10:42	11/02/24 18:24	1
2,4,6-Trichlorophenol	0.86	U	10	0.86	ug/L		11/02/24 10:42	11/02/24 18:24	1
2,4-Dichlorophenol	1.1	U	10	1.1	ug/L		11/02/24 10:42	11/02/24 18:24	1
2,4-Dimethylphenol	0.62	U	10	0.62	ug/L		11/02/24 10:42	11/02/24 18:24	1
2,4-Dinitrophenol	2.6	U	40	2.6	ug/L		11/02/24 10:42	11/02/24 18:24	1
2,4-Dinitrotoluene	1.0	U	10	1.0	ug/L		11/02/24 10:42	11/02/24 18:24	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Client Sample ID: RB-11222397-103124-CT-11

Lab Sample ID: 460-314572-5

Date Collected: 10/31/24 09:30

Matrix: Water

Date Received: 10/31/24 19:00

Method: SW846 8270C - Semivolatile Organics (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	0.83	U	2.0	0.83	ug/L		11/02/24 10:42	11/02/24 18:24	1
2-Chloronaphthalene	1.2	U	10	1.2	ug/L		11/02/24 10:42	11/02/24 18:24	1
2-Chlorophenol	0.38	U	10	0.38	ug/L		11/02/24 10:42	11/02/24 18:24	1
2-Methylnaphthalene	0.53	U	10	0.53	ug/L		11/02/24 10:42	11/02/24 18:24	1
2-Methylphenol	0.67	U	10	0.67	ug/L		11/02/24 10:42	11/02/24 18:24	1
2-Nitroaniline	0.47	U	10	0.47	ug/L		11/02/24 10:42	11/02/24 18:24	1
2-Nitrophenol	0.75	U	10	0.75	ug/L		11/02/24 10:42	11/02/24 18:24	1
3,3'-Dichlorobenzidine	1.4	U	10	1.4	ug/L		11/02/24 10:42	11/02/24 18:24	1
3-Nitroaniline	1.9	U	10	1.9	ug/L		11/02/24 10:42	11/02/24 18:24	1
4,6-Dinitro-2-methylphenol	3.0	U	20	3.0	ug/L		11/02/24 10:42	11/02/24 18:24	1
4-Bromophenyl phenyl ether	0.75	U	10	0.75	ug/L		11/02/24 10:42	11/02/24 18:24	1
4-Chloro-3-methylphenol	0.58	U	10	0.58	ug/L		11/02/24 10:42	11/02/24 18:24	1
4-Chlorophenyl phenyl ether	1.3	U	10	1.3	ug/L		11/02/24 10:42	11/02/24 18:24	1
4-Methylphenol	0.65	U	10	0.65	ug/L		11/02/24 10:42	11/02/24 18:24	1
4-Nitroaniline	1.2	U	10	1.2	ug/L		11/02/24 10:42	11/02/24 18:24	1
4-Nitrophenol	4.0	U	20	4.0	ug/L		11/02/24 10:42	11/02/24 18:24	1
Acenaphthene	1.1	U	10	1.1	ug/L		11/02/24 10:42	11/02/24 18:24	1
Acenaphthylene	0.82	U	10	0.82	ug/L		11/02/24 10:42	11/02/24 18:24	1
Acetophenone	2.3	U	10	2.3	ug/L		11/02/24 10:42	11/02/24 18:24	1
Anthracene	1.3	U	10	1.3	ug/L		11/02/24 10:42	11/02/24 18:24	1
Atrazine	1.3	U	2.0	1.3	ug/L		11/02/24 10:42	11/02/24 18:24	1
Benzaldehyde	2.1	U	10	2.1	ug/L		11/02/24 10:42	11/02/24 18:24	1
Benzo[a]anthracene	0.59	U	1.0	0.59	ug/L		11/02/24 10:42	11/02/24 18:24	1
Benzo[a]pyrene	0.41	U	1.0	0.41	ug/L		11/02/24 10:42	11/02/24 18:24	1
Benzo[b]fluoranthene	0.68	U	2.0	0.68	ug/L		11/02/24 10:42	11/02/24 18:24	1
Benzo[g,h,i]perylene	0.70	U	10	0.70	ug/L		11/02/24 10:42	11/02/24 18:24	1
Benzo[k]fluoranthene	0.67	U	1.0	0.67	ug/L		11/02/24 10:42	11/02/24 18:24	1
Bis(2-chloroethoxy)methane	0.59	U	10	0.59	ug/L		11/02/24 10:42	11/02/24 18:24	1
Bis(2-chloroethyl)ether	0.63	U	1.0	0.63	ug/L		11/02/24 10:42	11/02/24 18:24	1
Bis(2-ethylhexyl) phthalate	0.80	U	2.0	0.80	ug/L		11/02/24 10:42	11/02/24 18:24	1
Butyl benzyl phthalate	0.85	U	10	0.85	ug/L		11/02/24 10:42	11/02/24 18:24	1
Caprolactam	2.2	U	10	2.2	ug/L		11/02/24 10:42	11/02/24 18:24	1
Carbazole	0.68	U	10	0.68	ug/L		11/02/24 10:42	11/02/24 18:24	1
Chrysene	0.91	U	2.0	0.91	ug/L		11/02/24 10:42	11/02/24 18:24	1
Dibenz(a,h)anthracene	0.72	U	1.0	0.72	ug/L		11/02/24 10:42	11/02/24 18:24	1
Dibenzofuran	1.1	U	10	1.1	ug/L		11/02/24 10:42	11/02/24 18:24	1
Diethyl phthalate	0.98	U	10	0.98	ug/L		11/02/24 10:42	11/02/24 18:24	1
Dimethyl phthalate	0.77	U	10	0.77	ug/L		11/02/24 10:42	11/02/24 18:24	1
Di-n-butyl phthalate	0.84	U	10	0.84	ug/L		11/02/24 10:42	11/02/24 18:24	1
Di-n-octyl phthalate	0.75	U	10	0.75	ug/L		11/02/24 10:42	11/02/24 18:24	1
Fluoranthene	0.84	U	10	0.84	ug/L		11/02/24 10:42	11/02/24 18:24	1
Fluorene	0.91	U	10	0.91	ug/L		11/02/24 10:42	11/02/24 18:24	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		11/02/24 10:42	11/02/24 18:24	1
Hexachlorobutadiene	0.78	U	1.0	0.78	ug/L		11/02/24 10:42	11/02/24 18:24	1
Hexachlorocyclopentadiene	3.6	U	10	3.6	ug/L		11/02/24 10:42	11/02/24 18:24	1
Hexachloroethane	0.80	U	2.0	0.80	ug/L		11/02/24 10:42	11/02/24 18:24	1
Indeno[1,2,3-cd]pyrene	0.94	U	2.0	0.94	ug/L		11/02/24 10:42	11/02/24 18:24	1
Isophorone	0.80	U	10	0.80	ug/L		11/02/24 10:42	11/02/24 18:24	1
Naphthalene	0.54	U	2.0	0.54	ug/L		11/02/24 10:42	11/02/24 18:24	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Client Sample ID: RB-11222397-103124-CT-11

Lab Sample ID: 460-314572-5

Date Collected: 10/31/24 09:30

Matrix: Water

Date Received: 10/31/24 19:00

Method: SW846 8270C - Semivolatile Organics (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	0.57	U	1.0	0.57	ug/L		11/02/24 10:42	11/02/24 18:24	1
N-Nitrosodi-n-propylamine	0.43	U	1.0	0.43	ug/L		11/02/24 10:42	11/02/24 18:24	1
N-Nitrosodiphenylamine	0.89	U	10	0.89	ug/L		11/02/24 10:42	11/02/24 18:24	1
Pentachlorophenol	1.4	U	20	1.4	ug/L		11/02/24 10:42	11/02/24 18:24	1
Phenanthrene	1.3	U	10	1.3	ug/L		11/02/24 10:42	11/02/24 18:24	1
Phenol	0.29	U	10	0.29	ug/L		11/02/24 10:42	11/02/24 18:24	1
Pyrene	1.6	U	10	1.6	ug/L		11/02/24 10:42	11/02/24 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	95		37 - 150	11/02/24 10:42	11/02/24 18:24	1
2-Fluorobiphenyl	82		46 - 139	11/02/24 10:42	11/02/24 18:24	1
2-Fluorophenol (Surr)	43		16 - 80	11/02/24 10:42	11/02/24 18:24	1
Nitrobenzene-d5 (Surr)	82		51 - 145	11/02/24 10:42	11/02/24 18:24	1
Phenol-d5 (Surr)	31		10 - 56	11/02/24 10:42	11/02/24 18:24	1
Terphenyl-d14 (Surr)	27		13 - 159	11/02/24 10:42	11/02/24 18:24	1

Client Sample ID: GW-11222397-103124-CT-12

Lab Sample ID: 460-314572-6

Date Collected: 10/31/24 12:05

Matrix: Water

Date Received: 10/31/24 19:00

Method: SW846 8260D - Volatile Organics (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.2	U	5.0	1.2	ug/L			11/07/24 15:50	5
1,1,1,2-Tetrachloroethane	1.8	U	5.0	1.8	ug/L			11/07/24 15:50	5
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1.6	U	5.0	1.6	ug/L			11/07/24 15:50	5
1,1,2-Trichloroethane	1.0	U	5.0	1.0	ug/L			11/07/24 15:50	5
1,1-Dichloroethane	1.3	U	5.0	1.3	ug/L			11/07/24 15:50	5
1,1-Dichloroethene	1.3	U	5.0	1.3	ug/L			11/07/24 15:50	5
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			11/07/24 15:50	5
1,2,4-Trimethylbenzene	11		5.0	1.9	ug/L			11/07/24 15:50	5
1,2-Dibromo-3-Chloropropane	1.9	U	5.0	1.9	ug/L			11/07/24 15:50	5
1,2-Dibromoethane	2.5	U	5.0	2.5	ug/L			11/07/24 15:50	5
1,2-Dichlorobenzene	1.1	U	5.0	1.1	ug/L			11/07/24 15:50	5
1,2-Dichloroethane	14		5.0	2.2	ug/L			11/07/24 15:50	5
1,2-Dichloropropane	1.8	U	5.0	1.8	ug/L			11/07/24 15:50	5
1,3-Dichlorobenzene	1.7	U	5.0	1.7	ug/L			11/07/24 15:50	5
1,4-Dichlorobenzene	1.7	U	5.0	1.7	ug/L			11/07/24 15:50	5
2-Butanone (MEK)	15	J	25	9.3	ug/L			11/07/24 15:50	5
2-Hexanone	5.7	U	25	5.7	ug/L			11/07/24 15:50	5
4-Methyl-2-pentanone (MIBK)	6.5	U	25	6.5	ug/L			11/07/24 15:50	5
Acetone	45		25	22	ug/L			11/07/24 15:50	5
Benzene	880		5.0	1.0	ug/L			11/07/24 15:50	5
Dichlorobromomethane	1.7	U	5.0	1.7	ug/L			11/07/24 15:50	5
Bromoform	2.7	U	5.0	2.7	ug/L			11/07/24 15:50	5
Bromomethane	2.8	U	5.0	2.8	ug/L			11/07/24 15:50	5
Carbon disulfide	4.1	U	5.0	4.1	ug/L			11/07/24 15:50	5
Carbon tetrachloride	1.0	U	5.0	1.0	ug/L			11/07/24 15:50	5
Chlorobenzene	1.9	U	5.0	1.9	ug/L			11/07/24 15:50	5
Chloroethane	1.6	U	5.0	1.6	ug/L			11/07/24 15:50	5
Chloroform	1.6	U	5.0	1.6	ug/L			11/07/24 15:50	5

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Client Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Client Sample ID: GW-11222397-103124-CT-12

Lab Sample ID: 460-314572-6

Date Collected: 10/31/24 12:05

Matrix: Water

Date Received: 10/31/24 19:00

Method: SW846 8260D - Volatile Organics (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.0	U	5.0	2.0	ug/L			11/07/24 15:50	5
cis-1,2-Dichloroethene	1.1	U	5.0	1.1	ug/L			11/07/24 15:50	5
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			11/07/24 15:50	5
Cyclohexane	260		5.0	1.6	ug/L			11/07/24 15:50	5
Chlorodibromomethane	1.4	U	5.0	1.4	ug/L			11/07/24 15:50	5
Dichlorodifluoromethane	1.6	U	5.0	1.6	ug/L			11/07/24 15:50	5
Ethylbenzene	530		5.0	1.5	ug/L			11/07/24 15:50	5
Isopropylbenzene	37		5.0	1.7	ug/L			11/07/24 15:50	5
Methyl acetate	3.9	U	25	3.9	ug/L			11/07/24 15:50	5
Methyl tert-butyl ether	1.1	U	5.0	1.1	ug/L			11/07/24 15:50	5
Methylcyclohexane	93		5.0	3.5	ug/L			11/07/24 15:50	5
Methylene Chloride	1.6	U	5.0	1.6	ug/L			11/07/24 15:50	5
Styrene	2.1	U	5.0	2.1	ug/L			11/07/24 15:50	5
Tetrachloroethene	1.2	U	5.0	1.2	ug/L			11/07/24 15:50	5
Toluene	190		5.0	1.9	ug/L			11/07/24 15:50	5
trans-1,2-Dichloroethene	1.2	U	5.0	1.2	ug/L			11/07/24 15:50	5
trans-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			11/07/24 15:50	5
Trichloroethene	1.6	U	5.0	1.6	ug/L			11/07/24 15:50	5
Trichlorofluoromethane	1.6	U	5.0	1.6	ug/L			11/07/24 15:50	5
Vinyl chloride	0.86	U	5.0	0.86	ug/L			11/07/24 15:50	5
Xylenes, Total	210		10	3.3	ug/L			11/07/24 15:50	5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Butane	430	J N	ug/L		1.80	106-97-8		11/07/24 15:50	5
Butane, 2-methyl-	560	J N	ug/L		2.20	78-78-4		11/07/24 15:50	5
Pentane	410	J N	ug/L		2.40	109-66-0		11/07/24 15:50	5
2-Pentene, (Z)-	270	J N	ug/L		2.51	627-20-3		11/07/24 15:50	5
2-Methyl-1-butene	140	J N	ug/L		2.60	563-46-2		11/07/24 15:50	5
Cyclopropane, 1,2-dimethyl-, cis-	390	J N	ug/L		2.65	930-18-7		11/07/24 15:50	5
Unknown	230	J	ug/L		3.11	N/A		11/07/24 15:50	5
2-Pentene, 3-methyl-, (Z)-	140	J N	ug/L		3.95	922-62-3		11/07/24 15:50	5
Cyclopentane, methyl-	350	J N	ug/L		4.11	96-37-7		11/07/24 15:50	5
Indane	230	J N	ug/L		11.43	496-11-7		11/07/24 15:50	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 128		11/07/24 15:50	5
4-Bromofluorobenzene	96		76 - 120		11/07/24 15:50	5
Dibromofluoromethane (Surr)	99		77 - 132		11/07/24 15:50	5
Toluene-d8 (Surr)	98		80 - 120		11/07/24 15:50	5

Method: SW846 8270C - Semivolatile Organics (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	1.2	U	10	1.2	ug/L		11/02/24 10:42	11/02/24 19:07	1
2,2'-oxybis[1-chloropropane]	0.63	U	10	0.63	ug/L		11/02/24 10:42	11/02/24 19:07	1
2,4,5-Trichlorophenol	0.88	U	10	0.88	ug/L		11/02/24 10:42	11/02/24 19:07	1
2,4,6-Trichlorophenol	0.86	U	10	0.86	ug/L		11/02/24 10:42	11/02/24 19:07	1
2,4-Dichlorophenol	1.1	U	10	1.1	ug/L		11/02/24 10:42	11/02/24 19:07	1
2,4-Dimethylphenol	0.62	U	10	0.62	ug/L		11/02/24 10:42	11/02/24 19:07	1
2,4-Dinitrophenol	2.6	U	40	2.6	ug/L		11/02/24 10:42	11/02/24 19:07	1
2,4-Dinitrotoluene	1.0	U	10	1.0	ug/L		11/02/24 10:42	11/02/24 19:07	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Client Sample ID: GW-11222397-103124-CT-12

Lab Sample ID: 460-314572-6

Date Collected: 10/31/24 12:05

Matrix: Water

Date Received: 10/31/24 19:00

Method: SW846 8270C - Semivolatile Organics (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	0.83	U	2.0	0.83	ug/L		11/02/24 10:42	11/02/24 19:07	1
2-Chloronaphthalene	1.2	U	10	1.2	ug/L		11/02/24 10:42	11/02/24 19:07	1
2-Chlorophenol	0.38	U	10	0.38	ug/L		11/02/24 10:42	11/02/24 19:07	1
2-Methylnaphthalene	2.2	J	10	0.53	ug/L		11/02/24 10:42	11/02/24 19:07	1
2-Methylphenol	0.74	J	10	0.67	ug/L		11/02/24 10:42	11/02/24 19:07	1
2-Nitroaniline	0.47	U	10	0.47	ug/L		11/02/24 10:42	11/02/24 19:07	1
2-Nitrophenol	0.75	U	10	0.75	ug/L		11/02/24 10:42	11/02/24 19:07	1
3,3'-Dichlorobenzidine	1.4	U	10	1.4	ug/L		11/02/24 10:42	11/02/24 19:07	1
3-Nitroaniline	1.9	U	10	1.9	ug/L		11/02/24 10:42	11/02/24 19:07	1
4,6-Dinitro-2-methylphenol	3.0	U	20	3.0	ug/L		11/02/24 10:42	11/02/24 19:07	1
4-Bromophenyl phenyl ether	0.75	U	10	0.75	ug/L		11/02/24 10:42	11/02/24 19:07	1
4-Chloro-3-methylphenol	0.58	U	10	0.58	ug/L		11/02/24 10:42	11/02/24 19:07	1
4-Chlorophenyl phenyl ether	1.3	U	10	1.3	ug/L		11/02/24 10:42	11/02/24 19:07	1
4-Methylphenol	0.65	U	10	0.65	ug/L		11/02/24 10:42	11/02/24 19:07	1
4-Nitroaniline	1.2	U	10	1.2	ug/L		11/02/24 10:42	11/02/24 19:07	1
4-Nitrophenol	4.0	U	20	4.0	ug/L		11/02/24 10:42	11/02/24 19:07	1
Acenaphthene	1.1	U	10	1.1	ug/L		11/02/24 10:42	11/02/24 19:07	1
Acenaphthylene	0.82	U	10	0.82	ug/L		11/02/24 10:42	11/02/24 19:07	1
Acetophenone	11		10	2.3	ug/L		11/02/24 10:42	11/02/24 19:07	1
Anthracene	1.3	U	10	1.3	ug/L		11/02/24 10:42	11/02/24 19:07	1
Atrazine	1.3	U	2.0	1.3	ug/L		11/02/24 10:42	11/02/24 19:07	1
Benzaldehyde	2.1	U	10	2.1	ug/L		11/02/24 10:42	11/02/24 19:07	1
Benzo[a]anthracene	0.59	U	1.0	0.59	ug/L		11/02/24 10:42	11/02/24 19:07	1
Benzo[a]pyrene	0.41	U	1.0	0.41	ug/L		11/02/24 10:42	11/02/24 19:07	1
Benzo[b]fluoranthene	0.68	U	2.0	0.68	ug/L		11/02/24 10:42	11/02/24 19:07	1
Benzo[g,h,i]perylene	0.70	U	10	0.70	ug/L		11/02/24 10:42	11/02/24 19:07	1
Benzo[k]fluoranthene	0.67	U	1.0	0.67	ug/L		11/02/24 10:42	11/02/24 19:07	1
Bis(2-chloroethoxy)methane	0.59	U	10	0.59	ug/L		11/02/24 10:42	11/02/24 19:07	1
Bis(2-chloroethyl)ether	0.63	U	1.0	0.63	ug/L		11/02/24 10:42	11/02/24 19:07	1
Bis(2-ethylhexyl) phthalate	0.80	U	2.0	0.80	ug/L		11/02/24 10:42	11/02/24 19:07	1
Butyl benzyl phthalate	0.85	U	10	0.85	ug/L		11/02/24 10:42	11/02/24 19:07	1
Caprolactam	2.2	U	10	2.2	ug/L		11/02/24 10:42	11/02/24 19:07	1
Carbazole	0.68	U	10	0.68	ug/L		11/02/24 10:42	11/02/24 19:07	1
Chrysene	0.91	U	2.0	0.91	ug/L		11/02/24 10:42	11/02/24 19:07	1
Dibenz(a,h)anthracene	0.72	U	1.0	0.72	ug/L		11/02/24 10:42	11/02/24 19:07	1
Dibenzofuran	1.1	U	10	1.1	ug/L		11/02/24 10:42	11/02/24 19:07	1
Diethyl phthalate	0.98	U	10	0.98	ug/L		11/02/24 10:42	11/02/24 19:07	1
Dimethyl phthalate	0.77	U	10	0.77	ug/L		11/02/24 10:42	11/02/24 19:07	1
Di-n-butyl phthalate	0.84	U	10	0.84	ug/L		11/02/24 10:42	11/02/24 19:07	1
Di-n-octyl phthalate	0.75	U	10	0.75	ug/L		11/02/24 10:42	11/02/24 19:07	1
Fluoranthene	0.84	U	10	0.84	ug/L		11/02/24 10:42	11/02/24 19:07	1
Fluorene	0.91	U	10	0.91	ug/L		11/02/24 10:42	11/02/24 19:07	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		11/02/24 10:42	11/02/24 19:07	1
Hexachlorobutadiene	0.78	U	1.0	0.78	ug/L		11/02/24 10:42	11/02/24 19:07	1
Hexachlorocyclopentadiene	3.6	U	10	3.6	ug/L		11/02/24 10:42	11/02/24 19:07	1
Hexachloroethane	0.80	U	2.0	0.80	ug/L		11/02/24 10:42	11/02/24 19:07	1
Indeno[1,2,3-cd]pyrene	0.94	U	2.0	0.94	ug/L		11/02/24 10:42	11/02/24 19:07	1
Isophorone	0.80	U	10	0.80	ug/L		11/02/24 10:42	11/02/24 19:07	1
Naphthalene	48		2.0	0.54	ug/L		11/02/24 10:42	11/02/24 19:07	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Client Sample ID: GW-11222397-103124-CT-12

Lab Sample ID: 460-314572-6

Date Collected: 10/31/24 12:05

Matrix: Water

Date Received: 10/31/24 19:00

Method: SW846 8270C - Semivolatile Organics (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	0.57	U	1.0	0.57	ug/L		11/02/24 10:42	11/02/24 19:07	1
N-Nitrosodi-n-propylamine	1.2		1.0	0.43	ug/L		11/02/24 10:42	11/02/24 19:07	1
N-Nitrosodiphenylamine	0.89	U	10	0.89	ug/L		11/02/24 10:42	11/02/24 19:07	1
Pentachlorophenol	1.4	U	20	1.4	ug/L		11/02/24 10:42	11/02/24 19:07	1
Phenanthrene	1.3	U	10	1.3	ug/L		11/02/24 10:42	11/02/24 19:07	1
Phenol	2.6	J	10	0.29	ug/L		11/02/24 10:42	11/02/24 19:07	1
Pyrene	1.6	U	10	1.6	ug/L		11/02/24 10:42	11/02/24 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	101		37 - 150	11/02/24 10:42	11/02/24 19:07	1
2-Fluorobiphenyl	84		46 - 139	11/02/24 10:42	11/02/24 19:07	1
2-Fluorophenol (Surr)	45		16 - 80	11/02/24 10:42	11/02/24 19:07	1
Nitrobenzene-d5 (Surr)	81		51 - 145	11/02/24 10:42	11/02/24 19:07	1
Phenol-d5 (Surr)	32		10 - 56	11/02/24 10:42	11/02/24 19:07	1
Terphenyl-d14 (Surr)	29		13 - 159	11/02/24 10:42	11/02/24 19:07	1

Client Sample ID: TB-11222397-103124-ES-13

Lab Sample ID: 460-314572-7

Date Collected: 10/31/24 14:00

Matrix: Water

Date Received: 10/31/24 19:00

Method: SW846 8260D - Volatile Organics (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			11/06/24 22:34	1
1,1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/06/24 22:34	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/06/24 22:34	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/06/24 22:34	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/06/24 22:34	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/06/24 22:34	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/06/24 22:34	1
1,2,4-Trimethylbenzene	0.37	U	1.0	0.37	ug/L			11/06/24 22:34	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/06/24 22:34	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/06/24 22:34	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/06/24 22:34	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			11/06/24 22:34	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/06/24 22:34	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/06/24 22:34	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/06/24 22:34	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			11/06/24 22:34	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/06/24 22:34	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			11/06/24 22:34	1
Acetone	4.4	U	5.0	4.4	ug/L			11/06/24 22:34	1
Benzene	0.20	U	1.0	0.20	ug/L			11/06/24 22:34	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			11/06/24 22:34	1
Bromoform	0.54	U	1.0	0.54	ug/L			11/06/24 22:34	1
Bromomethane	0.55	U	1.0	0.55	ug/L			11/06/24 22:34	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			11/06/24 22:34	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			11/06/24 22:34	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/06/24 22:34	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/06/24 22:34	1
Chloroform	0.33	U	1.0	0.33	ug/L			11/06/24 22:34	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Client Sample ID: TB-11222397-103124-ES-13

Lab Sample ID: 460-314572-7

Date Collected: 10/31/24 14:00

Matrix: Water

Date Received: 10/31/24 19:00

Method: SW846 8260D - Volatile Organics (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.40	U	1.0	0.40	ug/L			11/06/24 22:34	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			11/06/24 22:34	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/06/24 22:34	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			11/06/24 22:34	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			11/06/24 22:34	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/06/24 22:34	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			11/06/24 22:34	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			11/06/24 22:34	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/06/24 22:34	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/06/24 22:34	1
Methylcyclohexane	0.71	U	1.0	0.71	ug/L			11/06/24 22:34	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			11/06/24 22:34	1
Styrene	0.42	U	1.0	0.42	ug/L			11/06/24 22:34	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			11/06/24 22:34	1
Toluene	0.38	U	1.0	0.38	ug/L			11/06/24 22:34	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/06/24 22:34	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/06/24 22:34	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			11/06/24 22:34	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			11/06/24 22:34	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			11/06/24 22:34	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			11/06/24 22:34	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		11/06/24 22:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 128		11/06/24 22:34	1
4-Bromofluorobenzene	102		76 - 120		11/06/24 22:34	1
Dibromofluoromethane (Surr)	103		77 - 132		11/06/24 22:34	1
Toluene-d8 (Surr)	95		80 - 120		11/06/24 22:34	1

Surrogate Summary

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Method: 8260D - Volatile Organics (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (70-128)	BFB (76-120)	DBFM (77-132)	TOL (80-120)
460-314572-1	GW-11222397-103024-ES-07	96	94	104	99
460-314572-1 MS	GW-11222397-103024-ES-07	102	105	102	94
460-314572-1 MSD	GW-11222397-103024-ES-07	100	101	104	95
460-314572-2	GW-11222397-103124-ES-08	99	104	105	102
460-314572-4	GW-11222397-103124-ES-10	94	102	96	97
460-314572-6	GW-11222397-103124-CT-12	103	96	99	98
460-314572-7	TB-11222397-103124-ES-13	103	102	103	95
LCS 460-1005622/4	Lab Control Sample	97	99	98	92
LCS 460-1005690/4	Lab Control Sample	104	101	103	102
LCSD 460-1005622/5	Lab Control Sample Dup	100	94	96	92
LCSD 460-1005690/5	Lab Control Sample Dup	101	99	98	98
MB 460-1005622/10	Method Blank	100	94	98	93
MB 460-1005690/9	Method Blank	101	99	103	101

Surrogate Legend

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

Method: 8270C - Semivolatile Organics (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (37-150)	FBP (46-139)	2FP (16-80)	NBZ (51-145)	PHL (10-56)	TPHL (13-159)
460-314572-2	GW-11222397-103124-ES-08	93	68	48	78	35	25
460-314572-3	GW-11222397-103124-ES-09	97	78	48	80	35	27
460-314572-4	GW-11222397-103124-ES-10	99	86	49	84	35	32
460-314572-5	RB-11222397-103124-CT-11	95	82	43	82	31	27
460-314572-6	GW-11222397-103124-CT-12	101	84	45	81	32	29
460-314605-D-1-A MS	Matrix Spike	109	88	48	86	35	81
460-314605-D-1-B MSD	Matrix Spike Duplicate	103	84	44	83	32	72
LCS 460-1004948/2-A	Lab Control Sample	99	86	41	85	28	79
LCSD 460-1004948/3-A	Lab Control Sample Dup	101	87	41	87	28	81
MB 460-1004948/1-A	Method Blank	83	73	36	73	25	23

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

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QC Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Method: 8260D - Volatile Organics (GC/MS)

Lab Sample ID: MB 460-1005622/10

Matrix: Water

Analysis Batch: 1005622

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			11/06/24 20:57	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/06/24 20:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/06/24 20:57	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/06/24 20:57	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/06/24 20:57	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/06/24 20:57	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/06/24 20:57	1
1,2,4-Trimethylbenzene	0.37	U	1.0	0.37	ug/L			11/06/24 20:57	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/06/24 20:57	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/06/24 20:57	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/06/24 20:57	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			11/06/24 20:57	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/06/24 20:57	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/06/24 20:57	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/06/24 20:57	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			11/06/24 20:57	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/06/24 20:57	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			11/06/24 20:57	1
Acetone	4.4	U	5.0	4.4	ug/L			11/06/24 20:57	1
Benzene	0.20	U	1.0	0.20	ug/L			11/06/24 20:57	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			11/06/24 20:57	1
Bromoform	0.54	U	1.0	0.54	ug/L			11/06/24 20:57	1
Bromomethane	0.55	U	1.0	0.55	ug/L			11/06/24 20:57	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			11/06/24 20:57	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			11/06/24 20:57	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/06/24 20:57	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/06/24 20:57	1
Chloroform	0.33	U	1.0	0.33	ug/L			11/06/24 20:57	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/06/24 20:57	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			11/06/24 20:57	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/06/24 20:57	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			11/06/24 20:57	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			11/06/24 20:57	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/06/24 20:57	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			11/06/24 20:57	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			11/06/24 20:57	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/06/24 20:57	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/06/24 20:57	1
Methylcyclohexane	0.71	U	1.0	0.71	ug/L			11/06/24 20:57	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			11/06/24 20:57	1
Styrene	0.42	U	1.0	0.42	ug/L			11/06/24 20:57	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			11/06/24 20:57	1
Toluene	0.38	U	1.0	0.38	ug/L			11/06/24 20:57	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/06/24 20:57	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/06/24 20:57	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			11/06/24 20:57	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			11/06/24 20:57	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			11/06/24 20:57	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Method: 8260D - Volatile Organics (GC/MS) (Continued)

Lab Sample ID: MB 460-1005622/10

Matrix: Water

Analysis Batch: 1005622

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.65	U	2.0	0.65	ug/L			11/06/24 20:57	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		11/06/24 20:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 128		11/06/24 20:57	1
4-Bromofluorobenzene	94		76 - 120		11/06/24 20:57	1
Dibromofluoromethane (Surr)	98		77 - 132		11/06/24 20:57	1
Toluene-d8 (Surr)	93		80 - 120		11/06/24 20:57	1

Lab Sample ID: LCS 460-1005622/4

Matrix: Water

Analysis Batch: 1005622

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	18.7		ug/L		94	72 - 128
1,1,2,2-Tetrachloroethane	20.0	17.9		ug/L		90	63 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	17.3		ug/L		86	65 - 142
1,1,2-Trichloroethane	20.0	17.1		ug/L		86	74 - 125
1,1-Dichloroethane	20.0	18.5		ug/L		92	73 - 130
1,1-Dichloroethene	20.0	17.8		ug/L		89	68 - 133
1,2,4-Trichlorobenzene	20.0	18.8		ug/L		94	67 - 132
1,2,4-Trimethylbenzene	20.0	19.0		ug/L		95	75 - 125
1,2-Dibromo-3-Chloropropane	20.0	21.0		ug/L		105	58 - 132
1,2-Dibromoethane	20.0	18.5		ug/L		93	79 - 126
1,2-Dichlorobenzene	20.0	18.5		ug/L		93	80 - 120
1,2-Dichloroethane	20.0	18.8		ug/L		94	66 - 129
1,2-Dichloropropane	20.0	17.6		ug/L		88	72 - 128
1,3-Dichlorobenzene	20.0	19.1		ug/L		96	80 - 120
1,4-Dichlorobenzene	20.0	19.0		ug/L		95	80 - 120
2-Butanone (MEK)	100	91.7		ug/L		92	65 - 142
2-Hexanone	100	91.5		ug/L		92	72 - 134
4-Methyl-2-pentanone (MIBK)	100	95.6		ug/L		96	77 - 130
Acetone	100	85.5		ug/L		85	60 - 133
Benzene	20.0	18.3		ug/L		92	71 - 126
Dichlorobromomethane	20.0	18.6		ug/L		93	76 - 121
Bromoform	20.0	18.3		ug/L		91	58 - 128
Bromomethane	20.0	18.2		ug/L		91	33 - 150
Carbon disulfide	20.0	17.8		ug/L		89	35 - 150
Carbon tetrachloride	20.0	20.0		ug/L		100	65 - 131
Chlorobenzene	20.0	18.0		ug/L		90	80 - 120
Chloroethane	20.0	17.4		ug/L		87	54 - 150
Chloroform	20.0	19.3		ug/L		96	78 - 125
Chloromethane	20.0	17.5		ug/L		87	43 - 149
cis-1,2-Dichloroethene	20.0	18.8		ug/L		94	78 - 121
cis-1,3-Dichloropropene	20.0	18.2		ug/L		91	74 - 125

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QC Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Method: 8260D - Volatile Organics (GC/MS) (Continued)

Lab Sample ID: LCS 460-1005622/4

Matrix: Water

Analysis Batch: 1005622

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyclohexane	20.0	16.3		ug/L		82	64 - 142
Chlorodibromomethane	20.0	20.0		ug/L		100	73 - 121
Dichlorodifluoromethane	20.0	17.4		ug/L		87	38 - 144
Ethylbenzene	20.0	17.5		ug/L		88	78 - 120
Isopropylbenzene	20.0	17.5		ug/L		88	79 - 125
Methyl acetate	40.0	37.2		ug/L		93	50 - 147
Methyl tert-butyl ether	20.0	18.8		ug/L		94	72 - 131
Methylcyclohexane	20.0	18.4		ug/L		92	63 - 138
Methylene Chloride	20.0	18.0		ug/L		90	74 - 127
Styrene	20.0	17.6		ug/L		88	82 - 127
Tetrachloroethene	20.0	19.3		ug/L		97	70 - 127
Toluene	20.0	17.5		ug/L		88	78 - 120
trans-1,2-Dichloroethene	20.0	18.0		ug/L		90	70 - 126
trans-1,3-Dichloropropene	20.0	18.8		ug/L		94	71 - 127
Trichloroethene	20.0	18.9		ug/L		95	73 - 121
Trichlorofluoromethane	20.0	18.7		ug/L		93	62 - 134
Vinyl chloride	20.0	17.1		ug/L		85	55 - 144
Xylenes, Total	40.0	35.6		ug/L		89	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 128
4-Bromofluorobenzene	99		76 - 120
Dibromofluoromethane (Surr)	98		77 - 132
Toluene-d8 (Surr)	92		80 - 120

Lab Sample ID: LCSD 460-1005622/5

Matrix: Water

Analysis Batch: 1005622

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	18.7		ug/L		94	72 - 128	0	30
1,1,2,2-Tetrachloroethane	20.0	18.0		ug/L		90	63 - 139	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.1		ug/L		96	65 - 142	10	30
1,1,2-Trichloroethane	20.0	15.6		ug/L		78	74 - 125	9	30
1,1-Dichloroethane	20.0	19.5		ug/L		97	73 - 130	5	30
1,1-Dichloroethene	20.0	19.4		ug/L		97	68 - 133	9	30
1,2,4-Trichlorobenzene	20.0	18.6		ug/L		93	67 - 132	1	30
1,2,4-Trimethylbenzene	20.0	18.6		ug/L		93	75 - 125	2	30
1,2-Dibromo-3-Chloropropane	20.0	18.1		ug/L		90	58 - 132	15	30
1,2-Dibromoethane	20.0	17.9		ug/L		89	79 - 126	4	30
1,2-Dichlorobenzene	20.0	19.0		ug/L		95	80 - 120	3	30
1,2-Dichloroethane	20.0	18.7		ug/L		94	66 - 129	0	30
1,2-Dichloropropane	20.0	19.0		ug/L		95	72 - 128	8	30
1,3-Dichlorobenzene	20.0	19.6		ug/L		98	80 - 120	2	30
1,4-Dichlorobenzene	20.0	18.3		ug/L		92	80 - 120	3	30
2-Butanone (MEK)	100	84.7		ug/L		85	65 - 142	8	30
2-Hexanone	100	89.1		ug/L		89	72 - 134	3	30
4-Methyl-2-pentanone (MIBK)	100	94.7		ug/L		95	77 - 130	1	30

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QC Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Method: 8260D - Volatile Organics (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1005622/5

Matrix: Water

Analysis Batch: 1005622

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	100	82.3		ug/L		82	60 - 133	4	30
Benzene	20.0	18.0		ug/L		90	71 - 126	2	30
Dichlorobromomethane	20.0	19.6		ug/L		98	76 - 121	5	30
Bromoform	20.0	18.1		ug/L		90	58 - 128	1	30
Bromomethane	20.0	17.2		ug/L		86	33 - 150	6	30
Carbon disulfide	20.0	17.8		ug/L		89	35 - 150	0	30
Carbon tetrachloride	20.0	19.3		ug/L		96	65 - 131	4	30
Chlorobenzene	20.0	18.7		ug/L		94	80 - 120	4	30
Chloroethane	20.0	17.6		ug/L		88	54 - 150	2	30
Chloroform	20.0	19.5		ug/L		98	78 - 125	1	30
Chloromethane	20.0	17.9		ug/L		89	43 - 149	2	30
cis-1,2-Dichloroethene	20.0	19.6		ug/L		98	78 - 121	4	30
cis-1,3-Dichloropropene	20.0	19.9		ug/L		99	74 - 125	9	30
Cyclohexane	20.0	18.2		ug/L		91	64 - 142	11	30
Chlorodibromomethane	20.0	19.1		ug/L		95	73 - 121	5	30
Dichlorodifluoromethane	20.0	19.5		ug/L		97	38 - 144	11	30
Ethylbenzene	20.0	18.8		ug/L		94	78 - 120	7	30
Isopropylbenzene	20.0	17.2		ug/L		86	79 - 125	2	30
Methyl acetate	40.0	37.5		ug/L		94	50 - 147	1	30
Methyl tert-butyl ether	20.0	19.1		ug/L		96	72 - 131	2	30
Methylcyclohexane	20.0	19.1		ug/L		96	63 - 138	4	30
Methylene Chloride	20.0	19.1		ug/L		96	74 - 127	6	30
Styrene	20.0	18.6		ug/L		93	82 - 127	6	30
Tetrachloroethene	20.0	19.3		ug/L		97	70 - 127	0	30
Toluene	20.0	17.8		ug/L		89	78 - 120	1	30
trans-1,2-Dichloroethene	20.0	18.9		ug/L		94	70 - 126	5	30
trans-1,3-Dichloropropene	20.0	19.3		ug/L		96	71 - 127	3	30
Trichloroethene	20.0	19.0		ug/L		95	73 - 121	0	30
Trichlorofluoromethane	20.0	19.0		ug/L		95	62 - 134	2	30
Vinyl chloride	20.0	17.7		ug/L		89	55 - 144	4	30
Xylenes, Total	40.0	34.4		ug/L		86	80 - 120	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 128
4-Bromofluorobenzene	94		76 - 120
Dibromofluoromethane (Surr)	96		77 - 132
Toluene-d8 (Surr)	92		80 - 120

Lab Sample ID: 460-314572-1 MS

Matrix: Water

Analysis Batch: 1005622

Client Sample ID: GW-11222397-103024-ES-07

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.24	U	20.0	20.3		ug/L		101	72 - 128
1,1,2,2-Tetrachloroethane	0.37	U	20.0	18.8		ug/L		94	63 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	20.0	22.7		ug/L		113	65 - 142
1,1,2-Trichloroethane	0.20	U	20.0	17.1		ug/L		85	74 - 125
1,1-Dichloroethane	0.26	U	20.0	20.1		ug/L		101	73 - 130

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Job ID: 460-314572-1

Lab Sample ID: 460-314572-1 MS
Matrix: Water
Analysis Batch: 1005622

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QC Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Method: 8260D - Volatile Organics (GC/MS) (Continued)

Lab Sample ID: 460-314572-1 MS

Matrix: Water

Analysis Batch: 1005622

Client Sample ID: GW-11222397-103024-ES-07

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	102		77 - 132
Toluene-d8 (Surr)	94		80 - 120

Lab Sample ID: 460-314572-1 MSD

Matrix: Water

Analysis Batch: 1005622

Client Sample ID: GW-11222397-103024-ES-07

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.24	U	20.0	20.1		ug/L		100	72 - 128	1	30
1,1,2,2-Tetrachloroethane	0.37	U	20.0	18.8		ug/L		94	63 - 139	0	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	20.0	19.8		ug/L		99	65 - 142	14	30
1,1,2-Trichloroethane	0.20	U	20.0	17.2		ug/L		86	74 - 125	1	30
1,1-Dichloroethane	0.26	U	20.0	19.0		ug/L		95	73 - 130	6	30
1,1-Dichloroethene	0.26	U	20.0	18.7		ug/L		93	68 - 133	13	30
1,2,4-Trichlorobenzene	0.37	U	20.0	17.5		ug/L		88	67 - 132	11	30
1,2,4-Trimethylbenzene	0.37	U	20.0	17.9		ug/L		89	75 - 125	9	30
1,2-Dibromo-3-Chloropropane	0.38	U	20.0	16.6		ug/L		83	58 - 132	11	30
1,2-Dibromoethane	0.50	U	20.0	17.8		ug/L		89	79 - 126	6	30
1,2-Dichlorobenzene	0.21	U	20.0	18.9		ug/L		94	80 - 120	2	30
1,2-Dichloroethane	0.43	U	20.0	18.8		ug/L		94	66 - 129	10	30
1,2-Dichloropropane	0.35	U	20.0	18.5		ug/L		93	72 - 128	0	30
1,3-Dichlorobenzene	0.34	U	20.0	18.6		ug/L		93	80 - 120	8	30
1,4-Dichlorobenzene	0.33	U	20.0	18.5		ug/L		92	80 - 120	5	30
2-Butanone (MEK)	1.9	U	100	97.3		ug/L		97	65 - 142	4	30
2-Hexanone	1.1	U	100	99.2		ug/L		99	72 - 134	2	30
4-Methyl-2-pentanone (MIBK)	1.3	U	100	97.0		ug/L		97	77 - 130	5	30
Acetone	4.4	U	100	82.9		ug/L		83	60 - 133	6	30
Benzene	0.20	U	20.0	17.5		ug/L		88	71 - 126	10	30
Dichlorobromomethane	0.34	U	20.0	20.2		ug/L		101	76 - 121	0	30
Bromoform	0.54	U	20.0	18.6		ug/L		93	58 - 128	2	30
Bromomethane	0.55	U	20.0	18.3		ug/L		92	33 - 150	5	30
Carbon disulfide	0.82	U	20.0	17.8		ug/L		89	35 - 150	9	30
Carbon tetrachloride	0.21	U	20.0	20.2		ug/L		101	65 - 131	4	30
Chlorobenzene	0.38	U	20.0	18.8		ug/L		94	80 - 120	1	30
Chloroethane	0.32	U	20.0	19.2		ug/L		96	54 - 150	0	30
Chloroform	0.33	U	20.0	18.5		ug/L		93	78 - 125	10	30
Chloromethane	0.40	U	20.0	17.8		ug/L		89	43 - 149	11	30
cis-1,2-Dichloroethene	0.22	U	20.0	20.1		ug/L		100	78 - 121	4	30
cis-1,3-Dichloropropene	0.22	U	20.0	17.7		ug/L		88	74 - 125	1	30
Cyclohexane	0.32	U	20.0	18.6		ug/L		93	64 - 142	10	30
Chlorodibromomethane	0.28	U	20.0	18.9		ug/L		94	73 - 121	8	30
Dichlorodifluoromethane	0.31	U	20.0	19.7		ug/L		99	38 - 144	13	30
Ethylbenzene	0.30	U	20.0	17.6		ug/L		88	78 - 120	8	30
Isopropylbenzene	0.34	U	20.0	17.6		ug/L		88	79 - 125	3	30
Methyl acetate	0.79	U	40.0	32.3		ug/L		81	50 - 147	10	30
Methyl tert-butyl ether	0.22	U	20.0	18.9		ug/L		95	72 - 131	4	30
Methylcyclohexane	0.71	U	20.0	20.2		ug/L		101	63 - 138	1	30
Methylene Chloride	0.32	U	20.0	19.0		ug/L		95	74 - 127	3	30

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QC Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Method: 8260D - Volatile Organics (GC/MS) (Continued)

Lab Sample ID: 460-314572-1 MSD

Matrix: Water

Analysis Batch: 1005622

Client Sample ID: GW-11222397-103024-ES-07

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Styrene	0.42	U	20.0	18.1		ug/L		91	82 - 127	3	30
Tetrachloroethene	0.67	J	20.0	19.2		ug/L		93	70 - 127	0	30
Toluene	0.38	U	20.0	17.4		ug/L		87	78 - 120	5	30
trans-1,2-Dichloroethene	0.24	U	20.0	19.5		ug/L		97	70 - 126	1	30
trans-1,3-Dichloropropene	0.22	U	20.0	18.5		ug/L		93	71 - 127	3	30
Trichloroethene	0.35	J	20.0	20.0		ug/L		98	73 - 121	6	30
Trichlorofluoromethane	2.9		20.0	24.1		ug/L		106	62 - 134	11	30
Vinyl chloride	0.17	U	20.0	18.3		ug/L		92	55 - 144	8	30
Xylenes, Total	0.65	U	40.0	35.5		ug/L		89	80 - 120	4	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 128
4-Bromofluorobenzene	101		76 - 120
Dibromofluoromethane (Surr)	104		77 - 132
Toluene-d8 (Surr)	95		80 - 120

Lab Sample ID: MB 460-1005690/9

Matrix: Water

Analysis Batch: 1005690

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			11/07/24 09:28	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/07/24 09:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/07/24 09:28	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/07/24 09:28	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/07/24 09:28	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/07/24 09:28	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/07/24 09:28	1
1,2,4-Trimethylbenzene	0.37	U	1.0	0.37	ug/L			11/07/24 09:28	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/07/24 09:28	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/07/24 09:28	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/07/24 09:28	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			11/07/24 09:28	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/07/24 09:28	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/07/24 09:28	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/07/24 09:28	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			11/07/24 09:28	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/07/24 09:28	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			11/07/24 09:28	1
Acetone	4.4	U	5.0	4.4	ug/L			11/07/24 09:28	1
Benzene	0.20	U	1.0	0.20	ug/L			11/07/24 09:28	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			11/07/24 09:28	1
Bromoform	0.54	U	1.0	0.54	ug/L			11/07/24 09:28	1
Bromomethane	0.55	U	1.0	0.55	ug/L			11/07/24 09:28	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			11/07/24 09:28	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			11/07/24 09:28	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/07/24 09:28	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/07/24 09:28	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Method: 8260D - Volatile Organics (GC/MS) (Continued)

Lab Sample ID: MB 460-1005690/9

Matrix: Water

Analysis Batch: 1005690

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	0.33	U	1.0	0.33	ug/L			11/07/24 09:28	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/07/24 09:28	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			11/07/24 09:28	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/07/24 09:28	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			11/07/24 09:28	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			11/07/24 09:28	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/07/24 09:28	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			11/07/24 09:28	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			11/07/24 09:28	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/07/24 09:28	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/07/24 09:28	1
Methylcyclohexane	0.71	U	1.0	0.71	ug/L			11/07/24 09:28	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			11/07/24 09:28	1
Styrene	0.42	U	1.0	0.42	ug/L			11/07/24 09:28	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			11/07/24 09:28	1
Toluene	0.38	U	1.0	0.38	ug/L			11/07/24 09:28	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/07/24 09:28	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/07/24 09:28	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			11/07/24 09:28	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			11/07/24 09:28	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			11/07/24 09:28	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			11/07/24 09:28	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		11/07/24 09:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 128		11/07/24 09:28	1
4-Bromofluorobenzene	99		76 - 120		11/07/24 09:28	1
Dibromofluoromethane (Surr)	103		77 - 132		11/07/24 09:28	1
Toluene-d8 (Surr)	101		80 - 120		11/07/24 09:28	1

Lab Sample ID: LCS 460-1005690/4

Matrix: Water

Analysis Batch: 1005690

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	18.7		ug/L		94	72 - 128
1,1,2,2-Tetrachloroethane	20.0	19.3		ug/L		97	63 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.4		ug/L		92	65 - 142
1,1,2-Trichloroethane	20.0	19.5		ug/L		97	74 - 125
1,1-Dichloroethane	20.0	19.0		ug/L		95	73 - 130
1,1-Dichloroethene	20.0	18.5		ug/L		93	68 - 133
1,2,4-Trichlorobenzene	20.0	19.2		ug/L		96	67 - 132
1,2,4-Trimethylbenzene	20.0	18.8		ug/L		94	75 - 125
1,2-Dibromo-3-Chloropropane	20.0	19.2		ug/L		96	58 - 132
1,2-Dibromoethane	20.0	18.4		ug/L		92	79 - 126

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QC Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Method: 8260D - Volatile Organics (GC/MS) (Continued)

Lab Sample ID: LCS 460-1005690/4

Matrix: Water

Analysis Batch: 1005690

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	20.0	18.9		ug/L		95	80 - 120
1,2-Dichloroethane	20.0	19.6		ug/L		98	66 - 129
1,2-Dichloropropane	20.0	18.9		ug/L		94	72 - 128
1,3-Dichlorobenzene	20.0	19.1		ug/L		96	80 - 120
1,4-Dichlorobenzene	20.0	18.7		ug/L		93	80 - 120
2-Butanone (MEK)	100	96.6		ug/L		97	65 - 142
2-Hexanone	100	96.4		ug/L		96	72 - 134
4-Methyl-2-pentanone (MIBK)	100	97.3		ug/L		97	77 - 130
Acetone	100	91.6		ug/L		92	60 - 133
Benzene	20.0	18.7		ug/L		93	71 - 126
Dichlorobromomethane	20.0	18.3		ug/L		92	76 - 121
Bromoform	20.0	19.2		ug/L		96	58 - 128
Bromomethane	20.0	19.5		ug/L		97	33 - 150
Carbon disulfide	20.0	18.2		ug/L		91	35 - 150
Carbon tetrachloride	20.0	19.5		ug/L		98	65 - 131
Chlorobenzene	20.0	18.5		ug/L		93	80 - 120
Chloroethane	20.0	17.9		ug/L		89	54 - 150
Chloroform	20.0	19.7		ug/L		99	78 - 125
Chloromethane	20.0	17.5		ug/L		88	43 - 149
cis-1,2-Dichloroethene	20.0	19.2		ug/L		96	78 - 121
cis-1,3-Dichloropropene	20.0	19.5		ug/L		98	74 - 125
Cyclohexane	20.0	18.2		ug/L		91	64 - 142
Chlorodibromomethane	20.0	18.8		ug/L		94	73 - 121
Dichlorodifluoromethane	20.0	16.4		ug/L		82	38 - 144
Ethylbenzene	20.0	18.6		ug/L		93	78 - 120
Isopropylbenzene	20.0	18.7		ug/L		94	79 - 125
Methyl acetate	40.0	41.4		ug/L		104	50 - 147
Methyl tert-butyl ether	20.0	18.9		ug/L		94	72 - 131
Methylcyclohexane	20.0	17.5		ug/L		87	63 - 138
Methylene Chloride	20.0	19.2		ug/L		96	74 - 127
Styrene	20.0	18.0		ug/L		90	82 - 127
Tetrachloroethene	20.0	18.2		ug/L		91	70 - 127
Toluene	20.0	18.9		ug/L		95	78 - 120
trans-1,2-Dichloroethene	20.0	18.6		ug/L		93	70 - 126
trans-1,3-Dichloropropene	20.0	18.8		ug/L		94	71 - 127
Trichloroethene	20.0	18.5		ug/L		92	73 - 121
Trichlorofluoromethane	20.0	16.1		ug/L		81	62 - 134
Vinyl chloride	20.0	17.6		ug/L		88	55 - 144
Xylenes, Total	40.0	38.3		ug/L		96	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 128
4-Bromofluorobenzene	101		76 - 120
Dibromofluoromethane (Surr)	103		77 - 132
Toluene-d8 (Surr)	102		80 - 120

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QC Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Method: 8260D - Volatile Organics (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1005690/5

Matrix: Water

Analysis Batch: 1005690

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	20.1		ug/L		100	72 - 128	7	30
1,1,2,2-Tetrachloroethane	20.0	23.4		ug/L		117	63 - 139	19	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.5		ug/L		103	65 - 142	11	30
1,1,2-Trichloroethane	20.0	22.3		ug/L		111	74 - 125	13	30
1,1-Dichloroethane	20.0	21.0		ug/L		105	73 - 130	10	30
1,1-Dichloroethene	20.0	21.8		ug/L		109	68 - 133	16	30
1,2,4-Trichlorobenzene	20.0	23.0		ug/L		115	67 - 132	18	30
1,2,4-Trimethylbenzene	20.0	21.3		ug/L		106	75 - 125	12	30
1,2-Dibromo-3-Chloropropane	20.0	22.9		ug/L		115	58 - 132	18	30
1,2-Dibromoethane	20.0	22.0		ug/L		110	79 - 126	18	30
1,2-Dichlorobenzene	20.0	21.3		ug/L		106	80 - 120	12	30
1,2-Dichloroethane	20.0	21.5		ug/L		108	66 - 129	9	30
1,2-Dichloropropane	20.0	21.1		ug/L		105	72 - 128	11	30
1,3-Dichlorobenzene	20.0	22.0		ug/L		110	80 - 120	14	30
1,4-Dichlorobenzene	20.0	21.2		ug/L		106	80 - 120	13	30
2-Butanone (MEK)	100	107		ug/L		107	65 - 142	10	30
2-Hexanone	100	112		ug/L		112	72 - 134	15	30
4-Methyl-2-pentanone (MIBK)	100	113		ug/L		113	77 - 130	15	30
Acetone	100	103		ug/L		103	60 - 133	12	30
Benzene	20.0	21.0		ug/L		105	71 - 126	11	30
Dichlorobromomethane	20.0	20.9		ug/L		104	76 - 121	13	30
Bromoform	20.0	21.5		ug/L		108	58 - 128	11	30
Bromomethane	20.0	21.3		ug/L		107	33 - 150	9	30
Carbon disulfide	20.0	20.0		ug/L		100	35 - 150	9	30
Carbon tetrachloride	20.0	20.7		ug/L		104	65 - 131	6	30
Chlorobenzene	20.0	21.3		ug/L		106	80 - 120	14	30
Chloroethane	20.0	19.1		ug/L		95	54 - 150	6	30
Chloroform	20.0	21.4		ug/L		107	78 - 125	8	30
Chloromethane	20.0	19.4		ug/L		97	43 - 149	10	30
cis-1,2-Dichloroethene	20.0	21.1		ug/L		105	78 - 121	9	30
cis-1,3-Dichloropropene	20.0	21.9		ug/L		110	74 - 125	12	30
Cyclohexane	20.0	20.7		ug/L		104	64 - 142	13	30
Chlorodibromomethane	20.0	21.7		ug/L		109	73 - 121	14	30
Dichlorodifluoromethane	20.0	18.3		ug/L		92	38 - 144	11	30
Ethylbenzene	20.0	21.2		ug/L		106	78 - 120	13	30
Isopropylbenzene	20.0	21.5		ug/L		107	79 - 125	14	30
Methyl acetate	40.0	44.4		ug/L		111	50 - 147	7	30
Methyl tert-butyl ether	20.0	22.3		ug/L		111	72 - 131	17	30
Methylcyclohexane	20.0	19.6		ug/L		98	63 - 138	12	30
Methylene Chloride	20.0	21.4		ug/L		107	74 - 127	11	30
Styrene	20.0	21.2		ug/L		106	82 - 127	16	30
Tetrachloroethene	20.0	20.6		ug/L		103	70 - 127	13	30
Toluene	20.0	21.2		ug/L		106	78 - 120	11	30
trans-1,2-Dichloroethene	20.0	21.2		ug/L		106	70 - 126	13	30
trans-1,3-Dichloropropene	20.0	21.9		ug/L		109	71 - 127	15	30
Trichloroethene	20.0	20.8		ug/L		104	73 - 121	12	30
Trichlorofluoromethane	20.0	18.8		ug/L		94	62 - 134	15	30
Vinyl chloride	20.0	19.8		ug/L		99	55 - 144	12	30

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QC Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Method: 8260D - Volatile Organics (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1005690/5

Matrix: Water

Analysis Batch: 1005690

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total	40.0	41.7		ug/L		104	80 - 120	9	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 128
4-Bromofluorobenzene	99		76 - 120
Dibromofluoromethane (Surr)	98		77 - 132
Toluene-d8 (Surr)	98		80 - 120

Method: 8270C - Semivolatile Organics (GC/MS)

Lab Sample ID: MB 460-1004948/1-A

Matrix: Water

Analysis Batch: 1004975

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1004948

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	1.2	U	10	1.2	ug/L		11/02/24 10:42	11/02/24 14:53	1
2,2'-oxybis[1-chloropropane]	0.63	U	10	0.63	ug/L		11/02/24 10:42	11/02/24 14:53	1
2,4,5-Trichlorophenol	0.88	U	10	0.88	ug/L		11/02/24 10:42	11/02/24 14:53	1
2,4,6-Trichlorophenol	0.86	U	10	0.86	ug/L		11/02/24 10:42	11/02/24 14:53	1
2,4-Dichlorophenol	1.1	U	10	1.1	ug/L		11/02/24 10:42	11/02/24 14:53	1
2,4-Dimethylphenol	0.62	U	10	0.62	ug/L		11/02/24 10:42	11/02/24 14:53	1
2,4-Dinitrophenol	2.6	U	40	2.6	ug/L		11/02/24 10:42	11/02/24 14:53	1
2,4-Dinitrotoluene	1.0	U	10	1.0	ug/L		11/02/24 10:42	11/02/24 14:53	1
2,6-Dinitrotoluene	0.83	U	2.0	0.83	ug/L		11/02/24 10:42	11/02/24 14:53	1
2-Chloronaphthalene	1.2	U	10	1.2	ug/L		11/02/24 10:42	11/02/24 14:53	1
2-Chlorophenol	0.38	U	10	0.38	ug/L		11/02/24 10:42	11/02/24 14:53	1
2-Methylnaphthalene	0.53	U	10	0.53	ug/L		11/02/24 10:42	11/02/24 14:53	1
2-Methylphenol	0.67	U	10	0.67	ug/L		11/02/24 10:42	11/02/24 14:53	1
2-Nitroaniline	0.47	U	10	0.47	ug/L		11/02/24 10:42	11/02/24 14:53	1
2-Nitrophenol	0.75	U	10	0.75	ug/L		11/02/24 10:42	11/02/24 14:53	1
3,3'-Dichlorobenzidine	1.4	U	10	1.4	ug/L		11/02/24 10:42	11/02/24 14:53	1
3-Nitroaniline	1.9	U	10	1.9	ug/L		11/02/24 10:42	11/02/24 14:53	1
4,6-Dinitro-2-methylphenol	3.0	U	20	3.0	ug/L		11/02/24 10:42	11/02/24 14:53	1
4-Bromophenyl phenyl ether	0.75	U	10	0.75	ug/L		11/02/24 10:42	11/02/24 14:53	1
4-Chloro-3-methylphenol	0.58	U	10	0.58	ug/L		11/02/24 10:42	11/02/24 14:53	1
4-Chlorophenyl phenyl ether	1.3	U	10	1.3	ug/L		11/02/24 10:42	11/02/24 14:53	1
4-Methylphenol	0.65	U	10	0.65	ug/L		11/02/24 10:42	11/02/24 14:53	1
4-Nitroaniline	1.2	U	10	1.2	ug/L		11/02/24 10:42	11/02/24 14:53	1
4-Nitrophenol	4.0	U	20	4.0	ug/L		11/02/24 10:42	11/02/24 14:53	1
Acenaphthene	1.1	U	10	1.1	ug/L		11/02/24 10:42	11/02/24 14:53	1
Acenaphthylene	0.82	U	10	0.82	ug/L		11/02/24 10:42	11/02/24 14:53	1
Acetophenone	2.3	U	10	2.3	ug/L		11/02/24 10:42	11/02/24 14:53	1
Anthracene	1.3	U	10	1.3	ug/L		11/02/24 10:42	11/02/24 14:53	1
Atrazine	1.3	U	2.0	1.3	ug/L		11/02/24 10:42	11/02/24 14:53	1
Benzaldehyde	2.1	U	10	2.1	ug/L		11/02/24 10:42	11/02/24 14:53	1
Benzo[a]anthracene	0.59	U	1.0	0.59	ug/L		11/02/24 10:42	11/02/24 14:53	1
Benzo[a]pyrene	0.41	U	1.0	0.41	ug/L		11/02/24 10:42	11/02/24 14:53	1
Benzo[b]fluoranthene	0.68	U	2.0	0.68	ug/L		11/02/24 10:42	11/02/24 14:53	1
Benzo[g,h,i]perylene	0.70	U	10	0.70	ug/L		11/02/24 10:42	11/02/24 14:53	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Method: 8270C - Semivolatile Organics (GC/MS) (Continued)

Lab Sample ID: MB 460-1004948/1-A

Matrix: Water

Analysis Batch: 1004975

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1004948

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	0.67	U	1.0	0.67	ug/L		11/02/24 10:42	11/02/24 14:53	1
Bis(2-chloroethoxy)methane	0.59	U	10	0.59	ug/L		11/02/24 10:42	11/02/24 14:53	1
Bis(2-chloroethyl)ether	0.63	U	1.0	0.63	ug/L		11/02/24 10:42	11/02/24 14:53	1
Bis(2-ethylhexyl) phthalate	0.80	U	2.0	0.80	ug/L		11/02/24 10:42	11/02/24 14:53	1
Butyl benzyl phthalate	0.85	U	10	0.85	ug/L		11/02/24 10:42	11/02/24 14:53	1
Caprolactam	2.2	U	10	2.2	ug/L		11/02/24 10:42	11/02/24 14:53	1
Carbazole	0.68	U	10	0.68	ug/L		11/02/24 10:42	11/02/24 14:53	1
Chrysene	0.91	U	2.0	0.91	ug/L		11/02/24 10:42	11/02/24 14:53	1
Dibenz(a,h)anthracene	0.72	U	1.0	0.72	ug/L		11/02/24 10:42	11/02/24 14:53	1
Dibenzofuran	1.1	U	10	1.1	ug/L		11/02/24 10:42	11/02/24 14:53	1
Diethyl phthalate	0.98	U	10	0.98	ug/L		11/02/24 10:42	11/02/24 14:53	1
Dimethyl phthalate	0.77	U	10	0.77	ug/L		11/02/24 10:42	11/02/24 14:53	1
Di-n-butyl phthalate	0.84	U	10	0.84	ug/L		11/02/24 10:42	11/02/24 14:53	1
Di-n-octyl phthalate	0.75	U	10	0.75	ug/L		11/02/24 10:42	11/02/24 14:53	1
Fluoranthene	0.84	U	10	0.84	ug/L		11/02/24 10:42	11/02/24 14:53	1
Fluorene	0.91	U	10	0.91	ug/L		11/02/24 10:42	11/02/24 14:53	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		11/02/24 10:42	11/02/24 14:53	1
Hexachlorobutadiene	0.78	U	1.0	0.78	ug/L		11/02/24 10:42	11/02/24 14:53	1
Hexachlorocyclopentadiene	3.6	U	10	3.6	ug/L		11/02/24 10:42	11/02/24 14:53	1
Hexachloroethane	0.80	U	2.0	0.80	ug/L		11/02/24 10:42	11/02/24 14:53	1
Indeno[1,2,3-cd]pyrene	0.94	U	2.0	0.94	ug/L		11/02/24 10:42	11/02/24 14:53	1
Isophorone	0.80	U	10	0.80	ug/L		11/02/24 10:42	11/02/24 14:53	1
Naphthalene	0.54	U	2.0	0.54	ug/L		11/02/24 10:42	11/02/24 14:53	1
Nitrobenzene	0.57	U	1.0	0.57	ug/L		11/02/24 10:42	11/02/24 14:53	1
N-Nitrosodi-n-propylamine	0.43	U	1.0	0.43	ug/L		11/02/24 10:42	11/02/24 14:53	1
N-Nitrosodiphenylamine	0.89	U	10	0.89	ug/L		11/02/24 10:42	11/02/24 14:53	1
Pentachlorophenol	1.4	U	20	1.4	ug/L		11/02/24 10:42	11/02/24 14:53	1
Phenanthrene	1.3	U	10	1.3	ug/L		11/02/24 10:42	11/02/24 14:53	1
Phenol	0.29	U	10	0.29	ug/L		11/02/24 10:42	11/02/24 14:53	1
Pyrene	1.6	U	10	1.6	ug/L		11/02/24 10:42	11/02/24 14:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		37 - 150	11/02/24 10:42	11/02/24 14:53	1
2-Fluorobiphenyl	73		46 - 139	11/02/24 10:42	11/02/24 14:53	1
2-Fluorophenol (Surr)	36		16 - 80	11/02/24 10:42	11/02/24 14:53	1
Nitrobenzene-d5 (Surr)	73		51 - 145	11/02/24 10:42	11/02/24 14:53	1
Phenol-d5 (Surr)	25		10 - 56	11/02/24 10:42	11/02/24 14:53	1
Terphenyl-d14 (Surr)	23		13 - 159	11/02/24 10:42	11/02/24 14:53	1

Lab Sample ID: LCS 460-1004948/2-A

Matrix: Water

Analysis Batch: 1004975

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1004948

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	80.0	64.1		ug/L		80	52 - 129
2,2'-oxybis[1-chloropropane]	80.0	60.2		ug/L		75	47 - 133
2,4,5-Trichlorophenol	80.0	66.1		ug/L		83	63 - 124
2,4,6-Trichlorophenol	80.0	66.8		ug/L		84	66 - 131

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QC Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Method: 8270C - Semivolatile Organics (GC/MS) (Continued)

Lab Sample ID: LCS 460-1004948/2-A

Matrix: Water

Analysis Batch: 1004975

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1004948

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dichlorophenol	80.0	62.0		ug/L		77	60 - 120
2,4-Dimethylphenol	80.0	68.9		ug/L		86	37 - 120
2,4-Dinitrophenol	160	154		ug/L		96	50 - 148
2,4-Dinitrotoluene	80.0	77.3		ug/L		97	71 - 142
2,6-Dinitrotoluene	80.0	73.2		ug/L		91	71 - 136
2-Chloronaphthalene	80.0	65.2		ug/L		81	50 - 129
2-Chlorophenol	80.0	54.6		ug/L		68	49 - 120
2-Methylnaphthalene	80.0	61.4		ug/L		77	42 - 134
2-Methylphenol	80.0	45.7		ug/L		57	35 - 120
2-Nitroaniline	80.0	61.2		ug/L		76	57 - 134
2-Nitrophenol	80.0	66.8		ug/L		84	62 - 124
3,3'-Dichlorobenzidine	80.0	65.6		ug/L		82	55 - 145
3-Nitroaniline	80.0	56.8		ug/L		71	51 - 120
4,6-Dinitro-2-methylphenol	160	146		ug/L		91	65 - 145
4-Bromophenyl phenyl ether	80.0	70.1		ug/L		88	59 - 132
4-Chloro-3-methylphenol	80.0	57.2		ug/L		71	54 - 120
4-Chlorophenyl phenyl ether	80.0	71.4		ug/L		89	65 - 127
4-Methylphenol	80.0	41.7		ug/L		52	28 - 120
4-Nitroaniline	80.0	68.4		ug/L		85	57 - 135
4-Nitrophenol	160	53.7		ug/L		34	10 - 120
Acenaphthene	80.0	66.4		ug/L		83	62 - 127
Acenaphthylene	80.0	71.7		ug/L		90	58 - 122
Acetophenone	80.0	64.5		ug/L		81	65 - 125
Anthracene	80.0	68.1		ug/L		85	67 - 127
Atrazine	40.0	55.5		ug/L		139	13 - 150
Benzaldehyde	40.0	46.8		ug/L		117	10 - 150
Benzo[a]anthracene	80.0	68.8		ug/L		86	71 - 131
Benzo[a]pyrene	80.0	75.5		ug/L		94	75 - 148
Benzo[b]fluoranthene	80.0	70.9		ug/L		89	70 - 140
Benzo[g,h,i]perylene	80.0	76.1		ug/L		95	52 - 143
Benzo[k]fluoranthene	80.0	68.9		ug/L		86	71 - 140
Bis(2-chloroethoxy)methane	80.0	66.3		ug/L		83	63 - 122
Bis(2-chloroethyl)ether	80.0	65.2		ug/L		81	61 - 125
Bis(2-ethylhexyl) phthalate	80.0	71.9		ug/L		90	65 - 144
Butyl benzyl phthalate	80.0	68.6		ug/L		86	67 - 141
Caprolactam	40.0	10.3		ug/L		26	10 - 120
Carbazole	80.0	66.2		ug/L		83	68 - 132
Chrysene	80.0	67.1		ug/L		84	70 - 132
Dibenz(a,h)anthracene	80.0	71.7		ug/L		90	53 - 150
Dibenzofuran	80.0	66.4		ug/L		83	64 - 125
Diethyl phthalate	80.0	68.5		ug/L		86	67 - 131
Dimethyl phthalate	80.0	70.9		ug/L		89	67 - 129
Di-n-butyl phthalate	80.0	70.8		ug/L		89	71 - 139
Di-n-octyl phthalate	80.0	67.1		ug/L		84	51 - 150
Fluoranthene	80.0	71.9		ug/L		90	69 - 137
Fluorene	80.0	69.6		ug/L		87	67 - 125
Hexachlorobenzene	80.0	72.0		ug/L		90	62 - 135
Hexachlorobutadiene	80.0	66.8		ug/L		83	10 - 147
Hexachlorocyclopentadiene	80.0	84.9		ug/L		106	10 - 135

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QC Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Method: 8270C - Semivolatile Organics (GC/MS) (Continued)

Lab Sample ID: LCS 460-1004948/2-A

Matrix: Water

Analysis Batch: 1004975

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1004948

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachloroethane	80.0	60.6		ug/L		76	10 - 138
Indeno[1,2,3-cd]pyrene	80.0	75.1		ug/L		94	59 - 150
Isophorone	80.0	67.7		ug/L		85	65 - 128
Naphthalene	80.0	66.9		ug/L		84	39 - 126
Nitrobenzene	80.0	69.8		ug/L		87	66 - 127
N-Nitrosodi-n-propylamine	80.0	66.0		ug/L		82	63 - 133
N-Nitrosodiphenylamine	80.0	64.6		ug/L		81	66 - 128
Pentachlorophenol	160	141		ug/L		88	60 - 140
Phenanthrene	80.0	67.1		ug/L		84	68 - 126
Phenol	80.0	23.1		ug/L		29	10 - 80
Pyrene	80.0	69.7		ug/L		87	60 - 137

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	99		37 - 150
2-Fluorobiphenyl	86		46 - 139
2-Fluorophenol (Surr)	41		16 - 80
Nitrobenzene-d5 (Surr)	85		51 - 145
Phenol-d5 (Surr)	28		10 - 56
Terphenyl-d14 (Surr)	79		13 - 159

Lab Sample ID: LCSD 460-1004948/3-A

Matrix: Water

Analysis Batch: 1004975

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1004948

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	80.0	65.9		ug/L		82	52 - 129	3	30
2,2'-oxybis[1-chloropropane]	80.0	62.5		ug/L		78	47 - 133	4	30
2,4,5-Trichlorophenol	80.0	68.7		ug/L		86	63 - 124	4	30
2,4,6-Trichlorophenol	80.0	68.3		ug/L		85	66 - 131	2	30
2,4-Dichlorophenol	80.0	64.2		ug/L		80	60 - 120	4	30
2,4-Dimethylphenol	80.0	71.9		ug/L		90	37 - 120	4	30
2,4-Dinitrophenol	160	160		ug/L		100	50 - 148	4	30
2,4-Dinitrotoluene	80.0	77.6		ug/L		97	71 - 142	0	30
2,6-Dinitrotoluene	80.0	75.5		ug/L		94	71 - 136	3	30
2-Chloronaphthalene	80.0	66.4		ug/L		83	50 - 129	2	30
2-Chlorophenol	80.0	55.9		ug/L		70	49 - 120	2	30
2-Methylnaphthalene	80.0	62.8		ug/L		79	42 - 134	2	30
2-Methylphenol	80.0	48.3		ug/L		60	35 - 120	6	30
2-Nitroaniline	80.0	62.5		ug/L		78	57 - 134	2	30
2-Nitrophenol	80.0	68.8		ug/L		86	62 - 124	3	30
3,3'-Dichlorobenzidine	80.0	68.0		ug/L		85	55 - 145	3	30
3-Nitroaniline	80.0	58.8		ug/L		74	51 - 120	3	30
4,6-Dinitro-2-methylphenol	160	151		ug/L		94	65 - 145	3	30
4-Bromophenyl phenyl ether	80.0	71.9		ug/L		90	59 - 132	2	30
4-Chloro-3-methylphenol	80.0	59.2		ug/L		74	54 - 120	3	30
4-Chlorophenyl phenyl ether	80.0	72.1		ug/L		90	65 - 127	1	30
4-Methylphenol	80.0	43.6		ug/L		54	28 - 120	4	30
4-Nitroaniline	80.0	67.6		ug/L		84	57 - 135	1	30

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QC Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Method: 8270C - Semivolatile Organics (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1004948/3-A

Matrix: Water

Analysis Batch: 1004975

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1004948

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Nitrophenol	160	46.2		ug/L		29	10 - 120	15	30
Acenaphthene	80.0	67.6		ug/L		85	62 - 127	2	30
Acenaphthylene	80.0	73.0		ug/L		91	58 - 122	2	30
Acetophenone	80.0	67.6		ug/L		84	65 - 125	5	30
Anthracene	80.0	68.7		ug/L		86	67 - 127	1	30
Atrazine	40.0	60.1		ug/L		150	13 - 150	8	30
Benzaldehyde	40.0	47.7		ug/L		119	10 - 150	2	30
Benzo[a]anthracene	80.0	68.4		ug/L		86	71 - 131	0	30
Benzo[a]pyrene	80.0	74.6		ug/L		93	75 - 148	1	30
Benzo[b]fluoranthene	80.0	72.0		ug/L		90	70 - 140	1	30
Benzo[g,h,i]perylene	80.0	78.0		ug/L		98	52 - 143	2	30
Benzo[k]fluoranthene	80.0	73.2		ug/L		92	71 - 140	6	30
Bis(2-chloroethoxy)methane	80.0	67.5		ug/L		84	63 - 122	2	30
Bis(2-chloroethyl)ether	80.0	66.2		ug/L		83	61 - 125	2	30
Bis(2-ethylhexyl) phthalate	80.0	74.6		ug/L		93	65 - 144	4	30
Butyl benzyl phthalate	80.0	69.6		ug/L		87	67 - 141	2	30
Caprolactam	40.0	11.1		ug/L		28	10 - 120	8	30
Carbazole	80.0	66.7		ug/L		83	68 - 132	1	30
Chrysene	80.0	66.5		ug/L		83	70 - 132	1	30
Dibenz(a,h)anthracene	80.0	73.1		ug/L		91	53 - 150	2	30
Dibenzofuran	80.0	68.2		ug/L		85	64 - 125	3	30
Diethyl phthalate	80.0	69.3		ug/L		87	67 - 131	1	30
Dimethyl phthalate	80.0	72.4		ug/L		91	67 - 129	2	30
Di-n-butyl phthalate	80.0	71.3		ug/L		89	71 - 139	1	30
Di-n-octyl phthalate	80.0	68.4		ug/L		86	51 - 150	2	30
Fluoranthene	80.0	70.8		ug/L		88	69 - 137	2	30
Fluorene	80.0	71.0		ug/L		89	67 - 125	2	30
Hexachlorobenzene	80.0	73.1		ug/L		91	62 - 135	2	30
Hexachlorobutadiene	80.0	68.8		ug/L		86	10 - 147	3	30
Hexachlorocyclopentadiene	80.0	86.2		ug/L		108	10 - 135	2	30
Hexachloroethane	80.0	63.3		ug/L		79	10 - 138	4	30
Indeno[1,2,3-cd]pyrene	80.0	76.8		ug/L		96	59 - 150	2	30
Isophorone	80.0	69.2		ug/L		87	65 - 128	2	30
Naphthalene	80.0	68.5		ug/L		86	39 - 126	2	30
Nitrobenzene	80.0	72.7		ug/L		91	66 - 127	4	30
N-Nitrosodi-n-propylamine	80.0	67.3		ug/L		84	63 - 133	2	30
N-Nitrosodiphenylamine	80.0	65.1		ug/L		81	66 - 128	1	30
Pentachlorophenol	160	142		ug/L		89	60 - 140	1	30
Phenanthrene	80.0	67.8		ug/L		85	68 - 126	1	30
Phenol	80.0	23.5		ug/L		29	10 - 80	2	30
Pyrene	80.0	70.0		ug/L		87	60 - 137	0	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	101		37 - 150
2-Fluorobiphenyl	87		46 - 139
2-Fluorophenol (Surr)	41		16 - 80
Nitrobenzene-d5 (Surr)	87		51 - 145
Phenol-d5 (Surr)	28		10 - 56

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QC Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Method: 8270C - Semivolatile Organics (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1004948/3-A

Matrix: Water

Analysis Batch: 1004975

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1004948

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Terphenyl-d14 (Surr)	81		13 - 159

Lab Sample ID: 460-314605-D-1-A MS

Matrix: Water

Analysis Batch: 1004975

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 1004948

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	1.2	U	40.0	39.2		ug/L		98	52 - 129
2,2'-oxybis[1-chloropropane]	0.63	U	40.0	37.6		ug/L		94	47 - 133
2,4,5-Trichlorophenol	0.88	U	40.0	43.0		ug/L		108	63 - 124
2,4,6-Trichlorophenol	0.86	U	40.0	41.6		ug/L		104	66 - 131
2,4-Dichlorophenol	1.1	U	40.0	39.5		ug/L		99	60 - 120
2,4-Dimethylphenol	0.62	U	40.0	45.1		ug/L		113	37 - 120
2,4-Dinitrophenol	2.6	U	80.0	95.2		ug/L		119	50 - 148
2,4-Dinitrotoluene	1.0	U	40.0	46.9		ug/L		117	71 - 142
2,6-Dinitrotoluene	0.83	U	40.0	44.9		ug/L		112	71 - 136
2-Chloronaphthalene	1.2	U	40.0	40.0		ug/L		100	50 - 129
2-Chlorophenol	0.38	U	40.0	35.6		ug/L		89	49 - 120
2-Methylnaphthalene	0.53	U	40.0	37.0		ug/L		92	42 - 134
2-Methylphenol	0.67	U	40.0	31.7		ug/L		79	35 - 120
2-Nitroaniline	0.47	U	40.0	38.1		ug/L		95	57 - 134
2-Nitrophenol	0.75	U	40.0	42.1		ug/L		105	62 - 124
3,3'-Dichlorobenzidine	1.4	U	40.0	36.0		ug/L		90	55 - 145
3-Nitroaniline	1.9	U	40.0	34.9		ug/L		87	51 - 120
4,6-Dinitro-2-methylphenol	3.0	U	80.0	86.3		ug/L		108	65 - 145
4-Bromophenyl phenyl ether	0.75	U	40.0	42.6		ug/L		107	59 - 132
4-Chloro-3-methylphenol	0.58	U	40.0	37.2		ug/L		93	54 - 120
4-Chlorophenyl phenyl ether	1.3	U	40.0	43.6		ug/L		109	65 - 127
4-Methylphenol	0.65	U	40.0	29.2		ug/L		73	28 - 120
4-Nitroaniline	1.2	U	40.0	41.5		ug/L		104	57 - 135
4-Nitrophenol	4.0	U	80.0	39.0		ug/L		49	10 - 120
Acenaphthene	1.1	U	40.0	40.9		ug/L		102	62 - 127
Acenaphthylene	0.82	U	40.0	44.2		ug/L		110	58 - 122
Acetophenone	2.3	U	40.0	39.6		ug/L		99	65 - 125
Anthracene	1.3	U	40.0	40.6		ug/L		102	67 - 127
Atrazine	1.3	U	40.0	58.3	E	ug/L		146	13 - 150
Benzaldehyde	2.1	U	40.0	45.1	E	ug/L		113	10 - 150
Benzo[a]anthracene	0.59	U	40.0	40.2		ug/L		100	71 - 131
Benzo[a]pyrene	0.41	U	40.0	44.2		ug/L		111	75 - 148
Benzo[b]fluoranthene	0.68	U	40.0	41.7		ug/L		104	70 - 140
Benzo[g,h,i]perylene	0.70	U	40.0	45.1		ug/L		113	52 - 143
Benzo[k]fluoranthene	0.67	U	40.0	42.0		ug/L		105	71 - 140
Bis(2-chloroethoxy)methane	0.59	U	40.0	41.1		ug/L		103	63 - 122
Bis(2-chloroethyl)ether	0.63	U	40.0	40.1		ug/L		100	61 - 125
Bis(2-ethylhexyl) phthalate	0.80	U	40.0	44.1		ug/L		110	65 - 144
Butyl benzyl phthalate	0.85	U	40.0	42.1		ug/L		105	67 - 141
Caprolactam	2.2	U	40.0	14.5		ug/L		36	10 - 120
Carbazole	0.68	U	40.0	40.2		ug/L		101	68 - 132

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QC Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Method: 8270C - Semivolatile Organics (GC/MS) (Continued)

Lab Sample ID: 460-314605-D-1-A MS

Matrix: Water

Analysis Batch: 1004975

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 1004948

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chrysene	0.91	U	40.0	40.2		ug/L		101	70 - 132
Dibenz(a,h)anthracene	0.72	U	40.0	40.8		ug/L		102	53 - 150
Dibenzofuran	1.1	U	40.0	41.0		ug/L		102	64 - 125
Diethyl phthalate	0.98	U	40.0	42.5		ug/L		106	67 - 131
Dimethyl phthalate	0.77	U	40.0	43.9		ug/L		110	67 - 129
Di-n-butyl phthalate	0.84	U	40.0	42.7		ug/L		107	71 - 139
Di-n-octyl phthalate	0.75	U	40.0	41.1		ug/L		103	51 - 150
Fluoranthene	0.84	U	40.0	42.7		ug/L		107	69 - 137
Fluorene	0.91	U	40.0	42.7		ug/L		107	67 - 125
Hexachlorobenzene	0.40	U	40.0	43.3		ug/L		108	62 - 135
Hexachlorobutadiene	0.78	U	40.0	41.2		ug/L		103	10 - 147
Hexachlorocyclopentadiene	3.6	U	40.0	48.9		ug/L		122	10 - 135
Hexachloroethane	0.80	U	40.0	37.9		ug/L		95	10 - 138
Indeno[1,2,3-cd]pyrene	0.94	U	40.0	42.9		ug/L		107	59 - 150
Isophorone	0.80	U	40.0	41.6		ug/L		104	65 - 128
Naphthalene	0.54	U	40.0	40.9		ug/L		102	39 - 126
Nitrobenzene	0.57	U	40.0	43.7		ug/L		109	66 - 127
N-Nitrosodi-n-propylamine	0.43	U	40.0	41.0		ug/L		103	63 - 133
N-Nitrosodiphenylamine	0.89	U	40.0	39.5		ug/L		99	66 - 128
Pentachlorophenol	1.4	U	80.0	82.8		ug/L		104	60 - 140
Phenanthrene	1.3	U	40.0	40.5		ug/L		101	68 - 126
Phenol	0.29	U	40.0	16.5		ug/L		41	10 - 80
Pyrene	1.6	U	40.0	41.9		ug/L		105	60 - 137

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	109		37 - 150
2-Fluorobiphenyl	88		46 - 139
2-Fluorophenol (Surr)	48		16 - 80
Nitrobenzene-d5 (Surr)	86		51 - 145
Phenol-d5 (Surr)	35		10 - 56
Terphenyl-d14 (Surr)	81		13 - 159

Lab Sample ID: 460-314605-D-1-B MSD

Matrix: Water

Analysis Batch: 1004975

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 1004948

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	1.2	U	40.0	34.8		ug/L		87	52 - 129	12	30
2,2'-oxybis[1-chloropropane]	0.63	U	40.0	33.5		ug/L		84	47 - 133	12	30
2,4,5-Trichlorophenol	0.88	U	40.0	38.4		ug/L		96	63 - 124	11	30
2,4,6-Trichlorophenol	0.86	U	40.0	37.3		ug/L		93	66 - 131	11	30
2,4-Dichlorophenol	1.1	U	40.0	35.7		ug/L		89	60 - 120	10	30
2,4-Dimethylphenol	0.62	U	40.0	40.7		ug/L		102	37 - 120	10	30
2,4-Dinitrophenol	2.6	U	80.0	83.4		ug/L		104	50 - 148	13	30
2,4-Dinitrotoluene	1.0	U	40.0	42.1		ug/L		105	71 - 142	11	30
2,6-Dinitrotoluene	0.83	U	40.0	39.9		ug/L		100	71 - 136	12	30
2-Chloronaphthalene	1.2	U	40.0	35.7		ug/L		89	50 - 129	11	30
2-Chlorophenol	0.38	U	40.0	31.3		ug/L		78	49 - 120	13	30

Eurofins Edison

QC Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Method: 8270C - Semivolatile Organics (GC/MS) (Continued)

Lab Sample ID: 460-314605-D-1-B MSD

Matrix: Water

Analysis Batch: 1004975

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 1004948

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Methylnaphthalene	0.53	U	40.0	34.1		ug/L		85	42 - 134	8	30
2-Methylphenol	0.67	U	40.0	27.3		ug/L		68	35 - 120	15	30
2-Nitroaniline	0.47	U	40.0	33.6		ug/L		84	57 - 134	13	30
2-Nitrophenol	0.75	U	40.0	38.5		ug/L		96	62 - 124	9	30
3,3'-Dichlorobenzidine	1.4	U	40.0	31.9		ug/L		80	55 - 145	12	30
3-Nitroaniline	1.9	U	40.0	31.6		ug/L		79	51 - 120	10	30
4,6-Dinitro-2-methylphenol	3.0	U	80.0	77.5		ug/L		97	65 - 145	11	30
4-Bromophenyl phenyl ether	0.75	U	40.0	38.4		ug/L		96	59 - 132	11	30
4-Chloro-3-methylphenol	0.58	U	40.0	33.6		ug/L		84	54 - 120	10	30
4-Chlorophenyl phenyl ether	1.3	U	40.0	38.9		ug/L		97	65 - 127	11	30
4-Methylphenol	0.65	U	40.0	25.4		ug/L		64	28 - 120	14	30
4-Nitroaniline	1.2	U	40.0	36.5		ug/L		91	57 - 135	13	30
4-Nitrophenol	4.0	U	80.0	31.5		ug/L		39	10 - 120	21	30
Acenaphthene	1.1	U	40.0	36.6		ug/L		92	62 - 127	11	30
Acenaphthylene	0.82	U	40.0	39.2		ug/L		98	58 - 122	12	30
Acetophenone	2.3	U	40.0	36.1		ug/L		90	65 - 125	9	30
Anthracene	1.3	U	40.0	36.8		ug/L		92	67 - 127	10	30
Atrazine	1.3	U	40.0	49.9		ug/L		125	13 - 150	16	30
Benzaldehyde	2.1	U	40.0	42.6	E	ug/L		106	10 - 150	6	30
Benzo[a]anthracene	0.59	U	40.0	35.9		ug/L		90	71 - 131	11	30
Benzo[a]pyrene	0.41	U	40.0	39.2		ug/L		98	75 - 148	12	30
Benzo[b]fluoranthene	0.68	U	40.0	39.7		ug/L		99	70 - 140	5	30
Benzo[g,h,i]perylene	0.70	U	40.0	40.4		ug/L		101	52 - 143	11	30
Benzo[k]fluoranthene	0.67	U	40.0	37.1		ug/L		93	71 - 140	12	30
Bis(2-chloroethoxy)methane	0.59	U	40.0	37.1		ug/L		93	63 - 122	10	30
Bis(2-chloroethyl)ether	0.63	U	40.0	35.9		ug/L		90	61 - 125	11	30
Bis(2-ethylhexyl) phthalate	0.80	U	40.0	39.4		ug/L		99	65 - 144	11	30
Butyl benzyl phthalate	0.85	U	40.0	37.6		ug/L		94	67 - 141	11	30
Caprolactam	2.2	U	40.0	11.9		ug/L		30	10 - 120	20	30
Carbazole	0.68	U	40.0	35.6		ug/L		89	68 - 132	12	30
Chrysene	0.91	U	40.0	36.2		ug/L		91	70 - 132	10	30
Dibenz(a,h)anthracene	0.72	U	40.0	36.8		ug/L		92	53 - 150	10	30
Dibenzofuran	1.1	U	40.0	36.5		ug/L		91	64 - 125	12	30
Diethyl phthalate	0.98	U	40.0	37.1		ug/L		93	67 - 131	13	30
Dimethyl phthalate	0.77	U	40.0	39.4		ug/L		99	67 - 129	11	30
Di-n-butyl phthalate	0.84	U	40.0	38.1		ug/L		95	71 - 139	11	30
Di-n-octyl phthalate	0.75	U	40.0	36.6		ug/L		91	51 - 150	12	30
Fluoranthene	0.84	U	40.0	38.0		ug/L		95	69 - 137	12	30
Fluorene	0.91	U	40.0	38.0		ug/L		95	67 - 125	12	30
Hexachlorobenzene	0.40	U	40.0	38.9		ug/L		97	62 - 135	11	30
Hexachlorobutadiene	0.78	U	40.0	38.0		ug/L		95	10 - 147	8	30
Hexachlorocyclopentadiene	3.6	U	40.0	45.6		ug/L		114	10 - 135	7	30
Hexachloroethane	0.80	U	40.0	34.1		ug/L		85	10 - 138	11	30
Indeno[1,2,3-cd]pyrene	0.94	U	40.0	38.4		ug/L		96	59 - 150	11	30
Isophorone	0.80	U	40.0	38.0		ug/L		95	65 - 128	9	30
Naphthalene	0.54	U	40.0	36.4		ug/L		91	39 - 126	12	30
Nitrobenzene	0.57	U	40.0	38.4		ug/L		96	66 - 127	13	30
N-Nitrosodi-n-propylamine	0.43	U	40.0	37.1		ug/L		93	63 - 133	10	30
N-Nitrosodiphenylamine	0.89	U	40.0	35.1		ug/L		88	66 - 128	12	30

Eurofins Edison

QC Sample Results

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Method: 8270C - Semivolatile Organics (GC/MS) (Continued)

Lab Sample ID: 460-314605-D-1-B MSD

Matrix: Water

Analysis Batch: 1004975

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 1004948

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Pentachlorophenol	1.4	U	80.0	73.3		ug/L		92	60 - 140	12	30
Phenanthrene	1.3	U	40.0	36.4		ug/L		91	68 - 126	11	30
Phenol	0.29	U	40.0	14.2		ug/L		36	10 - 80	15	30
Pyrene	1.6	U	40.0	37.6		ug/L		94	60 - 137	11	30

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
2,4,6-Tribromophenol (Surr)	103		37 - 150
2-Fluorobiphenyl	84		46 - 139
2-Fluorophenol (Surr)	44		16 - 80
Nitrobenzene-d5 (Surr)	83		51 - 145
Phenol-d5 (Surr)	32		10 - 56
Terphenyl-d14 (Surr)	72		13 - 159

QC Association Summary

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

GC/MS VOA

Analysis Batch: 1005622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-314572-2	GW-11222397-103124-ES-08	Total/NA	Water	8260D	
460-314572-4	GW-11222397-103124-ES-10	Total/NA	Water	8260D	
460-314572-7	TB-11222397-103124-ES-13	Total/NA	Water	8260D	
MB 460-1005622/10	Method Blank	Total/NA	Water	8260D	
LCS 460-1005622/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-1005622/5	Lab Control Sample Dup	Total/NA	Water	8260D	
460-314572-1 MS	GW-11222397-103024-ES-07	Total/NA	Water	8260D	
460-314572-1 MSD	GW-11222397-103024-ES-07	Total/NA	Water	8260D	

Analysis Batch: 1005690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-314572-1	GW-11222397-103024-ES-07	Total/NA	Water	8260D	
460-314572-6	GW-11222397-103124-CT-12	Total/NA	Water	8260D	
MB 460-1005690/9	Method Blank	Total/NA	Water	8260D	
LCS 460-1005690/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-1005690/5	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 1004948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-314572-2	GW-11222397-103124-ES-08	Total/NA	Water	3510C	
460-314572-3	GW-11222397-103124-ES-09	Total/NA	Water	3510C	
460-314572-4	GW-11222397-103124-ES-10	Total/NA	Water	3510C	
460-314572-5	RB-11222397-103124-CT-11	Total/NA	Water	3510C	
460-314572-6	GW-11222397-103124-CT-12	Total/NA	Water	3510C	
MB 460-1004948/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1004948/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1004948/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
460-314605-D-1-A MS	Matrix Spike	Total/NA	Water	3510C	
460-314605-D-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 1004975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-314572-2	GW-11222397-103124-ES-08	Total/NA	Water	8270C	1004948
460-314572-3	GW-11222397-103124-ES-09	Total/NA	Water	8270C	1004948
460-314572-4	GW-11222397-103124-ES-10	Total/NA	Water	8270C	1004948
460-314572-5	RB-11222397-103124-CT-11	Total/NA	Water	8270C	1004948
460-314572-6	GW-11222397-103124-CT-12	Total/NA	Water	8270C	1004948
MB 460-1004948/1-A	Method Blank	Total/NA	Water	8270C	1004948
LCS 460-1004948/2-A	Lab Control Sample	Total/NA	Water	8270C	1004948
LCSD 460-1004948/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	1004948
460-314605-D-1-A MS	Matrix Spike	Total/NA	Water	8270C	1004948
460-314605-D-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8270C	1004948

Lab Chronicle

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Client Sample ID: GW-11222397-103024-ES-07

Lab Sample ID: 460-314572-1

Date Collected: 10/31/24 16:35

Matrix: Water

Date Received: 10/31/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	1005690	CJM	EET EDI	11/07/24 14:08

Client Sample ID: GW-11222397-103124-ES-08

Lab Sample ID: 460-314572-2

Date Collected: 10/31/24 10:40

Matrix: Water

Date Received: 10/31/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	1005622	MZS	EET EDI	11/07/24 01:47
Total/NA	Prep	3510C			1004948	ZEH	EET EDI	11/02/24 10:42
Total/NA	Analysis	8270C		1	1004975	YAH	EET EDI	11/02/24 17:42

Client Sample ID: GW-11222397-103124-ES-09

Lab Sample ID: 460-314572-3

Date Collected: 10/31/24 10:50

Matrix: Water

Date Received: 10/31/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			1004948	ZEH	EET EDI	11/02/24 10:42
Total/NA	Analysis	8270C		1	1004975	YAH	EET EDI	11/02/24 18:03

Client Sample ID: GW-11222397-103124-ES-10

Lab Sample ID: 460-314572-4

Date Collected: 10/31/24 13:55

Matrix: Water

Date Received: 10/31/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	1005622	MZS	EET EDI	11/07/24 02:10
Total/NA	Prep	3510C			1004948	ZEH	EET EDI	11/02/24 10:42
Total/NA	Analysis	8270C		1	1004975	YAH	EET EDI	11/02/24 18:45

Client Sample ID: RB-11222397-103124-CT-11

Lab Sample ID: 460-314572-5

Date Collected: 10/31/24 09:30

Matrix: Water

Date Received: 10/31/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			1004948	ZEH	EET EDI	11/02/24 10:42
Total/NA	Analysis	8270C		1	1004975	YAH	EET EDI	11/02/24 18:24

Client Sample ID: GW-11222397-103124-CT-12

Lab Sample ID: 460-314572-6

Date Collected: 10/31/24 12:05

Matrix: Water

Date Received: 10/31/24 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	1005690	CJM	EET EDI	11/07/24 15:50
Total/NA	Prep	3510C			1004948	ZEH	EET EDI	11/02/24 10:42
Total/NA	Analysis	8270C		1	1004975	YAH	EET EDI	11/02/24 19:07

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Lab Chronicle

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Client Sample ID: TB-11222397-103124-ES-13
Date Collected: 10/31/24 14:00
Date Received: 10/31/24 19:00

Lab Sample ID: 460-314572-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	1005622	MZS	EET EDI	11/06/24 22:34

Laboratory References:
EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

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Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Laboratory: Eurofins Edison

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

Authority	Program	Identification Number	Expiration Date
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-02-25

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

Analysis Method	Prep Method	Matrix	Analyte
8260D		Water	1,1,1-Trichloroethane
8260D		Water	1,1,2,2-Tetrachloroethane
8260D		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260D		Water	1,1,2-Trichloroethane
8260D		Water	1,1-Dichloroethane
8260D		Water	1,1-Dichloroethene
8260D		Water	1,2,4-Trichlorobenzene
8260D		Water	1,2,4-Trimethylbenzene
8260D		Water	1,2-Dibromo-3-Chloropropane
8260D		Water	1,2-Dibromoethane
8260D		Water	1,2-Dichlorobenzene
8260D		Water	1,2-Dichloroethane
8260D		Water	1,2-Dichloropropane
8260D		Water	1,3-Dichlorobenzene
8260D		Water	1,4-Dichlorobenzene
8260D		Water	2-Butanone (MEK)
8260D		Water	2-Hexanone
8260D		Water	4-Methyl-2-pentanone (MIBK)
8260D		Water	Acetone
8260D		Water	Benzene
8260D		Water	Bromoform
8260D		Water	Bromomethane
8260D		Water	Carbon disulfide
8260D		Water	Carbon tetrachloride
8260D		Water	Chlorobenzene
8260D		Water	Chlorodibromomethane
8260D		Water	Chloroethane
8260D		Water	Chloroform
8260D		Water	Chloromethane
8260D		Water	cis-1,2-Dichloroethene
8260D		Water	cis-1,3-Dichloropropene
8260D		Water	Cyclohexane
8260D		Water	Dichlorobromomethane
8260D		Water	Dichlorodifluoromethane
8260D		Water	Ethylbenzene
8260D		Water	Isopropylbenzene
8260D		Water	Methyl acetate
8260D		Water	Methyl tert-butyl ether
8260D		Water	Methylcyclohexane
8260D		Water	Methylene Chloride
8260D		Water	Styrene
8260D		Water	Tetrachloroethene
8260D		Water	Toluene
8260D		Water	trans-1,2-Dichloroethene
8260D		Water	trans-1,3-Dichloropropene

Eurofins Edison

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Laboratory: Eurofins Edison (Continued)

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

Authority	Program	Identification Number	Expiration Date
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8260D		Water	Trichloroethene
8260D		Water	Trichlorofluoromethane
8260D		Water	Vinyl chloride
8260D		Water	Xylenes, Total
8270C	3510C	Water	1,1'-Biphenyl
8270C	3510C	Water	2,2'-oxybis[1-chloropropane]
8270C	3510C	Water	2,4,5-Trichlorophenol
8270C	3510C	Water	2,4,6-Trichlorophenol
8270C	3510C	Water	2,4-Dichlorophenol
8270C	3510C	Water	2,4-Dimethylphenol
8270C	3510C	Water	2,4-Dinitrophenol
8270C	3510C	Water	2,4-Dinitrotoluene
8270C	3510C	Water	2,6-Dinitrotoluene
8270C	3510C	Water	2-Chloronaphthalene
8270C	3510C	Water	2-Chlorophenol
8270C	3510C	Water	2-Methylnaphthalene
8270C	3510C	Water	2-Methylphenol
8270C	3510C	Water	2-Nitroaniline
8270C	3510C	Water	2-Nitrophenol
8270C	3510C	Water	3,3'-Dichlorobenzidine
8270C	3510C	Water	3-Nitroaniline
8270C	3510C	Water	4,6-Dinitro-2-methylphenol
8270C	3510C	Water	4-Bromophenyl phenyl ether
8270C	3510C	Water	4-Chloro-3-methylphenol
8270C	3510C	Water	4-Chlorophenyl phenyl ether
8270C	3510C	Water	4-Methylphenol
8270C	3510C	Water	4-Nitroaniline
8270C	3510C	Water	4-Nitrophenol
8270C	3510C	Water	Acenaphthene
8270C	3510C	Water	Acenaphthylene
8270C	3510C	Water	Acetophenone
8270C	3510C	Water	Anthracene
8270C	3510C	Water	Atrazine
8270C	3510C	Water	Benzaldehyde
8270C	3510C	Water	Benzo[a]anthracene
8270C	3510C	Water	Benzo[a]pyrene
8270C	3510C	Water	Benzo[b]fluoranthene
8270C	3510C	Water	Benzo[g,h,i]perylene
8270C	3510C	Water	Benzo[k]fluoranthene
8270C	3510C	Water	Bis(2-chloroethoxy)methane
8270C	3510C	Water	Bis(2-chloroethyl)ether
8270C	3510C	Water	Bis(2-ethylhexyl) phthalate
8270C	3510C	Water	Butyl benzyl phthalate
8270C	3510C	Water	Caprolactam
8270C	3510C	Water	Carbazole
8270C	3510C	Water	Chrysene
8270C	3510C	Water	Dibenz(a,h)anthracene

Eurofins Edison

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Laboratory: Eurofins Edison (Continued)

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

Authority	Program	Identification Number	Expiration Date
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8270C	3510C	Water	Dibenzofuran
8270C	3510C	Water	Diethyl phthalate
8270C	3510C	Water	Dimethyl phthalate
8270C	3510C	Water	Di-n-butyl phthalate
8270C	3510C	Water	Di-n-octyl phthalate
8270C	3510C	Water	Fluoranthene
8270C	3510C	Water	Fluorene
8270C	3510C	Water	Hexachlorobenzene
8270C	3510C	Water	Hexachlorobutadiene
8270C	3510C	Water	Hexachlorocyclopentadiene
8270C	3510C	Water	Hexachloroethane
8270C	3510C	Water	Indeno[1,2,3-cd]pyrene
8270C	3510C	Water	Isophorone
8270C	3510C	Water	Naphthalene
8270C	3510C	Water	Nitrobenzene
8270C	3510C	Water	N-Nitrosodi-n-propylamine
8270C	3510C	Water	N-Nitrosodiphenylamine
8270C	3510C	Water	Pentachlorophenol
8270C	3510C	Water	Phenanthrene
8270C	3510C	Water	Phenol
8270C	3510C	Water	Pyrene

Method Summary

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organics (GC/MS)	SW846	EET EDI
8270C	Semivolatile Organics (GC/MS)	SW846	EET EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET EDI
5030B	Purge and Trap	SW846	EET EDI

Protocol References:

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

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: GHD Services Inc.
Project/Site: RACER Trust

Job ID: 460-314572-1

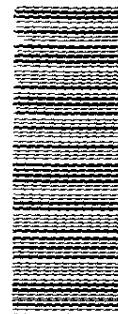
Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-314572-1	GW-11222397-103024-ES-07	Water	10/31/24 16:35	10/31/24 19:00
460-314572-2	GW-11222397-103124-ES-08	Water	10/31/24 10:40	10/31/24 19:00
460-314572-3	GW-11222397-103124-ES-09	Water	10/31/24 10:50	10/31/24 19:00
460-314572-4	GW-11222397-103124-ES-10	Water	10/31/24 13:55	10/31/24 19:00
460-314572-5	RB-11222397-103124-CT-11	Water	10/31/24 09:30	10/31/24 19:00
460-314572-6	GW-11222397-103124-CT-12	Water	10/31/24 12:05	10/31/24 19:00
460-314572-7	TB-11222397-103124-ES-13	Water	10/31/24 14:00	10/31/24 19:00

**Environment Testing
America**

TAL-8210

Company Name: GTD		Client Contact	
Address: 550 E. State Street, Suite 190		Project Manager: Sam Sashnow	
City/State/Zip: Wayne, MI 48094		Tel/Email	
Phone: 484-2319-6493		Site Contact: Lab Contact: L. T. Haggerty	
Fax:		Date:	
Project Name: RACER INST		Carrier	
Site		COC No. of COCs	
PO #		Sampler	
		For Lab Use Only	
		Walk-in Client:	
		Lab Sampling	
		Job / SDG No	
		314572	
		Sample Specific Notes:	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.
GW-11222397-103124-ES-07	10/30/24	16:35	G	GW	9
GW-11222397-103124-ES-08	10/31/24	10:47	G	GW	5
GW-11222397-103124-ES-09	10/31/24	10:50	G	GW	2
GW-11222397-103124-ES-10	10/31/24	17:55	G	GW	5
GB-11222397-103124-CT-11	10/31/24	9:30	G	GW	2
GW-11222397-103124-CT-12	10/31/24	12:05	G	GW	5
TB-11222397-103124-ES-13	10/31/24	14:00	G	GW	2



460-314572 Chain of Custody

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other	
Possible Hazard Identification	
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.	
☐ Non-Hazard	☐ Flammable ☐ Skin Irritant
☐ Return to Client	☐ Disposal by Lab ☐ Archive for _____ Months
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	

Special Instructions/QC Requirements & Comments.	
Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No
Relinquished by: Mrs Townsend	Company: GTD
Relinquished by: Robert Spry	Company: ETA
Date/Time: 10/31/24 15:10	Date/Time: 10/31/24 19:00
Date/Time: 10/31/24 15:10	Date/Time: 10/31/24 19:00
Date/Time: 10/31/24 15:10	Date/Time: 10/31/24 19:00

Job Number:

314572

Number of Coolers:

MR Gun #

Cooler Temperatures

	RAW		CORRECTED	
	RAW	CORRECTED	RAW	CORRECTED
Cooler #1	31.5	34.0		
Cooler #2:		°C		°C
Cooler #3:		°C		°C
Cooler #4:		°C		°C
Cooler #5:		°C		°C
Cooler #6:		°C		°C
Cooler #7:		°C		°C
Cooler #8:		°C		°C
Cooler #9:		°C		°C

[illegible]

If pH adjustments are required record the information below

Sample No(s). adjusted.

Preservative Name/Conc.

Volume of Preservative used (ml):

Lot # of Preservative(s):

Expiration Date:

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted. Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

EDS-WI-038, Rev 4, 06/09/2014

Initials:

Date: 10/31/24

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 460-314572-1

Login Number: 314572

List Number: 1

Creator: Rivera, Kenneth

List Source: Eurofins Edison

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Christopher Arcuri
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

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JOB DESCRIPTION

11222397- RACER - Wilmington, DE

JOB NUMBER

460-314632-1

Eurofins Edison

Job Notes

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

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

Authorization



Authorized for release by
Elizabeth Flannery, Project Manager I
Elizabeth.Flannery@et.eurofinsus.com
(732)549-3900

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Revision 2

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: GHD Services Inc.
Project: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Job ID: 460-314632-1

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CASE NARRATIVE

Client: GHD Services Inc.

Project: 11222397- RACER - Wilmington, DE

**Report Number: 460-314632-1
Revision 2**

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

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

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

REVISION

The report being provided is a revision of the original report sent on 11/13/2024. The report (revision 2) is being revised due to Revising to include 1,2,4-Trimethylbenzene.

Report revision history

Revision 1 - 1/3/2025 - Reason - Correcting analyte list for sample GW-11222397-103124-ES-16 per client request on 1/2/25..

RECEIPT

The samples were received on 11/2/2024 9:46 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.0°C and 2.1°C.

Receipt Exceptions

Insufficient sample volume was provided for the following samples for the 8260 analysis: GW-11222397-110124-ES-20 (460-314632-7[MS]) and GW-11222397-110124-ES-20 (460-314632-7[MSD]). no VOC volume for MS/MSD

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples GW-11222397-103124-ES-16 (460-314632-3), TB-11222397-103124-ES-17 (460-314632-4) and GW-11222397-110124-ES-20 (460-314632-7) were analyzed for Volatile Organic Compounds (GC/MS) in accordance with EPA SW-846 Method 8260D. The samples were analyzed on 11/06/2024 and 11/07/2024.

The continuing calibration verification (CCV) analyzed in batch 460-1005453 was outside the method criteria for the following analytes: Carbon tetrachloride and Bromoform (biased high), Chloromethane and Dichlorodifluoromethane (biased low). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) associated with batch 460-1005726 recovered above the upper control limits for Carbon tetrachloride, Bromodichloromethane, Dibromochloromethane and Bromoform. The sample associated with this CCV was non-detect for the affected analytes; therefore, the data has been reported.

The laboratory control sample (LCS) for analytical batch 460-1005453 recovered outside control limits for the following analytes:

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Case Narrative

Client: GHD Services Inc.
Project: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Job ID: 460-314632-1 (Continued)

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Carbon tetrachloride, Dichlorobromomethane, Chlorodibromomethane and Bromoform. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 460-1005726 recovered outside control limits for the following analytes: Carbon tetrachloride, Bromodichloromethane, Dibromochloromethane and Bromoform. These analytes were biased high in the LCS/LCSD and were not detected in the associated sample; therefore, the data has been reported.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 460-1005726 recovered outside control limits for the following analyte: 1,4-Dioxane.

Bromoform, Carbon tetrachloride, Chlorodibromomethane and Dichlorobromomethane failed the recovery criteria high for LCS 460-1005453/5. Bromoform, Carbon tetrachloride, Chlorodibromomethane and Dichlorobromomethane failed the recovery criteria high for LCS 460-1005726/3. Bromoform, Carbon tetrachloride, Chlorodibromomethane and Dichlorobromomethane failed the recovery criteria high for LCSD 460-1005726/4. 1,4-Dioxane exceeded the RPD limit.

m-Xylene & p-Xylene and Toluene failed the recovery criteria low for the MS of sample 460-314626-12 in batch 460-1005453. Bromoform, Carbon tetrachloride, Chlorodibromomethane and Dichlorobromomethane failed the recovery criteria high.

Several analytes failed the recovery criteria high for the MSD of sample 460-314626-12 in batch 460-1005453.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

Sample GW-11222397-110124-ES-20 (460-314632-7)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Volatiles analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)

Sample GW-11222397-110124-ES-20 (460-314632-7) was analyzed for semivolatile organic compounds (GC/MS) in accordance with EPA SW-846 Method 8270E. The samples were prepared and analyzed on 11/03/2024.

The continuing calibration verification (CCV) analyzed in batch 460-1005022 was outside the method criteria for the following analyte(s): Benzaldehyde. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 460-1005607 was outside the method criteria for the following analyte(s): 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 4,6-Dinitro-2-methylphenol, 4-Nitroaniline, Atrazine, Benzaldehyde and Caprolactam. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

2,4,6-Tribromophenol (Surr), 2-Fluorophenol (Surr) and Phenol-d5 (Surr) failed the surrogate recovery criteria high for GW-11222397-110124-ES-20MSD (460-314632-7MSD).

Several analytes failed the recovery criteria high for the MS of sample GW-11222397-110124-ES-20MS (460-314632-7) in batch 460-1005607.

Several analytes failed the recovery criteria high for the MSD of sample GW-11222397-110124-ES-20MSD (460-314632-7) in batch 460-1005607. 4-Chloroaniline exceeded the RPD limit.

Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

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Case Narrative

Client: GHD Services Inc.
Project: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Job ID: 460-314632-1 (Continued)

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METALS - DISSOLVED)(ICP/MS)

Samples RB-11222397-103124-CT-14 (460-314632-1), GW-11222397-103124-CT-15 (460-314632-2), GW-11222397-103124-ES-16 (460-314632-3), GW-11222397-103124-CT-18 (460-314632-5), GW-11222397-103124-CT-19 (460-314632-6) and GW-11222397-110124-ES-21 (460-314632-8) were analyzed for Metals - Dissolved)(ICP/MS) in accordance with EPA SW-846 Method 6020B - Dissolved. The samples were prepared and analyzed on 11/08/2024.

Dissolved Antimony failed the recovery criteria low for the MS of sample GW-11222397-103124-CT-15MS (460-314632-2) in batch 460-1006021. Dissolved Sodium failed the recovery criteria high.

Dissolved Antimony and Dissolved Calcium failed the recovery criteria low for the MSD of sample GW-11222397-103124-CT-15MSD (460-314632-2) in batch 460-1006021. Dissolved Sodium failed the recovery criteria high.

Refer to the QC report for details.

No other difficulties were encountered during the metals, diss. analysis.

All other quality control parameters were within the acceptance limits.

METALS - TOTAL (ICP/MS)

Samples RB-11222397-103124-CT-14 (460-314632-1), GW-11222397-103124-CT-15 (460-314632-2), GW-11222397-103124-ES-16 (460-314632-3), GW-11222397-103124-CT-18 (460-314632-5), GW-11222397-103124-CT-19 (460-314632-6) and GW-11222397-110124-ES-21 (460-314632-8) were analyzed for Metals - Total (ICP/MS) in accordance with EPA SW-846 Method 6020B - Total. The samples were prepared and analyzed on 11/07/2024.

Magnesium and Sodium failed the recovery criteria high for the MS of sample GW-11222397-103124-CT-15MS (460-314632-2) in batch 460-1005782.

Calcium failed the recovery criteria high for the MSD of sample GW-11222397-103124-CT-15MSD (460-314632-2) in batch 460-1005782.

Nickel and Vanadium exceeded the RPD limit for the duplicate of sample GW-11222397-103124-CT-15DU (460-314632-2). Refer to the QC report for details.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

MERCURY - DISSOLVED

Samples RB-11222397-103124-CT-14 (460-314632-1), GW-11222397-103124-CT-15 (460-314632-2), GW-11222397-103124-ES-16 (460-314632-3), GW-11222397-103124-CT-18 (460-314632-5), GW-11222397-103124-CT-19 (460-314632-6) and GW-11222397-110124-ES-21 (460-314632-8) were analyzed for mercury - Dissolved in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 11/12/2024.

No difficulties were encountered during the dissolved Hg analysis.

All quality control parameters were within the acceptance limits.

MERCURY

Samples RB-11222397-103124-CT-14 (460-314632-1), GW-11222397-103124-CT-15 (460-314632-2), GW-11222397-103124-ES-16 (460-314632-3), GW-11222397-103124-CT-18 (460-314632-5), GW-11222397-103124-CT-19 (460-314632-6) and GW-11222397-110124-ES-21 (460-314632-8) were analyzed for mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 11/11/2024.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

Eurofins Edison

Detection Summary

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Client Sample ID: RB-11222397-103124-CT-14

Lab Sample ID: 460-314632-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	81.1	J	500	53.6	ug/L	1		6020B	Total/NA
Nickel	1.1	J	4.0	0.91	ug/L	1		6020B	Total/NA
Dissolved Selenium	0.76	J	2.5	0.59	ug/L	1		6020B	Dissolved

Client Sample ID: GW-11222397-103124-CT-15

Lab Sample ID: 460-314632-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	247		40.0	19.5	ug/L	1		6020B	Total/NA
Barium	230		4.0	0.91	ug/L	1		6020B	Total/NA
Calcium	46700		500	53.6	ug/L	1		6020B	Total/NA
Cobalt	3.4	J	4.0	0.71	ug/L	1		6020B	Total/NA
Iron	230		120	58.2	ug/L	1		6020B	Total/NA
Magnesium	30000		200	46.9	ug/L	1		6020B	Total/NA
Manganese	549		8.0	1.5	ug/L	1		6020B	Total/NA
Nickel	5.9		4.0	0.91	ug/L	1		6020B	Total/NA
Potassium	6940		200	112	ug/L	1		6020B	Total/NA
Sodium	101000		500	219	ug/L	1		6020B	Total/NA
Vanadium	1.3	J	4.0	0.68	ug/L	1		6020B	Total/NA
Zinc	7.5	J	16.0	6.5	ug/L	1		6020B	Total/NA
Dissolved Barium	246		4.0	0.91	ug/L	1		6020B	Dissolved
Dissolved Calcium	49200		500	53.6	ug/L	1		6020B	Dissolved
Dissolved Cobalt	3.2	J	4.0	0.71	ug/L	1		6020B	Dissolved
Dissolved Iron	83.4	J	120	58.2	ug/L	1		6020B	Dissolved
Dissolved Magnesium	29400		200	46.9	ug/L	1		6020B	Dissolved
Dissolved Manganese	560		8.0	1.5	ug/L	1		6020B	Dissolved
Dissolved Nickel	3.8	J	4.0	0.91	ug/L	1		6020B	Dissolved
Dissolved Potassium	6950		200	112	ug/L	1		6020B	Dissolved
Dissolved Selenium	0.81	J	2.5	0.59	ug/L	1		6020B	Dissolved
Dissolved Sodium	96300		500	219	ug/L	1		6020B	Dissolved

Client Sample ID: GW-11222397-103124-ES-16

Lab Sample ID: 460-314632-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	1.5		1.0	0.31	ug/L	1		8260D	Total/NA
Aluminum	3430		40.0	19.5	ug/L	1		6020B	Total/NA
Antimony	0.88	J	2.0	0.76	ug/L	1		6020B	Total/NA
Barium	160		4.0	0.91	ug/L	1		6020B	Total/NA
Beryllium	0.14	J	0.80	0.13	ug/L	1		6020B	Total/NA
Calcium	27400		500	53.6	ug/L	1		6020B	Total/NA
Chromium	10.7		4.0	2.5	ug/L	1		6020B	Total/NA
Cobalt	4.7		4.0	0.71	ug/L	1		6020B	Total/NA
Copper	5.2		4.0	2.5	ug/L	1		6020B	Total/NA
Iron	3450		120	58.2	ug/L	1		6020B	Total/NA
Lead	11.5		1.2	0.84	ug/L	1		6020B	Total/NA
Magnesium	29400		200	46.9	ug/L	1		6020B	Total/NA
Manganese	5140		8.0	1.5	ug/L	1		6020B	Total/NA
Nickel	11.2		4.0	0.91	ug/L	1		6020B	Total/NA
Potassium	3560		200	112	ug/L	1		6020B	Total/NA
Selenium	0.66	J	2.5	0.59	ug/L	1		6020B	Total/NA
Sodium	93100		500	219	ug/L	1		6020B	Total/NA
Vanadium	10.9		4.0	0.68	ug/L	1		6020B	Total/NA
Zinc	21.1		16.0	6.5	ug/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Detection Summary

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Client Sample ID: GW-11222397-103124-ES-16 (Continued)

Lab Sample ID: 460-314632-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Aluminum	19.9	J	40.0	19.5	ug/L	1		6020B	Dissolved
Dissolved Barium	152		4.0	0.91	ug/L	1		6020B	Dissolved
Dissolved Calcium	29300		500	53.6	ug/L	1		6020B	Dissolved
Dissolved Cobalt	2.5	J	4.0	0.71	ug/L	1		6020B	Dissolved
Dissolved Magnesium	28700		200	46.9	ug/L	1		6020B	Dissolved
Dissolved Manganese	5200		8.0	1.5	ug/L	1		6020B	Dissolved
Dissolved Nickel	9.1		4.0	0.91	ug/L	1		6020B	Dissolved
Dissolved Potassium	3380		200	112	ug/L	1		6020B	Dissolved
Dissolved Selenium	1.4	J	2.5	0.59	ug/L	1		6020B	Dissolved
Dissolved Sodium	91700		500	219	ug/L	1		6020B	Dissolved
Dissolved Zinc	8.5	J	16.0	6.5	ug/L	1		6020B	Dissolved

Client Sample ID: TB-11222397-103124-ES-17

Lab Sample ID: 460-314632-4

No Detections.

Client Sample ID: GW-11222397-103124-CT-18

Lab Sample ID: 460-314632-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	73.9		40.0	19.5	ug/L	1		6020B	Total/NA
Barium	150		4.0	0.91	ug/L	1		6020B	Total/NA
Calcium	52200		500	53.6	ug/L	1		6020B	Total/NA
Iron	100	J	120	58.2	ug/L	1		6020B	Total/NA
Magnesium	18800		200	46.9	ug/L	1		6020B	Total/NA
Manganese	16.8		8.0	1.5	ug/L	1		6020B	Total/NA
Nickel	1.6	J	4.0	0.91	ug/L	1		6020B	Total/NA
Potassium	7010		200	112	ug/L	1		6020B	Total/NA
Sodium	66400		500	219	ug/L	1		6020B	Total/NA
Vanadium	1.3	J	4.0	0.68	ug/L	1		6020B	Total/NA
Dissolved Barium	157		4.0	0.91	ug/L	1		6020B	Dissolved
Dissolved Calcium	53100		500	53.6	ug/L	1		6020B	Dissolved
Dissolved Magnesium	18700		200	46.9	ug/L	1		6020B	Dissolved
Dissolved Manganese	17.4		8.0	1.5	ug/L	1		6020B	Dissolved
Dissolved Nickel	1.0	J	4.0	0.91	ug/L	1		6020B	Dissolved
Dissolved Potassium	6890		200	112	ug/L	1		6020B	Dissolved
Dissolved Selenium	0.82	J	2.5	0.59	ug/L	1		6020B	Dissolved
Dissolved Sodium	64700		500	219	ug/L	1		6020B	Dissolved

Client Sample ID: GW-11222397-103124-CT-19

Lab Sample ID: 460-314632-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	63.4		40.0	19.5	ug/L	1		6020B	Total/NA
Barium	145		4.0	0.91	ug/L	1		6020B	Total/NA
Calcium	50400		500	53.6	ug/L	1		6020B	Total/NA
Iron	78.4	J	120	58.2	ug/L	1		6020B	Total/NA
Magnesium	18400		200	46.9	ug/L	1		6020B	Total/NA
Manganese	15.2		8.0	1.5	ug/L	1		6020B	Total/NA
Nickel	1.4	J	4.0	0.91	ug/L	1		6020B	Total/NA
Potassium	6650		200	112	ug/L	1		6020B	Total/NA
Sodium	63900		500	219	ug/L	1		6020B	Total/NA
Vanadium	1.1	J	4.0	0.68	ug/L	1		6020B	Total/NA
Dissolved Barium	161		4.0	0.91	ug/L	1		6020B	Dissolved
Dissolved Calcium	53500		500	53.6	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Detection Summary

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Client Sample ID: GW-11222397-103124-CT-19 (Continued)

Lab Sample ID: 460-314632-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Copper	2.6	J	4.0	2.5	ug/L	1		6020B	Dissolved
Dissolved Magnesium	18300		200	46.9	ug/L	1		6020B	Dissolved
Dissolved Manganese	16.0		8.0	1.5	ug/L	1		6020B	Dissolved
Dissolved Nickel	1.3	J	4.0	0.91	ug/L	1		6020B	Dissolved
Dissolved Potassium	6930		200	112	ug/L	1		6020B	Dissolved
Dissolved Selenium	0.84	J	2.5	0.59	ug/L	1		6020B	Dissolved
Dissolved Sodium	63200		500	219	ug/L	1		6020B	Dissolved

Client Sample ID: GW-11222397-110124-ES-20

Lab Sample ID: 460-314632-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	280		2.0	0.75	ug/L	2		8260D	Total/NA
Acetone	16		10	8.8	ug/L	2		8260D	Total/NA
Cyclohexane	160		2.0	0.64	ug/L	2		8260D	Total/NA
Ethylbenzene	170		2.0	0.60	ug/L	2		8260D	Total/NA
Isopropylbenzene	26		2.0	0.67	ug/L	2		8260D	Total/NA
Methylcyclohexane	77		2.0	1.4	ug/L	2		8260D	Total/NA
m-Xylene & p-Xylene	400		2.0	0.59	ug/L	2		8260D	Total/NA
o-Xylene	110		2.0	0.72	ug/L	2		8260D	Total/NA
Styrene	0.92	J	2.0	0.83	ug/L	2		8260D	Total/NA
Toluene	25		2.0	0.76	ug/L	2		8260D	Total/NA
2-Methylnaphthalene	6.5	J F1	10	0.53	ug/L	1		8270E	Total/NA
Naphthalene	43	F1	2.0	0.54	ug/L	1		8270E	Total/NA

Client Sample ID: GW-11222397-110124-ES-21

Lab Sample ID: 460-314632-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	2910		40.0	19.5	ug/L	1		6020B	Total/NA
Barium	217		4.0	0.91	ug/L	1		6020B	Total/NA
Beryllium	0.16	J	0.80	0.13	ug/L	1		6020B	Total/NA
Calcium	31700		500	53.6	ug/L	1		6020B	Total/NA
Chromium	9.6		4.0	2.5	ug/L	1		6020B	Total/NA
Cobalt	9.4		4.0	0.71	ug/L	1		6020B	Total/NA
Copper	4.9		4.0	2.5	ug/L	1		6020B	Total/NA
Iron	2350		120	58.2	ug/L	1		6020B	Total/NA
Lead	4.1		1.2	0.84	ug/L	1		6020B	Total/NA
Magnesium	28200		200	46.9	ug/L	1		6020B	Total/NA
Manganese	2060		8.0	1.5	ug/L	1		6020B	Total/NA
Nickel	7.2		4.0	0.91	ug/L	1		6020B	Total/NA
Potassium	5050		200	112	ug/L	1		6020B	Total/NA
Sodium	70200		500	219	ug/L	1		6020B	Total/NA
Vanadium	12.8		4.0	0.68	ug/L	1		6020B	Total/NA
Zinc	9.1	J	16.0	6.5	ug/L	1		6020B	Total/NA
Dissolved Barium	222		4.0	0.91	ug/L	1		6020B	Dissolved
Dissolved Calcium	32400		500	53.6	ug/L	1		6020B	Dissolved
Dissolved Cobalt	6.8		4.0	0.71	ug/L	1		6020B	Dissolved
Dissolved Copper	3.6	J	4.0	2.5	ug/L	1		6020B	Dissolved
Dissolved Magnesium	26600		200	46.9	ug/L	1		6020B	Dissolved
Dissolved Manganese	1880		8.0	1.5	ug/L	1		6020B	Dissolved
Dissolved Nickel	5.0		4.0	0.91	ug/L	1		6020B	Dissolved
Dissolved Potassium	4830		200	112	ug/L	1		6020B	Dissolved
Dissolved Selenium	0.84	J	2.5	0.59	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Detection Summary

Client: GHD Services Inc.

Job ID: 460-314632-1

Project/Site: 11222397- RACER - Wilmington, DE

Client Sample ID: GW-11222397-110124-ES-21 (Continued)

Lab Sample ID: 460-314632-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Sodium	66900		500	219	ug/L	1		6020B	Dissolved
Dissolved Vanadium	1.5	J	4.0	0.68	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Client Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Client Sample ID: RB-11222397-103124-CT-14

Lab Sample ID: 460-314632-1

Date Collected: 10/30/24 13:40

Matrix: Water

Date Received: 11/02/24 09:46

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	19.5	U	40.0	19.5	ug/L		11/07/24 09:45	11/07/24 15:34	1
Antimony	0.76	U	2.0	0.76	ug/L		11/07/24 09:45	11/07/24 15:34	1
Arsenic	0.89	U	2.0	0.89	ug/L		11/07/24 09:45	11/07/24 15:34	1
Barium	0.91	U	4.0	0.91	ug/L		11/07/24 09:45	11/07/24 15:34	1
Beryllium	0.13	U	0.80	0.13	ug/L		11/07/24 09:45	11/07/24 15:34	1
Cadmium	0.39	U	2.0	0.39	ug/L		11/07/24 09:45	11/07/24 15:34	1
Calcium	81.1	J	500	53.6	ug/L		11/07/24 09:45	11/07/24 15:34	1
Chromium	2.5	U	4.0	2.5	ug/L		11/07/24 09:45	11/07/24 15:34	1
Cobalt	0.71	U	4.0	0.71	ug/L		11/07/24 09:45	11/07/24 15:34	1
Copper	2.5	U	4.0	2.5	ug/L		11/07/24 09:45	11/07/24 15:34	1
Iron	58.2	U	120	58.2	ug/L		11/07/24 09:45	11/07/24 15:34	1
Lead	0.84	U	1.2	0.84	ug/L		11/07/24 09:45	11/07/24 15:34	1
Magnesium	46.9	U	200	46.9	ug/L		11/07/24 09:45	11/07/24 15:34	1
Manganese	1.5	U	8.0	1.5	ug/L		11/07/24 09:45	11/07/24 15:34	1
Nickel	1.1	J	4.0	0.91	ug/L		11/07/24 09:45	11/07/24 15:34	1
Potassium	112	U	200	112	ug/L		11/07/24 09:45	11/07/24 15:34	1
Selenium	0.59	U	2.5	0.59	ug/L		11/07/24 09:45	11/07/24 15:34	1
Silver	0.29	U	2.0	0.29	ug/L		11/07/24 09:45	11/07/24 15:34	1
Sodium	219	U	500	219	ug/L		11/07/24 09:45	11/07/24 15:34	1
Thallium	0.21	U	0.80	0.21	ug/L		11/07/24 09:45	11/07/24 15:34	1
Vanadium	0.68	U	4.0	0.68	ug/L		11/07/24 09:45	11/07/24 15:34	1
Zinc	6.5	U	16.0	6.5	ug/L		11/07/24 09:45	11/07/24 15:34	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Aluminum	19.5	U	40.0	19.5	ug/L		11/08/24 18:50	11/08/24 21:34	1
Dissolved Antimony	0.76	U	2.0	0.76	ug/L		11/08/24 18:50	11/08/24 21:34	1
Dissolved Arsenic	0.89	U	2.0	0.89	ug/L		11/08/24 18:50	11/08/24 21:34	1
Dissolved Barium	0.91	U	4.0	0.91	ug/L		11/08/24 18:50	11/08/24 21:34	1
Dissolved Beryllium	0.13	U	0.80	0.13	ug/L		11/08/24 18:50	11/08/24 21:34	1
Dissolved Cadmium	0.39	U	2.0	0.39	ug/L		11/08/24 18:50	11/08/24 21:34	1
Dissolved Calcium	53.6	U	500	53.6	ug/L		11/08/24 18:50	11/08/24 21:34	1
Dissolved Chromium	2.5	U	4.0	2.5	ug/L		11/08/24 18:50	11/08/24 21:34	1
Dissolved Cobalt	0.71	U	4.0	0.71	ug/L		11/08/24 18:50	11/08/24 21:34	1
Dissolved Copper	2.5	U	4.0	2.5	ug/L		11/08/24 18:50	11/08/24 21:34	1
Dissolved Iron	58.2	U	120	58.2	ug/L		11/08/24 18:50	11/08/24 21:34	1
Dissolved Lead	0.84	U	1.2	0.84	ug/L		11/08/24 18:50	11/08/24 21:34	1
Dissolved Magnesium	46.9	U	200	46.9	ug/L		11/08/24 18:50	11/08/24 21:34	1
Dissolved Manganese	1.5	U	8.0	1.5	ug/L		11/08/24 18:50	11/08/24 21:34	1
Dissolved Nickel	0.91	U	4.0	0.91	ug/L		11/08/24 18:50	11/08/24 21:34	1
Dissolved Potassium	112	U	200	112	ug/L		11/08/24 18:50	11/08/24 21:34	1
Dissolved Selenium	0.76	J	2.5	0.59	ug/L		11/08/24 18:50	11/08/24 21:34	1
Dissolved Silver	0.29	U	2.0	0.29	ug/L		11/08/24 18:50	11/08/24 21:34	1
Dissolved Sodium	219	U	500	219	ug/L		11/08/24 18:50	11/08/24 21:34	1
Dissolved Thallium	0.21	U	0.80	0.21	ug/L		11/08/24 18:50	11/08/24 21:34	1
Dissolved Vanadium	0.68	U	4.0	0.68	ug/L		11/08/24 18:50	11/08/24 21:34	1
Dissolved Zinc	6.5	U	16.0	6.5	ug/L		11/08/24 18:50	11/08/24 21:34	1

Eurofins Edison

Client Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Client Sample ID: RB-11222397-103124-CT-14

Lab Sample ID: 460-314632-1

Date Collected: 10/30/24 13:40

Matrix: Water

Date Received: 11/02/24 09:46

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		11/11/24 14:36	11/11/24 15:32	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.091	U	0.20	0.091	ug/L		11/12/24 01:20	11/12/24 05:48	1

Client Sample ID: GW-11222397-103124-CT-15

Lab Sample ID: 460-314632-2

Date Collected: 10/30/24 15:20

Matrix: Water

Date Received: 11/02/24 09:46

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	247		40.0	19.5	ug/L		11/07/24 09:45	11/07/24 14:05	1
Antimony	0.76	U	2.0	0.76	ug/L		11/07/24 09:45	11/07/24 14:05	1
Arsenic	0.89	U	2.0	0.89	ug/L		11/07/24 09:45	11/07/24 14:05	1
Barium	230		4.0	0.91	ug/L		11/07/24 09:45	11/07/24 14:05	1
Beryllium	0.13	U	0.80	0.13	ug/L		11/07/24 09:45	11/07/24 14:05	1
Cadmium	0.39	U	2.0	0.39	ug/L		11/07/24 09:45	11/07/24 14:05	1
Calcium	46700		500	53.6	ug/L		11/07/24 09:45	11/07/24 14:05	1
Chromium	2.5	U	4.0	2.5	ug/L		11/07/24 09:45	11/07/24 14:05	1
Cobalt	3.4 J		4.0	0.71	ug/L		11/07/24 09:45	11/07/24 14:05	1
Copper	2.5	U	4.0	2.5	ug/L		11/07/24 09:45	11/07/24 14:05	1
Iron	230		120	58.2	ug/L		11/07/24 09:45	11/07/24 14:05	1
Lead	0.84	U	1.2	0.84	ug/L		11/07/24 09:45	11/07/24 14:05	1
Magnesium	30000		200	46.9	ug/L		11/07/24 09:45	11/07/24 14:05	1
Manganese	549		8.0	1.5	ug/L		11/07/24 09:45	11/07/24 14:05	1
Nickel	5.9		4.0	0.91	ug/L		11/07/24 09:45	11/07/24 14:05	1
Potassium	6940		200	112	ug/L		11/07/24 09:45	11/07/24 14:05	1
Selenium	0.59	U	2.5	0.59	ug/L		11/07/24 09:45	11/07/24 14:05	1
Silver	0.29	U	2.0	0.29	ug/L		11/07/24 09:45	11/07/24 14:05	1
Sodium	101000		500	219	ug/L		11/07/24 09:45	11/07/24 14:05	1
Thallium	0.21	U	0.80	0.21	ug/L		11/07/24 09:45	11/07/24 14:05	1
Vanadium	1.3 J		4.0	0.68	ug/L		11/07/24 09:45	11/07/24 14:05	1
Zinc	7.5 J		16.0	6.5	ug/L		11/07/24 09:45	11/07/24 14:05	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Aluminum	19.5	U	40.0	19.5	ug/L		11/08/24 18:50	11/08/24 21:57	1
Dissolved Antimony	0.76	U F1	2.0	0.76	ug/L		11/08/24 18:50	11/08/24 21:57	1
Dissolved Arsenic	0.89	U	2.0	0.89	ug/L		11/08/24 18:50	11/08/24 21:57	1
Dissolved Barium	246		4.0	0.91	ug/L		11/08/24 18:50	11/08/24 21:57	1
Dissolved Beryllium	0.13	U	0.80	0.13	ug/L		11/08/24 18:50	11/08/24 21:57	1
Dissolved Cadmium	0.39	U	2.0	0.39	ug/L		11/08/24 18:50	11/08/24 21:57	1
Dissolved Calcium	49200		500	53.6	ug/L		11/08/24 18:50	11/08/24 21:57	1
Dissolved Chromium	2.5	U	4.0	2.5	ug/L		11/08/24 18:50	11/08/24 21:57	1
Dissolved Cobalt	3.2 J		4.0	0.71	ug/L		11/08/24 18:50	11/08/24 21:57	1
Dissolved Copper	2.5	U	4.0	2.5	ug/L		11/08/24 18:50	11/08/24 21:57	1
Dissolved Iron	83.4 J		120	58.2	ug/L		11/08/24 18:50	11/08/24 21:57	1
Dissolved Lead	0.84	U	1.2	0.84	ug/L		11/08/24 18:50	11/08/24 21:57	1
Dissolved Magnesium	29400		200	46.9	ug/L		11/08/24 18:50	11/08/24 21:57	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Client Sample ID: GW-11222397-103124-CT-15

Lab Sample ID: 460-314632-2

Date Collected: 10/30/24 15:20

Matrix: Water

Date Received: 11/02/24 09:46

Method: SW846 6020B - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Manganese	560		8.0	1.5	ug/L		11/08/24 18:50	11/08/24 21:57	1
Dissolved Nickel	3.8	J	4.0	0.91	ug/L		11/08/24 18:50	11/08/24 21:57	1
Dissolved Potassium	6950		200	112	ug/L		11/08/24 18:50	11/08/24 21:57	1
Dissolved Selenium	0.81	J	2.5	0.59	ug/L		11/08/24 18:50	11/08/24 21:57	1
Dissolved Silver	0.29	U	2.0	0.29	ug/L		11/08/24 18:50	11/08/24 21:57	1
Dissolved Sodium	96300		500	219	ug/L		11/08/24 18:50	11/08/24 21:57	1
Dissolved Thallium	0.21	U	0.80	0.21	ug/L		11/08/24 18:50	11/08/24 21:57	1
Dissolved Vanadium	0.68	U	4.0	0.68	ug/L		11/08/24 18:50	11/08/24 21:57	1
Dissolved Zinc	6.5	U	16.0	6.5	ug/L		11/08/24 18:50	11/08/24 21:57	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		11/11/24 14:36	11/11/24 15:01	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.091	U	0.20	0.091	ug/L		11/12/24 01:20	11/12/24 05:34	1

Client Sample ID: GW-11222397-103124-ES-16

Lab Sample ID: 460-314632-3

Date Collected: 10/30/24 15:40

Matrix: Water

Date Received: 11/02/24 09:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.20	U	1.0	0.20	ug/L			11/07/24 18:43	1
Trichloroethene	1.5		1.0	0.31	ug/L			11/07/24 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 128		11/07/24 18:43	1
Toluene-d8 (Surr)	98		80 - 120		11/07/24 18:43	1
4-Bromofluorobenzene	100		76 - 120		11/07/24 18:43	1
Dibromofluoromethane (Surr)	114		77 - 132		11/07/24 18:43	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3430		40.0	19.5	ug/L		11/07/24 09:45	11/07/24 15:36	1
Antimony	0.88	J	2.0	0.76	ug/L		11/07/24 09:45	11/07/24 15:36	1
Arsenic	0.89	U	2.0	0.89	ug/L		11/07/24 09:45	11/07/24 15:36	1
Barium	160		4.0	0.91	ug/L		11/07/24 09:45	11/07/24 15:36	1
Beryllium	0.14	J	0.80	0.13	ug/L		11/07/24 09:45	11/07/24 15:36	1
Cadmium	0.39	U	2.0	0.39	ug/L		11/07/24 09:45	11/07/24 15:36	1
Calcium	27400		500	53.6	ug/L		11/07/24 09:45	11/07/24 15:36	1
Chromium	10.7		4.0	2.5	ug/L		11/07/24 09:45	11/07/24 15:36	1
Cobalt	4.7		4.0	0.71	ug/L		11/07/24 09:45	11/07/24 15:36	1
Copper	5.2		4.0	2.5	ug/L		11/07/24 09:45	11/07/24 15:36	1
Iron	3450		120	58.2	ug/L		11/07/24 09:45	11/07/24 15:36	1
Lead	11.5		1.2	0.84	ug/L		11/07/24 09:45	11/07/24 15:36	1
Magnesium	29400		200	46.9	ug/L		11/07/24 09:45	11/07/24 15:36	1
Manganese	5140		8.0	1.5	ug/L		11/07/24 09:45	11/07/24 15:36	1
Nickel	11.2		4.0	0.91	ug/L		11/07/24 09:45	11/07/24 15:36	1
Potassium	3560		200	112	ug/L		11/07/24 09:45	11/07/24 15:36	1

Eurofins Edison

Client Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Client Sample ID: GW-11222397-103124-ES-16

Lab Sample ID: 460-314632-3

Date Collected: 10/30/24 15:40

Matrix: Water

Date Received: 11/02/24 09:46

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	0.66	J	2.5	0.59	ug/L		11/07/24 09:45	11/07/24 15:36	1
Silver	0.29	U	2.0	0.29	ug/L		11/07/24 09:45	11/07/24 15:36	1
Sodium	93100		500	219	ug/L		11/07/24 09:45	11/07/24 15:36	1
Thallium	0.21	U	0.80	0.21	ug/L		11/07/24 09:45	11/07/24 15:36	1
Vanadium	10.9		4.0	0.68	ug/L		11/07/24 09:45	11/07/24 15:36	1
Zinc	21.1		16.0	6.5	ug/L		11/07/24 09:45	11/07/24 15:36	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Aluminum	19.9	J	40.0	19.5	ug/L		11/08/24 18:50	11/08/24 22:10	1
Dissolved Antimony	0.76	U	2.0	0.76	ug/L		11/08/24 18:50	11/08/24 22:10	1
Dissolved Arsenic	0.89	U	2.0	0.89	ug/L		11/08/24 18:50	11/08/24 22:10	1
Dissolved Barium	152		4.0	0.91	ug/L		11/08/24 18:50	11/08/24 22:10	1
Dissolved Beryllium	0.13	U	0.80	0.13	ug/L		11/08/24 18:50	11/08/24 22:10	1
Dissolved Cadmium	0.39	U	2.0	0.39	ug/L		11/08/24 18:50	11/08/24 22:10	1
Dissolved Calcium	29300		500	53.6	ug/L		11/08/24 18:50	11/08/24 22:10	1
Dissolved Chromium	2.5	U	4.0	2.5	ug/L		11/08/24 18:50	11/08/24 22:10	1
Dissolved Cobalt	2.5	J	4.0	0.71	ug/L		11/08/24 18:50	11/08/24 22:10	1
Dissolved Copper	2.5	U	4.0	2.5	ug/L		11/08/24 18:50	11/08/24 22:10	1
Dissolved Iron	58.2	U	120	58.2	ug/L		11/08/24 18:50	11/08/24 22:10	1
Dissolved Lead	0.84	U	1.2	0.84	ug/L		11/08/24 18:50	11/08/24 22:10	1
Dissolved Magnesium	28700		200	46.9	ug/L		11/08/24 18:50	11/08/24 22:10	1
Dissolved Manganese	5200		8.0	1.5	ug/L		11/08/24 18:50	11/08/24 22:10	1
Dissolved Nickel	9.1		4.0	0.91	ug/L		11/08/24 18:50	11/08/24 22:10	1
Dissolved Potassium	3380		200	112	ug/L		11/08/24 18:50	11/08/24 22:10	1
Dissolved Selenium	1.4	J	2.5	0.59	ug/L		11/08/24 18:50	11/08/24 22:10	1
Dissolved Silver	0.29	U	2.0	0.29	ug/L		11/08/24 18:50	11/08/24 22:10	1
Dissolved Sodium	91700		500	219	ug/L		11/08/24 18:50	11/08/24 22:10	1
Dissolved Thallium	0.21	U	0.80	0.21	ug/L		11/08/24 18:50	11/08/24 22:10	1
Dissolved Vanadium	0.68	U	4.0	0.68	ug/L		11/08/24 18:50	11/08/24 22:10	1
Dissolved Zinc	8.5	J	16.0	6.5	ug/L		11/08/24 18:50	11/08/24 22:10	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		11/11/24 14:36	11/11/24 15:34	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.091	U	0.20	0.091	ug/L		11/12/24 01:20	11/12/24 05:50	1

Client Sample ID: TB-11222397-103124-ES-17

Lab Sample ID: 460-314632-4

Date Collected: 10/30/24 14:45

Matrix: Water

Date Received: 11/02/24 09:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			11/06/24 13:46	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/06/24 13:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/06/24 13:46	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/06/24 13:46	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/06/24 13:46	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Client Sample ID: TB-11222397-103124-ES-17

Lab Sample ID: 460-314632-4

Date Collected: 10/30/24 14:45

Matrix: Water

Date Received: 11/02/24 09:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/06/24 13:46	1
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L			11/06/24 13:46	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/06/24 13:46	1
1,2,4-Trimethylbenzene	0.37	U	1.0	0.37	ug/L			11/06/24 13:46	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/06/24 13:46	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/06/24 13:46	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/06/24 13:46	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			11/06/24 13:46	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/06/24 13:46	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/06/24 13:46	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/06/24 13:46	1
1,4-Dioxane	28	U	50	28	ug/L			11/06/24 13:46	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			11/06/24 13:46	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/06/24 13:46	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			11/06/24 13:46	1
Acetone	4.4	U	5.0	4.4	ug/L			11/06/24 13:46	1
Benzene	0.20	U	1.0	0.20	ug/L			11/06/24 13:46	1
Bromoform	0.54	U **	1.0	0.54	ug/L			11/06/24 13:46	1
Bromomethane	0.55	U	1.0	0.55	ug/L			11/06/24 13:46	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			11/06/24 13:46	1
Carbon tetrachloride	0.21	U **	1.0	0.21	ug/L			11/06/24 13:46	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/06/24 13:46	1
Chlorobromomethane	0.41	U	1.0	0.41	ug/L			11/06/24 13:46	1
Chlorodibromomethane	0.28	U **	1.0	0.28	ug/L			11/06/24 13:46	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/06/24 13:46	1
Chloroform	0.33	U	1.0	0.33	ug/L			11/06/24 13:46	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/06/24 13:46	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			11/06/24 13:46	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/06/24 13:46	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			11/06/24 13:46	1
Dichlorobromomethane	0.34	U **	1.0	0.34	ug/L			11/06/24 13:46	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/06/24 13:46	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			11/06/24 13:46	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			11/06/24 13:46	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/06/24 13:46	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/06/24 13:46	1
Methylcyclohexane	0.71	U	1.0	0.71	ug/L			11/06/24 13:46	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			11/06/24 13:46	1
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L			11/06/24 13:46	1
o-Xylene	0.36	U	1.0	0.36	ug/L			11/06/24 13:46	1
Styrene	0.42	U	1.0	0.42	ug/L			11/06/24 13:46	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			11/06/24 13:46	1
Toluene	0.38	U	1.0	0.38	ug/L			11/06/24 13:46	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/06/24 13:46	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/06/24 13:46	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			11/06/24 13:46	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			11/06/24 13:46	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			11/06/24 13:46	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Client Sample ID: TB-11222397-103124-ES-17

Lab Sample ID: 460-314632-4

Date Collected: 10/30/24 14:45

Matrix: Water

Date Received: 11/02/24 09:46

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 128		11/06/24 13:46	1
Toluene-d8 (Surr)	101		80 - 120		11/06/24 13:46	1
4-Bromofluorobenzene	105		76 - 120		11/06/24 13:46	1
Dibromofluoromethane (Surr)	115		77 - 132		11/06/24 13:46	1

Client Sample ID: GW-11222397-103124-CT-18

Lab Sample ID: 460-314632-5

Date Collected: 10/30/24 17:35

Matrix: Water

Date Received: 11/02/24 09:46

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	73.9		40.0	19.5	ug/L		11/07/24 09:45	11/07/24 15:39	1
Antimony	0.76	U	2.0	0.76	ug/L		11/07/24 09:45	11/07/24 15:39	1
Arsenic	0.89	U	2.0	0.89	ug/L		11/07/24 09:45	11/07/24 15:39	1
Barium	150		4.0	0.91	ug/L		11/07/24 09:45	11/07/24 15:39	1
Beryllium	0.13	U	0.80	0.13	ug/L		11/07/24 09:45	11/07/24 15:39	1
Cadmium	0.39	U	2.0	0.39	ug/L		11/07/24 09:45	11/07/24 15:39	1
Calcium	52200		500	53.6	ug/L		11/07/24 09:45	11/07/24 15:39	1
Chromium	2.5	U	4.0	2.5	ug/L		11/07/24 09:45	11/07/24 15:39	1
Cobalt	0.71	U	4.0	0.71	ug/L		11/07/24 09:45	11/07/24 15:39	1
Copper	2.5	U	4.0	2.5	ug/L		11/07/24 09:45	11/07/24 15:39	1
Iron	100	J	120	58.2	ug/L		11/07/24 09:45	11/07/24 15:39	1
Lead	0.84	U	1.2	0.84	ug/L		11/07/24 09:45	11/07/24 15:39	1
Magnesium	18800		200	46.9	ug/L		11/07/24 09:45	11/07/24 15:39	1
Manganese	16.8		8.0	1.5	ug/L		11/07/24 09:45	11/07/24 15:39	1
Nickel	1.6	J	4.0	0.91	ug/L		11/07/24 09:45	11/07/24 15:39	1
Potassium	7010		200	112	ug/L		11/07/24 09:45	11/07/24 15:39	1
Selenium	0.59	U	2.5	0.59	ug/L		11/07/24 09:45	11/07/24 15:39	1
Silver	0.29	U	2.0	0.29	ug/L		11/07/24 09:45	11/07/24 15:39	1
Sodium	66400		500	219	ug/L		11/07/24 09:45	11/07/24 15:39	1
Thallium	0.21	U	0.80	0.21	ug/L		11/07/24 09:45	11/07/24 15:39	1
Vanadium	1.3	J	4.0	0.68	ug/L		11/07/24 09:45	11/07/24 15:39	1
Zinc	6.5	U	16.0	6.5	ug/L		11/07/24 09:45	11/07/24 15:39	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Aluminum	19.5	U	40.0	19.5	ug/L		11/08/24 18:50	11/08/24 22:13	1
Dissolved Antimony	0.76	U	2.0	0.76	ug/L		11/08/24 18:50	11/08/24 22:13	1
Dissolved Arsenic	0.89	U	2.0	0.89	ug/L		11/08/24 18:50	11/08/24 22:13	1
Dissolved Barium	157		4.0	0.91	ug/L		11/08/24 18:50	11/08/24 22:13	1
Dissolved Beryllium	0.13	U	0.80	0.13	ug/L		11/08/24 18:50	11/08/24 22:13	1
Dissolved Cadmium	0.39	U	2.0	0.39	ug/L		11/08/24 18:50	11/08/24 22:13	1
Dissolved Calcium	53100		500	53.6	ug/L		11/08/24 18:50	11/08/24 22:13	1
Dissolved Chromium	2.5	U	4.0	2.5	ug/L		11/08/24 18:50	11/08/24 22:13	1
Dissolved Cobalt	0.71	U	4.0	0.71	ug/L		11/08/24 18:50	11/08/24 22:13	1
Dissolved Copper	2.5	U	4.0	2.5	ug/L		11/08/24 18:50	11/08/24 22:13	1
Dissolved Iron	58.2	U	120	58.2	ug/L		11/08/24 18:50	11/08/24 22:13	1
Dissolved Lead	0.84	U	1.2	0.84	ug/L		11/08/24 18:50	11/08/24 22:13	1
Dissolved Magnesium	18700		200	46.9	ug/L		11/08/24 18:50	11/08/24 22:13	1
Dissolved Manganese	17.4		8.0	1.5	ug/L		11/08/24 18:50	11/08/24 22:13	1
Dissolved Nickel	1.0	J	4.0	0.91	ug/L		11/08/24 18:50	11/08/24 22:13	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Client Sample ID: GW-11222397-103124-CT-18

Lab Sample ID: 460-314632-5

Date Collected: 10/30/24 17:35

Matrix: Water

Date Received: 11/02/24 09:46

Method: SW846 6020B - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Potassium	6890		200	112	ug/L		11/08/24 18:50	11/08/24 22:13	1
Dissolved Selenium	0.82	J	2.5	0.59	ug/L		11/08/24 18:50	11/08/24 22:13	1
Dissolved Silver	0.29	U	2.0	0.29	ug/L		11/08/24 18:50	11/08/24 22:13	1
Dissolved Sodium	64700		500	219	ug/L		11/08/24 18:50	11/08/24 22:13	1
Dissolved Thallium	0.21	U	0.80	0.21	ug/L		11/08/24 18:50	11/08/24 22:13	1
Dissolved Vanadium	0.68	U	4.0	0.68	ug/L		11/08/24 18:50	11/08/24 22:13	1
Dissolved Zinc	6.5	U	16.0	6.5	ug/L		11/08/24 18:50	11/08/24 22:13	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		11/11/24 14:36	11/11/24 15:36	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.091	U	0.20	0.091	ug/L		11/12/24 01:20	11/12/24 05:51	1

Client Sample ID: GW-11222397-103124-CT-19

Lab Sample ID: 460-314632-6

Date Collected: 10/30/24 17:45

Matrix: Water

Date Received: 11/02/24 09:46

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	63.4		40.0	19.5	ug/L		11/07/24 09:45	11/07/24 15:42	1
Antimony	0.76	U	2.0	0.76	ug/L		11/07/24 09:45	11/07/24 15:42	1
Arsenic	0.89	U	2.0	0.89	ug/L		11/07/24 09:45	11/07/24 15:42	1
Barium	145		4.0	0.91	ug/L		11/07/24 09:45	11/07/24 15:42	1
Beryllium	0.13	U	0.80	0.13	ug/L		11/07/24 09:45	11/07/24 15:42	1
Cadmium	0.39	U	2.0	0.39	ug/L		11/07/24 09:45	11/07/24 15:42	1
Calcium	50400		500	53.6	ug/L		11/07/24 09:45	11/07/24 15:42	1
Chromium	2.5	U	4.0	2.5	ug/L		11/07/24 09:45	11/07/24 15:42	1
Cobalt	0.71	U	4.0	0.71	ug/L		11/07/24 09:45	11/07/24 15:42	1
Copper	2.5	U	4.0	2.5	ug/L		11/07/24 09:45	11/07/24 15:42	1
Iron	78.4	J	120	58.2	ug/L		11/07/24 09:45	11/07/24 15:42	1
Lead	0.84	U	1.2	0.84	ug/L		11/07/24 09:45	11/07/24 15:42	1
Magnesium	18400		200	46.9	ug/L		11/07/24 09:45	11/07/24 15:42	1
Manganese	15.2		8.0	1.5	ug/L		11/07/24 09:45	11/07/24 15:42	1
Nickel	1.4	J	4.0	0.91	ug/L		11/07/24 09:45	11/07/24 15:42	1
Potassium	6650		200	112	ug/L		11/07/24 09:45	11/07/24 15:42	1
Selenium	0.59	U	2.5	0.59	ug/L		11/07/24 09:45	11/07/24 15:42	1
Silver	0.29	U	2.0	0.29	ug/L		11/07/24 09:45	11/07/24 15:42	1
Sodium	63900		500	219	ug/L		11/07/24 09:45	11/07/24 15:42	1
Thallium	0.21	U	0.80	0.21	ug/L		11/07/24 09:45	11/07/24 15:42	1
Vanadium	1.1	J	4.0	0.68	ug/L		11/07/24 09:45	11/07/24 15:42	1
Zinc	6.5	U	16.0	6.5	ug/L		11/07/24 09:45	11/07/24 15:42	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Aluminum	19.5	U	40.0	19.5	ug/L		11/08/24 18:50	11/08/24 22:16	1
Dissolved Antimony	0.76	U	2.0	0.76	ug/L		11/08/24 18:50	11/08/24 22:16	1
Dissolved Arsenic	0.89	U	2.0	0.89	ug/L		11/08/24 18:50	11/08/24 22:16	1
Dissolved Barium	161		4.0	0.91	ug/L		11/08/24 18:50	11/08/24 22:16	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Client Sample ID: GW-11222397-103124-CT-19

Lab Sample ID: 460-314632-6

Date Collected: 10/30/24 17:45

Matrix: Water

Date Received: 11/02/24 09:46

Method: SW846 6020B - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Beryllium	0.13	U	0.80	0.13	ug/L		11/08/24 18:50	11/08/24 22:16	1
Dissolved Cadmium	0.39	U	2.0	0.39	ug/L		11/08/24 18:50	11/08/24 22:16	1
Dissolved Calcium	53500		500	53.6	ug/L		11/08/24 18:50	11/08/24 22:16	1
Dissolved Chromium	2.5	U	4.0	2.5	ug/L		11/08/24 18:50	11/08/24 22:16	1
Dissolved Cobalt	0.71	U	4.0	0.71	ug/L		11/08/24 18:50	11/08/24 22:16	1
Dissolved Copper	2.6	J	4.0	2.5	ug/L		11/08/24 18:50	11/08/24 22:16	1
Dissolved Iron	58.2	U	120	58.2	ug/L		11/08/24 18:50	11/08/24 22:16	1
Dissolved Lead	0.84	U	1.2	0.84	ug/L		11/08/24 18:50	11/08/24 22:16	1
Dissolved Magnesium	18300		200	46.9	ug/L		11/08/24 18:50	11/08/24 22:16	1
Dissolved Manganese	16.0		8.0	1.5	ug/L		11/08/24 18:50	11/08/24 22:16	1
Dissolved Nickel	1.3	J	4.0	0.91	ug/L		11/08/24 18:50	11/08/24 22:16	1
Dissolved Potassium	6930		200	112	ug/L		11/08/24 18:50	11/08/24 22:16	1
Dissolved Selenium	0.84	J	2.5	0.59	ug/L		11/08/24 18:50	11/08/24 22:16	1
Dissolved Silver	0.29	U	2.0	0.29	ug/L		11/08/24 18:50	11/08/24 22:16	1
Dissolved Sodium	63200		500	219	ug/L		11/08/24 18:50	11/08/24 22:16	1
Dissolved Thallium	0.21	U	0.80	0.21	ug/L		11/08/24 18:50	11/08/24 22:16	1
Dissolved Vanadium	0.68	U	4.0	0.68	ug/L		11/08/24 18:50	11/08/24 22:16	1
Dissolved Zinc	6.5	U	16.0	6.5	ug/L		11/08/24 18:50	11/08/24 22:16	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		11/11/24 14:36	11/11/24 15:38	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.091	U	0.20	0.091	ug/L		11/12/24 01:20	11/12/24 05:53	1

Client Sample ID: GW-11222397-110124-ES-20

Lab Sample ID: 460-314632-7

Date Collected: 10/30/24 10:50

Matrix: Water

Date Received: 11/02/24 09:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.48	U	2.0	0.48	ug/L			11/07/24 20:12	2
1,1,2,2-Tetrachloroethane	0.73	U	2.0	0.73	ug/L			11/07/24 20:12	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.62	U	2.0	0.62	ug/L			11/07/24 20:12	2
1,1,2-Trichloroethane	0.41	U	2.0	0.41	ug/L			11/07/24 20:12	2
1,1-Dichloroethane	0.53	U	2.0	0.53	ug/L			11/07/24 20:12	2
1,1-Dichloroethene	0.53	U	2.0	0.53	ug/L			11/07/24 20:12	2
1,2,3-Trichlorobenzene	0.71	U	2.0	0.71	ug/L			11/07/24 20:12	2
1,2,4-Trichlorobenzene	0.73	U	2.0	0.73	ug/L			11/07/24 20:12	2
1,2,4-Trimethylbenzene	280		2.0	0.75	ug/L			11/07/24 20:12	2
1,2-Dibromo-3-Chloropropane	0.75	U	2.0	0.75	ug/L			11/07/24 20:12	2
1,2-Dibromoethane	1.0	U	2.0	1.0	ug/L			11/07/24 20:12	2
1,2-Dichlorobenzene	0.42	U	2.0	0.42	ug/L			11/07/24 20:12	2
1,2-Dichloroethane	0.86	U	2.0	0.86	ug/L			11/07/24 20:12	2
1,2-Dichloropropane	0.71	U	2.0	0.71	ug/L			11/07/24 20:12	2
1,3-Dichlorobenzene	0.68	U	2.0	0.68	ug/L			11/07/24 20:12	2
1,4-Dichlorobenzene	0.67	U	2.0	0.67	ug/L			11/07/24 20:12	2
1,4-Dioxane	56	U *1	100	56	ug/L			11/07/24 20:12	2

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Client Sample ID: GW-11222397-110124-ES-20

Lab Sample ID: 460-314632-7

Date Collected: 10/30/24 10:50

Matrix: Water

Date Received: 11/02/24 09:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	3.7	U	10	3.7	ug/L			11/07/24 20:12	2
2-Hexanone	2.3	U	10	2.3	ug/L			11/07/24 20:12	2
4-Methyl-2-pentanone (MIBK)	2.6	U	10	2.6	ug/L			11/07/24 20:12	2
Acetone	16		10	8.8	ug/L			11/07/24 20:12	2
Benzene	0.41	U	2.0	0.41	ug/L			11/07/24 20:12	2
Bromoform	1.1	U *	2.0	1.1	ug/L			11/07/24 20:12	2
Bromomethane	1.1	U	2.0	1.1	ug/L			11/07/24 20:12	2
Carbon disulfide	1.6	U	2.0	1.6	ug/L			11/07/24 20:12	2
Carbon tetrachloride	0.42	U *	2.0	0.42	ug/L			11/07/24 20:12	2
Chlorobenzene	0.75	U	2.0	0.75	ug/L			11/07/24 20:12	2
Chlorobromomethane	0.82	U	2.0	0.82	ug/L			11/07/24 20:12	2
Chlorodibromomethane	0.56	U *	2.0	0.56	ug/L			11/07/24 20:12	2
Chloroethane	0.64	U	2.0	0.64	ug/L			11/07/24 20:12	2
Chloroform	0.65	U	2.0	0.65	ug/L			11/07/24 20:12	2
Chloromethane	0.80	U	2.0	0.80	ug/L			11/07/24 20:12	2
cis-1,2-Dichloroethene	0.44	U	2.0	0.44	ug/L			11/07/24 20:12	2
cis-1,3-Dichloropropene	0.44	U	2.0	0.44	ug/L			11/07/24 20:12	2
Cyclohexane	160		2.0	0.64	ug/L			11/07/24 20:12	2
Dichlorobromomethane	0.69	U *	2.0	0.69	ug/L			11/07/24 20:12	2
Dichlorodifluoromethane	0.62	U	2.0	0.62	ug/L			11/07/24 20:12	2
Ethylbenzene	170		2.0	0.60	ug/L			11/07/24 20:12	2
Isopropylbenzene	26		2.0	0.67	ug/L			11/07/24 20:12	2
Methyl acetate	1.6	U	10	1.6	ug/L			11/07/24 20:12	2
Methyl tert-butyl ether	0.43	U	2.0	0.43	ug/L			11/07/24 20:12	2
Methylcyclohexane	77		2.0	1.4	ug/L			11/07/24 20:12	2
Methylene Chloride	0.63	U	2.0	0.63	ug/L			11/07/24 20:12	2
m-Xylene & p-Xylene	400		2.0	0.59	ug/L			11/07/24 20:12	2
o-Xylene	110		2.0	0.72	ug/L			11/07/24 20:12	2
Styrene	0.92 J		2.0	0.83	ug/L			11/07/24 20:12	2
Tetrachloroethene	0.50	U	2.0	0.50	ug/L			11/07/24 20:12	2
Toluene	25		2.0	0.76	ug/L			11/07/24 20:12	2
trans-1,2-Dichloroethene	0.47	U	2.0	0.47	ug/L			11/07/24 20:12	2
trans-1,3-Dichloropropene	0.45	U	2.0	0.45	ug/L			11/07/24 20:12	2
Trichloroethene	0.63	U	2.0	0.63	ug/L			11/07/24 20:12	2
Trichlorofluoromethane	0.64	U	2.0	0.64	ug/L			11/07/24 20:12	2
Vinyl chloride	0.34	U	2.0	0.34	ug/L			11/07/24 20:12	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 128		11/07/24 20:12	2
Toluene-d8 (Surr)	100		80 - 120		11/07/24 20:12	2
4-Bromofluorobenzene	101		76 - 120		11/07/24 20:12	2
Dibromofluoromethane (Surr)	100		77 - 132		11/07/24 20:12	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	1.2	U F1	10	1.2	ug/L		11/03/24 08:30	11/03/24 16:54	1
1,2,4,5-Tetrachlorobenzene	1.2	U F1	10	1.2	ug/L		11/03/24 08:30	11/03/24 16:54	1
2,2'-oxybis[1-chloropropane]	0.63	U	10	0.63	ug/L		11/03/24 08:30	11/03/24 16:54	1
2,3,4,6-Tetrachlorophenol	0.75	U F1	10	0.75	ug/L		11/03/24 08:30	11/03/24 16:54	1
2,4,5-Trichlorophenol	0.88	U F1	10	0.88	ug/L		11/03/24 08:30	11/03/24 16:54	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Client Sample ID: GW-11222397-110124-ES-20

Lab Sample ID: 460-314632-7

Date Collected: 10/30/24 10:50

Matrix: Water

Date Received: 11/02/24 09:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	0.86	U F1	10	0.86	ug/L		11/03/24 08:30	11/03/24 16:54	1
2,4-Dichlorophenol	1.1	U F1	10	1.1	ug/L		11/03/24 08:30	11/03/24 16:54	1
2,4-Dimethylphenol	0.62	U F1	10	0.62	ug/L		11/03/24 08:30	11/03/24 16:54	1
2,4-Dinitrophenol	2.6	U F1	40	2.6	ug/L		11/03/24 08:30	11/03/24 16:54	1
2,4-Dinitrotoluene	1.0	U F1	10	1.0	ug/L		11/03/24 08:30	11/03/24 16:54	1
2,6-Dinitrotoluene	0.83	U F1	2.0	0.83	ug/L		11/03/24 08:30	11/03/24 16:54	1
2-Chloronaphthalene	1.2	U F1	10	1.2	ug/L		11/03/24 08:30	11/03/24 16:54	1
2-Chlorophenol	0.38	U F1	10	0.38	ug/L		11/03/24 08:30	11/03/24 16:54	1
2-Methylnaphthalene	6.5	J F1	10	0.53	ug/L		11/03/24 08:30	11/03/24 16:54	1
2-Methylphenol	0.67	U F1	10	0.67	ug/L		11/03/24 08:30	11/03/24 16:54	1
2-Nitroaniline	0.47	U	10	0.47	ug/L		11/03/24 08:30	11/03/24 16:54	1
2-Nitrophenol	0.75	U F1	10	0.75	ug/L		11/03/24 08:30	11/03/24 16:54	1
3,3'-Dichlorobenzidine	1.4	U	10	1.4	ug/L		11/03/24 08:30	11/03/24 16:54	1
3-Nitroaniline	1.9	U	10	1.9	ug/L		11/03/24 08:30	11/03/24 16:54	1
4,6-Dinitro-2-methylphenol	3.0	U F1	20	3.0	ug/L		11/03/24 08:30	11/03/24 16:54	1
4-Bromophenyl phenyl ether	0.75	U F1	10	0.75	ug/L		11/03/24 08:30	11/03/24 16:54	1
4-Chloro-3-methylphenol	0.58	U F1	10	0.58	ug/L		11/03/24 08:30	11/03/24 16:54	1
4-Chloroaniline	1.9	U F2	10	1.9	ug/L		11/03/24 08:30	11/03/24 16:54	1
4-Chlorophenyl phenyl ether	1.3	U F1	10	1.3	ug/L		11/03/24 08:30	11/03/24 16:54	1
4-Methylphenol	0.65	U F1	10	0.65	ug/L		11/03/24 08:30	11/03/24 16:54	1
4-Nitroaniline	1.2	U F1	10	1.2	ug/L		11/03/24 08:30	11/03/24 16:54	1
4-Nitrophenol	4.0	U F1	20	4.0	ug/L		11/03/24 08:30	11/03/24 16:54	1
Acenaphthene	1.1	U F1	10	1.1	ug/L		11/03/24 08:30	11/03/24 16:54	1
Acenaphthylene	0.82	U F1	10	0.82	ug/L		11/03/24 08:30	11/03/24 16:54	1
Acetophenone	2.3	U F1	10	2.3	ug/L		11/03/24 08:30	11/03/24 16:54	1
Anthracene	1.3	U F1	10	1.3	ug/L		11/03/24 08:30	11/03/24 16:54	1
Atrazine	1.3	U F1	2.0	1.3	ug/L		11/03/24 08:30	11/03/24 16:54	1
Benzaldehyde	2.1	U F1	10	2.1	ug/L		11/03/24 08:30	11/03/24 16:54	1
Benzo[a]anthracene	0.59	U F1	1.0	0.59	ug/L		11/03/24 08:30	11/03/24 16:54	1
Benzo[a]pyrene	0.41	U F1	1.0	0.41	ug/L		11/03/24 08:30	11/03/24 16:54	1
Benzo[b]fluoranthene	0.68	U F1	2.0	0.68	ug/L		11/03/24 08:30	11/03/24 16:54	1
Benzo[g,h,i]perylene	0.70	U F1	10	0.70	ug/L		11/03/24 08:30	11/03/24 16:54	1
Benzo[k]fluoranthene	0.67	U F1	1.0	0.67	ug/L		11/03/24 08:30	11/03/24 16:54	1
Bis(2-chloroethoxy)methane	0.59	U F1	10	0.59	ug/L		11/03/24 08:30	11/03/24 16:54	1
Bis(2-chloroethyl)ether	0.63	U F1	1.0	0.63	ug/L		11/03/24 08:30	11/03/24 16:54	1
Bis(2-ethylhexyl) phthalate	0.80	U F1	2.0	0.80	ug/L		11/03/24 08:30	11/03/24 16:54	1
Butyl benzyl phthalate	0.85	U F1	10	0.85	ug/L		11/03/24 08:30	11/03/24 16:54	1
Caprolactam	2.2	U	10	2.2	ug/L		11/03/24 08:30	11/03/24 16:54	1
Carbazole	0.68	U F1	10	0.68	ug/L		11/03/24 08:30	11/03/24 16:54	1
Chrysene	0.91	U F1	2.0	0.91	ug/L		11/03/24 08:30	11/03/24 16:54	1
Dibenz(a,h)anthracene	0.72	U	1.0	0.72	ug/L		11/03/24 08:30	11/03/24 16:54	1
Dibenzofuran	1.1	U F1	10	1.1	ug/L		11/03/24 08:30	11/03/24 16:54	1
Diethyl phthalate	0.98	U F1	10	0.98	ug/L		11/03/24 08:30	11/03/24 16:54	1
Dimethyl phthalate	0.77	U F1	10	0.77	ug/L		11/03/24 08:30	11/03/24 16:54	1
Di-n-butyl phthalate	0.84	U F1	10	0.84	ug/L		11/03/24 08:30	11/03/24 16:54	1
Di-n-octyl phthalate	0.75	U F1	10	0.75	ug/L		11/03/24 08:30	11/03/24 16:54	1
Fluoranthene	0.84	U F1	10	0.84	ug/L		11/03/24 08:30	11/03/24 16:54	1
Fluorene	0.91	U F1	10	0.91	ug/L		11/03/24 08:30	11/03/24 16:54	1
Hexachlorobenzene	0.40	U F1	1.0	0.40	ug/L		11/03/24 08:30	11/03/24 16:54	1

Eurofins Edison

Client Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Client Sample ID: GW-11222397-110124-ES-20

Lab Sample ID: 460-314632-7

Date Collected: 10/30/24 10:50

Matrix: Water

Date Received: 11/02/24 09:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	0.78	U	1.0	0.78	ug/L		11/03/24 08:30	11/03/24 16:54	1
Hexachlorocyclopentadiene	3.6	U F1	10	3.6	ug/L		11/03/24 08:30	11/03/24 16:54	1
Hexachloroethane	0.80	U	2.0	0.80	ug/L		11/03/24 08:30	11/03/24 16:54	1
Indeno[1,2,3-cd]pyrene	0.94	U	2.0	0.94	ug/L		11/03/24 08:30	11/03/24 16:54	1
Isophorone	0.80	U F1	10	0.80	ug/L		11/03/24 08:30	11/03/24 16:54	1
Naphthalene	43	F1	2.0	0.54	ug/L		11/03/24 08:30	11/03/24 16:54	1
Nitrobenzene	0.57	U F1	1.0	0.57	ug/L		11/03/24 08:30	11/03/24 16:54	1
N-Nitrosodi-n-propylamine	0.43	U F1	1.0	0.43	ug/L		11/03/24 08:30	11/03/24 16:54	1
N-Nitrosodiphenylamine	0.89	U F1	10	0.89	ug/L		11/03/24 08:30	11/03/24 16:54	1
Pentachlorophenol	1.4	U F1	20	1.4	ug/L		11/03/24 08:30	11/03/24 16:54	1
Phenanthrene	1.3	U F1	10	1.3	ug/L		11/03/24 08:30	11/03/24 16:54	1
Phenol	0.29	U	10	0.29	ug/L		11/03/24 08:30	11/03/24 16:54	1
Pyrene	1.6	U	10	1.6	ug/L		11/03/24 08:30	11/03/24 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	64		37 - 150	11/03/24 08:30	11/03/24 16:54	1
2-Fluorobiphenyl	69		46 - 139	11/03/24 08:30	11/03/24 16:54	1
2-Fluorophenol (Surr)	36		16 - 80	11/03/24 08:30	11/03/24 16:54	1
Nitrobenzene-d5 (Surr)	82		51 - 145	11/03/24 08:30	11/03/24 16:54	1
Phenol-d5 (Surr)	25		10 - 56	11/03/24 08:30	11/03/24 16:54	1
Terphenyl-d14 (Surr)	39		13 - 159	11/03/24 08:30	11/03/24 16:54	1

Client Sample ID: GW-11222397-110124-ES-21

Lab Sample ID: 460-314632-8

Date Collected: 10/30/24 13:15

Matrix: Water

Date Received: 11/02/24 09:46

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2910		40.0	19.5	ug/L		11/07/24 09:45	11/07/24 15:44	1
Antimony	0.76	U	2.0	0.76	ug/L		11/07/24 09:45	11/07/24 15:44	1
Arsenic	0.89	U	2.0	0.89	ug/L		11/07/24 09:45	11/07/24 15:44	1
Barium	217		4.0	0.91	ug/L		11/07/24 09:45	11/07/24 15:44	1
Beryllium	0.16	J	0.80	0.13	ug/L		11/07/24 09:45	11/07/24 15:44	1
Cadmium	0.39	U	2.0	0.39	ug/L		11/07/24 09:45	11/07/24 15:44	1
Calcium	31700		500	53.6	ug/L		11/07/24 09:45	11/07/24 15:44	1
Chromium	9.6		4.0	2.5	ug/L		11/07/24 09:45	11/07/24 15:44	1
Cobalt	9.4		4.0	0.71	ug/L		11/07/24 09:45	11/07/24 15:44	1
Copper	4.9		4.0	2.5	ug/L		11/07/24 09:45	11/07/24 15:44	1
Iron	2350		120	58.2	ug/L		11/07/24 09:45	11/07/24 15:44	1
Lead	4.1		1.2	0.84	ug/L		11/07/24 09:45	11/07/24 15:44	1
Magnesium	28200		200	46.9	ug/L		11/07/24 09:45	11/07/24 15:44	1
Manganese	2060		8.0	1.5	ug/L		11/07/24 09:45	11/07/24 15:44	1
Nickel	7.2		4.0	0.91	ug/L		11/07/24 09:45	11/07/24 15:44	1
Potassium	5050		200	112	ug/L		11/07/24 09:45	11/07/24 15:44	1
Selenium	0.59	U	2.5	0.59	ug/L		11/07/24 09:45	11/07/24 15:44	1
Silver	0.29	U	2.0	0.29	ug/L		11/07/24 09:45	11/07/24 15:44	1
Sodium	70200		500	219	ug/L		11/07/24 09:45	11/07/24 15:44	1
Thallium	0.21	U	0.80	0.21	ug/L		11/07/24 09:45	11/07/24 15:44	1
Vanadium	12.8		4.0	0.68	ug/L		11/07/24 09:45	11/07/24 15:44	1
Zinc	9.1	J	16.0	6.5	ug/L		11/07/24 09:45	11/07/24 15:44	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Client Sample ID: GW-11222397-110124-ES-21

Lab Sample ID: 460-314632-8

Date Collected: 10/30/24 13:15

Matrix: Water

Date Received: 11/02/24 09:46

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Aluminum	19.5	U	40.0	19.5	ug/L		11/08/24 18:50	11/08/24 22:21	1
Dissolved Antimony	0.76	U	2.0	0.76	ug/L		11/08/24 18:50	11/08/24 22:21	1
Dissolved Arsenic	0.89	U	2.0	0.89	ug/L		11/08/24 18:50	11/08/24 22:21	1
Dissolved Barium	222		4.0	0.91	ug/L		11/08/24 18:50	11/08/24 22:21	1
Dissolved Beryllium	0.13	U	0.80	0.13	ug/L		11/08/24 18:50	11/08/24 22:21	1
Dissolved Cadmium	0.39	U	2.0	0.39	ug/L		11/08/24 18:50	11/08/24 22:21	1
Dissolved Calcium	32400		500	53.6	ug/L		11/08/24 18:50	11/08/24 22:21	1
Dissolved Chromium	2.5	U	4.0	2.5	ug/L		11/08/24 18:50	11/08/24 22:21	1
Dissolved Cobalt	6.8		4.0	0.71	ug/L		11/08/24 18:50	11/08/24 22:21	1
Dissolved Copper	3.6	J	4.0	2.5	ug/L		11/08/24 18:50	11/08/24 22:21	1
Dissolved Iron	58.2	U	120	58.2	ug/L		11/08/24 18:50	11/08/24 22:21	1
Dissolved Lead	0.84	U	1.2	0.84	ug/L		11/08/24 18:50	11/08/24 22:21	1
Dissolved Magnesium	26600		200	46.9	ug/L		11/08/24 18:50	11/08/24 22:21	1
Dissolved Manganese	1880		8.0	1.5	ug/L		11/08/24 18:50	11/08/24 22:21	1
Dissolved Nickel	5.0		4.0	0.91	ug/L		11/08/24 18:50	11/08/24 22:21	1
Dissolved Potassium	4830		200	112	ug/L		11/08/24 18:50	11/08/24 22:21	1
Dissolved Selenium	0.84	J	2.5	0.59	ug/L		11/08/24 18:50	11/08/24 22:21	1
Dissolved Silver	0.29	U	2.0	0.29	ug/L		11/08/24 18:50	11/08/24 22:21	1
Dissolved Sodium	66900		500	219	ug/L		11/08/24 18:50	11/08/24 22:21	1
Dissolved Thallium	0.21	U	0.80	0.21	ug/L		11/08/24 18:50	11/08/24 22:21	1
Dissolved Vanadium	1.5	J	4.0	0.68	ug/L		11/08/24 18:50	11/08/24 22:21	1
Dissolved Zinc	6.5	U	16.0	6.5	ug/L		11/08/24 18:50	11/08/24 22:21	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		11/11/24 14:36	11/11/24 15:39	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.091	U	0.20	0.091	ug/L		11/12/24 01:20	11/12/24 05:55	1

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (70-128)	TOL (80-120)	BFB (76-120)	DBFM (77-132)
460-314626-B-12 MS	Matrix Spike	103	97	102	111
460-314626-B-12 MSD	Matrix Spike Duplicate	99	101	101	109
460-314632-3	GW-11222397-103124-ES-16	103	98	100	114
460-314632-4	TB-11222397-103124-ES-17	107	101	105	115
460-314632-7	GW-11222397-110124-ES-20	97	100	101	100
LCS 460-1005453/5	Lab Control Sample	98	100	101	109
LCS 460-1005726/3	Lab Control Sample	103	100	101	109
LCSD 460-1005726/4	Lab Control Sample Dup	98	100	99	111
MB 460-1005453/9	Method Blank	99	97	100	109
MB 460-1005726/8	Method Blank	105	97	100	112

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TBP (37-150)	FBP (46-139)	2FP (16-80)	NBZ (51-145)	PHL (10-56)	TPHL (13-159)
460-314632-7	GW-11222397-110124-ES-20	64	69	36	82	25	39
460-314632-7 MS	GW-11222397-110124-ES-20	146	108	74	103	56	62
460-314632-7 MSD	GW-11222397-110124-ES-20	159 S1+	124	89 S1+	117	69 S1+	81
LCS 460-1005004/2-A	Lab Control Sample	90	84	59	92	46	60
LCS 460-1005524/2-A	Lab Control Sample	120	99	41	94	27	79
LCSD 460-1005004/3-A	Lab Control Sample Dup	86	85	59	92	48	62
LCSD 460-1005524/3-A	Lab Control Sample Dup	120	99	40	94	27	79
MB 460-1005004/1-A	Method Blank	68	78	44	84	31	47
MB 460-1005524/1-A	Method Blank	134	107	75	109	53	95

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

QC Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

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

Lab Sample ID: MB 460-1005453/9

Matrix: Water

Analysis Batch: 1005453

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			11/06/24 10:03	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/06/24 10:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/06/24 10:03	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/06/24 10:03	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/06/24 10:03	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/06/24 10:03	1
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L			11/06/24 10:03	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/06/24 10:03	1
1,2,4-Trimethylbenzene	0.37	U	1.0	0.37	ug/L			11/06/24 10:03	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/06/24 10:03	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/06/24 10:03	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/06/24 10:03	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			11/06/24 10:03	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/06/24 10:03	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/06/24 10:03	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/06/24 10:03	1
1,4-Dioxane	28	U	50	28	ug/L			11/06/24 10:03	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			11/06/24 10:03	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/06/24 10:03	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			11/06/24 10:03	1
Acetone	4.4	U	5.0	4.4	ug/L			11/06/24 10:03	1
Benzene	0.20	U	1.0	0.20	ug/L			11/06/24 10:03	1
Bromoform	0.54	U	1.0	0.54	ug/L			11/06/24 10:03	1
Bromomethane	0.55	U	1.0	0.55	ug/L			11/06/24 10:03	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			11/06/24 10:03	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			11/06/24 10:03	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/06/24 10:03	1
Chlorobromomethane	0.41	U	1.0	0.41	ug/L			11/06/24 10:03	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			11/06/24 10:03	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/06/24 10:03	1
Chloroform	0.33	U	1.0	0.33	ug/L			11/06/24 10:03	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/06/24 10:03	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			11/06/24 10:03	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/06/24 10:03	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			11/06/24 10:03	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			11/06/24 10:03	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/06/24 10:03	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			11/06/24 10:03	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			11/06/24 10:03	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/06/24 10:03	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/06/24 10:03	1
Methylcyclohexane	0.71	U	1.0	0.71	ug/L			11/06/24 10:03	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			11/06/24 10:03	1
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L			11/06/24 10:03	1
o-Xylene	0.36	U	1.0	0.36	ug/L			11/06/24 10:03	1
Styrene	0.42	U	1.0	0.42	ug/L			11/06/24 10:03	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			11/06/24 10:03	1
Toluene	0.38	U	1.0	0.38	ug/L			11/06/24 10:03	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

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

Lab Sample ID: MB 460-1005453/9

Matrix: Water

Analysis Batch: 1005453

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/06/24 10:03	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/06/24 10:03	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			11/06/24 10:03	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			11/06/24 10:03	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			11/06/24 10:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 128		11/06/24 10:03	1
Toluene-d8 (Surr)	97		80 - 120		11/06/24 10:03	1
4-Bromofluorobenzene	100		76 - 120		11/06/24 10:03	1
Dibromofluoromethane (Surr)	109		77 - 132		11/06/24 10:03	1

Lab Sample ID: LCS 460-1005453/5

Matrix: Water

Analysis Batch: 1005453

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	24.3		ug/L		122	72 - 128
1,1,2,2-Tetrachloroethane	20.0	24.1		ug/L		120	63 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	24.2		ug/L		121	65 - 142
1,1,2-Trichloroethane	20.0	21.2		ug/L		106	74 - 125
1,1-Dichloroethane	20.0	21.6		ug/L		108	73 - 130
1,1-Dichloroethene	20.0	21.2		ug/L		106	68 - 133
1,2,3-Trichlorobenzene	20.0	23.4		ug/L		117	55 - 150
1,2,4-Trichlorobenzene	20.0	23.1		ug/L		116	67 - 132
1,2,4-Trimethylbenzene	20.0	21.9		ug/L		109	75 - 125
1,2-Dibromo-3-Chloropropane	20.0	23.1		ug/L		115	58 - 132
1,2-Dibromoethane	20.0	22.1		ug/L		111	79 - 126
1,2-Dichlorobenzene	20.0	22.4		ug/L		112	80 - 120
1,2-Dichloroethane	20.0	21.2		ug/L		106	66 - 129
1,2-Dichloropropane	20.0	22.7		ug/L		114	72 - 128
1,3-Dichlorobenzene	20.0	22.9		ug/L		115	80 - 120
1,4-Dichlorobenzene	20.0	22.5		ug/L		113	80 - 120
1,4-Dioxane	400	369		ug/L		92	42 - 150
2-Butanone (MEK)	100	110		ug/L		110	65 - 142
2-Hexanone	100	116		ug/L		116	72 - 134
4-Methyl-2-pentanone (MIBK)	100	116		ug/L		116	77 - 130
Acetone	100	90.6		ug/L		91	60 - 133
Benzene	20.0	20.6		ug/L		103	71 - 126
Bromoform	20.0	37.5	*+	ug/L		188	58 - 128
Bromomethane	20.0	16.0		ug/L		80	33 - 150
Carbon disulfide	20.0	19.3		ug/L		96	35 - 150
Carbon tetrachloride	20.0	33.0	*+	ug/L		165	65 - 131
Chlorobenzene	20.0	21.2		ug/L		106	80 - 120
Chlorobromomethane	20.0	23.3		ug/L		117	71 - 134
Chlorodibromomethane	20.0	33.9	*+	ug/L		170	73 - 121
Chloroethane	20.0	22.4		ug/L		112	54 - 150
Chloroform	20.0	21.8		ug/L		109	78 - 125

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

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

Lab Sample ID: LCS 460-1005453/5

Matrix: Water

Analysis Batch: 1005453

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloromethane	20.0	16.9		ug/L		85	43 - 149
cis-1,2-Dichloroethene	20.0	20.3		ug/L		102	78 - 121
cis-1,3-Dichloropropene	20.0	22.2		ug/L		111	74 - 125
Cyclohexane	20.0	22.4		ug/L		112	64 - 142
Dichlorobromomethane	20.0	28.6	*+	ug/L		143	76 - 121
Dichlorodifluoromethane	20.0	16.9		ug/L		85	38 - 144
Ethylbenzene	20.0	21.1		ug/L		106	78 - 120
Isopropylbenzene	20.0	20.8		ug/L		104	79 - 125
Methyl acetate	40.0	49.3		ug/L		123	50 - 147
Methyl tert-butyl ether	20.0	22.0		ug/L		110	72 - 131
Methylcyclohexane	20.0	24.0		ug/L		120	63 - 138
Methylene Chloride	20.0	22.0		ug/L		110	74 - 127
m-Xylene & p-Xylene	20.0	21.3		ug/L		106	78 - 120
o-Xylene	20.0	21.4		ug/L		107	78 - 120
Styrene	20.0	21.2		ug/L		106	82 - 127
Tetrachloroethene	20.0	20.9		ug/L		104	70 - 127
Toluene	20.0	20.9		ug/L		105	78 - 120
trans-1,2-Dichloroethene	20.0	21.5		ug/L		107	70 - 126
trans-1,3-Dichloropropene	20.0	23.0		ug/L		115	71 - 127
Trichloroethene	20.0	21.2		ug/L		106	73 - 121
Trichlorofluoromethane	20.0	21.5		ug/L		107	62 - 134
Vinyl chloride	20.0	17.4		ug/L		87	55 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 128
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene	101		76 - 120
Dibromofluoromethane (Surr)	109		77 - 132

Lab Sample ID: 460-314626-B-12 MS

Matrix: Water

Analysis Batch: 1005453

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	12	U	1000	1060		ug/L		106	72 - 128
1,1,2,2-Tetrachloroethane	18	U	1000	1040		ug/L		104	63 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	16	U	1000	1080		ug/L		108	65 - 142
1,1,2-Trichloroethane	10	U	1000	933		ug/L		93	74 - 125
1,1-Dichloroethane	13	U	1000	987		ug/L		99	73 - 130
1,1-Dichloroethene	13	U	1000	971		ug/L		97	68 - 133
1,2,3-Trichlorobenzene	18	U	1000	1010		ug/L		101	55 - 150
1,2,4-Trichlorobenzene	18	U	1000	969		ug/L		97	67 - 132
1,2,4-Trimethylbenzene	1200		1000	2110		ug/L		91	75 - 125
1,2-Dibromo-3-Chloropropane	19	U	1000	959		ug/L		96	58 - 132
1,2-Dibromoethane	25	U	1000	994		ug/L		99	79 - 126
1,2-Dichlorobenzene	11	U	1000	947		ug/L		95	80 - 120
1,2-Dichloroethane	22	U	1000	989		ug/L		99	66 - 129
1,2-Dichloropropane	18	U	1000	1020		ug/L		102	72 - 128

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

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

Lab Sample ID: 460-314626-B-12 MS

Matrix: Water

Analysis Batch: 1005453

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichlorobenzene	17	U	1000	979		ug/L		98	80 - 120
1,4-Dichlorobenzene	17	U	1000	925		ug/L		92	80 - 120
1,4-Dioxane	1400	U	20000	13600		ug/L		68	42 - 150
2-Butanone (MEK)	93	U	5000	4500		ug/L		90	65 - 142
2-Hexanone	57	U	5000	4960		ug/L		99	72 - 134
4-Methyl-2-pentanone (MIBK)	65	U	5000	4960		ug/L		99	77 - 130
Acetone	220	U	5000	3610		ug/L		72	60 - 133
Benzene	300		1000	1230		ug/L		93	71 - 126
Bromoform	27	U *+ F1	1000	1670	F1	ug/L		167	58 - 128
Bromomethane	28	U	1000	836		ug/L		84	33 - 150
Carbon disulfide	41	U	1000	1010		ug/L		101	35 - 150
Carbon tetrachloride	10	U *+ F1	1000	1440	F1	ug/L		144	65 - 131
Chlorobenzene	19	U	1000	930		ug/L		93	80 - 120
Chlorobromomethane	21	U	1000	1060		ug/L		106	71 - 134
Chlorodibromomethane	14	U *+ F1	1000	1520	F1	ug/L		152	73 - 121
Chloroethane	16	U	1000	1130		ug/L		113	54 - 150
Chloroform	16	U	1000	1010		ug/L		101	78 - 125
Chloromethane	20	U	1000	936		ug/L		94	43 - 149
cis-1,2-Dichloroethene	11	U	1000	966		ug/L		97	78 - 121
cis-1,3-Dichloropropene	11	U	1000	1000		ug/L		100	74 - 125
Cyclohexane	51		1000	1120		ug/L		107	64 - 142
Dichlorobromomethane	17	U *+ F1	1000	1280	F1	ug/L		128	76 - 121
Dichlorodifluoromethane	16	U	1000	970		ug/L		97	38 - 144
Ethylbenzene	2400		1000	3230		ug/L		85	78 - 120
Isopropylbenzene	40	J	1000	969		ug/L		93	79 - 125
Methyl acetate	39	U	2000	2040		ug/L		102	50 - 147
Methyl tert-butyl ether	11	U	1000	1020		ug/L		102	72 - 131
Methylcyclohexane	38	J	1000	1160		ug/L		112	63 - 138
Methylene Chloride	16	U	1000	1030		ug/L		103	74 - 127
m-Xylene & p-Xylene	8200		1000	8850	4	ug/L		62	78 - 120
o-Xylene	2900		1000	3790		ug/L		88	78 - 120
Styrene	21	U	1000	1080		ug/L		108	82 - 127
Tetrachloroethene	12	U	1000	918		ug/L		92	70 - 127
Toluene	24000		1000	24000	4	ug/L		11	78 - 120
trans-1,2-Dichloroethene	12	U	1000	978		ug/L		98	70 - 126
trans-1,3-Dichloropropene	11	U	1000	1010		ug/L		101	71 - 127
Trichloroethene	16	U	1000	938		ug/L		94	73 - 121
Trichlorofluoromethane	16	U	1000	1070		ug/L		107	62 - 134
Vinyl chloride	8.6	U	1000	983		ug/L		98	55 - 144

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 128
Toluene-d8 (Surr)	97		80 - 120
4-Bromofluorobenzene	102		76 - 120
Dibromofluoromethane (Surr)	111		77 - 132

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

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

Lab Sample ID: 460-314626-B-12 MSD

Matrix: Water

Analysis Batch: 1005453

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	12	U	1000	1130		ug/L		113	72 - 128	7	30
1,1,2,2-Tetrachloroethane	18	U	1000	1140		ug/L		114	63 - 139	9	30
1,1,2-Trichloro-1,2,2-trifluoroethane	16	U	1000	1140		ug/L		114	65 - 142	6	30
1,1,2-Trichloroethane	10	U	1000	1020		ug/L		102	74 - 125	9	30
1,1-Dichloroethane	13	U	1000	1040		ug/L		104	73 - 130	5	30
1,1-Dichloroethene	13	U	1000	1050		ug/L		105	68 - 133	7	30
1,2,3-Trichlorobenzene	18	U	1000	1080		ug/L		108	55 - 150	6	30
1,2,4-Trichlorobenzene	18	U	1000	1080		ug/L		108	67 - 132	11	30
1,2,4-Trimethylbenzene	1200		1000	2270		ug/L		107	75 - 125	7	30
1,2-Dibromo-3-Chloropropane	19	U	1000	1110		ug/L		111	58 - 132	15	30
1,2-Dibromoethane	25	U	1000	1100		ug/L		110	79 - 126	11	30
1,2-Dichlorobenzene	11	U	1000	1020		ug/L		102	80 - 120	7	30
1,2-Dichloroethane	22	U	1000	1030		ug/L		103	66 - 129	4	30
1,2-Dichloropropane	18	U	1000	1080		ug/L		108	72 - 128	6	30
1,3-Dichlorobenzene	17	U	1000	1070		ug/L		107	80 - 120	9	30
1,4-Dichlorobenzene	17	U	1000	1010		ug/L		101	80 - 120	9	30
1,4-Dioxane	1400	U	20000	14600		ug/L		73	42 - 150	7	30
2-Butanone (MEK)	93	U	5000	5050		ug/L		101	65 - 142	12	30
2-Hexanone	57	U	5000	5520		ug/L		110	72 - 134	11	30
4-Methyl-2-pentanone (MIBK)	65	U	5000	5510		ug/L		110	77 - 130	10	30
Acetone	220	U	5000	4190		ug/L		84	60 - 133	15	30
Benzene	300		1000	1330		ug/L		103	71 - 126	8	30
Bromoform	27	U *+ F1	1000	1800	F1	ug/L		180	58 - 128	8	30
Bromomethane	28	U	1000	889		ug/L		89	33 - 150	6	30
Carbon disulfide	41	U	1000	1070		ug/L		107	35 - 150	5	30
Carbon tetrachloride	10	U *+ F1	1000	1520	F1	ug/L		152	65 - 131	5	30
Chlorobenzene	19	U	1000	1020		ug/L		102	80 - 120	10	30
Chlorobromomethane	21	U	1000	1090		ug/L		109	71 - 134	2	30
Chlorodibromomethane	14	U *+ F1	1000	1670	F1	ug/L		167	73 - 121	9	30
Chloroethane	16	U	1000	1150		ug/L		115	54 - 150	1	30
Chloroform	16	U	1000	1050		ug/L		105	78 - 125	3	30
Chloromethane	20	U	1000	1010		ug/L		101	43 - 149	7	30
cis-1,2-Dichloroethene	11	U	1000	1010		ug/L		101	78 - 121	5	30
cis-1,3-Dichloropropene	11	U	1000	1100		ug/L		110	74 - 125	10	30
Cyclohexane	51		1000	1170		ug/L		112	64 - 142	4	30
Dichlorobromomethane	17	U *+ F1	1000	1360	F1	ug/L		136	76 - 121	6	30
Dichlorodifluoromethane	16	U	1000	1010		ug/L		101	38 - 144	4	30
Ethylbenzene	2400		1000	3560		ug/L		118	78 - 120	10	30
Isopropylbenzene	40	J	1000	1030		ug/L		99	79 - 125	6	30
Methyl acetate	39	U	2000	2150		ug/L		108	50 - 147	5	30
Methyl tert-butyl ether	11	U	1000	1060		ug/L		106	72 - 131	4	30
Methylcyclohexane	38	J	1000	1230		ug/L		119	63 - 138	6	30
Methylene Chloride	16	U	1000	1070		ug/L		107	74 - 127	3	30
m-Xylene & p-Xylene	8200		1000	9530	4	ug/L		129	78 - 120	7	30
o-Xylene	2900		1000	4090		ug/L		117	78 - 120	7	30
Styrene	21	U	1000	1150		ug/L		115	82 - 127	7	30
Tetrachloroethene	12	U	1000	991		ug/L		99	70 - 127	8	30
Toluene	24000		1000	25800	E 4	ug/L		191	78 - 120	7	30

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

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

Lab Sample ID: 460-314626-B-12 MSD

Matrix: Water

Analysis Batch: 1005453

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	12	U	1000	1020		ug/L		102	70 - 126	5	30
trans-1,3-Dichloropropene	11	U	1000	1100		ug/L		110	71 - 127	8	30
Trichloroethene	16	U	1000	1000		ug/L		100	73 - 121	7	30
Trichlorofluoromethane	16	U	1000	1140		ug/L		114	62 - 134	6	30
Vinyl chloride	8.6	U	1000	1020		ug/L		102	55 - 144	4	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 128
Toluene-d8 (Surr)	101		80 - 120
4-Bromofluorobenzene	101		76 - 120
Dibromofluoromethane (Surr)	109		77 - 132

Lab Sample ID: MB 460-1005726/8

Matrix: Water

Analysis Batch: 1005726

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			11/07/24 11:08	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/07/24 11:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/07/24 11:08	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/07/24 11:08	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/07/24 11:08	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/07/24 11:08	1
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L			11/07/24 11:08	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/07/24 11:08	1
1,2,4-Trimethylbenzene	0.37	U	1.0	0.37	ug/L			11/07/24 11:08	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/07/24 11:08	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/07/24 11:08	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/07/24 11:08	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			11/07/24 11:08	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/07/24 11:08	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/07/24 11:08	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/07/24 11:08	1
1,4-Dioxane	28	U	50	28	ug/L			11/07/24 11:08	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			11/07/24 11:08	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/07/24 11:08	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			11/07/24 11:08	1
Acetone	4.4	U	5.0	4.4	ug/L			11/07/24 11:08	1
Benzene	0.20	U	1.0	0.20	ug/L			11/07/24 11:08	1
Bromoform	0.54	U	1.0	0.54	ug/L			11/07/24 11:08	1
Bromomethane	0.55	U	1.0	0.55	ug/L			11/07/24 11:08	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			11/07/24 11:08	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			11/07/24 11:08	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/07/24 11:08	1
Chlorobromomethane	0.41	U	1.0	0.41	ug/L			11/07/24 11:08	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			11/07/24 11:08	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/07/24 11:08	1
Chloroform	0.33	U	1.0	0.33	ug/L			11/07/24 11:08	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

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

Lab Sample ID: MB 460-1005726/8

Matrix: Water

Analysis Batch: 1005726

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.40	U	1.0	0.40	ug/L			11/07/24 11:08	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			11/07/24 11:08	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/07/24 11:08	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			11/07/24 11:08	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			11/07/24 11:08	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/07/24 11:08	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			11/07/24 11:08	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			11/07/24 11:08	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/07/24 11:08	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/07/24 11:08	1
Methylcyclohexane	0.71	U	1.0	0.71	ug/L			11/07/24 11:08	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			11/07/24 11:08	1
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L			11/07/24 11:08	1
o-Xylene	0.36	U	1.0	0.36	ug/L			11/07/24 11:08	1
Styrene	0.42	U	1.0	0.42	ug/L			11/07/24 11:08	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			11/07/24 11:08	1
Toluene	0.38	U	1.0	0.38	ug/L			11/07/24 11:08	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/07/24 11:08	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/07/24 11:08	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			11/07/24 11:08	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			11/07/24 11:08	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			11/07/24 11:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 128		11/07/24 11:08	1
Toluene-d8 (Surr)	97		80 - 120		11/07/24 11:08	1
4-Bromofluorobenzene	100		76 - 120		11/07/24 11:08	1
Dibromofluoromethane (Surr)	112		77 - 132		11/07/24 11:08	1

Lab Sample ID: LCS 460-1005726/3

Matrix: Water

Analysis Batch: 1005726

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	22.0		ug/L		110	72 - 128
1,1,2,2-Tetrachloroethane	20.0	20.3		ug/L		101	63 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.9		ug/L		109	65 - 142
1,1,2-Trichloroethane	20.0	18.9		ug/L		95	74 - 125
1,1-Dichloroethane	20.0	20.0		ug/L		100	73 - 130
1,1-Dichloroethene	20.0	19.1		ug/L		95	68 - 133
1,2,3-Trichlorobenzene	20.0	18.9		ug/L		94	55 - 150
1,2,4-Trichlorobenzene	20.0	18.5		ug/L		92	67 - 132
1,2,4-Trimethylbenzene	20.0	18.4		ug/L		92	75 - 125
1,2-Dibromo-3-Chloropropane	20.0	20.3		ug/L		101	58 - 132
1,2-Dibromoethane	20.0	19.1		ug/L		96	79 - 126
1,2-Dichlorobenzene	20.0	18.6		ug/L		93	80 - 120
1,2-Dichloroethane	20.0	19.2		ug/L		96	66 - 129
1,2-Dichloropropane	20.0	21.1		ug/L		106	72 - 128

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

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

Lab Sample ID: LCS 460-1005726/3

Matrix: Water

Analysis Batch: 1005726

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichlorobenzene	20.0	19.3		ug/L		97	80 - 120
1,4-Dichlorobenzene	20.0	18.7		ug/L		94	80 - 120
1,4-Dioxane	400	261		ug/L		65	42 - 150
2-Butanone (MEK)	100	88.8		ug/L		89	65 - 142
2-Hexanone	100	92.7		ug/L		93	72 - 134
4-Methyl-2-pentanone (MIBK)	100	95.2		ug/L		95	77 - 130
Acetone	100	80.5		ug/L		80	60 - 133
Benzene	20.0	18.8		ug/L		94	71 - 126
Bromoform	20.0	34.7	*+	ug/L		174	58 - 128
Bromomethane	20.0	17.1		ug/L		85	33 - 150
Carbon disulfide	20.0	19.1		ug/L		95	35 - 150
Carbon tetrachloride	20.0	30.3	*+	ug/L		152	65 - 131
Chlorobenzene	20.0	18.7		ug/L		94	80 - 120
Chlorobromomethane	20.0	21.0		ug/L		105	71 - 134
Chlorodibromomethane	20.0	30.3	*+	ug/L		152	73 - 121
Chloroethane	20.0	23.5		ug/L		117	54 - 150
Chloroform	20.0	20.2		ug/L		101	78 - 125
Chloromethane	20.0	18.6		ug/L		93	43 - 149
cis-1,2-Dichloroethene	20.0	19.9		ug/L		99	78 - 121
cis-1,3-Dichloropropene	20.0	20.4		ug/L		102	74 - 125
Cyclohexane	20.0	20.8		ug/L		104	64 - 142
Dichlorobromomethane	20.0	25.7	*+	ug/L		128	76 - 121
Dichlorodifluoromethane	20.0	17.5		ug/L		88	38 - 144
Ethylbenzene	20.0	18.4		ug/L		92	78 - 120
Isopropylbenzene	20.0	19.0		ug/L		95	79 - 125
Methyl acetate	40.0	41.3		ug/L		103	50 - 147
Methyl tert-butyl ether	20.0	19.3		ug/L		96	72 - 131
Methylcyclohexane	20.0	22.7		ug/L		113	63 - 138
Methylene Chloride	20.0	20.1		ug/L		101	74 - 127
m-Xylene & p-Xylene	20.0	18.9		ug/L		95	78 - 120
o-Xylene	20.0	18.3		ug/L		91	78 - 120
Styrene	20.0	18.4		ug/L		92	82 - 127
Tetrachloroethene	20.0	19.3		ug/L		97	70 - 127
Toluene	20.0	18.9		ug/L		95	78 - 120
trans-1,2-Dichloroethene	20.0	19.4		ug/L		97	70 - 126
trans-1,3-Dichloropropene	20.0	19.9		ug/L		100	71 - 127
Trichloroethene	20.0	19.3		ug/L		97	73 - 121
Trichlorofluoromethane	20.0	22.0		ug/L		110	62 - 134
Vinyl chloride	20.0	18.3		ug/L		92	55 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 128
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene	101		76 - 120
Dibromofluoromethane (Surr)	109		77 - 132

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

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

Lab Sample ID: LCSD 460-1005726/4

Matrix: Water

Analysis Batch: 1005726

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	22.9		ug/L		115	72 - 128	4	30
1,1,2,2-Tetrachloroethane	20.0	22.9		ug/L		114	63 - 139	12	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	23.0		ug/L		115	65 - 142	5	30
1,1,2-Trichloroethane	20.0	20.5		ug/L		103	74 - 125	8	30
1,1-Dichloroethane	20.0	21.2		ug/L		106	73 - 130	6	30
1,1-Dichloroethene	20.0	20.2		ug/L		101	68 - 133	5	30
1,2,3-Trichlorobenzene	20.0	21.5		ug/L		108	55 - 150	13	30
1,2,4-Trichlorobenzene	20.0	20.5		ug/L		103	67 - 132	11	30
1,2,4-Trimethylbenzene	20.0	20.4		ug/L		102	75 - 125	11	30
1,2-Dibromo-3-Chloropropane	20.0	21.6		ug/L		108	58 - 132	6	30
1,2-Dibromoethane	20.0	20.5		ug/L		102	79 - 126	7	30
1,2-Dichlorobenzene	20.0	20.4		ug/L		102	80 - 120	9	30
1,2-Dichloroethane	20.0	20.2		ug/L		101	66 - 129	5	30
1,2-Dichloropropane	20.0	21.7		ug/L		109	72 - 128	3	30
1,3-Dichlorobenzene	20.0	21.3		ug/L		107	80 - 120	10	30
1,4-Dichlorobenzene	20.0	20.4		ug/L		102	80 - 120	9	30
1,4-Dioxane	400	360	*1	ug/L		90	42 - 150	32	30
2-Butanone (MEK)	100	99.6		ug/L		100	65 - 142	11	30
2-Hexanone	100	106		ug/L		106	72 - 134	13	30
4-Methyl-2-pentanone (MIBK)	100	105		ug/L		105	77 - 130	9	30
Acetone	100	84.5		ug/L		84	60 - 133	5	30
Benzene	20.0	20.3		ug/L		101	71 - 126	8	30
Bromoform	20.0	36.7	*+	ug/L		183	58 - 128	6	30
Bromomethane	20.0	18.2		ug/L		91	33 - 150	6	30
Carbon disulfide	20.0	20.0		ug/L		100	35 - 150	5	30
Carbon tetrachloride	20.0	32.0	*+	ug/L		160	65 - 131	5	30
Chlorobenzene	20.0	19.8		ug/L		99	80 - 120	6	30
Chlorobromomethane	20.0	21.6		ug/L		108	71 - 134	3	30
Chlorodibromomethane	20.0	32.6	*+	ug/L		163	73 - 121	7	30
Chloroethane	20.0	22.6		ug/L		113	54 - 150	4	30
Chloroform	20.0	20.5		ug/L		103	78 - 125	2	30
Chloromethane	20.0	19.5		ug/L		98	43 - 149	5	30
cis-1,2-Dichloroethene	20.0	21.1		ug/L		105	78 - 121	6	30
cis-1,3-Dichloropropene	20.0	21.8		ug/L		109	74 - 125	7	30
Cyclohexane	20.0	22.1		ug/L		110	64 - 142	6	30
Dichlorobromomethane	20.0	27.6	*+	ug/L		138	76 - 121	7	30
Dichlorodifluoromethane	20.0	18.2		ug/L		91	38 - 144	4	30
Ethylbenzene	20.0	19.8		ug/L		99	78 - 120	7	30
Isopropylbenzene	20.0	20.0		ug/L		100	79 - 125	5	30
Methyl acetate	40.0	42.6		ug/L		107	50 - 147	3	30
Methyl tert-butyl ether	20.0	20.4		ug/L		102	72 - 131	6	30
Methylcyclohexane	20.0	23.5		ug/L		118	63 - 138	4	30
Methylene Chloride	20.0	21.1		ug/L		105	74 - 127	5	30
m-Xylene & p-Xylene	20.0	20.1		ug/L		101	78 - 120	6	30
o-Xylene	20.0	19.8		ug/L		99	78 - 120	8	30
Styrene	20.0	19.7		ug/L		98	82 - 127	7	30
Tetrachloroethene	20.0	20.6		ug/L		103	70 - 127	6	30
Toluene	20.0	20.0		ug/L		100	78 - 120	6	30

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

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

Lab Sample ID: LCSD 460-1005726/4

Matrix: Water

Analysis Batch: 1005726

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	20.0	20.3		ug/L		101	70 - 126	4	30
trans-1,3-Dichloropropene	20.0	21.8		ug/L		109	71 - 127	9	30
Trichloroethene	20.0	20.6		ug/L		103	73 - 121	6	30
Trichlorofluoromethane	20.0	22.6		ug/L		113	62 - 134	3	30
Vinyl chloride	20.0	20.1		ug/L		100	55 - 144	9	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 128
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene	99		76 - 120
Dibromofluoromethane (Surr)	111		77 - 132

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

Lab Sample ID: MB 460-1005004/1-A

Matrix: Water

Analysis Batch: 1005022

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1005004

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	1.2	U	10	1.2	ug/L		11/03/24 08:30	11/03/24 15:27	1
1,2,4,5-Tetrachlorobenzene	1.2	U	10	1.2	ug/L		11/03/24 08:30	11/03/24 15:27	1
2,2'-oxybis[1-chloropropane]	0.63	U	10	0.63	ug/L		11/03/24 08:30	11/03/24 15:27	1
2,3,4,6-Tetrachlorophenol	0.75	U	10	0.75	ug/L		11/03/24 08:30	11/03/24 15:27	1
2,4,5-Trichlorophenol	0.88	U	10	0.88	ug/L		11/03/24 08:30	11/03/24 15:27	1
2,4,6-Trichlorophenol	0.86	U	10	0.86	ug/L		11/03/24 08:30	11/03/24 15:27	1
2,4-Dichlorophenol	1.1	U	10	1.1	ug/L		11/03/24 08:30	11/03/24 15:27	1
2,4-Dimethylphenol	0.62	U	10	0.62	ug/L		11/03/24 08:30	11/03/24 15:27	1
2,4-Dinitrophenol	2.6	U	40	2.6	ug/L		11/03/24 08:30	11/03/24 15:27	1
2,4-Dinitrotoluene	1.0	U	10	1.0	ug/L		11/03/24 08:30	11/03/24 15:27	1
2,6-Dinitrotoluene	0.83	U	2.0	0.83	ug/L		11/03/24 08:30	11/03/24 15:27	1
2-Chloronaphthalene	1.2	U	10	1.2	ug/L		11/03/24 08:30	11/03/24 15:27	1
2-Chlorophenol	0.38	U	10	0.38	ug/L		11/03/24 08:30	11/03/24 15:27	1
2-Methylnaphthalene	0.53	U	10	0.53	ug/L		11/03/24 08:30	11/03/24 15:27	1
2-Methylphenol	0.67	U	10	0.67	ug/L		11/03/24 08:30	11/03/24 15:27	1
2-Nitroaniline	0.47	U	10	0.47	ug/L		11/03/24 08:30	11/03/24 15:27	1
2-Nitrophenol	0.75	U	10	0.75	ug/L		11/03/24 08:30	11/03/24 15:27	1
3,3'-Dichlorobenzidine	1.4	U	10	1.4	ug/L		11/03/24 08:30	11/03/24 15:27	1
3-Nitroaniline	1.9	U	10	1.9	ug/L		11/03/24 08:30	11/03/24 15:27	1
4,6-Dinitro-2-methylphenol	3.0	U	20	3.0	ug/L		11/03/24 08:30	11/03/24 15:27	1
4-Bromophenyl phenyl ether	0.75	U	10	0.75	ug/L		11/03/24 08:30	11/03/24 15:27	1
4-Chloro-3-methylphenol	0.58	U	10	0.58	ug/L		11/03/24 08:30	11/03/24 15:27	1
4-Chloroaniline	1.9	U	10	1.9	ug/L		11/03/24 08:30	11/03/24 15:27	1
4-Chlorophenyl phenyl ether	1.3	U	10	1.3	ug/L		11/03/24 08:30	11/03/24 15:27	1
4-Methylphenol	0.65	U	10	0.65	ug/L		11/03/24 08:30	11/03/24 15:27	1
4-Nitroaniline	1.2	U	10	1.2	ug/L		11/03/24 08:30	11/03/24 15:27	1
4-Nitrophenol	4.0	U	20	4.0	ug/L		11/03/24 08:30	11/03/24 15:27	1
Acenaphthene	1.1	U	10	1.1	ug/L		11/03/24 08:30	11/03/24 15:27	1
Acenaphthylene	0.82	U	10	0.82	ug/L		11/03/24 08:30	11/03/24 15:27	1
Acetophenone	2.3	U	10	2.3	ug/L		11/03/24 08:30	11/03/24 15:27	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

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

Lab Sample ID: MB 460-1005004/1-A

Matrix: Water

Analysis Batch: 1005022

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1005004

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	1.3	U	10	1.3	ug/L		11/03/24 08:30	11/03/24 15:27	1
Atrazine	1.3	U	2.0	1.3	ug/L		11/03/24 08:30	11/03/24 15:27	1
Benzaldehyde	2.1	U	10	2.1	ug/L		11/03/24 08:30	11/03/24 15:27	1
Benzo[a]anthracene	0.59	U	1.0	0.59	ug/L		11/03/24 08:30	11/03/24 15:27	1
Benzo[a]pyrene	0.41	U	1.0	0.41	ug/L		11/03/24 08:30	11/03/24 15:27	1
Benzo[b]fluoranthene	0.68	U	2.0	0.68	ug/L		11/03/24 08:30	11/03/24 15:27	1
Benzo[g,h,i]perylene	0.70	U	10	0.70	ug/L		11/03/24 08:30	11/03/24 15:27	1
Benzo[k]fluoranthene	0.67	U	1.0	0.67	ug/L		11/03/24 08:30	11/03/24 15:27	1
Bis(2-chloroethoxy)methane	0.59	U	10	0.59	ug/L		11/03/24 08:30	11/03/24 15:27	1
Bis(2-chloroethyl)ether	0.63	U	1.0	0.63	ug/L		11/03/24 08:30	11/03/24 15:27	1
Bis(2-ethylhexyl) phthalate	0.80	U	2.0	0.80	ug/L		11/03/24 08:30	11/03/24 15:27	1
Butyl benzyl phthalate	0.85	U	10	0.85	ug/L		11/03/24 08:30	11/03/24 15:27	1
Caprolactam	2.2	U	10	2.2	ug/L		11/03/24 08:30	11/03/24 15:27	1
Carbazole	0.68	U	10	0.68	ug/L		11/03/24 08:30	11/03/24 15:27	1
Chrysene	0.91	U	2.0	0.91	ug/L		11/03/24 08:30	11/03/24 15:27	1
Dibenz(a,h)anthracene	0.72	U	1.0	0.72	ug/L		11/03/24 08:30	11/03/24 15:27	1
Dibenzofuran	1.1	U	10	1.1	ug/L		11/03/24 08:30	11/03/24 15:27	1
Diethyl phthalate	0.98	U	10	0.98	ug/L		11/03/24 08:30	11/03/24 15:27	1
Dimethyl phthalate	0.77	U	10	0.77	ug/L		11/03/24 08:30	11/03/24 15:27	1
Di-n-butyl phthalate	0.84	U	10	0.84	ug/L		11/03/24 08:30	11/03/24 15:27	1
Di-n-octyl phthalate	0.75	U	10	0.75	ug/L		11/03/24 08:30	11/03/24 15:27	1
Fluoranthene	0.84	U	10	0.84	ug/L		11/03/24 08:30	11/03/24 15:27	1
Fluorene	0.91	U	10	0.91	ug/L		11/03/24 08:30	11/03/24 15:27	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		11/03/24 08:30	11/03/24 15:27	1
Hexachlorobutadiene	0.78	U	1.0	0.78	ug/L		11/03/24 08:30	11/03/24 15:27	1
Hexachlorocyclopentadiene	3.6	U	10	3.6	ug/L		11/03/24 08:30	11/03/24 15:27	1
Hexachloroethane	0.80	U	2.0	0.80	ug/L		11/03/24 08:30	11/03/24 15:27	1
Indeno[1,2,3-cd]pyrene	0.94	U	2.0	0.94	ug/L		11/03/24 08:30	11/03/24 15:27	1
Isophorone	0.80	U	10	0.80	ug/L		11/03/24 08:30	11/03/24 15:27	1
Naphthalene	0.54	U	2.0	0.54	ug/L		11/03/24 08:30	11/03/24 15:27	1
Nitrobenzene	0.57	U	1.0	0.57	ug/L		11/03/24 08:30	11/03/24 15:27	1
N-Nitrosodi-n-propylamine	0.43	U	1.0	0.43	ug/L		11/03/24 08:30	11/03/24 15:27	1
N-Nitrosodiphenylamine	0.89	U	10	0.89	ug/L		11/03/24 08:30	11/03/24 15:27	1
Pentachlorophenol	1.4	U	20	1.4	ug/L		11/03/24 08:30	11/03/24 15:27	1
Phenanthrene	1.3	U	10	1.3	ug/L		11/03/24 08:30	11/03/24 15:27	1
Phenol	0.29	U	10	0.29	ug/L		11/03/24 08:30	11/03/24 15:27	1
Pyrene	1.6	U	10	1.6	ug/L		11/03/24 08:30	11/03/24 15:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	68		37 - 150	11/03/24 08:30	11/03/24 15:27	1
2-Fluorobiphenyl	78		46 - 139	11/03/24 08:30	11/03/24 15:27	1
2-Fluorophenol (Surr)	44		16 - 80	11/03/24 08:30	11/03/24 15:27	1
Nitrobenzene-d5 (Surr)	84		51 - 145	11/03/24 08:30	11/03/24 15:27	1
Phenol-d5 (Surr)	31		10 - 56	11/03/24 08:30	11/03/24 15:27	1
Terphenyl-d14 (Surr)	47		13 - 159	11/03/24 08:30	11/03/24 15:27	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

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

Lab Sample ID: LCS 460-1005004/2-A

Matrix: Water

Analysis Batch: 1005022

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1005004

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	80.0	61.8		ug/L		77	52 - 129
1,2,4,5-Tetrachlorobenzene	80.0	63.6		ug/L		79	40 - 136
2,2'-oxybis[1-chloropropane]	80.0	69.4		ug/L		87	47 - 133
2,3,4,6-Tetrachlorophenol	80.0	64.3		ug/L		80	63 - 131
2,4,5-Trichlorophenol	80.0	63.0		ug/L		79	63 - 124
2,4,6-Trichlorophenol	80.0	62.4		ug/L		78	66 - 131
2,4-Dichlorophenol	80.0	61.2		ug/L		77	60 - 120
2,4-Dimethylphenol	80.0	70.7		ug/L		88	37 - 120
2,4-Dinitrophenol	160	102		ug/L		64	50 - 148
2,4-Dinitrotoluene	80.0	67.5		ug/L		84	71 - 142
2,6-Dinitrotoluene	80.0	67.7		ug/L		85	71 - 136
2-Chloronaphthalene	80.0	62.7		ug/L		78	50 - 129
2-Chlorophenol	80.0	59.2		ug/L		74	49 - 120
2-Methylnaphthalene	80.0	58.1		ug/L		73	42 - 134
2-Methylphenol	80.0	53.9		ug/L		67	35 - 120
2-Nitroaniline	80.0	67.9		ug/L		85	57 - 134
2-Nitrophenol	80.0	63.9		ug/L		80	62 - 124
3,3'-Dichlorobenzidine	80.0	60.0		ug/L		75	55 - 145
3-Nitroaniline	80.0	53.8		ug/L		67	51 - 120
4,6-Dinitro-2-methylphenol	160	125		ug/L		78	65 - 145
4-Bromophenyl phenyl ether	80.0	64.3		ug/L		80	59 - 132
4-Chloro-3-methylphenol	80.0	62.4		ug/L		78	54 - 120
4-Chloroaniline	80.0	52.5		ug/L		66	43 - 120
4-Chlorophenyl phenyl ether	80.0	65.2		ug/L		81	65 - 127
4-Methylphenol	80.0	52.8		ug/L		66	28 - 120
4-Nitroaniline	80.0	64.4		ug/L		81	57 - 135
4-Nitrophenol	160	88.1		ug/L		55	10 - 120
Acenaphthene	80.0	63.9		ug/L		80	62 - 127
Acenaphthylene	80.0	68.3		ug/L		85	58 - 122
Acetophenone	80.0	65.6		ug/L		82	65 - 125
Anthracene	80.0	63.5		ug/L		79	67 - 127
Atrazine	40.0	40.9		ug/L		102	13 - 150
Benzaldehyde	40.0	42.2		ug/L		105	10 - 150
Benzo[a]anthracene	80.0	61.6		ug/L		77	71 - 131
Benzo[a]pyrene	80.0	67.6		ug/L		85	75 - 148
Benzo[b]fluoranthene	80.0	68.0		ug/L		85	70 - 140
Benzo[g,h,i]perylene	80.0	63.7		ug/L		80	52 - 143
Benzo[k]fluoranthene	80.0	67.8		ug/L		85	71 - 140
Bis(2-chloroethoxy)methane	80.0	66.9		ug/L		84	63 - 122
Bis(2-chloroethyl)ether	80.0	68.2		ug/L		85	61 - 125
Bis(2-ethylhexyl) phthalate	80.0	72.6		ug/L		91	65 - 144
Butyl benzyl phthalate	80.0	66.2		ug/L		83	67 - 141
Caprolactam	40.0	14.1		ug/L		35	10 - 120
Carbazole	80.0	63.8		ug/L		80	68 - 132
Chrysene	80.0	61.4		ug/L		77	70 - 132
Dibenz(a,h)anthracene	80.0	59.3		ug/L		74	53 - 150
Dibenzofuran	80.0	62.6		ug/L		78	64 - 125
Diethyl phthalate	80.0	64.6		ug/L		81	67 - 131

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

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

Lab Sample ID: LCS 460-1005004/2-A

Matrix: Water

Analysis Batch: 1005022

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1005004

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethyl phthalate	80.0	66.7		ug/L		83	67 - 129
Di-n-butyl phthalate	80.0	68.1		ug/L		85	71 - 139
Di-n-octyl phthalate	80.0	71.9		ug/L		90	51 - 150
Fluoranthene	80.0	65.3		ug/L		82	69 - 137
Fluorene	80.0	62.9		ug/L		79	67 - 125
Hexachlorobenzene	80.0	63.1		ug/L		79	62 - 135
Hexachlorobutadiene	80.0	66.0		ug/L		83	10 - 147
Hexachlorocyclopentadiene	80.0	81.0		ug/L		101	10 - 135
Hexachloroethane	80.0	67.8		ug/L		85	10 - 138
Indeno[1,2,3-cd]pyrene	80.0	61.7		ug/L		77	59 - 150
Isophorone	80.0	67.3		ug/L		84	65 - 128
Naphthalene	80.0	64.1		ug/L		80	39 - 126
Nitrobenzene	80.0	69.7		ug/L		87	66 - 127
N-Nitrosodi-n-propylamine	80.0	69.0		ug/L		86	63 - 133
N-Nitrosodiphenylamine	80.0	62.5		ug/L		78	66 - 128
Pentachlorophenol	160	122		ug/L		76	60 - 140
Phenanthrene	80.0	62.8		ug/L		78	68 - 126
Phenol	80.0	34.5		ug/L		43	10 - 80
Pyrene	80.0	62.7		ug/L		78	60 - 137

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	90		37 - 150
2-Fluorobiphenyl	84		46 - 139
2-Fluorophenol (Surr)	59		16 - 80
Nitrobenzene-d5 (Surr)	92		51 - 145
Phenol-d5 (Surr)	46		10 - 56
Terphenyl-d14 (Surr)	60		13 - 159

Lab Sample ID: LCSD 460-1005004/3-A

Matrix: Water

Analysis Batch: 1005022

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1005004

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	80.0	62.0		ug/L		78	52 - 129	0	30
1,2,4,5-Tetrachlorobenzene	80.0	63.2		ug/L		79	40 - 136	1	30
2,2'-oxybis[1-chloropropane]	80.0	69.7		ug/L		87	47 - 133	0	30
2,3,4,6-Tetrachlorophenol	80.0	62.3		ug/L		78	63 - 131	3	30
2,4,5-Trichlorophenol	80.0	62.4		ug/L		78	63 - 124	1	30
2,4,6-Trichlorophenol	80.0	63.3		ug/L		79	66 - 131	1	30
2,4-Dichlorophenol	80.0	61.3		ug/L		77	60 - 120	0	30
2,4-Dimethylphenol	80.0	70.8		ug/L		88	37 - 120	0	30
2,4-Dinitrophenol	160	101		ug/L		63	50 - 148	0	30
2,4-Dinitrotoluene	80.0	64.7		ug/L		81	71 - 142	4	30
2,6-Dinitrotoluene	80.0	65.4		ug/L		82	71 - 136	4	30
2-Chloronaphthalene	80.0	62.7		ug/L		78	50 - 129	0	30
2-Chlorophenol	80.0	58.6		ug/L		73	49 - 120	1	30
2-Methylnaphthalene	80.0	56.9		ug/L		71	42 - 134	2	30
2-Methylphenol	80.0	55.6		ug/L		70	35 - 120	3	30

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

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

Lab Sample ID: LCSD 460-1005004/3-A

Matrix: Water

Analysis Batch: 1005022

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1005004

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Nitroaniline	80.0	59.3		ug/L		74	57 - 134	13	30
2-Nitrophenol	80.0	63.1		ug/L		79	62 - 124	1	30
3,3'-Dichlorobenzidine	80.0	59.7		ug/L		75	55 - 145	1	30
3-Nitroaniline	80.0	52.2		ug/L		65	51 - 120	3	30
4,6-Dinitro-2-methylphenol	160	122		ug/L		76	65 - 145	3	30
4-Bromophenyl phenyl ether	80.0	64.9		ug/L		81	59 - 132	1	30
4-Chloro-3-methylphenol	80.0	60.8		ug/L		76	54 - 120	3	30
4-Chloroaniline	80.0	51.9		ug/L		65	43 - 120	1	30
4-Chlorophenyl phenyl ether	80.0	63.9		ug/L		80	65 - 127	2	30
4-Methylphenol	80.0	54.1		ug/L		68	28 - 120	3	30
4-Nitroaniline	80.0	60.4		ug/L		76	57 - 135	6	30
4-Nitrophenol	160	84.5		ug/L		53	10 - 120	4	30
Acenaphthene	80.0	64.2		ug/L		80	62 - 127	0	30
Acenaphthylene	80.0	68.1		ug/L		85	58 - 122	0	30
Acetophenone	80.0	65.7		ug/L		82	65 - 125	0	30
Anthracene	80.0	62.8		ug/L		79	67 - 127	1	30
Atrazine	40.0	39.7		ug/L		99	13 - 150	3	30
Benzaldehyde	40.0	42.1		ug/L		105	10 - 150	0	30
Benzo[a]anthracene	80.0	61.7		ug/L		77	71 - 131	0	30
Benzo[a]pyrene	80.0	67.3		ug/L		84	75 - 148	0	30
Benzo[b]fluoranthene	80.0	65.6		ug/L		82	70 - 140	4	30
Benzo[g,h,i]perylene	80.0	64.4		ug/L		80	52 - 143	1	30
Benzo[k]fluoranthene	80.0	67.4		ug/L		84	71 - 140	1	30
Bis(2-chloroethoxy)methane	80.0	67.3		ug/L		84	63 - 122	1	30
Bis(2-chloroethyl)ether	80.0	68.9		ug/L		86	61 - 125	1	30
Bis(2-ethylhexyl) phthalate	80.0	72.5		ug/L		91	65 - 144	0	30
Butyl benzyl phthalate	80.0	67.5		ug/L		84	67 - 141	2	30
Caprolactam	40.0	13.6		ug/L		34	10 - 120	3	30
Carbazole	80.0	62.3		ug/L		78	68 - 132	2	30
Chrysene	80.0	61.0		ug/L		76	70 - 132	1	30
Dibenz(a,h)anthracene	80.0	58.8		ug/L		73	53 - 150	1	30
Dibenzofuran	80.0	61.6		ug/L		77	64 - 125	2	30
Diethyl phthalate	80.0	62.4		ug/L		78	67 - 131	3	30
Dimethyl phthalate	80.0	64.9		ug/L		81	67 - 129	3	30
Di-n-butyl phthalate	80.0	67.6		ug/L		84	71 - 139	1	30
Di-n-octyl phthalate	80.0	70.6		ug/L		88	51 - 150	2	30
Fluoranthene	80.0	62.2		ug/L		78	69 - 137	5	30
Fluorene	80.0	62.9		ug/L		79	67 - 125	0	30
Hexachlorobenzene	80.0	62.0		ug/L		77	62 - 135	2	30
Hexachlorobutadiene	80.0	67.0		ug/L		84	10 - 147	2	30
Hexachlorocyclopentadiene	80.0	82.5		ug/L		103	10 - 135	2	30
Hexachloroethane	80.0	67.5		ug/L		84	10 - 138	0	30
Indeno[1,2,3-cd]pyrene	80.0	61.3		ug/L		77	59 - 150	1	30
Isophorone	80.0	67.2		ug/L		84	65 - 128	0	30
Naphthalene	80.0	63.5		ug/L		79	39 - 126	1	30
Nitrobenzene	80.0	70.5		ug/L		88	66 - 127	1	30
N-Nitrosodi-n-propylamine	80.0	69.1		ug/L		86	63 - 133	0	30
N-Nitrosodiphenylamine	80.0	62.8		ug/L		78	66 - 128	0	30
Pentachlorophenol	160	123		ug/L		77	60 - 140	1	30

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

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

Lab Sample ID: LCSD 460-1005004/3-A

Matrix: Water

Analysis Batch: 1005022

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1005004

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	80.0	62.6		ug/L		78	68 - 126	0	30
Phenol	80.0	34.9		ug/L		44	10 - 80	1	30
Pyrene	80.0	64.2		ug/L		80	60 - 137	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	86		37 - 150
2-Fluorobiphenyl	85		46 - 139
2-Fluorophenol (Surr)	59		16 - 80
Nitrobenzene-d5 (Surr)	92		51 - 145
Phenol-d5 (Surr)	48		10 - 56
Terphenyl-d14 (Surr)	62		13 - 159

Lab Sample ID: MB 460-1005524/1-A

Matrix: Water

Analysis Batch: 1005607

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1005524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	1.2 U		10	1.2	ug/L		11/06/24 10:39	11/06/24 20:34	1
1,2,4,5-Tetrachlorobenzene	1.2 U		10	1.2	ug/L		11/06/24 10:39	11/06/24 20:34	1
2,2'-oxybis[1-chloropropane]	0.63 U		10	0.63	ug/L		11/06/24 10:39	11/06/24 20:34	1
2,3,4,6-Tetrachlorophenol	0.75 U		10	0.75	ug/L		11/06/24 10:39	11/06/24 20:34	1
2,4,5-Trichlorophenol	0.88 U		10	0.88	ug/L		11/06/24 10:39	11/06/24 20:34	1
2,4,6-Trichlorophenol	0.86 U		10	0.86	ug/L		11/06/24 10:39	11/06/24 20:34	1
2,4-Dichlorophenol	1.1 U		10	1.1	ug/L		11/06/24 10:39	11/06/24 20:34	1
2,4-Dimethylphenol	0.62 U		10	0.62	ug/L		11/06/24 10:39	11/06/24 20:34	1
2,4-Dinitrophenol	2.6 U		40	2.6	ug/L		11/06/24 10:39	11/06/24 20:34	1
2,4-Dinitrotoluene	1.0 U		10	1.0	ug/L		11/06/24 10:39	11/06/24 20:34	1
2,6-Dinitrotoluene	0.83 U		2.0	0.83	ug/L		11/06/24 10:39	11/06/24 20:34	1
2-Chloronaphthalene	1.2 U		10	1.2	ug/L		11/06/24 10:39	11/06/24 20:34	1
2-Chlorophenol	0.38 U		10	0.38	ug/L		11/06/24 10:39	11/06/24 20:34	1
2-Methylnaphthalene	0.53 U		10	0.53	ug/L		11/06/24 10:39	11/06/24 20:34	1
2-Methylphenol	0.67 U		10	0.67	ug/L		11/06/24 10:39	11/06/24 20:34	1
2-Nitroaniline	0.47 U		10	0.47	ug/L		11/06/24 10:39	11/06/24 20:34	1
2-Nitrophenol	0.75 U		10	0.75	ug/L		11/06/24 10:39	11/06/24 20:34	1
3,3'-Dichlorobenzidine	1.4 U		10	1.4	ug/L		11/06/24 10:39	11/06/24 20:34	1
3-Nitroaniline	1.9 U		10	1.9	ug/L		11/06/24 10:39	11/06/24 20:34	1
4,6-Dinitro-2-methylphenol	3.0 U		20	3.0	ug/L		11/06/24 10:39	11/06/24 20:34	1
4-Bromophenyl phenyl ether	0.75 U		10	0.75	ug/L		11/06/24 10:39	11/06/24 20:34	1
4-Chloro-3-methylphenol	0.58 U		10	0.58	ug/L		11/06/24 10:39	11/06/24 20:34	1
4-Chloroaniline	1.9 U		10	1.9	ug/L		11/06/24 10:39	11/06/24 20:34	1
4-Chlorophenyl phenyl ether	1.3 U		10	1.3	ug/L		11/06/24 10:39	11/06/24 20:34	1
4-Methylphenol	0.65 U		10	0.65	ug/L		11/06/24 10:39	11/06/24 20:34	1
4-Nitroaniline	1.2 U		10	1.2	ug/L		11/06/24 10:39	11/06/24 20:34	1
4-Nitrophenol	4.0 U		20	4.0	ug/L		11/06/24 10:39	11/06/24 20:34	1
Acenaphthene	1.1 U		10	1.1	ug/L		11/06/24 10:39	11/06/24 20:34	1
Acenaphthylene	0.82 U		10	0.82	ug/L		11/06/24 10:39	11/06/24 20:34	1
Acetophenone	2.3 U		10	2.3	ug/L		11/06/24 10:39	11/06/24 20:34	1
Anthracene	1.3 U		10	1.3	ug/L		11/06/24 10:39	11/06/24 20:34	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

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

Lab Sample ID: MB 460-1005524/1-A

Matrix: Water

Analysis Batch: 1005607

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1005524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	1.3	U	2.0	1.3	ug/L		11/06/24 10:39	11/06/24 20:34	1
Benzaldehyde	2.1	U	10	2.1	ug/L		11/06/24 10:39	11/06/24 20:34	1
Benzo[a]anthracene	0.59	U	1.0	0.59	ug/L		11/06/24 10:39	11/06/24 20:34	1
Benzo[a]pyrene	0.41	U	1.0	0.41	ug/L		11/06/24 10:39	11/06/24 20:34	1
Benzo[b]fluoranthene	0.68	U	2.0	0.68	ug/L		11/06/24 10:39	11/06/24 20:34	1
Benzo[g,h,i]perylene	0.70	U	10	0.70	ug/L		11/06/24 10:39	11/06/24 20:34	1
Benzo[k]fluoranthene	0.67	U	1.0	0.67	ug/L		11/06/24 10:39	11/06/24 20:34	1
Bis(2-chloroethoxy)methane	0.59	U	10	0.59	ug/L		11/06/24 10:39	11/06/24 20:34	1
Bis(2-chloroethyl)ether	0.63	U	1.0	0.63	ug/L		11/06/24 10:39	11/06/24 20:34	1
Bis(2-ethylhexyl) phthalate	0.80	U	2.0	0.80	ug/L		11/06/24 10:39	11/06/24 20:34	1
Butyl benzyl phthalate	0.85	U	10	0.85	ug/L		11/06/24 10:39	11/06/24 20:34	1
Caprolactam	2.2	U	10	2.2	ug/L		11/06/24 10:39	11/06/24 20:34	1
Carbazole	0.68	U	10	0.68	ug/L		11/06/24 10:39	11/06/24 20:34	1
Chrysene	0.91	U	2.0	0.91	ug/L		11/06/24 10:39	11/06/24 20:34	1
Dibenz(a,h)anthracene	0.72	U	1.0	0.72	ug/L		11/06/24 10:39	11/06/24 20:34	1
Dibenzofuran	1.1	U	10	1.1	ug/L		11/06/24 10:39	11/06/24 20:34	1
Diethyl phthalate	0.98	U	10	0.98	ug/L		11/06/24 10:39	11/06/24 20:34	1
Dimethyl phthalate	0.77	U	10	0.77	ug/L		11/06/24 10:39	11/06/24 20:34	1
Di-n-butyl phthalate	0.84	U	10	0.84	ug/L		11/06/24 10:39	11/06/24 20:34	1
Di-n-octyl phthalate	0.75	U	10	0.75	ug/L		11/06/24 10:39	11/06/24 20:34	1
Fluoranthene	0.84	U	10	0.84	ug/L		11/06/24 10:39	11/06/24 20:34	1
Fluorene	0.91	U	10	0.91	ug/L		11/06/24 10:39	11/06/24 20:34	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		11/06/24 10:39	11/06/24 20:34	1
Hexachlorobutadiene	0.78	U	1.0	0.78	ug/L		11/06/24 10:39	11/06/24 20:34	1
Hexachlorocyclopentadiene	3.6	U	10	3.6	ug/L		11/06/24 10:39	11/06/24 20:34	1
Hexachloroethane	0.80	U	2.0	0.80	ug/L		11/06/24 10:39	11/06/24 20:34	1
Indeno[1,2,3-cd]pyrene	0.94	U	2.0	0.94	ug/L		11/06/24 10:39	11/06/24 20:34	1
Isophorone	0.80	U	10	0.80	ug/L		11/06/24 10:39	11/06/24 20:34	1
Naphthalene	0.54	U	2.0	0.54	ug/L		11/06/24 10:39	11/06/24 20:34	1
Nitrobenzene	0.57	U	1.0	0.57	ug/L		11/06/24 10:39	11/06/24 20:34	1
N-Nitrosodi-n-propylamine	0.43	U	1.0	0.43	ug/L		11/06/24 10:39	11/06/24 20:34	1
N-Nitrosodiphenylamine	0.89	U	10	0.89	ug/L		11/06/24 10:39	11/06/24 20:34	1
Pentachlorophenol	1.4	U	20	1.4	ug/L		11/06/24 10:39	11/06/24 20:34	1
Phenanthrene	1.3	U	10	1.3	ug/L		11/06/24 10:39	11/06/24 20:34	1
Phenol	0.29	U	10	0.29	ug/L		11/06/24 10:39	11/06/24 20:34	1
Pyrene	1.6	U	10	1.6	ug/L		11/06/24 10:39	11/06/24 20:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	134		37 - 150	11/06/24 10:39	11/06/24 20:34	1
2-Fluorobiphenyl	107		46 - 139	11/06/24 10:39	11/06/24 20:34	1
2-Fluorophenol (Surr)	75		16 - 80	11/06/24 10:39	11/06/24 20:34	1
Nitrobenzene-d5 (Surr)	109		51 - 145	11/06/24 10:39	11/06/24 20:34	1
Phenol-d5 (Surr)	53		10 - 56	11/06/24 10:39	11/06/24 20:34	1
Terphenyl-d14 (Surr)	95		13 - 159	11/06/24 10:39	11/06/24 20:34	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

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

Lab Sample ID: LCS 460-1005524/2-A

Matrix: Water

Analysis Batch: 1005607

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1005524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	80.0	83.1		ug/L		104	52 - 129
1,2,4,5-Tetrachlorobenzene	80.0	82.2		ug/L		103	40 - 136
2,2'-oxybis[1-chloropropane]	80.0	69.9		ug/L		87	47 - 133
2,3,4,6-Tetrachlorophenol	80.0	96.4		ug/L		121	63 - 131
2,4,5-Trichlorophenol	80.0	91.6		ug/L		115	63 - 124
2,4,6-Trichlorophenol	80.0	90.4		ug/L		113	66 - 131
2,4-Dichlorophenol	80.0	79.9		ug/L		100	60 - 120
2,4-Dimethylphenol	80.0	88.9		ug/L		111	37 - 120
2,4-Dinitrophenol	160	192		ug/L		120	50 - 148
2,4-Dinitrotoluene	80.0	104		ug/L		129	71 - 142
2,6-Dinitrotoluene	80.0	99.8		ug/L		125	71 - 136
2-Chloronaphthalene	80.0	82.9		ug/L		104	50 - 129
2-Chlorophenol	80.0	65.9		ug/L		82	49 - 120
2-Methylnaphthalene	80.0	71.4		ug/L		89	42 - 134
2-Methylphenol	80.0	55.6		ug/L		69	35 - 120
2-Nitroaniline	80.0	79.4		ug/L		99	57 - 134
2-Nitrophenol	80.0	85.0		ug/L		106	62 - 124
3,3'-Dichlorobenzidine	80.0	90.7		ug/L		113	55 - 145
3-Nitroaniline	80.0	78.5		ug/L		98	51 - 120
4,6-Dinitro-2-methylphenol	160	207		ug/L		129	65 - 145
4-Bromophenyl phenyl ether	80.0	94.4		ug/L		118	59 - 132
4-Chloro-3-methylphenol	80.0	71.4		ug/L		89	54 - 120
4-Chloroaniline	80.0	73.7		ug/L		92	43 - 120
4-Chlorophenyl phenyl ether	80.0	93.0		ug/L		116	65 - 127
4-Methylphenol	80.0	48.6		ug/L		61	28 - 120
4-Nitroaniline	80.0	92.8		ug/L		116	57 - 135
4-Nitrophenol	160	65.1		ug/L		41	10 - 120
Acenaphthene	80.0	86.4		ug/L		108	62 - 127
Acenaphthylene	80.0	93.7		ug/L		117	58 - 122
Acetophenone	80.0	78.4		ug/L		98	65 - 125
Anthracene	80.0	91.7		ug/L		115	67 - 127
Atrazine	40.0	51.3		ug/L		128	13 - 150
Benzaldehyde	40.0	39.2		ug/L		98	10 - 150
Benzo[a]anthracene	80.0	88.5		ug/L		111	71 - 131
Benzo[a]pyrene	80.0	99.4		ug/L		124	75 - 148
Benzo[b]fluoranthene	80.0	97.3		ug/L		122	70 - 140
Benzo[g,h,i]perylene	80.0	89.9		ug/L		112	52 - 143
Benzo[k]fluoranthene	80.0	96.3		ug/L		120	71 - 140
Bis(2-chloroethoxy)methane	80.0	82.3		ug/L		103	63 - 122
Bis(2-chloroethyl)ether	80.0	77.7		ug/L		97	61 - 125
Bis(2-ethylhexyl) phthalate	80.0	95.4		ug/L		119	65 - 144
Butyl benzyl phthalate	80.0	89.5		ug/L		112	67 - 141
Caprolactam	40.0	7.95	J	ug/L		20	10 - 120
Carbazole	80.0	92.7		ug/L		116	68 - 132
Chrysene	80.0	87.4		ug/L		109	70 - 132
Dibenz(a,h)anthracene	80.0	84.9		ug/L		106	53 - 150
Dibenzofuran	80.0	87.6		ug/L		110	64 - 125
Diethyl phthalate	80.0	89.2		ug/L		111	67 - 131

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

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

Lab Sample ID: LCS 460-1005524/2-A

Matrix: Water

Analysis Batch: 1005607

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1005524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethyl phthalate	80.0	94.2		ug/L		118	67 - 129
Di-n-butyl phthalate	80.0	97.3		ug/L		122	71 - 139
Di-n-octyl phthalate	80.0	91.5		ug/L		114	51 - 150
Fluoranthene	80.0	101		ug/L		126	69 - 137
Fluorene	80.0	92.0		ug/L		115	67 - 125
Hexachlorobenzene	80.0	97.2		ug/L		121	62 - 135
Hexachlorobutadiene	80.0	67.0		ug/L		84	10 - 147
Hexachlorocyclopentadiene	80.0	100		ug/L		126	10 - 135
Hexachloroethane	80.0	47.9		ug/L		60	10 - 138
Indeno[1,2,3-cd]pyrene	80.0	85.5		ug/L		107	59 - 150
Isophorone	80.0	82.5		ug/L		103	65 - 128
Naphthalene	80.0	73.5		ug/L		92	39 - 126
Nitrobenzene	80.0	83.4		ug/L		104	66 - 127
N-Nitrosodi-n-propylamine	80.0	79.1		ug/L		99	63 - 133
N-Nitrosodiphenylamine	80.0	88.3		ug/L		110	66 - 128
Pentachlorophenol	160	190		ug/L		119	60 - 140
Phenanthrene	80.0	90.1		ug/L		113	68 - 126
Phenol	80.0	25.3		ug/L		32	10 - 80
Pyrene	80.0	86.7		ug/L		108	60 - 137

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	120		37 - 150
2-Fluorobiphenyl	99		46 - 139
2-Fluorophenol (Surr)	41		16 - 80
Nitrobenzene-d5 (Surr)	94		51 - 145
Phenol-d5 (Surr)	27		10 - 56
Terphenyl-d14 (Surr)	79		13 - 159

Lab Sample ID: LCSD 460-1005524/3-A

Matrix: Water

Analysis Batch: 1005607

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1005524

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	80.0	83.0		ug/L		104	52 - 129	0	30
1,2,4,5-Tetrachlorobenzene	80.0	83.2		ug/L		104	40 - 136	1	30
2,2'-oxybis[1-chloropropane]	80.0	67.3		ug/L		84	47 - 133	4	30
2,3,4,6-Tetrachlorophenol	80.0	97.2		ug/L		122	63 - 131	1	30
2,4,5-Trichlorophenol	80.0	94.3		ug/L		118	63 - 124	3	30
2,4,6-Trichlorophenol	80.0	90.3		ug/L		113	66 - 131	0	30
2,4-Dichlorophenol	80.0	81.3		ug/L		102	60 - 120	2	30
2,4-Dimethylphenol	80.0	91.1		ug/L		114	37 - 120	2	30
2,4-Dinitrophenol	160	194		ug/L		121	50 - 148	1	30
2,4-Dinitrotoluene	80.0	105		ug/L		131	71 - 142	1	30
2,6-Dinitrotoluene	80.0	98.4		ug/L		123	71 - 136	1	30
2-Chloronaphthalene	80.0	82.9		ug/L		104	50 - 129	0	30
2-Chlorophenol	80.0	65.2		ug/L		82	49 - 120	1	30
2-Methylnaphthalene	80.0	73.6		ug/L		92	42 - 134	3	30
2-Methylphenol	80.0	54.6		ug/L		68	35 - 120	2	30

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

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

Lab Sample ID: LCSD 460-1005524/3-A

Matrix: Water

Analysis Batch: 1005607

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1005524

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Nitroaniline	80.0	80.1		ug/L		100	57 - 134	1	30
2-Nitrophenol	80.0	85.4		ug/L		107	62 - 124	0	30
3,3'-Dichlorobenzidine	80.0	91.1		ug/L		114	55 - 145	0	30
3-Nitroaniline	80.0	78.1		ug/L		98	51 - 120	0	30
4,6-Dinitro-2-methylphenol	160	202		ug/L		126	65 - 145	2	30
4-Bromophenyl phenyl ether	80.0	94.6		ug/L		118	59 - 132	0	30
4-Chloro-3-methylphenol	80.0	72.3		ug/L		90	54 - 120	1	30
4-Chloroaniline	80.0	75.1		ug/L		94	43 - 120	2	30
4-Chlorophenyl phenyl ether	80.0	93.7		ug/L		117	65 - 127	1	30
4-Methylphenol	80.0	48.0		ug/L		60	28 - 120	1	30
4-Nitroaniline	80.0	92.2		ug/L		115	57 - 135	1	30
4-Nitrophenol	160	65.4		ug/L		41	10 - 120	0	30
Acenaphthene	80.0	86.9		ug/L		109	62 - 127	0	30
Acenaphthylene	80.0	94.3		ug/L		118	58 - 122	1	30
Acetophenone	80.0	75.9		ug/L		95	65 - 125	3	30
Anthracene	80.0	90.3		ug/L		113	67 - 127	1	30
Atrazine	40.0	51.1		ug/L		128	13 - 150	0	30
Benzaldehyde	40.0	38.5		ug/L		96	10 - 150	2	30
Benzo[a]anthracene	80.0	89.8		ug/L		112	71 - 131	1	30
Benzo[a]pyrene	80.0	98.6		ug/L		123	75 - 148	1	30
Benzo[b]fluoranthene	80.0	95.8		ug/L		120	70 - 140	2	30
Benzo[g,h,i]perylene	80.0	87.2		ug/L		109	52 - 143	3	30
Benzo[k]fluoranthene	80.0	98.1		ug/L		123	71 - 140	2	30
Bis(2-chloroethoxy)methane	80.0	84.1		ug/L		105	63 - 122	2	30
Bis(2-chloroethyl)ether	80.0	75.6		ug/L		95	61 - 125	3	30
Bis(2-ethylhexyl) phthalate	80.0	96.5		ug/L		121	65 - 144	1	30
Butyl benzyl phthalate	80.0	88.9		ug/L		111	67 - 141	1	30
Caprolactam	40.0	8.28	J	ug/L		21	10 - 120	4	30
Carbazole	80.0	90.5		ug/L		113	68 - 132	2	30
Chrysene	80.0	88.6		ug/L		111	70 - 132	1	30
Dibenz(a,h)anthracene	80.0	82.9		ug/L		104	53 - 150	2	30
Dibenzofuran	80.0	87.5		ug/L		109	64 - 125	0	30
Diethyl phthalate	80.0	90.1		ug/L		113	67 - 131	1	30
Dimethyl phthalate	80.0	94.6		ug/L		118	67 - 129	0	30
Di-n-butyl phthalate	80.0	97.2		ug/L		121	71 - 139	0	30
Di-n-octyl phthalate	80.0	92.5		ug/L		116	51 - 150	1	30
Fluoranthene	80.0	99.3		ug/L		124	69 - 137	2	30
Fluorene	80.0	92.1		ug/L		115	67 - 125	0	30
Hexachlorobenzene	80.0	96.6		ug/L		121	62 - 135	1	30
Hexachlorobutadiene	80.0	68.3		ug/L		85	10 - 147	2	30
Hexachlorocyclopentadiene	80.0	100		ug/L		125	10 - 135	0	30
Hexachloroethane	80.0	47.1		ug/L		59	10 - 138	2	30
Indeno[1,2,3-cd]pyrene	80.0	86.6		ug/L		108	59 - 150	1	30
Isophorone	80.0	84.3		ug/L		105	65 - 128	2	30
Naphthalene	80.0	75.2		ug/L		94	39 - 126	2	30
Nitrobenzene	80.0	83.1		ug/L		104	66 - 127	0	30
N-Nitrosodi-n-propylamine	80.0	75.3		ug/L		94	63 - 133	5	30
N-Nitrosodiphenylamine	80.0	86.9		ug/L		109	66 - 128	2	30
Pentachlorophenol	160	193		ug/L		120	60 - 140	2	30

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

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

Lab Sample ID: LCSD 460-1005524/3-A

Matrix: Water

Analysis Batch: 1005607

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1005524

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	80.0	88.5		ug/L		111	68 - 126	2	30
Phenol	80.0	25.0		ug/L		31	10 - 80	1	30
Pyrene	80.0	86.3		ug/L		108	60 - 137	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	120		37 - 150
2-Fluorobiphenyl	99		46 - 139
2-Fluorophenol (Surr)	40		16 - 80
Nitrobenzene-d5 (Surr)	94		51 - 145
Phenol-d5 (Surr)	27		10 - 56
Terphenyl-d14 (Surr)	79		13 - 159

Lab Sample ID: 460-314632-7 MS

Matrix: Water

Analysis Batch: 1005607

Client Sample ID: GW-11222397-110124-ES-20

Prep Type: Total/NA

Prep Batch: 1005524

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	1.2	U F1	40.0	51.0		ug/L		127	52 - 129
1,2,4,5-Tetrachlorobenzene	1.2	U F1	40.0	50.8		ug/L		127	40 - 136
2,2'-oxybis[1-chloropropane]	0.63	U	40.0	45.2		ug/L		113	47 - 133
2,3,4,6-Tetrachlorophenol	0.75	U F1	40.0	62.9	F1	ug/L		157	63 - 131
2,4,5-Trichlorophenol	0.88	U F1	40.0	55.3	F1	ug/L		138	63 - 124
2,4,6-Trichlorophenol	0.86	U F1	40.0	54.8	F1	ug/L		137	66 - 131
2,4-Dichlorophenol	1.1	U F1	40.0	52.8	F1	ug/L		132	60 - 120
2,4-Dimethylphenol	0.62	U F1	40.0	61.1	F1	ug/L		153	37 - 120
2,4-Dinitrophenol	2.6	U F1	80.0	117		ug/L		147	50 - 148
2,4-Dinitrotoluene	1.0	U F1	40.0	64.7	F1	ug/L		162	71 - 142
2,6-Dinitrotoluene	0.83	U F1	40.0	59.0	F1	ug/L		147	71 - 136
2-Chloronaphthalene	1.2	U F1	40.0	50.8		ug/L		127	50 - 129
2-Chlorophenol	0.38	U F1	40.0	50.1	F1	ug/L		125	49 - 120
2-Methylnaphthalene	6.5	J F1	40.0	58.1		ug/L		129	42 - 134
2-Methylphenol	0.67	U F1	40.0	46.3		ug/L		116	35 - 120
2-Nitroaniline	0.47	U	40.0	44.0		ug/L		110	57 - 134
2-Nitrophenol	0.75	U F1	40.0	57.3	F1	ug/L		143	62 - 124
3,3'-Dichlorobenzidine	1.4	U	40.0	31.2		ug/L		78	55 - 145
3-Nitroaniline	1.9	U	40.0	43.4		ug/L		109	51 - 120
4,6-Dinitro-2-methylphenol	3.0	U F1	80.0	123	F1	ug/L		154	65 - 145
4-Bromophenyl phenyl ether	0.75	U F1	40.0	54.5	F1	ug/L		136	59 - 132
4-Chloro-3-methylphenol	0.58	U F1	40.0	49.5	F1	ug/L		124	54 - 120
4-Chloroaniline	1.9	U F2	40.0	36.3		ug/L		91	43 - 120
4-Chlorophenyl phenyl ether	1.3	U F1	40.0	56.7	F1	ug/L		142	65 - 127
4-Methylphenol	0.65	U F1	40.0	43.0		ug/L		108	28 - 120
4-Nitroaniline	1.2	U F1	40.0	66.7	F1	ug/L		167	57 - 135
4-Nitrophenol	4.0	U F1	80.0	96.3		ug/L		120	10 - 120
Acenaphthene	1.1	U F1	40.0	53.4	F1	ug/L		133	62 - 127
Acenaphthylene	0.82	U F1	40.0	56.0	F1	ug/L		140	58 - 122
Acetophenone	2.3	U F1	40.0	60.8	F1	ug/L		152	65 - 125
Anthracene	1.3	U F1	40.0	54.5	F1	ug/L		136	67 - 127

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

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

Lab Sample ID: 460-314632-7 MS

Matrix: Water

Analysis Batch: 1005607

Client Sample ID: GW-11222397-110124-ES-20

Prep Type: Total/NA

Prep Batch: 1005524

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Atrazine	1.3	U F1	40.0	58.4	E	ug/L		146	13 - 150
Benzaldehyde	2.1	U F1	40.0	63.4	E F1	ug/L		158	10 - 150
Benzo[a]anthracene	0.59	U F1	40.0	54.8	F1	ug/L		137	71 - 131
Benzo[a]pyrene	0.41	U F1	40.0	60.8	F1	ug/L		152	75 - 148
Benzo[b]fluoranthene	0.68	U F1	40.0	58.5	F1	ug/L		146	70 - 140
Benzo[g,h,i]perylene	0.70	U F1	40.0	52.2		ug/L		130	52 - 143
Benzo[k]fluoranthene	0.67	U F1	40.0	59.0	F1	ug/L		147	71 - 140
Bis(2-chloroethoxy)methane	0.59	U F1	40.0	52.0	F1	ug/L		130	63 - 122
Bis(2-chloroethyl)ether	0.63	U F1	40.0	48.6		ug/L		122	61 - 125
Bis(2-ethylhexyl) phthalate	0.80	U F1	40.0	52.9		ug/L		132	65 - 144
Butyl benzyl phthalate	0.85	U F1	40.0	53.1		ug/L		133	67 - 141
Caprolactam	2.2	U	40.0	14.3		ug/L		36	10 - 120
Carbazole	0.68	U F1	40.0	71.2	F1	ug/L		178	68 - 132
Chrysene	0.91	U F1	40.0	54.0	F1	ug/L		135	70 - 132
Dibenz(a,h)anthracene	0.72	U	40.0	49.8		ug/L		125	53 - 150
Dibenzofuran	1.1	U F1	40.0	51.9	F1	ug/L		130	64 - 125
Diethyl phthalate	0.98	U F1	40.0	56.5	F1	ug/L		141	67 - 131
Dimethyl phthalate	0.77	U F1	40.0	57.7	F1	ug/L		144	67 - 129
Di-n-butyl phthalate	0.84	U F1	40.0	62.4	F1	ug/L		156	71 - 139
Di-n-octyl phthalate	0.75	U F1	40.0	61.5	F1	ug/L		154	51 - 150
Fluoranthene	0.84	U F1	40.0	76.6	F1	ug/L		191	69 - 137
Fluorene	0.91	U F1	40.0	55.2	F1	ug/L		138	67 - 125
Hexachlorobenzene	0.40	U F1	40.0	55.7	F1	ug/L		139	62 - 135
Hexachlorobutadiene	0.78	U	40.0	47.2		ug/L		118	10 - 147
Hexachlorocyclopentadiene	3.6	U F1	40.0	59.1	F1	ug/L		148	10 - 135
Hexachloroethane	0.80	U	40.0	46.5		ug/L		116	10 - 138
Indeno[1,2,3-cd]pyrene	0.94	U	40.0	52.5		ug/L		131	59 - 150
Isophorone	0.80	U F1	40.0	53.8	F1	ug/L		134	65 - 128
Naphthalene	43	F1	40.0	121	F1	ug/L		195	39 - 126
Nitrobenzene	0.57	U F1	40.0	53.3	F1	ug/L		133	66 - 127
N-Nitrosodi-n-propylamine	0.43	U F1	40.0	50.1		ug/L		125	63 - 133
N-Nitrosodiphenylamine	0.89	U F1	40.0	49.6		ug/L		124	66 - 128
Pentachlorophenol	1.4	U F1	80.0	127	F1	ug/L		159	60 - 140
Phenanthrene	1.3	U F1	40.0	53.5	F1	ug/L		134	68 - 126
Phenol	0.29	U	40.0	27.8		ug/L		69	10 - 80
Pyrene	1.6	U	40.0	41.7		ug/L		104	60 - 137
Surrogate	MS %Recovery	MS Qualifier	Limits						
2,4,6-Tribromophenol (Surr)	146		37 - 150						
2-Fluorobiphenyl	108		46 - 139						
2-Fluorophenol (Surr)	74		16 - 80						
Nitrobenzene-d5 (Surr)	103		51 - 145						
Phenol-d5 (Surr)	56		10 - 56						
Terphenyl-d14 (Surr)	62		13 - 159						

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

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

Lab Sample ID: 460-314632-7 MSD

Matrix: Water

Analysis Batch: 1005607

Client Sample ID: GW-11222397-110124-ES-20

Prep Type: Total/NA

Prep Batch: 1005524

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	1.2	U F1	40.0	57.5	F1	ug/L		144	52 - 129	12	30
1,2,4,5-Tetrachlorobenzene	1.2	U F1	40.0	58.4	F1	ug/L		146	40 - 136	14	30
2,2'-oxybis[1-chloropropane]	0.63	U	40.0	52.6		ug/L		132	47 - 133	15	30
2,3,4,6-Tetrachlorophenol	0.75	U F1	40.0	69.4	F1	ug/L		174	63 - 131	10	30
2,4,5-Trichlorophenol	0.88	U F1	40.0	61.0	F1	ug/L		152	63 - 124	10	30
2,4,6-Trichlorophenol	0.86	U F1	40.0	63.0	F1	ug/L		158	66 - 131	14	30
2,4-Dichlorophenol	1.1	U F1	40.0	59.7	F1	ug/L		149	60 - 120	12	30
2,4-Dimethylphenol	0.62	U F1	40.0	68.5	F1	ug/L		171	37 - 120	11	30
2,4-Dinitrophenol	2.6	U F1	80.0	136	F1	ug/L		170	50 - 148	15	30
2,4-Dinitrotoluene	1.0	U F1	40.0	71.4	F1	ug/L		178	71 - 142	10	30
2,6-Dinitrotoluene	0.83	U F1	40.0	66.7	F1	ug/L		167	71 - 136	12	30
2-Chloronaphthalene	1.2	U F1	40.0	58.6	F1	ug/L		146	50 - 129	14	30
2-Chlorophenol	0.38	U F1	40.0	57.9	F1	ug/L		145	49 - 120	14	30
2-Methylnaphthalene	6.5	J F1	40.0	64.2	F1	ug/L		144	42 - 134	10	30
2-Methylphenol	0.67	U F1	40.0	52.5	F1	ug/L		131	35 - 120	13	30
2-Nitroaniline	0.47	U	40.0	47.3		ug/L		118	57 - 134	7	30
2-Nitrophenol	0.75	U F1	40.0	65.0	F1	ug/L		162	62 - 124	13	30
3,3'-Dichlorobenzidine	1.4	U	40.0	29.7		ug/L		74	55 - 145	5	30
3-Nitroaniline	1.9	U	40.0	45.8		ug/L		114	51 - 120	5	30
4,6-Dinitro-2-methylphenol	3.0	U F1	80.0	141	F1	ug/L		176	65 - 145	13	30
4-Bromophenyl phenyl ether	0.75	U F1	40.0	61.6	F1	ug/L		154	59 - 132	12	30
4-Chloro-3-methylphenol	0.58	U F1	40.0	55.3	F1	ug/L		138	54 - 120	11	30
4-Chloroaniline	1.9	U F2	40.0	24.6	F2	ug/L		62	43 - 120	38	30
4-Chlorophenyl phenyl ether	1.3	U F1	40.0	64.0	F1	ug/L		160	65 - 127	12	30
4-Methylphenol	0.65	U F1	40.0	50.7	F1	ug/L		127	28 - 120	16	30
4-Nitroaniline	1.2	U F1	40.0	68.7	F1	ug/L		172	57 - 135	3	30
4-Nitrophenol	4.0	U F1	80.0	111	F1	ug/L		138	10 - 120	14	30
Acenaphthene	1.1	U F1	40.0	59.6	F1	ug/L		149	62 - 127	11	30
Acenaphthylene	0.82	U F1	40.0	63.2	F1	ug/L		158	58 - 122	12	30
Acetophenone	2.3	U F1	40.0	67.9	F1	ug/L		170	65 - 125	11	30
Anthracene	1.3	U F1	40.0	61.4	F1	ug/L		153	67 - 127	12	30
Atrazine	1.3	U F1	40.0	64.0	E F1	ug/L		160	13 - 150	9	30
Benzaldehyde	2.1	U F1	40.0	73.8	E F1	ug/L		185	10 - 150	15	30
Benzo[a]anthracene	0.59	U F1	40.0	61.7	F1	ug/L		154	71 - 131	12	30
Benzo[a]pyrene	0.41	U F1	40.0	67.8	F1	ug/L		170	75 - 148	11	30
Benzo[b]fluoranthene	0.68	U F1	40.0	66.0	F1	ug/L		165	70 - 140	12	30
Benzo[g,h,i]perylene	0.70	U F1	40.0	57.6	F1	ug/L		144	52 - 143	10	30
Benzo[k]fluoranthene	0.67	U F1	40.0	66.2	F1	ug/L		166	71 - 140	12	30
Bis(2-chloroethoxy)methane	0.59	U F1	40.0	57.6	F1	ug/L		144	63 - 122	10	30
Bis(2-chloroethyl)ether	0.63	U F1	40.0	56.8	F1	ug/L		142	61 - 125	15	30
Bis(2-ethylhexyl) phthalate	0.80	U F1	40.0	59.9	F1	ug/L		150	65 - 144	12	30
Butyl benzyl phthalate	0.85	U F1	40.0	59.1	F1	ug/L		148	67 - 141	11	30
Caprolactam	2.2	U	40.0	15.1		ug/L		38	10 - 120	6	30
Carbazole	0.68	U F1	40.0	77.5	F1	ug/L		194	68 - 132	8	30
Chrysene	0.91	U F1	40.0	59.7	F1	ug/L		149	70 - 132	10	30
Dibenz(a,h)anthracene	0.72	U	40.0	55.0		ug/L		137	53 - 150	10	30
Dibenzofuran	1.1	U F1	40.0	59.3	F1	ug/L		148	64 - 125	13	30
Diethyl phthalate	0.98	U F1	40.0	62.7	F1	ug/L		157	67 - 131	10	30

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

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

Lab Sample ID: 460-314632-7 MSD

Matrix: Water

Analysis Batch: 1005607

Client Sample ID: GW-11222397-110124-ES-20

Prep Type: Total/NA

Prep Batch: 1005524

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dimethyl phthalate	0.77	U F1	40.0	65.4	F1	ug/L		163	67 - 129	12	30
Di-n-butyl phthalate	0.84	U F1	40.0	69.1	F1	ug/L		173	71 - 139	10	30
Di-n-octyl phthalate	0.75	U F1	40.0	70.0	F1	ug/L		175	51 - 150	13	30
Fluoranthene	0.84	U F1	40.0	84.4	F1	ug/L		211	69 - 137	10	30
Fluorene	0.91	U F1	40.0	62.3	F1	ug/L		156	67 - 125	12	30
Hexachlorobenzene	0.40	U F1	40.0	63.4	F1	ug/L		159	62 - 135	13	30
Hexachlorobutadiene	0.78	U	40.0	52.2		ug/L		130	10 - 147	10	30
Hexachlorocyclopentadiene	3.6	U F1	40.0	68.2	F1	ug/L		170	10 - 135	14	30
Hexachloroethane	0.80	U	40.0	51.6		ug/L		129	10 - 138	10	30
Indeno[1,2,3-cd]pyrene	0.94	U	40.0	58.5		ug/L		146	59 - 150	11	30
Isophorone	0.80	U F1	40.0	61.4	F1	ug/L		154	65 - 128	13	30
Naphthalene	43	F1	40.0	128	F1	ug/L		214	39 - 126	6	30
Nitrobenzene	0.57	U F1	40.0	62.7	F1	ug/L		157	66 - 127	16	30
N-Nitrosodi-n-propylamine	0.43	U F1	40.0	58.2	F1	ug/L		145	63 - 133	15	30
N-Nitrosodiphenylamine	0.89	U F1	40.0	56.1	F1	ug/L		140	66 - 128	12	30
Pentachlorophenol	1.4	U F1	80.0	154	F1	ug/L		192	60 - 140	19	30
Phenanthrene	1.3	U F1	40.0	60.5	F1	ug/L		151	68 - 126	12	30
Phenol	0.29	U	40.0	29.7		ug/L		74	10 - 80	7	30
Pyrene	1.6	U	40.0	46.5		ug/L		116	60 - 137	11	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	159	S1+	37 - 150
2-Fluorobiphenyl	124		46 - 139
2-Fluorophenol (Surr)	89	S1+	16 - 80
Nitrobenzene-d5 (Surr)	117		51 - 145
Phenol-d5 (Surr)	69	S1+	10 - 56
Terphenyl-d14 (Surr)	81		13 - 159

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 460-1005737/1-A

Matrix: Water

Analysis Batch: 1005782

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1005737

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	19.5	U	40.0	19.5	ug/L		11/07/24 09:45	11/07/24 13:50	1
Antimony	0.76	U	2.0	0.76	ug/L		11/07/24 09:45	11/07/24 13:50	1
Arsenic	0.89	U	2.0	0.89	ug/L		11/07/24 09:45	11/07/24 13:50	1
Barium	0.91	U	4.0	0.91	ug/L		11/07/24 09:45	11/07/24 13:50	1
Beryllium	0.13	U	0.80	0.13	ug/L		11/07/24 09:45	11/07/24 13:50	1
Cadmium	0.39	U	2.0	0.39	ug/L		11/07/24 09:45	11/07/24 13:50	1
Calcium	53.6	U	500	53.6	ug/L		11/07/24 09:45	11/07/24 13:50	1
Chromium	2.5	U	4.0	2.5	ug/L		11/07/24 09:45	11/07/24 13:50	1
Cobalt	0.71	U	4.0	0.71	ug/L		11/07/24 09:45	11/07/24 13:50	1
Copper	2.5	U	4.0	2.5	ug/L		11/07/24 09:45	11/07/24 13:50	1
Iron	58.2	U	120	58.2	ug/L		11/07/24 09:45	11/07/24 13:50	1
Lead	0.84	U	1.2	0.84	ug/L		11/07/24 09:45	11/07/24 13:50	1
Magnesium	46.9	U	200	46.9	ug/L		11/07/24 09:45	11/07/24 13:50	1
Manganese	1.5	U	8.0	1.5	ug/L		11/07/24 09:45	11/07/24 13:50	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 460-1005737/1-A

Matrix: Water

Analysis Batch: 1005782

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1005737

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	0.91	U	4.0	0.91	ug/L		11/07/24 09:45	11/07/24 13:50	1
Potassium	112	U	200	112	ug/L		11/07/24 09:45	11/07/24 13:50	1
Selenium	0.59	U	2.5	0.59	ug/L		11/07/24 09:45	11/07/24 13:50	1
Silver	0.29	U	2.0	0.29	ug/L		11/07/24 09:45	11/07/24 13:50	1
Sodium	219	U	500	219	ug/L		11/07/24 09:45	11/07/24 13:50	1
Thallium	0.21	U	0.80	0.21	ug/L		11/07/24 09:45	11/07/24 13:50	1
Vanadium	0.68	U	4.0	0.68	ug/L		11/07/24 09:45	11/07/24 13:50	1
Zinc	6.5	U	16.0	6.5	ug/L		11/07/24 09:45	11/07/24 13:50	1

Lab Sample ID: LCS 460-1005737/2-A

Matrix: Water

Analysis Batch: 1005782

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1005737

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2500	2685		ug/L		107	80 - 120
Antimony	25.0	25.42		ug/L		102	80 - 120
Arsenic	50.0	53.89		ug/L		108	80 - 120
Barium	50.0	49.74		ug/L		99	80 - 120
Beryllium	25.0	24.39		ug/L		98	80 - 120
Cadmium	25.0	25.77		ug/L		103	80 - 120
Calcium	2500	2722		ug/L		109	80 - 120
Chromium	50.0	51.41		ug/L		103	80 - 120
Cobalt	25.0	25.51		ug/L		102	80 - 120
Copper	50.0	56.97		ug/L		114	80 - 120
Iron	2500	2685		ug/L		107	80 - 120
Lead	25.0	25.58		ug/L		102	80 - 120
Magnesium	2500	2699		ug/L		108	80 - 120
Manganese	250	258.5		ug/L		103	80 - 120
Nickel	50.0	53.76		ug/L		108	80 - 120
Potassium	2500	2703		ug/L		108	80 - 120
Selenium	50.0	52.16		ug/L		104	80 - 120
Silver	25.0	26.46		ug/L		106	80 - 120
Sodium	2500	2724		ug/L		109	80 - 120
Thallium	20.0	20.27		ug/L		101	80 - 120
Vanadium	50.0	51.37		ug/L		103	80 - 120
Zinc	250	260.0		ug/L		104	80 - 120

Lab Sample ID: 460-314632-2 MS

Matrix: Water

Analysis Batch: 1005782

Client Sample ID: GW-11222397-103124-CT-15

Prep Type: Total/NA

Prep Batch: 1005737

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	247		2500	2982		ug/L		109	75 - 125
Antimony	0.76	U	25.0	25.56		ug/L		102	75 - 125
Arsenic	0.89	U	50.0	51.65		ug/L		103	75 - 125
Barium	230		50.0	280.4	4	ug/L		101	75 - 125
Beryllium	0.13	U	25.0	26.17		ug/L		105	75 - 125
Cadmium	0.39	U	25.0	25.10		ug/L		100	75 - 125
Calcium	46700		2500	49410	4	ug/L		109	75 - 125

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-314632-2 MS

Matrix: Water

Analysis Batch: 1005782

Client Sample ID: GW-11222397-103124-CT-15

Prep Type: Total/NA

Prep Batch: 1005737

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	2.5	U	50.0	50.80		ug/L		102	75 - 125
Cobalt	3.4	J	25.0	28.67		ug/L		101	75 - 125
Copper	2.5	U	50.0	52.04		ug/L		104	75 - 125
Iron	230		2500	2879		ug/L		106	75 - 125
Lead	0.84	U	25.0	26.23		ug/L		105	75 - 125
Magnesium	30000		2500	33150	4	ug/L		127	75 - 125
Manganese	549		250	800.0		ug/L		100	75 - 125
Nickel	5.9		50.0	54.97		ug/L		98	75 - 125
Potassium	6940		2500	9634		ug/L		108	75 - 125
Selenium	0.59	U	50.0	51.89		ug/L		104	75 - 125
Silver	0.29	U	25.0	25.43		ug/L		102	75 - 125
Sodium	101000		2500	105300	4	ug/L		175	75 - 125
Thallium	0.21	U	20.0	20.73		ug/L		104	75 - 125
Vanadium	1.3	J	50.0	52.22		ug/L		102	75 - 125
Zinc	7.5	J	250	263.5		ug/L		102	75 - 125

Lab Sample ID: 460-314632-2 MSD

Matrix: Water

Analysis Batch: 1005782

Client Sample ID: GW-11222397-103124-CT-15

Prep Type: Total/NA

Prep Batch: 1005737

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	247		2500	3077		ug/L		113	75 - 125	3	20
Antimony	0.76	U	25.0	26.45		ug/L		106	75 - 125	3	20
Arsenic	0.89	U	50.0	53.61		ug/L		107	75 - 125	4	20
Barium	230		50.0	285.3	4	ug/L		111	75 - 125	2	20
Beryllium	0.13	U	25.0	27.47		ug/L		110	75 - 125	5	20
Cadmium	0.39	U	25.0	27.43		ug/L		110	75 - 125	9	20
Calcium	46700		2500	51510	4	ug/L		193	75 - 125	4	20
Chromium	2.5	U	50.0	51.38		ug/L		103	75 - 125	1	20
Cobalt	3.4	J	25.0	29.23		ug/L		103	75 - 125	2	20
Copper	2.5	U	50.0	52.58		ug/L		105	75 - 125	1	20
Iron	230		2500	3044		ug/L		113	75 - 125	6	20
Lead	0.84	U	25.0	26.88		ug/L		108	75 - 125	2	20
Magnesium	30000		2500	32890	4	ug/L		117	75 - 125	1	20
Manganese	549		250	812.5		ug/L		105	75 - 125	2	20
Nickel	5.9		50.0	55.29		ug/L		99	75 - 125	1	20
Potassium	6940		2500	9669		ug/L		109	75 - 125	0	20
Selenium	0.59	U	50.0	53.80		ug/L		108	75 - 125	4	20
Silver	0.29	U	25.0	26.36		ug/L		105	75 - 125	4	20
Sodium	101000		2500	103900	4	ug/L		118	75 - 125	1	20
Thallium	0.21	U	20.0	21.05		ug/L		105	75 - 125	2	20
Vanadium	1.3	J	50.0	52.54		ug/L		103	75 - 125	1	20
Zinc	7.5	J	250	272.0		ug/L		106	75 - 125	3	20

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-314632-2 DU

Matrix: Water

Analysis Batch: 1005782

Client Sample ID: GW-11222397-103124-CT-15

Prep Type: Total/NA

Prep Batch: 1005737

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Aluminum	247		297.4		ug/L		19	20
Antimony	0.76	U	0.76	U	ug/L		NC	20
Arsenic	0.89	U	0.89	U	ug/L		NC	20
Barium	230		232.0		ug/L		1	20
Beryllium	0.13	U	0.13	U	ug/L		NC	20
Cadmium	0.39	U	0.39	U	ug/L		NC	20
Calcium	46700		47760		ug/L		2	20
Chromium	2.5	U	2.5	U	ug/L		NC	20
Cobalt	3.4	J	3.51	J	ug/L		2	20
Copper	2.5	U	2.5	U	ug/L		NC	20
Iron	230		272.1		ug/L		17	20
Lead	0.84	U	0.84	U	ug/L		NC	20
Magnesium	30000		31040		ug/L		3	20
Manganese	549		546.0		ug/L		0.6	20
Nickel	5.9		4.34	F5	ug/L		31	20
Potassium	6940		6907		ug/L		0.5	20
Selenium	0.59	U	0.59	U	ug/L		NC	20
Silver	0.29	U	0.29	U	ug/L		NC	20
Sodium	101000		102300		ug/L		1	20
Thallium	0.21	U	0.21	U	ug/L		NC	20
Vanadium	1.3	J	1.61	J F5	ug/L		24	20
Zinc	7.5	J	8.36	J	ug/L		11	20

Lab Sample ID: MB 460-1006046/1-A

Matrix: Water

Analysis Batch: 1006021

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1006046

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Aluminum	19.5	U	40.0	19.5	ug/L		11/08/24 18:50	11/08/24 20:31	1
Dissolved Antimony	0.76	U	2.0	0.76	ug/L		11/08/24 18:50	11/08/24 20:31	1
Dissolved Arsenic	0.89	U	2.0	0.89	ug/L		11/08/24 18:50	11/08/24 20:31	1
Dissolved Barium	0.91	U	4.0	0.91	ug/L		11/08/24 18:50	11/08/24 20:31	1
Dissolved Beryllium	0.13	U	0.80	0.13	ug/L		11/08/24 18:50	11/08/24 20:31	1
Dissolved Cadmium	0.39	U	2.0	0.39	ug/L		11/08/24 18:50	11/08/24 20:31	1
Dissolved Calcium	53.6	U	500	53.6	ug/L		11/08/24 18:50	11/08/24 20:31	1
Dissolved Chromium	2.5	U	4.0	2.5	ug/L		11/08/24 18:50	11/08/24 20:31	1
Dissolved Cobalt	0.71	U	4.0	0.71	ug/L		11/08/24 18:50	11/08/24 20:31	1
Dissolved Copper	2.5	U	4.0	2.5	ug/L		11/08/24 18:50	11/08/24 20:31	1
Dissolved Iron	58.2	U	120	58.2	ug/L		11/08/24 18:50	11/08/24 20:31	1
Dissolved Lead	0.84	U	1.2	0.84	ug/L		11/08/24 18:50	11/08/24 20:31	1
Dissolved Magnesium	46.9	U	200	46.9	ug/L		11/08/24 18:50	11/08/24 20:31	1
Dissolved Manganese	1.5	U	8.0	1.5	ug/L		11/08/24 18:50	11/08/24 20:31	1
Dissolved Nickel	0.91	U	4.0	0.91	ug/L		11/08/24 18:50	11/08/24 20:31	1
Dissolved Potassium	112	U	200	112	ug/L		11/08/24 18:50	11/08/24 20:31	1
Dissolved Selenium	0.59	U	2.5	0.59	ug/L		11/08/24 18:50	11/08/24 20:31	1
Dissolved Silver	0.29	U	2.0	0.29	ug/L		11/08/24 18:50	11/08/24 20:31	1
Dissolved Sodium	219	U	500	219	ug/L		11/08/24 18:50	11/08/24 20:31	1
Dissolved Thallium	0.21	U	0.80	0.21	ug/L		11/08/24 18:50	11/08/24 20:31	1
Dissolved Vanadium	0.68	U	4.0	0.68	ug/L		11/08/24 18:50	11/08/24 20:31	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 460-1006046/1-A

Matrix: Water

Analysis Batch: 1006021

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1006046

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Zinc	6.5	U	16.0	6.5	ug/L		11/08/24 18:50	11/08/24 20:31	1

Lab Sample ID: LCS 460-1006046/2-A

Matrix: Water

Analysis Batch: 1006021

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1006046

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Aluminum	2500	2563		ug/L		103	80 - 120
Dissolved Antimony	25.0	25.09		ug/L		100	80 - 120
Dissolved Arsenic	50.0	51.57		ug/L		103	80 - 120
Dissolved Barium	50.0	49.86		ug/L		100	80 - 120
Dissolved Beryllium	25.0	24.16		ug/L		97	80 - 120
Dissolved Cadmium	25.0	24.65		ug/L		99	80 - 120
Dissolved Calcium	2500	2643		ug/L		106	80 - 120
Dissolved Chromium	50.0	48.38		ug/L		97	80 - 120
Dissolved Cobalt	25.0	24.88		ug/L		100	80 - 120
Dissolved Copper	50.0	49.98		ug/L		100	80 - 120
Dissolved Iron	2500	2629		ug/L		105	80 - 120
Dissolved Lead	25.0	24.70		ug/L		99	80 - 120
Dissolved Magnesium	2500	2557		ug/L		102	80 - 120
Dissolved Manganese	250	258.2		ug/L		103	80 - 120
Dissolved Nickel	50.0	50.04		ug/L		100	80 - 120
Dissolved Potassium	2500	2611		ug/L		104	80 - 120
Dissolved Selenium	50.0	51.15		ug/L		102	80 - 120
Dissolved Silver	25.0	24.47		ug/L		98	80 - 120
Dissolved Sodium	2500	2568		ug/L		103	80 - 120
Dissolved Thallium	20.0	19.53		ug/L		98	80 - 120
Dissolved Vanadium	50.0	49.66		ug/L		99	80 - 120
Dissolved Zinc	250	254.5		ug/L		102	80 - 120

Lab Sample ID: 460-314632-2 MS

Matrix: Water

Analysis Batch: 1006021

Client Sample ID: GW-11222397-103124-CT-15

Prep Type: Dissolved

Prep Batch: 1006046

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Aluminum	19.5	U	2500	2440		ug/L		98	75 - 125
Dissolved Antimony	0.76	U F1	25.0	18.53	F1	ug/L		74	75 - 125
Dissolved Arsenic	0.89	U	50.0	50.73		ug/L		101	75 - 125
Dissolved Barium	246		50.0	294.9	4	ug/L		98	75 - 125
Dissolved Beryllium	0.13	U	25.0	23.98		ug/L		96	75 - 125
Dissolved Cadmium	0.39	U	25.0	23.63		ug/L		95	75 - 125
Dissolved Calcium	49200		2500	51450	4	ug/L		89	75 - 125
Dissolved Chromium	2.5	U	50.0	45.47		ug/L		91	75 - 125
Dissolved Cobalt	3.2	J	25.0	26.92		ug/L		95	75 - 125
Dissolved Copper	2.5	U	50.0	47.77		ug/L		96	75 - 125
Dissolved Iron	83.4	J	2500	2552		ug/L		99	75 - 125
Dissolved Lead	0.84	U	25.0	23.90		ug/L		96	75 - 125
Dissolved Magnesium	29400		2500	32110	4	ug/L		106	75 - 125
Dissolved Manganese	560		250	811.1		ug/L		100	75 - 125

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-314632-2 MS

Matrix: Water

Analysis Batch: 1006021

Client Sample ID: GW-11222397-103124-CT-15

Prep Type: Dissolved

Prep Batch: 1006046

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Nickel	3.8	J	50.0	51.02		ug/L		94	75 - 125
Dissolved Potassium	6950		2500	9468		ug/L		101	75 - 125
Dissolved Selenium	0.81	J	50.0	51.77		ug/L		102	75 - 125
Dissolved Silver	0.29	U	25.0	20.68		ug/L		83	75 - 125
Dissolved Sodium	96300		2500	99790	4	ug/L		139	75 - 125
Dissolved Thallium	0.21	U	20.0	18.73		ug/L		94	75 - 125
Dissolved Vanadium	0.68	U	50.0	47.82		ug/L		96	75 - 125
Dissolved Zinc	6.5	U	250	254.5		ug/L		102	75 - 125

Lab Sample ID: 460-314632-2 MSD

Matrix: Water

Analysis Batch: 1006021

Client Sample ID: GW-11222397-103124-CT-15

Prep Type: Dissolved

Prep Batch: 1006046

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Dissolved Aluminum	19.5	U	2500	2428		ug/L		97	75 - 125	0	20
Dissolved Antimony	0.76	U F1	25.0	18.61	F1	ug/L		74	75 - 125	0	20
Dissolved Arsenic	0.89	U	50.0	50.86		ug/L		102	75 - 125	0	20
Dissolved Barium	246		50.0	294.7	4	ug/L		98	75 - 125	0	20
Dissolved Beryllium	0.13	U	25.0	21.56		ug/L		86	75 - 125	11	20
Dissolved Cadmium	0.39	U	25.0	23.95		ug/L		96	75 - 125	1	20
Dissolved Calcium	49200		2500	50680	4	ug/L		58	75 - 125	2	20
Dissolved Chromium	2.5	U	50.0	45.14		ug/L		90	75 - 125	1	20
Dissolved Cobalt	3.2	J	25.0	26.78		ug/L		94	75 - 125	1	20
Dissolved Copper	2.5	U	50.0	48.85		ug/L		98	75 - 125	2	20
Dissolved Iron	83.4	J	2500	2505		ug/L		97	75 - 125	2	20
Dissolved Lead	0.84	U	25.0	23.69		ug/L		95	75 - 125	1	20
Dissolved Magnesium	29400		2500	31740	4	ug/L		92	75 - 125	1	20
Dissolved Manganese	560		250	824.9		ug/L		106	75 - 125	2	20
Dissolved Nickel	3.8	J	50.0	51.92		ug/L		96	75 - 125	2	20
Dissolved Potassium	6950		2500	9697		ug/L		110	75 - 125	2	20
Dissolved Selenium	0.81	J	50.0	50.12		ug/L		99	75 - 125	3	20
Dissolved Silver	0.29	U	25.0	20.39		ug/L		82	75 - 125	1	20
Dissolved Sodium	96300		2500	101200	4	ug/L		197	75 - 125	1	20
Dissolved Thallium	0.21	U	20.0	18.64		ug/L		93	75 - 125	0	20
Dissolved Vanadium	0.68	U	50.0	48.42		ug/L		97	75 - 125	1	20
Dissolved Zinc	6.5	U	250	250.4		ug/L		100	75 - 125	2	20

Lab Sample ID: 460-314626-E-27-B DU

Matrix: Water

Analysis Batch: 1006021

Client Sample ID: Duplicate

Prep Type: Dissolved

Prep Batch: 1006046

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Dissolved Aluminum	29.5	J	28.14	J	ug/L		5	20
Dissolved Antimony	0.76	U	0.76	U	ug/L		NC	20
Dissolved Arsenic	0.89	U	0.89	U	ug/L		NC	20
Dissolved Barium	22.7		22.97		ug/L		1	20
Dissolved Beryllium	0.13	U	0.13	U	ug/L		NC	20
Dissolved Cadmium	0.39	U	0.39	U	ug/L		NC	20
Dissolved Calcium	24700		24150		ug/L		2	20

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-314626-E-27-B DU

Matrix: Water

Analysis Batch: 1006021

Client Sample ID: Duplicate

Prep Type: Dissolved

Prep Batch: 1006046

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Dissolved Chromium	2.5	U	2.5	U	ug/L		NC	20
Dissolved Cobalt	0.71	U	0.71	U	ug/L		NC	20
Dissolved Copper	2.5	U	2.5	U	ug/L		NC	20
Dissolved Iron	7180		7068		ug/L		2	20
Dissolved Lead	0.84	U	0.84	U	ug/L		NC	20
Dissolved Magnesium	1470		1485		ug/L		0.8	20
Dissolved Manganese	93.9		94.46		ug/L		0.6	20
Dissolved Nickel	0.91	U	0.91	U	ug/L		NC	20
Dissolved Potassium	3020		3025		ug/L		0.2	20
Dissolved Selenium	5.6	F1	6.32		ug/L		12	20
Dissolved Silver	0.29	U	0.29	U	ug/L		NC	20
Dissolved Sodium	24800		24750		ug/L		0.2	20
Dissolved Thallium	0.21	U	0.21	U	ug/L		NC	20
Dissolved Vanadium	1.2	J	1.29	J	ug/L		4	20
Dissolved Zinc	6.5	U	6.5	U	ug/L		NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 460-1006320/1-A

Matrix: Water

Analysis Batch: 1006337

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1006320

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		11/11/24 14:36	11/11/24 14:58	1

Lab Sample ID: LCS 460-1006320/2-A

Matrix: Water

Analysis Batch: 1006337

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1006320

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	1.02		ug/L		102	80 - 120

Lab Sample ID: 460-314632-2 MS

Matrix: Water

Analysis Batch: 1006337

Client Sample ID: GW-11222397-103124-CT-15

Prep Type: Total/NA

Prep Batch: 1006320

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.091	U	1.00	0.958		ug/L		96	75 - 125

Lab Sample ID: 460-314632-2 MSD

Matrix: Water

Analysis Batch: 1006337

Client Sample ID: GW-11222397-103124-CT-15

Prep Type: Total/NA

Prep Batch: 1006320

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.091	U	1.00	0.994		ug/L		99	75 - 125	4	20

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 460-314632-2 DU

Matrix: Water

Analysis Batch: 1006337

Client Sample ID: GW-11222397-103124-CT-15

Prep Type: Total/NA

Prep Batch: 1006320

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.091	U	0.091	U	ug/L		NC	20

Lab Sample ID: MB 460-1006390/2-A

Matrix: Water

Analysis Batch: 1006441

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1006390

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.091	U	0.20	0.091	ug/L		11/12/24 01:20	11/12/24 05:31	1

Lab Sample ID: LCS 460-1006390/3-A

Matrix: Water

Analysis Batch: 1006441

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1006390

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury, Dissolved	1.00	0.974		ug/L		97	80 - 120

Lab Sample ID: MB 460-1006389/1-B

Matrix: Water

Analysis Batch: 1006441

Client Sample ID: Method Blank

Prep Type: Dissolved

Prep Batch: 1006390

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.091	U	0.20	0.091	ug/L		11/12/24 01:20	11/12/24 05:29	1

Lab Sample ID: 460-314632-2 MS

Matrix: Water

Analysis Batch: 1006441

Client Sample ID: GW-11222397-103124-CT-15

Prep Type: Dissolved

Prep Batch: 1006390

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury, Dissolved	0.091	U	1.00	0.966		ug/L		97	75 - 125

Lab Sample ID: 460-314632-2 MSD

Matrix: Water

Analysis Batch: 1006441

Client Sample ID: GW-11222397-103124-CT-15

Prep Type: Dissolved

Prep Batch: 1006390

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Mercury, Dissolved	0.091	U	1.00	0.920		ug/L		92	75 - 125	5	20

Lab Sample ID: 460-314632-2 DU

Matrix: Water

Analysis Batch: 1006441

Client Sample ID: GW-11222397-103124-CT-15

Prep Type: Dissolved

Prep Batch: 1006390

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury, Dissolved	0.091	U	0.091	U	ug/L		NC	20

QC Association Summary

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

GC/MS VOA

Analysis Batch: 1005453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-314632-4	TB-11222397-103124-ES-17	Total/NA	Water	8260D	
MB 460-1005453/9	Method Blank	Total/NA	Water	8260D	
LCS 460-1005453/5	Lab Control Sample	Total/NA	Water	8260D	
460-314626-B-12 MS	Matrix Spike	Total/NA	Water	8260D	
460-314626-B-12 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 1005726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-314632-3	GW-11222397-103124-ES-16	Total/NA	Water	8260D	
460-314632-7	GW-11222397-110124-ES-20	Total/NA	Water	8260D	
MB 460-1005726/8	Method Blank	Total/NA	Water	8260D	
LCS 460-1005726/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-1005726/4	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 1005004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-314632-7	GW-11222397-110124-ES-20	Total/NA	Water	3510C	
MB 460-1005004/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1005004/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1005004/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 1005022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-314632-7	GW-11222397-110124-ES-20	Total/NA	Water	8270E	1005004
MB 460-1005004/1-A	Method Blank	Total/NA	Water	8270E	1005004
LCS 460-1005004/2-A	Lab Control Sample	Total/NA	Water	8270E	1005004
LCSD 460-1005004/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	1005004

Prep Batch: 1005524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-1005524/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1005524/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1005524/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
460-314632-7 MS	GW-11222397-110124-ES-20	Total/NA	Water	3510C	
460-314632-7 MSD	GW-11222397-110124-ES-20	Total/NA	Water	3510C	

Analysis Batch: 1005607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-1005524/1-A	Method Blank	Total/NA	Water	8270E	1005524
LCS 460-1005524/2-A	Lab Control Sample	Total/NA	Water	8270E	1005524
LCSD 460-1005524/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	1005524
460-314632-7 MS	GW-11222397-110124-ES-20	Total/NA	Water	8270E	1005524
460-314632-7 MSD	GW-11222397-110124-ES-20	Total/NA	Water	8270E	1005524

Metals

Prep Batch: 1005737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-314632-1	RB-11222397-103124-CT-14	Total/NA	Water	3010A	
460-314632-2	GW-11222397-103124-CT-15	Total/NA	Water	3010A	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Metals (Continued)

Prep Batch: 1005737 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-314632-3	GW-11222397-103124-ES-16	Total/NA	Water	3010A	
460-314632-5	GW-11222397-103124-CT-18	Total/NA	Water	3010A	
460-314632-6	GW-11222397-103124-CT-19	Total/NA	Water	3010A	
460-314632-8	GW-11222397-110124-ES-21	Total/NA	Water	3010A	
MB 460-1005737/1-A	Method Blank	Total/NA	Water	3010A	
LCS 460-1005737/2-A	Lab Control Sample	Total/NA	Water	3010A	
460-314632-2 MS	GW-11222397-103124-CT-15	Total/NA	Water	3010A	
460-314632-2 MSD	GW-11222397-103124-CT-15	Total/NA	Water	3010A	
460-314632-2 DU	GW-11222397-103124-CT-15	Total/NA	Water	3010A	

Analysis Batch: 1005782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-314632-1	RB-11222397-103124-CT-14	Total/NA	Water	6020B	1005737
460-314632-2	GW-11222397-103124-CT-15	Total/NA	Water	6020B	1005737
460-314632-3	GW-11222397-103124-ES-16	Total/NA	Water	6020B	1005737
460-314632-5	GW-11222397-103124-CT-18	Total/NA	Water	6020B	1005737
460-314632-6	GW-11222397-103124-CT-19	Total/NA	Water	6020B	1005737
460-314632-8	GW-11222397-110124-ES-21	Total/NA	Water	6020B	1005737
MB 460-1005737/1-A	Method Blank	Total/NA	Water	6020B	1005737
LCS 460-1005737/2-A	Lab Control Sample	Total/NA	Water	6020B	1005737
460-314632-2 MS	GW-11222397-103124-CT-15	Total/NA	Water	6020B	1005737
460-314632-2 MSD	GW-11222397-103124-CT-15	Total/NA	Water	6020B	1005737
460-314632-2 DU	GW-11222397-103124-CT-15	Total/NA	Water	6020B	1005737

Analysis Batch: 1006021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-314632-1	RB-11222397-103124-CT-14	Dissolved	Water	6020B	1006046
460-314632-2	GW-11222397-103124-CT-15	Dissolved	Water	6020B	1006046
460-314632-3	GW-11222397-103124-ES-16	Dissolved	Water	6020B	1006046
460-314632-5	GW-11222397-103124-CT-18	Dissolved	Water	6020B	1006046
460-314632-6	GW-11222397-103124-CT-19	Dissolved	Water	6020B	1006046
460-314632-8	GW-11222397-110124-ES-21	Dissolved	Water	6020B	1006046
MB 460-1006046/1-A	Method Blank	Total/NA	Water	6020B	1006046
LCS 460-1006046/2-A	Lab Control Sample	Total/NA	Water	6020B	1006046
460-314632-2 MS	GW-11222397-103124-CT-15	Dissolved	Water	6020B	1006046
460-314632-2 MSD	GW-11222397-103124-CT-15	Dissolved	Water	6020B	1006046
460-314626-E-27-B DU	Duplicate	Dissolved	Water	6020B	1006046

Prep Batch: 1006046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-314632-1	RB-11222397-103124-CT-14	Dissolved	Water	3010A	
460-314632-2	GW-11222397-103124-CT-15	Dissolved	Water	3010A	
460-314632-3	GW-11222397-103124-ES-16	Dissolved	Water	3010A	
460-314632-5	GW-11222397-103124-CT-18	Dissolved	Water	3010A	
460-314632-6	GW-11222397-103124-CT-19	Dissolved	Water	3010A	
460-314632-8	GW-11222397-110124-ES-21	Dissolved	Water	3010A	
MB 460-1006046/1-A	Method Blank	Total/NA	Water	3010A	
LCS 460-1006046/2-A	Lab Control Sample	Total/NA	Water	3010A	
460-314632-2 MS	GW-11222397-103124-CT-15	Dissolved	Water	3010A	
460-314632-2 MSD	GW-11222397-103124-CT-15	Dissolved	Water	3010A	
460-314626-E-27-B DU	Duplicate	Dissolved	Water	3010A	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Metals

Prep Batch: 1006320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-314632-1	RB-11222397-103124-CT-14	Total/NA	Water	7470A	
460-314632-2	GW-11222397-103124-CT-15	Total/NA	Water	7470A	
460-314632-3	GW-11222397-103124-ES-16	Total/NA	Water	7470A	
460-314632-5	GW-11222397-103124-CT-18	Total/NA	Water	7470A	
460-314632-6	GW-11222397-103124-CT-19	Total/NA	Water	7470A	
460-314632-8	GW-11222397-110124-ES-21	Total/NA	Water	7470A	
MB 460-1006320/1-A	Method Blank	Total/NA	Water	7470A	
LCS 460-1006320/2-A	Lab Control Sample	Total/NA	Water	7470A	
460-314632-2 MS	GW-11222397-103124-CT-15	Total/NA	Water	7470A	
460-314632-2 MSD	GW-11222397-103124-CT-15	Total/NA	Water	7470A	
460-314632-2 DU	GW-11222397-103124-CT-15	Total/NA	Water	7470A	

Analysis Batch: 1006337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-314632-1	RB-11222397-103124-CT-14	Total/NA	Water	7470A	1006320
460-314632-2	GW-11222397-103124-CT-15	Total/NA	Water	7470A	1006320
460-314632-3	GW-11222397-103124-ES-16	Total/NA	Water	7470A	1006320
460-314632-5	GW-11222397-103124-CT-18	Total/NA	Water	7470A	1006320
460-314632-6	GW-11222397-103124-CT-19	Total/NA	Water	7470A	1006320
460-314632-8	GW-11222397-110124-ES-21	Total/NA	Water	7470A	1006320
MB 460-1006320/1-A	Method Blank	Total/NA	Water	7470A	1006320
LCS 460-1006320/2-A	Lab Control Sample	Total/NA	Water	7470A	1006320
460-314632-2 MS	GW-11222397-103124-CT-15	Total/NA	Water	7470A	1006320
460-314632-2 MSD	GW-11222397-103124-CT-15	Total/NA	Water	7470A	1006320
460-314632-2 DU	GW-11222397-103124-CT-15	Total/NA	Water	7470A	1006320

Filtration Batch: 1006389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-1006389/1-B	Method Blank	Dissolved	Water	FILTRATION	

Prep Batch: 1006390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-314632-1	RB-11222397-103124-CT-14	Dissolved	Water	7470A	
460-314632-2	GW-11222397-103124-CT-15	Dissolved	Water	7470A	
460-314632-3	GW-11222397-103124-ES-16	Dissolved	Water	7470A	
460-314632-5	GW-11222397-103124-CT-18	Dissolved	Water	7470A	
460-314632-6	GW-11222397-103124-CT-19	Dissolved	Water	7470A	
460-314632-8	GW-11222397-110124-ES-21	Dissolved	Water	7470A	
MB 460-1006389/1-B	Method Blank	Dissolved	Water	7470A	1006389
MB 460-1006390/2-A	Method Blank	Total/NA	Water	7470A	
LCS 460-1006390/3-A	Lab Control Sample	Total/NA	Water	7470A	
460-314632-2 MS	GW-11222397-103124-CT-15	Dissolved	Water	7470A	
460-314632-2 MSD	GW-11222397-103124-CT-15	Dissolved	Water	7470A	
460-314632-2 DU	GW-11222397-103124-CT-15	Dissolved	Water	7470A	

Analysis Batch: 1006441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-314632-1	RB-11222397-103124-CT-14	Dissolved	Water	7470A	1006390
460-314632-2	GW-11222397-103124-CT-15	Dissolved	Water	7470A	1006390
460-314632-3	GW-11222397-103124-ES-16	Dissolved	Water	7470A	1006390
460-314632-5	GW-11222397-103124-CT-18	Dissolved	Water	7470A	1006390

Eurofins Edison

QC Association Summary

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Metals (Continued)

Analysis Batch: 1006441 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-314632-6	GW-11222397-103124-CT-19	Dissolved	Water	7470A	1006390
460-314632-8	GW-11222397-110124-ES-21	Dissolved	Water	7470A	1006390
MB 460-1006389/1-B	Method Blank	Dissolved	Water	7470A	1006390
MB 460-1006390/2-A	Method Blank	Total/NA	Water	7470A	1006390
LCS 460-1006390/3-A	Lab Control Sample	Total/NA	Water	7470A	1006390
460-314632-2 MS	GW-11222397-103124-CT-15	Dissolved	Water	7470A	1006390
460-314632-2 MSD	GW-11222397-103124-CT-15	Dissolved	Water	7470A	1006390
460-314632-2 DU	GW-11222397-103124-CT-15	Dissolved	Water	7470A	1006390

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Client Sample ID: RB-11222397-103124-CT-14

Lab Sample ID: 460-314632-1

Date Collected: 10/30/24 13:40

Matrix: Water

Date Received: 11/02/24 09:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			1006046	VAD	EET EDI	11/08/24 18:50
Dissolved	Analysis	6020B		1	1006021	VAD	EET EDI	11/08/24 21:34
Total/NA	Prep	3010A			1005737	FBT	EET EDI	11/07/24 09:45
Total/NA	Analysis	6020B		1	1005782	JKF	EET EDI	11/07/24 15:34
Dissolved	Prep	7470A			1006390	TJS	EET EDI	11/12/24 01:20
Dissolved	Analysis	7470A		1	1006441	TJS	EET EDI	11/12/24 05:48
Total/NA	Prep	7470A			1006320	RBS	EET EDI	11/11/24 14:36
Total/NA	Analysis	7470A		1	1006337	RBS	EET EDI	11/11/24 15:32

Client Sample ID: GW-11222397-103124-CT-15

Lab Sample ID: 460-314632-2

Date Collected: 10/30/24 15:20

Matrix: Water

Date Received: 11/02/24 09:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			1006046	VAD	EET EDI	11/08/24 18:50
Dissolved	Analysis	6020B		1	1006021	VAD	EET EDI	11/08/24 21:57
Total/NA	Prep	3010A			1005737	FBT	EET EDI	11/07/24 09:45
Total/NA	Analysis	6020B		1	1005782	JKF	EET EDI	11/07/24 14:05
Dissolved	Prep	7470A			1006390	TJS	EET EDI	11/12/24 01:20
Dissolved	Analysis	7470A		1	1006441	TJS	EET EDI	11/12/24 05:34
Total/NA	Prep	7470A			1006320	RBS	EET EDI	11/11/24 14:36
Total/NA	Analysis	7470A		1	1006337	RBS	EET EDI	11/11/24 15:01

Client Sample ID: GW-11222397-103124-ES-16

Lab Sample ID: 460-314632-3

Date Collected: 10/30/24 15:40

Matrix: Water

Date Received: 11/02/24 09:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	1005726	EMM	EET EDI	11/07/24 18:43
Dissolved	Prep	3010A			1006046	VAD	EET EDI	11/08/24 18:50
Dissolved	Analysis	6020B		1	1006021	VAD	EET EDI	11/08/24 22:10
Total/NA	Prep	3010A			1005737	FBT	EET EDI	11/07/24 09:45
Total/NA	Analysis	6020B		1	1005782	JKF	EET EDI	11/07/24 15:36
Dissolved	Prep	7470A			1006390	TJS	EET EDI	11/12/24 01:20
Dissolved	Analysis	7470A		1	1006441	TJS	EET EDI	11/12/24 05:50
Total/NA	Prep	7470A			1006320	RBS	EET EDI	11/11/24 14:36
Total/NA	Analysis	7470A		1	1006337	RBS	EET EDI	11/11/24 15:34

Client Sample ID: TB-11222397-103124-ES-17

Lab Sample ID: 460-314632-4

Date Collected: 10/30/24 14:45

Matrix: Water

Date Received: 11/02/24 09:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	1005453	CJM	EET EDI	11/06/24 13:46

Eurofins Edison

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Client Sample ID: GW-11222397-103124-CT-18

Lab Sample ID: 460-314632-5

Date Collected: 10/30/24 17:35

Matrix: Water

Date Received: 11/02/24 09:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			1006046	VAD	EET EDI	11/08/24 18:50
Dissolved	Analysis	6020B		1	1006021	VAD	EET EDI	11/08/24 22:13
Total/NA	Prep	3010A			1005737	FBT	EET EDI	11/07/24 09:45
Total/NA	Analysis	6020B		1	1005782	JKF	EET EDI	11/07/24 15:39
Dissolved	Prep	7470A			1006390	TJS	EET EDI	11/12/24 01:20
Dissolved	Analysis	7470A		1	1006441	TJS	EET EDI	11/12/24 05:51
Total/NA	Prep	7470A			1006320	RBS	EET EDI	11/11/24 14:36
Total/NA	Analysis	7470A		1	1006337	RBS	EET EDI	11/11/24 15:36

Client Sample ID: GW-11222397-103124-CT-19

Lab Sample ID: 460-314632-6

Date Collected: 10/30/24 17:45

Matrix: Water

Date Received: 11/02/24 09:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			1006046	VAD	EET EDI	11/08/24 18:50
Dissolved	Analysis	6020B		1	1006021	VAD	EET EDI	11/08/24 22:16
Total/NA	Prep	3010A			1005737	FBT	EET EDI	11/07/24 09:45
Total/NA	Analysis	6020B		1	1005782	JKF	EET EDI	11/07/24 15:42
Dissolved	Prep	7470A			1006390	TJS	EET EDI	11/12/24 01:20
Dissolved	Analysis	7470A		1	1006441	TJS	EET EDI	11/12/24 05:53
Total/NA	Prep	7470A			1006320	RBS	EET EDI	11/11/24 14:36
Total/NA	Analysis	7470A		1	1006337	RBS	EET EDI	11/11/24 15:38

Client Sample ID: GW-11222397-110124-ES-20

Lab Sample ID: 460-314632-7

Date Collected: 10/30/24 10:50

Matrix: Water

Date Received: 11/02/24 09:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	1005726	EMM	EET EDI	11/07/24 20:12
Total/NA	Prep	3510C			1005004	NMP	EET EDI	11/03/24 08:30
Total/NA	Analysis	8270E		1	1005022	YAH	EET EDI	11/03/24 16:54

Client Sample ID: GW-11222397-110124-ES-21

Lab Sample ID: 460-314632-8

Date Collected: 10/30/24 13:15

Matrix: Water

Date Received: 11/02/24 09:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			1006046	VAD	EET EDI	11/08/24 18:50
Dissolved	Analysis	6020B		1	1006021	VAD	EET EDI	11/08/24 22:21
Total/NA	Prep	3010A			1005737	FBT	EET EDI	11/07/24 09:45
Total/NA	Analysis	6020B		1	1005782	JKF	EET EDI	11/07/24 15:44
Dissolved	Prep	7470A			1006390	TJS	EET EDI	11/12/24 01:20
Dissolved	Analysis	7470A		1	1006441	TJS	EET EDI	11/12/24 05:55
Total/NA	Prep	7470A			1006320	RBS	EET EDI	11/11/24 14:36
Total/NA	Analysis	7470A		1	1006337	RBS	EET EDI	11/11/24 15:39

Eurofins Edison

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Laboratory References:
EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

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Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Laboratory: Eurofins Edison

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

Authority	Program	Identification Number	Expiration Date
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-02-25

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

Analysis Method	Prep Method	Matrix	Analyte
6020B	3010A	Water	Aluminum
6020B	3010A	Water	Antimony
6020B	3010A	Water	Arsenic
6020B	3010A	Water	Barium
6020B	3010A	Water	Beryllium
6020B	3010A	Water	Cadmium
6020B	3010A	Water	Calcium
6020B	3010A	Water	Chromium
6020B	3010A	Water	Cobalt
6020B	3010A	Water	Copper
6020B	3010A	Water	Dissolved Aluminum
6020B	3010A	Water	Dissolved Antimony
6020B	3010A	Water	Dissolved Arsenic
6020B	3010A	Water	Dissolved Barium
6020B	3010A	Water	Dissolved Beryllium
6020B	3010A	Water	Dissolved Cadmium
6020B	3010A	Water	Dissolved Calcium
6020B	3010A	Water	Dissolved Chromium
6020B	3010A	Water	Dissolved Cobalt
6020B	3010A	Water	Dissolved Copper
6020B	3010A	Water	Dissolved Iron
6020B	3010A	Water	Dissolved Lead
6020B	3010A	Water	Dissolved Magnesium
6020B	3010A	Water	Dissolved Manganese
6020B	3010A	Water	Dissolved Nickel
6020B	3010A	Water	Dissolved Potassium
6020B	3010A	Water	Dissolved Selenium
6020B	3010A	Water	Dissolved Silver
6020B	3010A	Water	Dissolved Sodium
6020B	3010A	Water	Dissolved Thallium
6020B	3010A	Water	Dissolved Vanadium
6020B	3010A	Water	Dissolved Zinc
6020B	3010A	Water	Iron
6020B	3010A	Water	Lead
6020B	3010A	Water	Magnesium
6020B	3010A	Water	Manganese
6020B	3010A	Water	Nickel
6020B	3010A	Water	Potassium
6020B	3010A	Water	Selenium
6020B	3010A	Water	Silver
6020B	3010A	Water	Sodium
6020B	3010A	Water	Thallium
6020B	3010A	Water	Vanadium
6020B	3010A	Water	Zinc
7470A	7470A	Water	Mercury

Eurofins Edison

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Laboratory: Eurofins Edison (Continued)

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

Authority	Program	Identification Number	Expiration Date
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Water	Mercury, Dissolved
8260D		Water	1,1,1-Trichloroethane
8260D		Water	1,1,2,2-Tetrachloroethane
8260D		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260D		Water	1,1,2-Trichloroethane
8260D		Water	1,1-Dichloroethane
8260D		Water	1,1-Dichloroethene
8260D		Water	1,2,3-Trichlorobenzene
8260D		Water	1,2,4-Trichlorobenzene
8260D		Water	1,2,4-Trimethylbenzene
8260D		Water	1,2-Dibromo-3-Chloropropane
8260D		Water	1,2-Dibromoethane
8260D		Water	1,2-Dichlorobenzene
8260D		Water	1,2-Dichloroethane
8260D		Water	1,2-Dichloropropane
8260D		Water	1,3-Dichlorobenzene
8260D		Water	1,4-Dichlorobenzene
8260D		Water	1,4-Dioxane
8260D		Water	2-Butanone (MEK)
8260D		Water	2-Hexanone
8260D		Water	4-Methyl-2-pentanone (MIBK)
8260D		Water	Acetone
8260D		Water	Benzene
8260D		Water	Bromoform
8260D		Water	Bromomethane
8260D		Water	Carbon disulfide
8260D		Water	Carbon tetrachloride
8260D		Water	Chlorobenzene
8260D		Water	Chlorobromomethane
8260D		Water	Chlorodibromomethane
8260D		Water	Chloroethane
8260D		Water	Chloroform
8260D		Water	Chloromethane
8260D		Water	cis-1,2-Dichloroethene
8260D		Water	cis-1,3-Dichloropropene
8260D		Water	Cyclohexane
8260D		Water	Dichlorobromomethane
8260D		Water	Dichlorodifluoromethane
8260D		Water	Ethylbenzene
8260D		Water	Isopropylbenzene
8260D		Water	Methyl acetate
8260D		Water	Methyl tert-butyl ether
8260D		Water	Methylcyclohexane
8260D		Water	Methylene Chloride
8260D		Water	m-Xylene & p-Xylene
8260D		Water	o-Xylene
8260D		Water	Styrene

Eurofins Edison

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Laboratory: Eurofins Edison (Continued)

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

Authority	Program	Identification Number	Expiration Date
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8260D		Water	Tetrachloroethene
8260D		Water	Toluene
8260D		Water	trans-1,2-Dichloroethene
8260D		Water	trans-1,3-Dichloropropene
8260D		Water	Trichloroethene
8260D		Water	Trichlorofluoromethane
8260D		Water	Vinyl chloride
8270E	3510C	Water	1,1'-Biphenyl
8270E	3510C	Water	1,2,4,5-Tetrachlorobenzene
8270E	3510C	Water	2,2'-oxybis[1-chloropropane]
8270E	3510C	Water	2,3,4,6-Tetrachlorophenol
8270E	3510C	Water	2,4,5-Trichlorophenol
8270E	3510C	Water	2,4,6-Trichlorophenol
8270E	3510C	Water	2,4-Dichlorophenol
8270E	3510C	Water	2,4-Dimethylphenol
8270E	3510C	Water	2,4-Dinitrophenol
8270E	3510C	Water	2,4-Dinitrotoluene
8270E	3510C	Water	2,6-Dinitrotoluene
8270E	3510C	Water	2-Chloronaphthalene
8270E	3510C	Water	2-Chlorophenol
8270E	3510C	Water	2-Methylnaphthalene
8270E	3510C	Water	2-Methylphenol
8270E	3510C	Water	2-Nitroaniline
8270E	3510C	Water	2-Nitrophenol
8270E	3510C	Water	3,3'-Dichlorobenzidine
8270E	3510C	Water	3-Nitroaniline
8270E	3510C	Water	4,6-Dinitro-2-methylphenol
8270E	3510C	Water	4-Bromophenyl phenyl ether
8270E	3510C	Water	4-Chloro-3-methylphenol
8270E	3510C	Water	4-Chloroaniline
8270E	3510C	Water	4-Chlorophenyl phenyl ether
8270E	3510C	Water	4-Methylphenol
8270E	3510C	Water	4-Nitroaniline
8270E	3510C	Water	4-Nitrophenol
8270E	3510C	Water	Acenaphthene
8270E	3510C	Water	Acenaphthylene
8270E	3510C	Water	Acetophenone
8270E	3510C	Water	Anthracene
8270E	3510C	Water	Atrazine
8270E	3510C	Water	Benzaldehyde
8270E	3510C	Water	Benzo[a]anthracene
8270E	3510C	Water	Benzo[a]pyrene
8270E	3510C	Water	Benzo[b]fluoranthene
8270E	3510C	Water	Benzo[g,h,i]perylene
8270E	3510C	Water	Benzo[k]fluoranthene
8270E	3510C	Water	Bis(2-chloroethoxy)methane
8270E	3510C	Water	Bis(2-chloroethyl)ether

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Laboratory: Eurofins Edison (Continued)

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

Authority	Program	Identification Number	Expiration Date
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8270E	3510C	Water	Bis(2-ethylhexyl) phthalate
8270E	3510C	Water	Butyl benzyl phthalate
8270E	3510C	Water	Caprolactam
8270E	3510C	Water	Carbazole
8270E	3510C	Water	Chrysene
8270E	3510C	Water	Dibenz(a,h)anthracene
8270E	3510C	Water	Dibenzofuran
8270E	3510C	Water	Diethyl phthalate
8270E	3510C	Water	Dimethyl phthalate
8270E	3510C	Water	Di-n-butyl phthalate
8270E	3510C	Water	Di-n-octyl phthalate
8270E	3510C	Water	Fluoranthene
8270E	3510C	Water	Fluorene
8270E	3510C	Water	Hexachlorobenzene
8270E	3510C	Water	Hexachlorobutadiene
8270E	3510C	Water	Hexachlorocyclopentadiene
8270E	3510C	Water	Hexachloroethane
8270E	3510C	Water	Indeno[1,2,3-cd]pyrene
8270E	3510C	Water	Isophorone
8270E	3510C	Water	Naphthalene
8270E	3510C	Water	Nitrobenzene
8270E	3510C	Water	N-Nitrosodi-n-propylamine
8270E	3510C	Water	N-Nitrosodiphenylamine
8270E	3510C	Water	Pentachlorophenol
8270E	3510C	Water	Phenanthrene
8270E	3510C	Water	Phenol
8270E	3510C	Water	Pyrene

Method Summary

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET EDI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET EDI
6020B	Metals (ICP/MS)	SW846	EET EDI
7470A	Mercury (CVAA)	SW846	EET EDI
3010A	Preparation, Total Metals	SW846	EET EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET EDI
5030C	Purge and Trap	SW846	EET EDI
7470A	Preparation, Mercury	SW846	EET EDI

Protocol References:

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

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: GHD Services Inc.
Project/Site: 11222397- RACER - Wilmington, DE

Job ID: 460-314632-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-314632-1	RB-11222397-103124-CT-14	Water	10/30/24 13:40	11/02/24 09:46
460-314632-2	GW-11222397-103124-CT-15	Water	10/30/24 15:20	11/02/24 09:46
460-314632-3	GW-11222397-103124-ES-16	Water	10/30/24 15:40	11/02/24 09:46
460-314632-4	TB-11222397-103124-ES-17	Water	10/30/24 14:45	11/02/24 09:46
460-314632-5	GW-11222397-103124-CT-18	Water	10/30/24 17:35	11/02/24 09:46
460-314632-6	GW-11222397-103124-CT-19	Water	10/30/24 17:45	11/02/24 09:46
460-314632-7	GW-11222397-110124-ES-20	Water	10/30/24 10:50	11/02/24 09:46
460-314632-8	GW-11222397-110124-ES-21	Water	10/30/24 13:15	11/02/24 09:46

Environment Testing America

TAL-8210

Company Name: CHP		Client Contact		Project Manager: Sam Sosa		Site Contact:		Date:		COC No:	
Address: 550 E. Swanton Rd. Suite 140		City/State/Zip: Waukegan, IL 60087		Tel/Email		Lab Contact: 1-773-461-2514		Carrier		Sampler	
Phone: 847-344-6443		Fax: 847-344-6443		Analysis Turnaround Time		Perform MS/MSD (Y/N)		For Lab Use Only		Walk-in Client:	
Project Name: RACER TRUST		Site:		Sample Identification		Filtered Sample (Y/N)		Job / SDG No.		Lab Sampling	
P.O. #		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		Matrix		Job / SDG No.	
RB-11222397-103124-CT-14		10/31/24		13:40		G		RB		314632	
GW-11222397-103124-CT-15		10/31/24		15:20		G		GW		Sample Specific Notes.	
GW-11222397-103124-ES-16		10/31/24		15:40		G		GW			
TB-11222397-103124-ES-17		10/31/24		15:45		TB		TB			
GW-11222397-103124-CT-18		10/31/24		17:35		G		GW			
GW-11222397-103124-CT-19		10/31/24		17:45		G		GW			
GW-11222397-110124-ES-20		11/1/24		10:50		G		GW			
GW-11222397-110124-ES-21		11/1/24		13:15		G		GW			

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

Possible Hazard Identification:

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

☐ Non-Hazard

☐ Flammable

☐ Skin Irritant

☐ Poison B

☐ Unknown

Special Instructions/QC Requirements & Comments.

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

☐ Return to Client

☐ Disposal by Lab

☐ Archive for _____ Months

Custody Seal No.

Relinquished by: **Chris Townsend**

Relinquished by: **Chris Townsend**

Relinquished by: **Chris Townsend**

Cooler Temp (°C): _____

Obs'd: _____

Corrd: _____

Therm ID No.: _____

Date/Time: **11/1/24 15:00**

Date/Time: **11/1/24 15:00**

Date/Time: **11/1/24 15:00**

01/11/2020-01/11

Cooler Temperatures

[illegible]

If pH adjustments are required record the information below.

Sample No(s). adjusted:

Preservative Name/Conc.:

Volume of Preservative used (ml):

Lot # of Preservative(s):

Expiration Date:

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

Initials:

Date:

EDS-WI-038, Rev 4, 06/09/2014

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 460-314632-1

Login Number: 314632

List Number: 1

Creator: Casallas, Angela C

List Source: Eurofins Edison

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

Appendix E

Historical Groundwater Analytical Results

Historical Groundwater Analytical Results
Long-Term Stewardship Plan Groundwater Sampling Report, Year 3
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location:		HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)	OU-2 MW-8	OU-2 MW-8	OU-2 MW-8	OU-2 MW-8	OU-2 MW-8	OU-2 MW-8	OU-2 MW-8	OU-2 MW-8	OU-2 MW-8	OU-2 MW-8	OU-2 MW-8	OU-2 MW-8	OU-2 MW-8	OU-2 MW-8	OU-2 MW-8
Sample ID:				MW8- 060205EAP001	MW8- 060205EAP002	WG-17338-111405- RR-015	GW1733808210600 4	GW1733808230601 5	GW-17338-121406- MJW-10	GW-17338-080408- 02	GW-17338-112008- 01	GW-017338-022409- 009	GW-017338-050809- ACH-003	GW-017338-050809- ACH-004	GW-017338-081809- ACH-05	GW-017338-111209- ACH-03	GW-017338-111209- ACH-04	GW-017338-012110- ACH-001
Sample Date:				6/2/2005	6/2/2005 (Duplicate)	11/14/2005	8/21/2006	8/23/2006	12/14/2006	8/4/2008	11/20/2008	2/24/2009	5/8/2009	5/8/2009 (Duplicate)	8/18/2009	11/12/2009	11/12/2009 (Duplicate)	1/21/2010
Parameters		Units																
Volatile Organic Compounds																		
1,1,1-Trichloroethane	ug/L	200	11	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-
1,1,2,2-Tetrachloroethane	ug/L	0.076	610	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	1.0 U	1.0 U	1.0 U	-
1,1,2-Trichloroethane	ug/L	0.041	1200	3.0 U	3.0 U	3.0 U	3.0 U	-	3.0 U	3.0 U	3.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-
1,1-Dichloroethane	ug/L	2.8	47	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-
1,1-Dichloroethene	ug/L	7	25	2.0 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-
1,2,3-Trichlorobenzene	ug/L	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	0.4	24	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-
1,2,4-Trimethylbenzene	ug/L	5.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.00033	-	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	-
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	-	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-
1,2-Dichlorobenzene	ug/L	30	0.7	0.7 J	0.8 J ^b	5.0 U	5.0 U	-	5.0 U	5.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-
1,2-Dichloroethane	ug/L	0.17	100	2.0 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-
1,2-Dichloropropane	ug/L	0.82	-	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	1.0 U	1.0 U	1.0 U	-
1,3,5-Trimethylbenzene	ug/L	6	71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	-	-	0.6 J	0.6 J	5.0 U	5.0 U	-	5.0 U	5.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-
1,4-Dichlorobenzene	ug/L	0.48	26	3.7 J ^a	3.8 J ^a	1.3 J ^a	5.0 U	-	5.0 U	5.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-
1,4-Dioxane	ug/L	0.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2,4-Trimethylpentane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	R	R	R	5.0 U	-	R	5.0 U	5.0 U	10 U	10 U	10 U	R	10 UJ	10 UJ	-
2-Hexanone	ug/L	3.8	99	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U	10 U	10 U	10 U	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	170	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U	10 U	10 U	10 U	-
Acetone	ug/L	1800	1500	5.0 U	5.0 U	5.0 U	R	-	R	R	5.0 U	10 U	10 UJ	10 UJ	R	R	R	-
Benzene	ug/L	0.46	370	4.7 ^a	4.9 ^a	7.6 ^a	7.2 ^a	-	6.6 ^a	1.2 ^a	3.9 ^a	2.9 ^a	1.9 ^a	2.1 ^a	3.7 ^a	12 ^a	12 ^a	-
Bromodichloromethane	ug/L	0.13	-	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	1.0 U	1.0 U	1.0 U	-
Bromoform	ug/L	3.3	320	4.0 U	4.0 U	4.0 U	4.0 U	-	4.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-
Bromomethane (Methyl bromide)	ug/L	0.75	-	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-
Carbon disulfide	ug/L	81	0.92	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-
Carbon tetrachloride	ug/L	0.46	13.3	2.0 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-
Chlorobenzene	ug/L	7.8	1.3	810 ^{ab}	710 ^{ab}	250 ^{ab}	60 ^{ab}	-	49 ^{ab}	4.6 J ^b	3.3 J ^b	2.9 ^b	1.6 ^b	1.7 ^b	2.0 ^b	2.8 ^b	2.8 ^b	-
Chlorobromomethane	ug/L	8.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	ug/L	830	-	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	-
Chloroform (Trichloromethane)	ug/L	0.22	1.8	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-
Chloromethane (Methyl chloride)	ug/L	19	-	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-
cis-1,2-Dichloroethene	ug/L	2.5	-	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-
cis-1,3-Dichloropropene	ug/L	-	-	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-
Cyclohexane	ug/L	1300	-	0.6 J	0.7 J	1.7 J	1.1 J	-	1.6 J	0.9 J	-	3.1	3.1	2.9	2.1	5.3	5.1	-
Dibromochloromethane	ug/L	0.87	-	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-
Dichlorodifluoromethane (CFC-12)	ug/L	20	-	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-
Ethylbenzene	ug/L	1.5	90	6.5 ^a	7.3 ^a	0.9 J	4.0 U	-	4.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	0.43 J	0.80 J	0.79 J	-
Hexane	ug/L	150	0.58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyl benzene	ug/L	45	2.6	2.5 J	2.7 J ^b	7.8 ^b	2.8 J ^b	-	0.9 J	0.6 J	-	5.9 ^b	2.9 ^b	3.2 ^b	7.1 ^b	24 ^b	24 ^b	-
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	2000	-	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	-	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-
Methyl cyclohexane	ug/L	-	-	5.0 U	5.0 U	1.9 J	0.8 J	-	1.8 J	2.4 J	-	11	16	18	7.2	18	18	-
Methyl tert butyl ether (MTBE)	ug/L	10	11070	1.3 J	1.4 J	2.2 J	16 ^a	-	17 ^a	4.5 J	-	6.3	5.0	5.3	7.1	8.9	9.1	-
Methylene chloride	ug/L	5	98.1	3.0 U	3.0 U	3.0 U	3.0 U	-	3.0 U	3.0 U	3.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-
Naphthalene	ug/L	0.12	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Heptane	ug/L	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	ug/L	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	100	72	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-
Tetrachloroethene	ug/L	1	111	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	1.0 U	1.0 U	1.0 U	-
Toluene	ug/L	110	2	40 ^b	42 ^b	0.9 J	5.0 U	-	5.0 U	5.0 U	0.4 J	1.0 U	1.0 U	1.0 U	0.30 J	0.25 J	0.28 J	-
trans-1,2-Dichloroethene	ug/L	6.8	970	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-
trans-1,3-Dichloropropene	ug/L	-	-	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0		

Historical Groundwater Analytical Results
Long-Term Stewardship Plan Groundwater Sampling Report, Year 3
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location:		HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)	OU-2 MW-8 MW8- 060205EAP001 6/2/2005	OU-2 MW-8 MW8- 060205EAP002 6/2/2005 (Duplicate)	OU-2 MW-8 WG-17338-111405- RR-015 11/14/2005	OU-2 MW-8 GW1733808210600 4 8/21/2006	OU-2 MW-8 GW1733808230601 5 8/23/2006	OU-2 MW-8 GW-17338-121406- MJW-10 12/14/2006	OU-2 MW-8 GW-17338-080408- 02 8/4/2008	OU-2 MW-8 GW-17338-112008- 01 11/20/2008	OU-2 MW-8 GW-017338-022409- 009 2/24/2009	OU-2 MW-8 GW-017338-050809- ACH-003 5/8/2009	OU-2 MW-8 GW-017338-050809- ACH-004 5/8/2009 (Duplicate)	OU-2 MW-8 GW-017338-081809- ACH-05 8/18/2009	OU-2 MW-8 GW-017338-111209- ACH-03 11/12/2009	OU-2 MW-8 GW-017338-111209- ACH-04 11/12/2009 (Duplicate)	OU-2 MW-8 GW-017338-012110- ACH-001 1/21/2010
2,3,4,6-Tetrachlorophenol	ug/L	24	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/L	120		10 U	17 U	10 U	11 U	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	ug/L	1.2	4.9	10 U	17 U	10 U	11 U	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
2,4-Dichlorophenol	ug/L	4.6	11	10 U	17 U	10 U	11 U	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
2,4-Dimethylphenol	ug/L	36		10 U	17 U	5.6 J	11 U	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
2,4-Dinitrophenol	ug/L	3.9		42 U	67 U	41 U	33 UJ	-	31 U	30 U	31 U	32 U	30 U	30 U	32 UJ	31 UJ	31 UJ	30 U
2,4-Dinitrotoluene	ug/L	0.24	44	2.1 U	3.3 U	2.1 U	2.2 UJ	-	2.1 U	2.0 U	2.0 U	2.1 U	2.0 U	2.0 U	2.1 U	2.1 U	2.0 U	2.0 U
2,6-Dinitrotoluene	ug/L	0.049	81	2.1 U	3.3 U	0.4 J ^a	2.2 UJ	-	2.1 U	2.0 U	2.0 U	2.1 U	2.0 U	2.0 U	2.1 U	2.1 U	2.0 U	2.0 U
2-Chloronaphthalene	ug/L	75		10 U	17 U	10 U	11 UJ	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
2-Chlorophenol	ug/L	9.1	24	4.4 J	4.8 J	1.0 J	11 U	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
2-Methylnaphthalene	ug/L	3.6	4.7	10 U	17 U	10 U	11 UJ	-	10 U	10 U	0.4 J	10 U	10 U	10 U	11 U	10 U	10 U	10 U
2-Methylphenol	ug/L	93	13	0.2 J	17 U	10 U	11 U	-	10 U	10 U	11 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
2-Nitroaniline	ug/L	19		21 U	33 U	21 U	22 UJ	-	21 U	20 U	20 U	21 U	20 U	20 U	21 U	21 U	20 U	20 U
2-Nitrophenol	ug/L			10 U	17 U	10 U	11 U	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	21 U	33 U	21 U	22 UJ	-	21 U	20 U	20 U	21 U	20 U	20 U	21 U	21 U	20 U	20 U
3-Nitroaniline	ug/L			21 U	33 U	21 U	22 UJ	-	21 U	20 U	20 U	21 U	20 U	20 U	21 U	21 U	20 U	20 U
4,6-Dinitro-2-methylphenol	ug/L	0.15		42 U	67 U	41 U	33 UJ	-	31 U	30 U	31 U	32 U	30 U	30 U	32 U	31 U	31 U	30 U
4-Bromophenyl phenyl ether	ug/L			10 U	17 U	10 U	11 UJ	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	ug/L	140		10 U	17 U	10 U	11 U	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
4-Chloroaniline	ug/L	0.37	232	10 U	17 U	10 U	11 UJ	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
4-Chlorophenyl phenyl ether	ug/L			10 U	17 U	10 U	11 UJ	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
4-Methylphenol	ug/L	37	543	10 U	0.4 J	10 U	11 U	-	10 U	10 U	-	10 U	10 U	10 U	11 U	10 U	10 U	10 U
4-Nitroaniline	ug/L	3.8		21 U	33 U	21 U	22 UJ	-	21 U	20 U	20 U	21 U	20 U	20 U	21 U	21 U	20 U	20 U
4-Nitrophenol	ug/L			42 U	67 U	41 U	33 U	-	31 U	30 U	31 U	32 U	30 U	30 U	32 U	31 U	31 U	30 U
Acenaphthene	ug/L	53	5.8	10 U	17 U	0.4 J	11 UJ	-	0.6 J	0.3 J	0.8 J	0.8 J	10 U	10 U	11 U	10 U	10 U	10 U
Acenaphthylene	ug/L			10 U	17 U	10 U	11 UJ	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
Acetophenone	ug/L	190		10 U	17 U	10 U	11 UJ	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
Anthracene	ug/L	180	0.012	10 U	17 U	10 U	11 UJ	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
Atrazine	ug/L	0.3	1.8	10 UJ	17 UJ	10 UJ	11 UJ	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
Benzaldehyde	ug/L	19		10 UJ	17 UJ	10 UJ	11 UJ	-	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	11 U	10 UJ	10 UJ	10 UJ
Benzo(a)anthracene	ug/L	0.03	0.018	1.0 U	1.7 U	1.0 U	1.1 UJ	-	1.0 U	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
Benzo(a)pyrene	ug/L	0.025	0.015	1.0 U	1.7 U	1.0 U	1.1 UJ	-	1.0 U	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
Benzo(b)fluoranthene	ug/L	0.25		1.0 U	1.7 U	1.0 U	1.1 UJ	-	1.0 U	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
Benzo(g,h,i)perylene	ug/L			10 U	17 U	10 U	11 UJ	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
Benzo(k)fluoranthene	ug/L	2.5		1.0 U	1.7 U	1.0 U	1.1 UJ	-	1.0 U	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
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	10 U	17 U	10 U	11 UJ	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	ug/L	5.9		10 U	17 U	10 U	11 UJ	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	ug/L	0.014		1.0 U	1.7 U	1.0 U	1.1 UJ	-	1.0 U	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
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	10 U	17 U	10 U	11 UJ	-	10 U	10 U	10 U	10 U	10 UJ	10 UJ	11 U	10 U	10 U	10 U
Butyl benzylphthalate (BBP)	ug/L	16	19	10 U	17 U	10 U	11 UJ	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
Caprolactam	ug/L	990		10 U	17 U	10 U	11 UJ	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
Carbazole	ug/L			10 U	17 U	10 U	11 UJ	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
Chrysene	ug/L	25		10 U	17 U	10 U	11 UJ	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	ug/L	0.025		1.0 U	1.7 U	1.0 U	1.1 UJ	-	1.0 U	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
Dibenzofuran	ug/L	0.79	3.7	10 U	17 U	0.3 J	11 UJ	-	0.3 J	10 U	0.3 J	10 U	10 U	10 U	11 U	10 U	10 U	10 U
Diethyl phthalate	ug/L	1500	210	10 U	17 U	10 U	11 UJ	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
Dimethyl phthalate	ug/L			10 U	17 U	10 U	11 UJ	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
Di-n-butylphthalate (DBP)	ug/L	90	19	10 U	17 U	10 U	11 UJ	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
Di-n-octyl phthalate (DnOP)	ug/L	20	22	10 U	17 U	10 U	11 UJ	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
Fluoranthene	ug/L	80	0.04	10 U	17 U	0.4 J ^b	11 UJ	-	0.3 J ^b	10 U	10 U	0.3 J ^b	10 U	10 U	11 U	10 U	10 U	10 U
Fluorene	ug/L	29	3	10 U	17 U	0.5 J	11 UJ	-	0.6 J	10 U	0.4 J	10 U	10 U	10 U	11 U	10 U	10 U	10 U
Hexachlorobenzene	ug/L	0.0098	0.0003	1.0 U	1.7 U	1.0 U	1.1 UJ	-	1.0 U	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
Hexachlorobutadiene	ug/L	0.14	1.3	2.1 U	3.3 U	2.1 U	2.2 UJ	-	2.1 U	2.0 U	2.0 U	2.1 U	2.0 U	2.0 U	2.1 U	2.1 U	2.0 U	2.0 U
Hexachlorocyclopentadiene	ug/L	0.041		10 U	17 U	10 U	11 UJ	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
Hexachloroethane	ug/L	0.33	12	1.0 U	1.7 U	1.0 U	1.1 UJ	-	1.0 U	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
Indeno(1,2,3-cd)pyrene	ug/L	0.25		1.0 U	1.7 U	1.0 U	1.1 UJ	-	1.0 U	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
Isophorone	ug/L	78		10 U	17 U	10 U	11 UJ	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
Naphthalene	ug/L	0.12	1.1	0.8 J ^a	0.8 J ^a	0.4 J ^a	0.5 J ^a	-	5.2 J ^{ab}	10 U	43 ^{ab}	32 ^{ab}	10 U	18 ^{ab}	83 ^{ab}	220 ^{ab}	220 ^{ab}	140 J ^{ab}
Nitrobenzene	ug/L	0.14		1.0 U	1.7 U	1.0 U	1.1 UJ	-	1.0 U	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
N-Nitrosodi-n-propylamine	ug/L	0.011		1.0 U	1.7 U	1.0 U	1.1 UJ	-	1.0 U	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
N-Nitrosodiphenylamine	ug/L	12	210	10 U	17 U	10 U	11 UJ	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
Pentachlorophenol	ug/L	0.041	0.5	42 U	67 U	41 U	33 UJ	-	31 U	30 U	31 U	32 U	30 U	30 U	32 U	31 U	31 U	30 U
Phenanthrene	ug/L	12	0.4	10 U	17 U	10 U	11 UJ	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
Phenol	ug/L	580	4	10 U	17 U	10 U	11 U	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 UJ	10 UJ	10 U
Pyrene	ug/L	12	0.025	10 U	17 U	10 U	11 UJ	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
Metals																		
Aluminum	ug/L	2000	87	7060 ^{ab}	2310 ^{ab}	-	-	257 ^b	293 ^b	387 ^b	946 ^b	477 ^b	1180 ^b	1050 ^b	6530 ^{ab}	2530 J ^{ab}	2410 J ^{ab}	-
Aluminum (dissolved)	ug/L	2000	87	-	-	-	-	160 U	200 U	-	-	-	-	-	-	-	-	-

Historical Groundwater Analytical Results
Long-Term Stewardship Plan Groundwater Sampling Report, Year 3
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location:		HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)	OU-2 MW-8 MW8- 060205EAP001 6/2/2005	OU-2 MW-8 MW8- 060205EAP002 6/2/2005 (Duplicate)	OU-2 MW-8 WG-17338-111405- RR-015 11/14/2005	OU-2 MW-8 GW1733808210600 4 8/21/2006	OU-2 MW-8 GW1733808230601 5 8/23/2006	OU-2 MW-8 GW-17338-121406- MJW-10 12/14/2006	OU-2 MW-8 GW-17338-080408- 02 8/4/2008	OU-2 MW-8 GW-17338-112008- 01 11/20/2008	OU-2 MW-8 GW-017338-022409- 009 2/24/2009	OU-2 MW-8 GW-017338-050809- ACH-003 5/8/2009	OU-2 MW-8 GW-017338-050809- ACH-004 5/8/2009 (Duplicate)	OU-2 MW-8 GW-017338-081809- ACH-05 8/18/2009	OU-2 MW-8 GW-017338-111209- ACH-03 11/12/2009	OU-2 MW-8 GW-017338-111209- ACH-04 11/12/2009 (Duplicate)	OU-2 MW-8 GW-017338-012110- ACH-001 1/21/2010
Antimony	ug/L	0.78	30	12 U	12 U	-	-	12 U	10 U	8.4 U	10 U	10 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	-
Antimony (dissolved)	ug/L	0.78	30	-	-	-	-	12 U	10 U	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	0.052	5	6.4 U	6.4 U	-	-	3.6 U	4.2 U	5.9 U	4.2 U	4.2 U	5.0 U	5.0 U	5.0 U	3.9 J ^a	4.4 J ^a	-
Arsenic (dissolved)	ug/L	0.052	5	-	-	-	-	3.6 U	4.2 U	-	-	-	-	-	-	-	-	-
Barium	ug/L	380	4	276 ^b	285 ^b	-	-	296 ^b	302 ^b	410 ^{ab}	529 ^{ab}	462 ^{ab}	491 ^{ab}	465 ^{ab}	614 ^{ab}	613 ^{ab}	618 ^{ab}	-
Barium (dissolved)	ug/L	380	4	-	-	-	-	305 ^b	305 ^b	-	-	-	-	-	-	-	-	-
Beryllium	ug/L	2.5	0.66	0.21	2 U	-	-	6 U	2 U	0.67 U	2 U	2 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-
Beryllium (dissolved)	ug/L	2.5	0.66	-	-	-	-	6 U	2 U	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	0.18	0.25	5 U	5 U	-	-	3.2 U	4 U	0.59 J ^{ab}	4 U	4 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-
Cadmium (dissolved)	ug/L	0.18	0.25	-	-	-	-	3.2 U	4 U	-	-	-	-	-	-	-	-	-
Calcium	ug/L			41700	43000	-	-	47300	51400	53500	53800	58000	49900	46600	61300	60100	60100	-
Calcium (dissolved)	ug/L			-	-	-	-	48700	51100	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	10	85	-	-	-	-	5.7 U	10 U	-	-	-	-	-	-	-	-	-
Chromium (Trivalent and compounds)	ug/L	10	85	11.1 ^a	3.0	-	-	5.7 U	10 U	18 U	10 U	10 U	10.0 U	10.0 U	5.8 J	10.0 U	10.0 U	-
Chromium VI (hexavalent)	ug/L	0.035	11	-	-	10 U	-	40.0 U	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-	-	-	-	50.0 U	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	0.6	23	24.5 ^{ab}	21.7 ^a	-	-	22.2 J ^a	21.6 J ^a	19.0 J ^a	17.8 J ^a	19.5 J ^a	17.8 J ^a	16.1 J ^a	21.5 J ^a	21.8 J ^a	21.4 J ^a	-
Cobalt (dissolved)	ug/L	0.6	23	-	-	-	-	22.4 J ^a	21.4 J ^a	-	-	-	-	-	-	-	-	-
Copper	ug/L	80	9	9.3 ^b	25 U	-	-	30 U	25 U	3.3 J	25 U	25 U	25.0 U	25.0 U	31.3 ^b	25.0 U	25.0 U	-
Copper (dissolved)	ug/L	80	9	-	-	-	-	30 U	25 U	-	-	-	-	-	-	-	-	-
Iron	ug/L	1400	300	41300 ^{ab}	43700 ^{ab}	-	-	54600 ^{ab}	56700 ^{ab}	67800 ^{ab}	72700 ^{ab}	75500 ^{ab}	67100 ^{ab}	63800 ^{ab}	87500 ^{ab}	85100 ^{ab}	85100 ^{ab}	-
Iron (dissolved)	ug/L	1400	300	-	-	-	-	56600 ^{ab}	56600 ^{ab}	-	-	-	-	-	-	-	-	-
Lead	ug/L	15	2.5	4.0 ^b	3 U	-	-	3.7 U	3 U	13.7 ^b	3 U	3 U	3.4 J ^b	3.4 J ^b	5.0 U	5.0 U	5.0 U	-
Lead (dissolved)	ug/L	15	2.5	-	-	-	-	3.7 U	3 U	-	-	-	-	-	-	-	-	-
Magnesium	ug/L			27600	29100	-	-	31800	32900	35300	37500	37100	32900	31300	42000	40800	40800	-
Magnesium (dissolved)	ug/L			-	-	-	-	33100	33100	-	-	-	-	-	-	-	-	-
Manganese	ug/L	43	120	2120 ^{ab}	2270 ^{ab}	-	-	1980 ^{ab}	1980 ^{ab}	1900 ^{ab}	1870 ^{ab}	1990 ^{ab}	1710 ^{ab}	1620 ^{ab}	2070 ^{ab}	1980 ^{ab}	1980 ^{ab}	-
Manganese (dissolved)	ug/L	43	120	-	-	-	-	2050 ^{ab}	1990 ^{ab}	-	-	-	-	-	-	-	-	-
Mercury	ug/L	0.063	0.026	0.20 U	0.20 U	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.33 ^{ab}	0.20 U	0.20 U	-
Mercury (dissolved)	ug/L	0.063	0.026	-	-	-	-	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-
Nickel	ug/L	39	52	7.3	40 U	-	-	25 U	40 U	65 U	40 U	40 U	40.0 U	40.0 U	5.5 J	40.0 U	40.0 U	-
Nickel (dissolved)	ug/L	39	52	-	-	-	-	25 U	4.6 J	-	-	-	-	-	-	-	-	-
Potassium	ug/L			2780	2610	-	-	2790 J	3150 J	3220 J	3780 J	3370 J	3620 J	3390 J	3760 J	4020 J	4110 J	-
Potassium (dissolved)	ug/L			-	-	-	-	2850 J	3140 J	-	-	-	-	-	-	-	-	-
Selenium	ug/L	10	1	5.1 U	5.1 U	-	-	4.4 U	5 U	5.7 U	5 U	5 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	-
Selenium (dissolved)	ug/L	10	1	-	-	-	-	4.4 U	5 U	-	-	-	-	-	-	-	-	-
Silver	ug/L	9.4	3.2	15 U	15 U	-	-	12 U	10 U	8.6 U	10 U	10 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	-
Silver (dissolved)	ug/L	9.4	3.2	-	-	-	-	12 U	10 U	-	-	-	-	-	-	-	-	-
Sodium	ug/L			48900	51900	-	-	60000	55100	78500	101000	85400	102000	98500	101000	109000	109000	-
Sodium (dissolved)	ug/L			-	-	-	-	61700	56000	-	-	-	-	-	-	-	-	-
Thallium	ug/L	0.02	0.8	11 U	11 U	-	-	9.8 U	9.5 U	9.7 U	9.5 U	9.5 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	-
Thallium (dissolved)	ug/L	0.02	0.8	-	-	-	-	9.8 U	9.5 U	-	-	-	-	-	-	-	-	-
Vanadium	ug/L	8.6	20	18.1 ^a	4.8	-	-	160 U	50 U	16 U	50 U	50 U	50.0 U	50.0 U	8.5 J	3.0 J	3.1 J	-
Vanadium (dissolved)	ug/L	8.6	20	-	-	-	-	160 U	50 U	-	-	-	-	-	-	-	-	-
Zinc	ug/L	600	120	18.6	9.6	-	-	30 U	30 U	30 U	30 U	30 U	30.0 U	30.0 U	8.9 J	30.0 U	30.0 U	-
Zinc (dissolved)	ug/L	600	120	-	-	-	-	30 U	12.5 J	-	-	-	-	-	-	-	-	-

Notes:
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.
R - Rejected.
H - Biased High
B - Not detected substantially above the level reported in the laboratory or field blanks.
ug/L - microgram per liter

Historical Groundwater Analytical Results
Long-Term Stewardship Plan Groundwater Sampling Report, Year 3
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location:		OU-2 MW-8	OU-2 MW-8	OU-2 MW-8	OU-2 MW-8	OU-2 MW-8R	OU-2 MW-8R	OU-2 MW-8R	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9
Sample ID:		GW-017338-030110-ACH-003	GW-017338-051810-ACH-02	WG-17338-110617-SG-044	WG-17338-062618-AM-003	GW-11222397-011123-ZB-07	GW-11222397-111523-ZB-09	GW-11222397-103024-ES-07	MW9-060205EAP003	MW9A060205EAP004	WG-17338-111405-RR-016	GW17338082106003	GW-17338-121206-MJW-05	GW-17338-121206-MJW-06	GW-17338-080408-03	GW-17338-112008-03	GW-17338-112008-04	GW-017338-022309-001
Sample Date:		3/1/2010	5/18/2010	11/6/2017	6/26/2018	1/11/2023	11/15/2023	10/30/2024	6/2/2005	6/2/2005 (Duplicate)	11/14/2005	8/21/2006	12/12/2006	12/12/2006 (Duplicate)	8/4/2008	11/20/2008	11/20/2008 (Duplicate)	2/23/2009
Parameters		Units																
Volatile Organic Compounds																		
1,1,1-Trichloroethane	ug/L	1.0 U	0.25 U	1.0 U	1.0 U	0.24 U	0.24 U	0.24 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	0.090 U	1.0 U	1.0 U	0.37 U	0.37 U	0.37 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	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	0.10 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	0.10 U	1.0 U	1.0 U	0.26 U	0.26 U	0.26 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	0.14 U	1.0 U	1.0 U	0.26 U	0.26 U	0.26 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	1.0 U	0.44 U	1.0 U	1.0 U	0.37 U	0.37 U	0.37 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	-	1.0 U
1,2,4-Trimethylbenzene	ug/L	-	-	1.0 U	1.0 U	0.37 U	0.37 U	0.37 U	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	1.0 U	0.15 U	1.0 U	1.0 U	0.38 UJ	0.38 U	0.38 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	-	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	0.090 U	1.0 U	1.0 U	0.50 U	0.50 U	0.50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	-	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	0.27 J	1.0 U	1.0 U	0.21 U	0.21 U	0.21 U	5.0 U	0.2 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	-	0.2 J
1,2-Dichloroethane	ug/L	1.0 U	0.24 U	1.0 U	1.0 U	0.43 U	0.43 U	0.43 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	0.090 U	1.0 U	1.0 U	0.35 U	0.35 U	0.35 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	1.0 U
1,3,5-Trimethylbenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	1.0 U	0.22 U	1.0 U	1.0 U	0.34 U	0.34 U	0.34 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	-	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	0.28 J	1.0 U	1.0 U	0.33 U	0.33 U	0.33 U	5.0 U	0.5 J ^a	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	-	1.0 U
1,4-Dioxane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2,4-Trimethylpentane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	0.82 U	5.0 U	5.0 U	1.9 U	1.9 U	1.9 U	R	R	R	5.0 U	R	R	5.0 U	5.0 U	5.0 U	10 U
2-Hexanone	ug/L	10 U	0.55 U	5.0 U	5.0 U	1.1 U	1.1 U	1.1 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	R	0.68 U	5.0 U	5.0 U	1.3 U	1.3 U	1.3 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Acetone	ug/L	R	2.5 U	5.0 U	5.0 U	4.4 U	4.4 U	4.4 U	5.0 U	5.0 U	5.0 U	R	R	R	R	5.0 U	5.0 U	10 U
Benzene	ug/L	2.2 ^a	4.5 ^a	1.0 U	1.0 U	0.20 U	0.20 U	0.20 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	1.0 U
Bromodichloromethane	ug/L	1.0 U	0.093 U	1.0 U	1.0 U	0.34 U	0.34 U	0.34 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	1.0 U
Bromoform	ug/L	1.0 U	0.10 U	1.0 U	1.0 U	0.54 U	0.54 U	0.54 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	1.0 U	0.31 U	1.0 U	1.0 U	0.55 U	0.55 U	0.55 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
Carbon disulfide	ug/L	1.0 U	0.15 U	1.0 U	1.0 U	0.82 U	0.82 UJ	0.82 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
Carbon tetrachloride	ug/L	1.0 U	0.19 U	1.0 U	1.0 U	0.21 U	0.21 U	0.21 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Chlorobenzene	ug/L	1.7 ^b	2.9 ^b	1.0 U	1.0 U	0.38 U	0.38 U	0.38 U	1.3 J	0.6 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
Chlorobromomethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	ug/L	1.0 U	0.45 U	1.0 U	1.0 U	0.32 U	0.32 U	0.32 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	0.15 U	1.0 U	1.0 U	0.33 U	0.33 U	0.33 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	0.21 U	1.0 U	1.0 U	0.40 U	0.40 UJ	0.40 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	0.20 U	1.0 U	1.0 U	0.22 U	0.22 U	0.22 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	0.11 U	1.0 U	1.0 U	0.22 U	0.22 U	0.22 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
Cyclohexane	ug/L	2.3	2.8	1.0 U	1.0 U	0.32 U	0.32 U	0.32 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	-	1.0 U
Dibromochloromethane	ug/L	1.0 U	0.11 U	1.0 U	1.0 U	0.28 U	0.28 U	0.28 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	0.29 U	1.0 U	1.0 U	0.31 U	0.31 U	0.31 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	-	1.0 U
Ethylbenzene	ug/L	0.31 J	0.33 J	1.0 U	1.0 U	0.30 U	0.30 U	0.30 U	2.8 J ^a	1.0 J	8.0 ^a	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	1.0 U
Hexane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyl benzene	ug/L	3.3 ^b	6.0 ^b	1.0 U	1.0 U	0.34 U	0.34 U	0.34 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	2.0 U	0.33 U	5.0 U	5.0 U	0.79 U	0.79 U	0.79 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	1.0 U
Methyl cyclohexane	ug/L	10	11	1.0 U	1.0 U	0.71 U	0.71 U	0.71 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	3.1	4.6	0.33 J	1.0 U	0.22 U	0.22 U	0.22 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.4 J	0.4 J	0.2 J	-	1.0 U
Methylene chloride	ug/L	1.0 U	0.19 U	1.0 U	1.0 U	0.32 U	0.32 U	0.32 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	1.0 U
Naphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Heptane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	0.13 U	1.0 U	1.0 U	0.42 U	0.42 U	0.42 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	0.20 U	1.0 U	1.0 U	0.42 J	0.64 J	0.67 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U</		

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Operable Unit: Sample Location:		OU-2 MW-8	OU-2 MW-8	OU-2 MW-8	OU-2 MW-8	OU-2 MW-8R	OU-2 MW-8R	OU-2 MW-8R	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9
Sample ID:		GW-017338-030110-ACH-003	GW-017338-051810-ACH-02	WG-17338-110617-SG-044	WG-17338-062618-AM-003	GW-11222397-011123-ZB-07	GW-11222397-111523-ZB-09	GW-11222397-103024-ES-07	MW9-060205EAP003	MW9A060205EAP004	WG-17338-111405-RR-016	GW17338082106003	GW-17338-121206-MJW-05	GW-17338-121206-MJW-06	GW-17338-080408-03	GW-17338-112008-03	GW-17338-112008-04	GW-017338-022309-001
Sample Date:		3/1/2010	5/18/2010	11/6/2017	6/26/2018	1/11/2023	11/15/2023	10/30/2024	6/2/2005	6/2/2005 (Duplicate)	11/14/2005	8/21/2006	12/12/2006	12/12/2006 (Duplicate)	8/4/2008	11/20/2008	11/20/2008 (Duplicate)	2/23/2009
2,3,4,6-Tetrachlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/L	2.6 U	-	10 U	10 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	ug/L	3.2 U	-	10 U	10 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	ug/L	2.8 U	-	10 U	10 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	ug/L	2.6 U	-	10 U	10 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	ug/L	4.9 U	-	20 U	20 U	-	-	-	41 U	40 U	43 U	32 UJ	32 U	31 U	30 U	30 U	30 U	30 U
2,4-Dinitrotoluene	ug/L	0.44 U	0.43 U	2.0 U	2.0 U	-	-	-	2.0 U	2.0 U	2.2 U	2.1 U	2.2 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2,6-Dinitrotoluene	ug/L	0.60 U	0.60 U	2.0 U	2.0 U	-	-	-	2.0 U	2.0 U	2.2 U	2.1 U	2.2 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Chloronaphthalene	ug/L	3.8 U	3.8 U	10 U	10 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	ug/L	2.7 U	-	10 U	10 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	ug/L	3.2 U	3.1 U	10 UJ	10 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	ug/L	1.7 U	-	10 U	10 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	ug/L	5.8 U	5.8 U	10 U	10 U	-	-	-	20 U	20 U	22 U	21 U	22 U	20 U	20 U	20 U	20 U	20 U
2-Nitrophenol	ug/L	3.5 U	-	10 U	10 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	ug/L	7.1 U	7.0 U	10 U	10 U	-	-	-	20 U	20 U	22 U	21 U	22 U	20 U	20 U	20 U	20 U	20 U
3-Nitroaniline	ug/L	4.4 U	4.4 UJ	10 U	10 U	-	-	-	20 U	20 U	22 U	21 U	22 U	20 U	20 U	20 U	20 U	20 U
4,6-Dinitro-2-methylphenol	ug/L	5.3 U	-	20 U	20 U	-	-	-	41 U	40 U	43 U	32 UJ	32 U	31 U	30 U	30 U	30 U	30 U
4-Bromophenyl phenyl ether	ug/L	4.0 U	4.0 U	10 U	10 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	ug/L	2.0 U	-	10 U	10 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	ug/L	2.1 U	2.1 UJ	10 U	10 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl phenyl ether	ug/L	4.0 U	4.0 U	10 U	10 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	ug/L	1.6 U	-	10 U	10 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	-	-	10 U
4-Nitroaniline	ug/L	4.1 U	4.0 U	10 U	10 U	-	-	-	20 U	20 U	22 U	21 U	22 U	20 U	20 U	20 U	20 U	20 U
4-Nitrophenol	ug/L	2.4 U	-	20 U	20 U	-	-	-	41 U	40 U	43 U	32 U	32 U	31 U	30 U	30 U	30 U	30 U
Acenaphthene	ug/L	3.8 U	3.8 U	10 U	10 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	ug/L	4.1 U	4.1 U	10 U	10 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Acetophenone	ug/L	4.4 U	4.3 U	10 U	10 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Anthracene	ug/L	3.6 U	3.6 U	10 UJ	10 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Atrazine	ug/L	4.9 U	4.8 U	2.0 U	2.0 U	-	-	-	10 UJ	10 UJ	11 UJ	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Benzaldehyde	ug/L	1.4 UJ	1.4 UJ	10 U	10 U	-	-	-	10 UJ	10 UJ	11 UJ	10 UJ	11 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Benzo(a)anthracene	ug/L	0.020 U	0.020 U	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	1.1 U	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzo(a)pyrene	ug/L	0.031 U	0.030 U	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	1.1 U	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzo(b)fluoranthene	ug/L	0.041 U	0.040 U	1.0 U	2.0 U	-	-	-	1.0 U	1.0 U	1.1 U	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzo(g,h,i)perylene	ug/L	2.8 U	2.7 U	10 U	10 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	ug/L	0.31 U	0.30 U	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	1.1 U	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Biphenyl (1,1-Biphenyl)	ug/L	5.5 U	5.5 U	10 U	10 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	ug/L	3.5 U	3.5 U	10 U	10 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	ug/L	0.42 U	0.41 U	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	1.1 U	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	2.4 U	2.4 U	2.0 U	2.0 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Butyl benzylphthalate (BBP)	ug/L	2.8 U	2.8 U	10 U	10 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Caprolactam	ug/L	0.51 U	R	10 U	10 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	0.3 J	10 U
Carbazole	ug/L	3.1 U	3.1 U	10 U	10 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Chrysene	ug/L	3.8 U	3.8 U	2.0 U	2.0 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	ug/L	0.16 U	0.16 U	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	1.1 U	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibenzofuran	ug/L	3.7 U	3.6 U	10 UJ	10 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Diethyl phthalate	ug/L	3.9 U	3.9 U	10 U	10 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Dimethyl phthalate	ug/L	3.3 U	3.3 U	10 U	10 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate (DBP)	ug/L	2.8 U	2.8 U	10 U	10 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Di-n-octyl phthalate (DnOP)	ug/L	1.9 U	1.9 U	10 U	10 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	ug/L	2.7 U	2.7 U	10 U	10 U	-	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Fluorene	ug/L																	

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Operable Unit: Sample Location:		OU-2 MW-8	OU-2 MW-8	OU-2 MW-8	OU-2 MW-8	OU-2 MW-8R	OU-2 MW-8R	OU-2 MW-8R	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9
Sample ID:		GW-017338-030110-ACH-003	GW-017338-051810-ACH-02	WG-17338-110617-SG-044	WG-17338-062618-AM-003	GW-11222397-011123-ZB-07	GW-11222397-111523-ZB-09	GW-11222397-103024-ES-07	MW9-060205EAP003	MW9A060205EAP004	WG-17338-111405-RR-016	GW17338082106003	GW-17338-121206-MJW-05	GW-17338-121206-MJW-06	GW-17338-080408-03	GW-17338-112008-03	GW-17338-112008-04
Sample Date:		3/1/2010	5/18/2010	11/6/2017	6/26/2018	1/11/2023	11/15/2023	10/30/2024	6/2/2005	6/2/2005 (Duplicate)	11/14/2005	8/21/2006	12/12/2006	12/12/2006 (Duplicate)	8/4/2008	11/20/2008	11/20/2008 (Duplicate)
Antimony	ug/L	10.0 U	4.6 U	2.0 U	2.0 U	-	-	-	12 U	12 U	-	10 U	10 U	10 U	8.4 U	6.7 J ^a	10 U
Antimony (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	10 U	10 U	10 U	-	-	-
Arsenic	ug/L	5.0 U	3.8 U	6.1 ^{ab}	7.9 ^{ab}	-	-	-	6.4 U	6.4 U	-	5 U	4.2 U	4.2 U	5.9 U	4.2 U	4.2 U
Arsenic (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	5 U	4.2 U	4.2 U	-	-	-
Barium	ug/L	427 ^{ab}	474 ^{ab}	184 ^b	170 ^b	-	-	-	193 ^b	180 ^b	-	172 J ^b	163 J ^b	158 J ^b	284 ^b	287 ^b	287 ^b
Barium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	170 J ^b	174 J ^b	176 J ^b	-	-	-
Beryllium	ug/L	2.0 U	0.94 U	0.80 U	0.80 U	-	-	-	0.33	0.23	-	2 U	2 U	2 U	0.13 J	2 U	2 U
Beryllium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	2 U	2 U	2 U	-	-	-
Cadmium	ug/L	5.0 U	0.92 U	2.0 U	2.0 U	-	-	-	5 U	5 U	-	4 U	4 U	4 U	5 U	4 U	4 U
Cadmium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	4 U	4 U	4 U	-	-	-
Calcium	ug/L	49400	58900	18400	18700	-	-	-	29800	28000	-	30400	30100	29700	52100	58500	61200
Calcium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	30200	32600	32000	-	-	-
Chromium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	10 U	10 U	10 U	-	-	-
Chromium (Trivalent and compounds)	ug/L	10.0 U	3.2 J	4.0 U	1.3 J	-	-	-	6.1	5.1	-	10 U	10 U	10 U	3.4 J	3.3 J	6.9 J
Chromium VI (hexavalent)	ug/L	-	-	-	-	-	-	-	-	-	10 U	10.0 U	-	-	-	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	10.0 U	-	-	-	-	-
Cobalt	ug/L	18.1 J ^a	20.3 J ^a	5.4 ^a	10.9 ^a	-	-	-	4.2 ^a	3.6 ^a	-	50 U	50 U	50 U	100 U	50 U	50 U
Cobalt (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	50 U	50 U	50 U	-	-	-
Copper	ug/L	25.0 U	3.6 U	4.0 U	4.0 U	-	-	-	5.2	5.3	-	25 U	25 U	25 U	21 U	25 U	25 U
Copper (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	25 U	25 U	25 U	-	-	-
Iron	ug/L	62000 ^{ab}	74500 ^{ab}	27000 ^{ab}	34700 ^{ab}	-	-	-	12200 ^{ab}	8170 ^{ab}	-	1450 ^{ab}	1250 ^b	1280 ^b	3940 ^{ab}	5030 ^{ab}	5570 ^{ab}
Iron (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	150 U	150 U	150 U	-	-	-
Lead	ug/L	5.0 U	7.0 ^b	1.2 U	0.74 J	-	-	-	3 U	3 U	-	3.2 U	3 U	3 U	2.4 U	3 U	3 U
Lead (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	3 U	3 U	3 U	-	-	-
Magnesium	ug/L	30600	36200	14700	18500	-	-	-	12400	11600	-	13100	13400	13100	26000	28200	30100
Magnesium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	13100	14400	14300	-	-	-
Manganese	ug/L	1690 ^{ab}	1990 ^{ab}	524 ^{ab}	598 ^{ab}	-	-	-	276 ^{ab}	236 ^{ab}	-	222 ^{ab}	238 ^{ab}	227 ^{ab}	682 ^{ab}	627 ^{ab}	619 ^{ab}
Manganese (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	211 ^{ab}	258 ^{ab}	285 ^{ab}	-	-	-
Mercury	ug/L	0.20 U	0.18 U	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	-	0.20 U	0.20 U	0.20 U	0.28 ^{ab}	0.29 ^{ab}	0.28 ^{ab}
Mercury (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	0.20 U	-	-	-
Nickel	ug/L	40.0 U	5.0 J	4.0 U	1.6 J	-	-	-	4.8	40 U	-	40 U	3.2 J	3.7 J	65 U	4.6 J	6.2 J
Nickel (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	40 U	2.6 J	40 U	-	-	-
Potassium	ug/L	3230 J	3600 J	2600	2180	-	-	-	4100	3860	-	4450 J	5380	5180	8580	9190	9270
Potassium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	4510 J	5600	5580	-	-	-
Selenium	ug/L	10.0 U	4.8 U	10.0 U	10.0 U	-	-	-	5.1 U	5.1 U	-	5 U	5 U	5 U	5.7 U	5 U	5 U
Selenium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	5 U	5 U	5 U	-	-	-
Silver	ug/L	1.6 J	0.97 U	2.0 U	2.0 U	-	-	-	15 U	15 U	-	10 U	10 U	10 U	8.6 U	10 U	10 U
Silver (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	10 U	10 U	10 U	-	-	-
Sodium	ug/L	86700	93900	46800	49300	-	-	-	46200	43600	-	52100	42100	40900	117000	153000	140000
Sodium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	52500	44600	44900	-	-	-
Thallium	ug/L	10.0 U	4.6 U	0.80 U	0.80 U	-	-	-	11 U	11 U	-	10 U	9.5 U	9.5 U	9.7 U	9.5 U	9.5 U
Thallium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	10 U	9.5 U	9.5 U	-	-	-
Vanadium	ug/L	50.0 U	5.8 J	4.0 U	1.2 J	-	-	-	5.5	3.9	-	50 U	50 U	50 U	1.7 J	50 U	50 U
Vanadium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	50 U	50 U	50 U	-	-	-
Zinc	ug/L	30.0 U	10.5 J	16.0 U	16.0 U	-	-	-	13.6	11.6	-	30 U	30 U	30 U	8.2 J	30 U	16.7 J
Zinc (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	30 U	30 U	30 U	-	-	-

Notes:
U - Not detected at the associated reporting limit
J - Estimated concentration.
UJ - Not detected; associated reporting limit is e
R - Rejected.
H - Biased High
B - Not detected substantially above the level re
ug/L - microgram per liter

Historical Groundwater Analytical Results
Long-Term Stewardship Plan Groundwater Sampling Report, Year 3
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location:		OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9R	OU-2 MW-9R	OU-2 MW-9R	OU-2 MW-19	OU-2 MW-19	OU-2 MW-19	OU-2 MW-19	OU-2 MW-19	OU-2 MW-19
Sample ID:		GW-017338-050809 ACH-001	GW-017338-081709 ACH-01	GW-017338-111209 ACH-02	GW-017338-030110 ACH-001	GW-017338-051810 ACH-03	GW-017338-051810 ACH-04	WG-17338-110417- SG-024	WG-17338-062618- AM-004	GW-11222397- 011123-ZB-10	GW-11222397- 111523-ZB-12	GW-11222397- 103024-CT-02	GW1733809070609	GW-17338-121206- MJW-03	GW-17338-080508- 16	GW-17338-112008- 05	GW-017338-022309 002	GW-017338-050809 ACH-002
Sample Date:		5/8/2009	8/17/2009	11/12/2009	3/1/2010	5/18/2010	5/18/2010 (Duplicate)	11/4/2017	6/26/2018	1/11/2023	11/15/2023	10/30/2024	9/7/2006	12/12/2006	8/5/2008	11/20/2008	2/23/2009	5/8/2009
Parameters		Units																
Volatile Organic Compounds																		
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.25 U	0.25 U	1.0 U	1.0 U	0.24 U	0.24 U	0.24 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.090 U	0.090 U	1.0 U	1.0 U	0.37 U	0.37 U	0.37 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U	0.10 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	3.0 U	3.0 U	3.0 U	3.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U	0.10 U	1.0 U	1.0 U	0.26 U	0.26 U	0.26 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.14 U	0.14 U	1.0 U	1.0 U	0.26 U	0.26 U	0.26 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.44 U	0.44 U	1.0 U	1.0 U	0.37 U	0.37 U	0.37 U	5.0 U	0.7 J ^a	5.0 U	-	1.0 U	1.0 U
1,2,4-Trimethylbenzene	ug/L	-	-	-	-	-	-	1.0 U	1.0 U	0.37 U	0.37 U	0.37 U	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U	0.15 U	0.15 U	1.0 U	1.0 U	0.38 UJ	0.38 U	0.38 U	5.0 U	5.0 U	5.0 U	-	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.090 U	0.090 U	1.0 U	1.0 U	0.50 U	0.50 U	0.50 U	5.0 U	5.0 U	5.0 U	-	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.16 U	0.16 U	1.0 U	1.0 U	0.21 U	0.21 U	0.21 U	5.1 ^b	4.8 J ^b	5.0 U	-	0.2 J	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.24 U	0.24 U	1.0 U	1.0 U	0.43 U	0.43 U	0.43 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.090 U	0.090 U	1.0 U	1.0 U	0.35 U	0.35 U	0.35 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.22 U	0.22 U	1.0 U	1.0 U	0.34 U	0.34 U	0.34 U	0.6 J	1.0 J	5.0 U	-	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.15 U	0.15 U	1.0 U	1.0 U	0.33 U	0.33 U	0.33 U	9.3 ^a	4.1 J ^a	0.4 J	-	1.0 U	1.0 U
1,4-Dioxane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2,4-Trimethylpentane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	R	10 UJ	10 U	0.82 U	0.82 U	5.0 U	5.0 U	1.9 U	1.9 U	1.9 U	R	R	5.0 U	5.0 U	10 U	10 U
2-Hexanone	ug/L	10 U	10 U	10 U	10 U	0.55 U	0.55 U	5.0 U	5.0 U	1.1 U	1.1 U	1.1 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	10 U	R	0.68 U	0.68 U	5.0 U	5.0 U	1.3 U	1.3 U	1.3 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U
Acetone	ug/L	10 UJ	R	R	R	2.5 U	2.5 U	7.1 U	5.0 U	4.4 U	4.4 U	4.4 U	R	R	R	5.0 U	10 U	10 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.13 U	0.13 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.093 U	0.093 U	1.0 U	1.0 U	0.34 U	0.34 U	0.34 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U	0.10 U	1.0 U	1.0 U	0.54 U	0.54 U	0.54 U	4.0 U	4.0 U	4.0 U	4.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	1.0 U	1.0 UJ	1.0 U	1.0 U	0.31 U	0.31 U	1.0 U	1.0 U	0.55 U	0.55 U	0.55 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
Carbon disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.15 U	0.15 U	1.0 U	1.0 U	0.82 U	0.82 UJ	0.82 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.19 U	0.19 U	1.0 U	1.0 U	0.21 U	0.21 U	0.21 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.16 U	0.16 U	1.0 U	1.0 U	0.38 U	0.38 U	0.38 U	9.1 ^{ab}	1.0 J	0.8 J	5.0 U	0.3 J	1.0 U
Chlorobromomethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U	0.45 U	0.45 U	1.0 U	1.0 U	0.32 U	0.32 U	0.32 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.15 U	0.15 U	1.0 U	1.0 U	0.33 U	0.33 U	0.33 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.21 U	0.21 U	1.0 U	1.0 U	0.40 U	0.40 UJ	0.40 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.20 U	0.20 U	1.0 U	1.0 U	0.22 U	0.22 U	0.22 U	5.0 U	5.0 U	5.0 U	5.0 U	0.3 J	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.11 U	0.11 U	1.0 U	1.0 U	0.22 U	0.22 U	0.22 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.13 U	0.13 U	1.0 U	1.0 U	0.32 U	0.32 U	0.32 U	5.0 U	5.0 U	5.0 U	-	1.0 U	1.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.11 U	0.11 U	1.0 U	1.0 U	0.28 U	0.28 U	0.28 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.29 U	0.29 U	1.0 U	1.0 U	0.31 U	0.31 U	0.31 U	5.0 U	5.0 U	5.0 U	-	1.0 U	1.0 U
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.25 U	0.25 U	1.0 U	1.0 U	0.30 U	0.30 U	0.30 U	1.4 J	4.0 U	23 ^a	4.0 U	0.2 J	1.0 U
Hexane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.21 U	0.21 U	1.0 U	1.0 U	0.34 U	0.34 U	0.34 U	1.0 J	5.0 U	5.0 U	-	1.0 U	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	0.33 U	0.33 U	5.0 U	5.0 U	0.79 U	0.79 U	0.79 U	5.0 U	5.0 U	5.0 U	-	1.0 U	2.0 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.090 U	0.090 U	1.0 U	1.0 U	0.71 U	0.71 U	0.71 U	5.0 U	5.0 U	5.0 U	-	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	1.0 U	1.0 U	0.18 J	1.0 U	0.44 J	0.40 J	1.0 U	1.0 U	0.22 U	0.22 U	0.22 U	5.0 U	0.5 J	5.0 U	-	1.0 U	1.0 U
Methylene chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.19 U	0.19 U	1.0 U	1.0 U	0.32 U	0.32 U	0.32 U	3.0 U	3.0 U	3.0 U	3.0 U	1.0 U	1.0 U
Naphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Heptane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.13 U	0.13 U	1.0 U	1.0 U	0								

Historical Groundwater Analytical Results
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Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location:		OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9R	OU-2 MW-9R	OU-2 MW-9R	OU-2 MW-19	OU-2 MW-19	OU-2 MW-19	OU-2 MW-19	OU-2 MW-19	OU-2 MW-19
Sample ID:		GW-017338-050809 ACH-001	GW-017338-081709 ACH-01	GW-017338-111209 ACH-02	GW-017338-030110 ACH-001	GW-017338-051810 ACH-03	GW-017338-051810 ACH-04	WG-17338-110417- SG-024	WG-17338-062618- AM-004	GW-11222397- 011123-ZB-10	GW-11222397- 111523-ZB-12	GW-11222397- 103024-CT-02	GW1733809070609	GW-17338-121206- MJW-03	GW-17338-080508- 16	GW-17338-112008- 05	GW-017338-022309- 002	GW-017338-050809 ACH-002
Sample Date:		5/8/2009	8/17/2009	11/12/2009	3/1/2010	5/18/2010	5/18/2010 (Duplicate)	11/4/2017	6/26/2018	1/11/2023	11/15/2023	10/30/2024	9/7/2006	12/12/2006	8/5/2008	11/20/2008	2/23/2009	5/8/2009
2,3,4,6-Tetrachlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/L	10 U	10 U	5.6 U	2.6 U	-	-	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	ug/L	10 U	10 U	5.6 U	3.2 U	-	-	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	ug/L	10 U	10 U	5.6 U	2.8 U	-	-	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	ug/L	10 U	10 U	5.6 U	2.6 U	-	-	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	ug/L	30 U	31 UJ	17 UJ	4.9 U	-	-	20 U	20 U	-	-	-	31 U	32 U	31 U	30 U	30 U	30 U
2,4-Dinitrotoluene	ug/L	2.0 U	2.0 U	1.1 U	0.44 U	0.45 U	0.45 U	2.0 U	2.0 U	-	-	-	2.1 U	2.1 U	2.0 U	2.0 U	2.0 U	2.0 U
2,6-Dinitrotoluene	ug/L	2.0 U	2.0 U	1.1 U	0.60 U	0.61 U	0.61 U	2.0 U	2.0 U	-	-	-	2.1 U	2.1 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Chloronaphthalene	ug/L	10 U	10 U	5.6 U	3.8 U	3.9 U	3.9 U	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	ug/L	10 U	10 U	5.6 U	2.7 U	-	-	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	ug/L	10 U	10 U	5.6 U	3.2 U	3.2 U	3.2 U	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	ug/L	10 U	10 U	5.6 U	1.7 U	-	-	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	ug/L	20 U	20 U	11 U	5.8 U	5.9 U	5.9 U	10 U	10 U	-	-	-	21 U	21 U	20 U	20 U	20 U	20 U
2-Nitrophenol	ug/L	10 U	10 U	5.6 U	3.5 U	-	-	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	ug/L	20 U	20 U	11 U	7.1 U	7.3 U	7.3 U	10 U	10 U	-	-	-	21 U	21 U	20 U	20 U	20 U	20 U
3-Nitroaniline	ug/L	20 U	20 U	11 U	4.4 U	4.5 U	4.5 U	10 U	10 U	-	-	-	21 U	21 U	20 U	20 U	20 U	20 U
4,6-Dinitro-2-methylphenol	ug/L	30 U	31 U	17 U	5.3 U	-	-	20 U	20 U	-	-	-	31 U	32 U	31 U	30 U	30 U	30 U
4-Bromophenyl phenyl ether	ug/L	10 U	10 U	5.6 U	4.0 U	4.1 U	4.1 U	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	ug/L	10 U	10 U	5.6 U	2.0 U	-	-	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	ug/L	10 U	10 U	5.6 U	2.1 U	2.2 UJ	2.2 UJ	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl phenyl ether	ug/L	10 U	10 U	5.6 U	4.0 U	4.1 U	4.1 U	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	ug/L	10 U	10 U	5.6 U	1.6 U	-	-	10 U	10 U	-	-	-	10 U	10 U	10 U	-	10 U	10 U
4-Nitroaniline	ug/L	20 U	20 U	11 U	4.1 U	4.1 U	4.1 U	10 U	10 U	-	-	-	21 U	21 U	20 U	20 U	20 U	20 U
4-Nitrophenol	ug/L	30 U	31 U	17 U	2.4 U	-	-	20 U	20 U	-	-	-	31 U	32 U	31 U	30 U	30 U	30 U
Acenaphthene	ug/L	10 U	10 U	5.6 U	3.8 U	3.9 U	3.9 U	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	ug/L	10 U	10 U	5.6 U	4.1 U	4.2 U	4.2 U	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
Acetophenone	ug/L	10 U	10 U	5.6 U	4.4 U	4.5 U	4.5 U	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	ug/L	10 U	10 U	5.6 U	3.6 U	3.7 U	3.7 U	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
Atrazine	ug/L	10 U	10 U	5.6 U	4.9 U	5.0 U	5.0 U	2.0 U	2.0 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
Benzaldehyde	ug/L	10 U	10 U	5.6 UJ	1.4 UJ	1.4 UJ	1.4 UJ	10 U	10 U	-	-	-	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
Benzo(a)anthracene	ug/L	1.0 U	1.0 U	0.56 U	0.020 U	0.021 U	0.021 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
Benzo(a)pyrene	ug/L	1.0 U	1.0 U	0.56 U	0.031 U	0.031 U	0.031 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
Benzo(b)fluoranthene	ug/L	1.0 U	1.0 U	0.56 U	0.041 U	0.042 U	0.042 U	1.0 U	2.0 U	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzo(g,h,i)perylene	ug/L	10 U	10 U	5.6 U	2.8 U	2.8 U	2.8 U	10 U	10 UJ	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	ug/L	1.0 U	1.0 U	0.56 U	0.31 U	0.31 U	0.31 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
Biphenyl (1,1-Biphenyl)	ug/L	10 U	10 U	5.6 U	5.5 U	5.6 U	5.6 U	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	ug/L	10 U	10 U	5.6 U	3.5 U	3.6 U	3.6 U	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	ug/L	1.0 U	1.0 U	0.56 U	0.42 U	0.43 U	0.43 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
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	10 UJ	10 U	5.6 U	2.4 U	2.5 U	2.5 U	2.0 U	2.0 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 UJ
Butyl benzylphthalate (BBP)	ug/L	10 U	10 U	5.6 U	2.8 U	2.9 U	2.9 U	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
Caprolactam	ug/L	10 U	10 U	5.6 UJ	0.51 U	R	R	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole	ug/L	10 U	10 U	5.6 U	3.1 U	3.2 U	3.2 U	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	ug/L	10 U	10 U	5.6 U	3.8 U	3.9 U	3.9 U	2.0 U	2.0 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	ug/L	1.0 U	1.0 U	0.56 UJ	0.16 U	0.17 U	0.17 U	1.0 U	1.0 UJ	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibenzofuran	ug/L	10 U	10 U	5.6 U	3.7 U	3.7 U	3.7 U	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
Diethyl phthalate	ug/L	10 U	10 U	5.6 U	3.9 U	4.0 U	4.0 U	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
Dimethyl phthalate	ug/L	10 U	10 U	5.6 U	3.3 U	3.4 U	3.4 U	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate (DBP)	ug/L	10 U	10 U	5.6 U	2.8 U	2.9 U	2.9 U	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octyl phthalate (DnOP)	ug/L	10 U	10 U	5.6 U	1.9 U	2.0 U	2.0 U	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	ug/L	10 U	10 U	5.6 U	2.7 U	2.8 U	2.8 U	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	ug/L	10 U	10 U	5.6 U	3.3 U	3.4 U	3.4 U	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	ug/L	1.0 U	1.0 U	0.56 U	0.010 U	0.010 U	0.010 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
Hexachlorobutadiene	ug/L	2.0 U	2.0 U	1.1 U	0.96 U	0.98 UJ	0.98 UJ	1.0 U	1.0 U	-	-	-	2.1 U	2.1 U	2.0 U	2.0 U	2.0 U	2.0 U
Hexachlorocyclopentadiene	ug/L	10 U	10 U	5.6 U	4.7 U	4.8 U	4.8 U	10 U	10 U	-	-	-	10 UJ	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	ug/L	1.0 U	1.0 U	0.56 U	0.51 U	0.52 U	0.52 U	1.0 U	2.0 U	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Indeno(1,2,3-cd)pyrene	ug/L	1.0 U	1.0 U	0.56 U	0.12 U	0.12 U	0.12 U	1.0 U	2.0 U	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isophorone	ug/L	10 U	10 U	5.6 U	3.7 U	3.7 U	3.7 U	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	ug/L	10 U	10 U	5.6 U	3.7 U	3.8 U	3.8 U	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	ug/L	1.0 U	1.0 U	0.56 U	0.42 U	0.43 U	0.43 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
N-Nitrosodi-n-propylamine	ug/L	1.0 U	1.0 U	0.56 U	0.33 U	0.33 U	0.33 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
N-Nitrosodiphenylamine	ug/L	10 U	10 U	5.6 U	3.9 U	4.0 U	4.0 U	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	ug/L	30 U	31 U	17 U	0.14 U	-	-	20 U	20 U	-	-	-	31 U	32 U	31 U	30 U	30 U	30 U
Phenanthrene	ug/L	10 U	10 U	5.6 U	3.6 U	3.7 U	3.7 U	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
Phenol	ug/L	10 U	10 U	5.6 UJ	0.91 U	-	-	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	ug/L	10 U	10 U	5.6 U	4.4 U	4.4 U	4.4 U	10 U	10 U	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U
Metals																		
Aluminum	ug/L	6220 ^{ab}	1390 ^b	6460 J ^{ab}	6940 ^{ab}	5410 J ^{ab}	7580 J ^{ab}	233 ^b	344 ^b	-	-	-	13500 ^{ab}	16000 ^{ab}	7480 ^{ab}	1620 ^b	7330 ^{ab}	1390 ^b
Aluminum (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	200 U	200 U	-	-	-	-

Historical Groundwater Analytical Results
Long-Term Stewardship Plan Groundwater Sampling Report, Year 3
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location:		OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9	OU-2 MW-9R	OU-2 MW-9R	OU-2 MW-9R	OU-2 MW-19	OU-2 MW-19	OU-2 MW-19	OU-2 MW-19	OU-2 MW-19	OU-2 MW-19
Sample ID:		GW-017338-050809-ACH-001	GW-017338-081709-ACH-01	GW-017338-111209-ACH-02	GW-017338-030110-ACH-001	GW-017338-051810-ACH-03	GW-017338-051810-ACH-04	WG-17338-110417-SG-024	WG-17338-062618-AM-004	GW-11222397-011123-ZB-10	GW-11222397-111523-ZB-12	GW-11222397-103024-CT-02	GW1733809070609	GW-17338-121206-MJW-03	GW-17338-080508-16	GW-17338-112008-05	GW-017338-022309-002	GW-017338-050809-ACH-002
Sample Date:		5/8/2009	8/17/2009	11/12/2009	3/1/2010	5/18/2010	5/18/2010 (Duplicate)	11/4/2017	6/26/2018	1/11/2023	11/15/2023	10/30/2024	9/7/2006	12/12/2006	8/5/2008	11/20/2008	2/23/2009	5/8/2009
Antimony	ug/L	10.0 U	10.0 U	10.0 U	10.0 U	4.6 U	4.6 U	2.0 U	2.0 U	-	-	-	10 U	10 U	8.4 U	10 U	5.8 J ^a	10.0 U
Antimony (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	10 U	10 U	-	-	-	-
Arsenic	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	3.8 U	3.8 U	2.0 U	2.0 U	-	-	-	4.6 J ^a	3.8 J ^a	7.1 ^{ab}	4.8 J ^a	3.5 J ^a	5.0 U
Arsenic (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	5 U	3.2 J ^a	-	-	-	-
Barium	ug/L	278 ^b	220 ^b	283 ^b	297 ^b	222 ^b	250 ^b	87.9 ^b	74.1 ^b	-	-	-	166 J ^b	274 ^b	295 ^b	221 ^b	506 ^{ab}	253 ^b
Barium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	118 J ^b	188 J ^b	-	-	-	-
Beryllium	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	0.94 U	0.94 U	0.80 U	0.80 U	-	-	-	2 U	2 U	0.67 U	2 U	2 U	2.0 U
Beryllium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	2 U	2 U	-	-	-	-
Cadmium	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	0.92 U	0.92 U	2.0 U	2.0 U	-	-	-	4 U	4 U	5 U	4 U	4 U	5.0 U
Cadmium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	4 U	4 U	-	-	-	-
Calcium	ug/L	51400	55100	53900	54700	48400	48300	11800	11900	-	-	-	28200	44300	42900	40900	81800	44700
Calcium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	30200	44600	-	-	-	-
Chromium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	10 U	10 U	-	-	-	-
Chromium (Trivalent and compounds)	ug/L	10.6 ^a	10.0 U	9.8 J	11.3 ^a	8.3 J	11.4 ^a	5.3	4.0	-	-	-	16.4 ^a	25.4 ^a	8.8 J	1.7 J	10.3 ^a	10.0 U
Chromium VI (hexavalent)	ug/L	-	-	-	-	-	-	-	-	-	-	-	20.0 U	-	-	-	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	10.0 U	-	-	-	-	-
Cobalt	ug/L	4.8 J ^a	50.0 U	4.3 J ^a	5.9 J ^a	3.9 J ^a	5.7 J ^a	4.0 U	4.0 U	-	-	-	50 U	50 U	4.7 J ^a	2.3 J ^a	5.3 J ^a	50.0 U
Cobalt (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	50 U	50 U	-	-	-	-
Copper	ug/L	26.6 ^b	25.0 U	22.4 J ^b	19.8 J ^b	17.1 J ^b	18.0 J ^b	4.0 U	4.0 U	-	-	-	9.8 J ^b	17.5 J ^b	6.9 J	25 U	28.7 ^b	25.0 U
Copper (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	25 U	25 U	-	-	-	-
Iron	ug/L	22900 ^{ab}	4220 ^{ab}	23100 ^{ab}	25100 ^{ab}	19000 ^{ab}	26600 ^{ab}	704 ^b	1540 ^{ab}	-	-	-	8570 ^{ab}	12500 ^{ab}	11000 ^{ab}	6850 ^{ab}	12700 ^{ab}	5680 ^{ab}
Iron (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	864 ^b	3020 ^{ab}	-	-	-	-
Lead	ug/L	4.5 J ^b	5.0 U	5.0 U	8.1 U	7.6 ^b	9.5 ^b	1.2 U	0.84 J	-	-	-	8.6 ^b	11.2 ^b	5.4 ^b	3.5 J ^b	2.9 J ^b	3.3 J ^b
Lead (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	3 U	3 U	-	-	-	-
Magnesium	ug/L	25600	27500	26500	27400	22700	22700	7780	9700	-	-	-	7620	12300	12100	11800	22700	12100
Magnesium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	7780	11600	-	-	-	-
Manganese	ug/L	531 ^{ab}	536 ^{ab}	386 ^{ab}	435 ^{ab}	296 ^{ab}	278 ^{ab}	117 ^a	93.8 ^a	-	-	-	260 ^{ab}	461 ^{ab}	545 ^{ab}	496 ^{ab}	776 ^{ab}	420 ^{ab}
Manganese (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	250 ^{ab}	422 ^{ab}	-	-	-	-
Mercury	ug/L	0.40 ^{ab}	0.44 ^{ab}	0.36 ^{ab}	0.40 ^{ab}	0.65 ^{ab}	0.72 ^{ab}	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Mercury (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-	-	-
Nickel	ug/L	6.9 J	40.0 U	5.7 J	7.1 J	5.5 J	7.3 J	5.6 U	1.7 J	-	-	-	9.4 J	12.4 J	4.7 J	40 U	6.7 J	40.0 U
Nickel (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	40 U	40 U	-	-	-	-
Potassium	ug/L	8570	8400	8960	8520	7620	7610	2850	2420	-	-	-	4530 J	6020	6640	4950 J	8040	6310
Potassium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	4400 J	5140	-	-	-	-
Selenium	ug/L	10.0 U	10.0 U	10.0 U	10.0 U	4.8 U	4.8 U	10.0 U	10.0 U	-	-	-	5 U	5 U	5.7 U	5 U	5 U	10.0 U
Selenium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	5 U	5 U	-	-	-	-
Silver	ug/L	1.7 J	10.0 U	1.1 J	1.9 J	1.5 J	1.1 J	2.0 U	2.0 U	-	-	-	10 U	10 U	2.3 J	10 U	4.5 J ^b	1.2 J
Silver (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	10 U	10 U	-	-	-	-
Sodium	ug/L	133000	145000	146000	148000	126000	124000	26300	36000	-	-	-	47100	59100	107000	80600	272000	193000
Sodium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	51200	56800	-	-	-	-
Thallium	ug/L	10.0 U	10.0 U	10.0 U	10.0 U	4.6 U	4.6 U	0.80 U	0.80 U	-	-	-	10 U	9.5 U	9.7 U	9.5 U	9.5 U	10.0 U
Thallium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	10 U	9.5 U	-	-	-	-
Vanadium	ug/L	50.0 U	50.0 U	10.1 J ^a	11.8 J ^a	8.4 J	12.4 J ^a	4.0 U	4.0 U	-	-	-	29.8 J ^{ab}	39.6 J ^{ab}	15.3 J ^a	50 U	13.0 J ^a	50.0 U
Vanadium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	50 U	50 U	-	-	-	-
Zinc	ug/L	19.1 J	8.0 J	19.4 J	23.2 J	15.4 J	25.8 J	16.0 U	16.0 U	-	-	-	30 U	80.4	17.1 J	30 U	24.8 J	6.8 J
Zinc (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	30 U	30 U	-	-	-	-

Notes:
U - Not detected at the associated reporting limi
J - Estimated concentration.
UJ - Not detected; associated reporting limit is e
R - Rejected.
H - Biased High
B - Not detected substantially above the level re
ug/L - microgram per liter

Historical Groundwater Analytical Results
Long-Term Stewardship Plan Groundwater Sampling Report, Year 3
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location:		OU-2 MW-19	OU-2 MW-19	OU-2 MW-19	OU-2 MW-19	OU-2 MW-19	OU-2 MW-19	OU-2 MW-19	OU-2 MW-19R	OU-2 MW-19R	OU-2 MW-19R	OU-2 MW-19R	OU-2 MW-19R	OU-2 MW-19R	OU-4 DA-MW40	OU-4 DA-MW40	OU-4 DA-MW40	OU-4 DA-MW40
Sample ID:		GW-017338-081709-ACH-02	GW-017338-111209-ACH-05	GW-017338-030110-ACH-004	GW-017338-051810-ACH-05	WG-17338-110517-SG-032	WG-17338-062618-AM-001	WG-17338-062618-AM-002	GW-11222397-011123-MA-08	GW-11222397-011123-MA-09	GW-11222397-111523-ZB-10	GW-11222397-111523-ZB-11	GW-11222397-103024-ES-04	GW-11222397-103024-ES-05	DA-MW-40-W001	DA-MW40-W002	DA-MW40-W003	DA-MW40-W004
Sample Date:		8/17/2009	11/12/2009	3/1/2010	5/18/2010	11/5/2017	6/26/2018	6/26/2018 (Duplicate)	1/11/2023	1/11/2023 (Duplicate)	11/15/2023	11/15/2023 (Duplicate)	10/30/2024	10/30/2024 (Duplicate)	10/22/2012	6/28/2013	9/18/2013	10/14/2015
Parameters		Units																
Volatile Organic Compounds																		
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	0.25 U	1.0 U	1.0 U	1.0 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	0.090 U	1.0 U	1.0 U	1.0 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	0.10 U	1.0 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	0.10 U	1.0 U	1.0 U	1.0 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	0.14 U	1.0 U	1.0 U	1.0 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	0.44 U	1.0 U	1.0 U	1.0 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	ug/L	-	-	-	-	1.0 U	1.0 U	1.0 U	7.1 ^a	7.4 ^a	5.7 ^a	5.4	2.6	2.7	480 ^a	1.0 U	1.0 U	430 ^a
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	1.0 U	1.0 U	1.0 U	0.15 U	1.0 U	1.0 U	1.0 U	0.38 UJ	0.38 UJ	0.38 U	0.38 U	0.38 U	0.38 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	1.0 U	0.090 U	1.0 U	1.0 U	1.0 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	0.16 U	1.0 U	1.0 U	1.0 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	0.24 U	1.0 U	1.0 U	1.0 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	0.090 U	1.0 U	1.0 U	1.0 U	0.35 J	0.38 J	0.35 U	0.35 U	0.35 U	0.35 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	0.22 U	1.0 U	1.0 U	1.0 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	0.15 U	1.0 U	1.0 U	1.0 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dioxane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2,4-Trimethylpentane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	R	10 UJ	10 U	0.82 U	5.0 U	5.0 U	5.0 U	15	14	5.0	5.9	3.5 J	1.9 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	ug/L	10 U	10 U	10 U	0.55 U	5.0 U	5.0 U	5.0 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	R	0.68 U	5.0 U	5.0 U	5.0 U	3.7 J	3.8 J	1.3 J	1.5 J	1.3 U	1.3 U	1.9 J	5.0 U	5.0 U	5.0 U
Acetone	ug/L	R	R	R	2.5 U	5.0 U	5.0 U	11 U	70	74	29	28	17	15	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	0.13 U	1.0 U	1.0 U	1.0 U	0.26 J	0.35 J	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	0.093 U	1.0 U	1.0 U	1.0 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	0.10 U	1.0 U	1.0 U	1.0 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	1.0 UJ	1.0 U	1.0 U	0.31 U	1.0 U	1.0 U	1.0 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	ug/L	0.29 J	1.0 U	1.0 U	0.15 U	1.0 U	1.0 U	1.0 U	14 ^b	17 ^b	19 J ^b	19 ^b	7.3 ^b	7.1 ^b	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	0.19 U	1.0 U	1.0 U	1.0 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	0.18 J	1.0 U	0.16 U	1.0 U	1.0 U	1.0 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobromomethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	0.45 U	1.0 U	1.0 U	1.0 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	0.15 U	1.0 U	1.0 U	1.0 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.0 U	2.7 ^{ab}	1.6 ^a	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	0.21 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	0.40 UJ	0.40 U	0.40 U	0.40 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	0.54 J	0.41 J	0.24 J	0.44 J	0.49 J	1.0 U	1.0 U	1.1	1.1	1.4	1.3	1.7	1.9	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	0.11 U	1.0 U	1.0 U	1.0 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	0.13 U	1.0 U	1.0 U	1.0 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	200	1.0 U	1.0 U	300
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	0.11 U	1.0 U	1.0 U	1.0 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 U	1.0 U	0.29 U	1.0 U	1.0 U	1.0 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U	0.25 U	1.0 U	1.0 U	1.0 U	3.3 ^a	3.3 ^a	2.2 ^a	2.3 ^a	1.1	0.95 J	150 ^{ab}	1.0 U	1.0 U	140 ^{ab}
Hexane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	0.21 U	1.0 U	1.0 U	1.0 U	0.34 U	0.34 J	0.34 U	0.34 U	0.34 U	0.34 U	22 ^b	1.0 U	1.0 U	33 ^b
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	2.0 U	2.0 U	2.0 U	0.33 U	5.0 U	5.0 U	5.0 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	2.0 U	2.0 U	5.0 U	5.0 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	0.090 U	1.0 U	1.0 U											

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Wilmington, Delaware

Operable Unit: Sample Location:		OU-2 MW-19	OU-2 MW-19	OU-2 MW-19	OU-2 MW-19	OU-2 MW-19	OU-2 MW-19	OU-2 MW-19	OU-2 MW-19R	OU-2 MW-19R	OU-2 MW-19R	OU-2 MW-19R	OU-2 MW-19R	OU-2 MW-19R	OU-4 DA-MW40	OU-4 DA-MW40	OU-4 DA-MW40	OU-4 DA-MW40
Sample ID:		GW-017338-081709-ACH-02	GW-017338-111209-ACH-05	GW-017338-030110-ACH-004	GW-017338-051810-ACH-05	WG-17338-110517-SG-032	WG-17338-062618-AM-001	WG-17338-062618-AM-002	GW-11222397-011123-MA-08	GW-11222397-011123-MA-09	GW-11222397-111523-ZB-10	GW-11222397-111523-ZB-11	GW-11222397-103024-ES-04	GW-11222397-103024-ES-05	DA-MW-40-W001	DA-MW40-W002	DA-MW40-W003	DA-MW40-W004
Sample Date:		8/17/2009	11/12/2009	3/1/2010	5/18/2010	11/5/2017	6/26/2018	6/26/2018 (Duplicate)	1/11/2023	1/11/2023 (Duplicate)	11/15/2023	11/15/2023 (Duplicate)	10/30/2024	10/30/2024 (Duplicate)	10/22/2012	6/28/2013	9/18/2013	10/14/2015
2,3,4,6-Tetrachlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/L	11 U	5.1 U	2.6 U	-	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	ug/L	11 U	5.1 U	3.2 U	-	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	ug/L	11 U	5.1 U	2.8 U	-	10 U	1.1 J	0.92 J	-	-	-	-	-	-	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	ug/L	11 U	5.1 U	2.6 U	-	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	ug/L	32 UJ	15 UJ	4.9 U	-	20 U	20 U	20 U	-	-	-	-	-	-	31 U	31 U	31 U	20 U
2,4-Dinitrotoluene	ug/L	2.1 U	1.0 U	0.44 U	0.46 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	2.1 U	2.0 U	2.0 U	2.0 U
2,6-Dinitrotoluene	ug/L	2.1 U	1.0 U	0.60 U	0.63 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	2.1 U	2.0 U	2.0 U	2.0 U
2-Chloronaphthalene	ug/L	11 U	5.1 U	3.8 U	4.0 U	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
2-Chlorophenol	ug/L	11 U	5.1 U	2.7 U	-	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
2-Methylnaphthalene	ug/L	11 U	5.1 U	3.2 U	3.3 U	10 U	10 U	10 U	-	-	-	-	-	-	18 ^{ab}	10 U	10 U	10 U
2-Methylphenol	ug/L	11 U	5.1 U	1.7 U	-	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
2-Nitroaniline	ug/L	21 U	10 U	5.8 U	6.1 U	10 U	10 U	10 U	-	-	-	-	-	-	21 U	20 U	20 U	10 U
2-Nitrophenol	ug/L	11 U	5.1 U	3.5 U	-	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	ug/L	21 U	10 U	7.1 U	7.4 U	10 U	10 U	10 U	-	-	-	-	-	-	21 U	20 U	20 U	10 U
3-Nitroaniline	ug/L	21 U	10 U	4.4 U	4.6 U	10 U	10 U	10 U	-	-	-	-	-	-	21 U	20 U	20 U	10 U
4,6-Dinitro-2-methylphenol	ug/L	32 U	15 U	5.3 U	-	20 U	20 U	20 U	-	-	-	-	-	-	31 U	31 U	31 U	20 U
4-Bromophenyl phenyl ether	ug/L	11 U	5.1 U	4.0 U	4.2 U	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	ug/L	11 U	5.1 U	2.0 U	-	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
4-Chloroaniline	ug/L	11 U	5.1 U	2.1 U	2.2 UJ	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
4-Chlorophenyl phenyl ether	ug/L	11 U	5.1 U	4.0 U	4.2 U	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
4-Methylphenol	ug/L	11 U	5.1 U	1.6 U	-	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
4-Nitroaniline	ug/L	21 U	10 U	4.1 U	4.2 U	10 U	10 U	10 U	-	-	-	-	-	-	21 U	20 U	20 U	10 U
4-Nitrophenol	ug/L	32 U	15 U	2.4 U	-	20 U	20 U	20 U	-	-	-	-	-	-	31 U	31 U	31 U	20 U
Acenaphthene	ug/L	11 U	5.1 U	3.8 U	4.0 U	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
Acenaphthylene	ug/L	11 U	5.1 U	4.1 U	4.3 U	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
Acetophenone	ug/L	11 U	5.1 U	4.4 U	4.6 U	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
Anthracene	ug/L	11 U	5.1 U	3.6 U	3.8 U	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
Atrazine	ug/L	11 U	5.1 U	4.9 U	5.1 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	10 U*	10 U	10 U	2.0 U
Benzaldehyde	ug/L	11 U	5.1 UJ	1.4 UJ	1.4 UJ	10 U	10 U	10 U	-	-	-	-	-	-	10 U*	10 U*	10 UJ	10 U
Benzo(a)anthracene	ug/L	1.1 U	0.51 U	0.020 U	0.021 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
Benzo(a)pyrene	ug/L	1.1 U	0.51 U	0.031 U	0.032 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
Benzo(b)fluoranthene	ug/L	1.1 U	0.51 U	0.041 U	0.043 U	1.0 U	2.0 U	2.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
Benzo(g,h,i)perylene	ug/L	11 U	5.1 U	2.8 U	2.9 U	10 U	10 UJ	10 UJ	-	-	-	-	-	-	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	ug/L	1.1 U	0.51 U	0.31 U	0.32 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
Biphenyl (1,1-Biphenyl)	ug/L	11 U	5.1 U	5.5 U	5.8 U	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	ug/L	11 U	5.1 U	3.5 U	3.7 U	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	ug/L	1.1 U	0.51 U	0.42 U	0.44 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	11 U	5.1 U	2.4 U	2.6 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	10 U	10 U	10 U	7.8 B ^a
Butyl benzylphthalate (BBP)	ug/L	11 U	5.1 U	2.8 U	3.0 U	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
Caprolactam	ug/L	11 U	5.1 U	0.51 U	R	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
Carbazole	ug/L	11 U	5.1 U	3.1 U	3.3 U	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
Chrysene	ug/L	11 U	5.1 U	3.8 U	4.0 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	10 U	10 U	10 U	2.0 U
Dibenz(a,h)anthracene	ug/L	1.1 U	0.51 UJ	0.16 U	0.17 U	1.0 U	1.0 UJ	1.0 UJ	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
Dibenzofuran	ug/L	11 U	5.1 U	3.7 U	3.8 U	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
Diethyl phthalate	ug/L	11 U	5.1 U	3.9 U	4.1 U	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	140	10 U
Dimethyl phthalate	ug/L	11 U	5.1 U	3.3 U	3.5 U	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
Di-n-butylphthalate (DBP)	ug/L	11 U	5.1 U	2.8 U	2.9 U	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
Di-n-octyl phthalate (DnOP)	ug/L	11 U	5.1 U	1.9 U	2.0 U	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
Fluoranthene	ug/L	11 U	5.1 U	2.7 U	2.8 U	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
Fluorene	ug/L	11 U	5.1 U	3.3 U	3.5 U	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
Hexachlorobenzene	ug/L	1.1 U	0.51 U	0.010 U	0.011 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobutadiene	ug/L	2.1 U	1.0 U	0.96 U	1.0 UJ	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	2.1 U	2.0 U	2.0 U	1.0 U
Hexachlorocyclopentadiene	ug/L	11 U	5.1 U	4.7 U	4.9 U	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
Hexachloroethane	ug/L	1.1 U	0.51 U	0.51 U	0.53 U	1.0 U	2.0 U	2.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
Indeno(1,2,3-cd)pyrene	ug/L	1.1 U	0.51 U	0.12 U	0.13 U	1.0 U	2.0 U	2.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
Isophorone	ug/L	11 U	5.1 U	3.7 U	3.8 U	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
Naphthalene	ug/L	11 U	5.1 U	3.7 U	3.9 U	10 U	10 U	10 U	-	-	-	-	-	-	82 ^{ab}	10 U	10 U	10 U
Nitrobenzene	ug/L	1.1 U	0.51 U	0.42 U	0.44 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 UJ	1.0 U
N-Nitrosodi-n-propylamine	ug/L	1.1 U	0.51 U	0.33 U	0.34 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
N-Nitrosodiphenylamine	ug/L	11 U	5.1 U	3.9 U	4.1 U	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
Pentachlorophenol	ug/L	32 U	15 U	0.14 U	-	20 U	20 U	20 U	-	-	-	-	-	-	31 U	31 U	31 U	20 U
Phenanthrene	ug/L	11 U	5.1 U	3.6 U	3.8 U	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
Phenol	ug/L	11 U	5.1 UJ	0.91 U	-	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
Pyrene	ug/L	11 U	5.1 U	4.4 U	4.5 U	10 U	10 U	10 U	-	-	-	-	-	-	10 U	10 U	10 U	10 U
Metals																		
Aluminum	ug/L	12500 ^{ab}	2250 J ^{ab}	1010 ^b	4460 J ^{ab}	232 ^b	946 ^b	778 ^b	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location:		OU-2 MW-19	OU-2 MW-19	OU-2 MW-19	OU-2 MW-19	OU-2 MW-19	OU-2 MW-19	OU-2 MW-19	OU-2 MW-19R	OU-2 MW-19R	OU-2 MW-19R	OU-2 MW-19R	OU-2 MW-19R	OU-2 MW-19R	OU-4 DA-MW40	OU-4 DA-MW40	OU-4 DA-MW40	OU-4 DA-MW40
Sample ID:		GW-017338-081709-ACH-02	GW-017338-111209-ACH-05	GW-017338-030110-ACH-004	GW-017338-051810-ACH-05	WG-17338-110517-SG-032	WG-17338-062618-AM-001	WG-17338-062618-AM-002	GW-11222397-011123-MA-08	GW-11222397-011123-MA-09	GW-11222397-111523-ZB-10	GW-11222397-111523-ZB-11	GW-11222397-103024-ES-04	GW-11222397-103024-ES-05	DA-MW-40-W001	DA-MW40-W002	DA-MW40-W003	DA-MW40-W004
Sample Date:		8/17/2009	11/12/2009	3/1/2010	5/18/2010	11/5/2017	6/26/2018	6/26/2018 (Duplicate)	1/11/2023	1/11/2023 (Duplicate)	11/15/2023	11/15/2023 (Duplicate)	10/30/2024	10/30/2024 (Duplicate)	10/22/2012	6/28/2013	9/18/2013	10/14/2015
Antimony	ug/L	10.0 U	10.0 U	10.0 U	4.6 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	5.0 U	5.0 U	5.0 U	5.2 ^{ab}	1.8 J ^a	1.4 J ^a	1.3 J ^a	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	ug/L	176 J ^b	198 J ^b	251 ^b	219 ^b	136 ^b	128 ^b	137 ^b	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	ug/L	2.0 U	2.0 U	2.0 U	0.94 U	0.80 U	0.80 U	0.80 U	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	5.0 U	5.0 U	5.0 U	0.92 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	ug/L	32100	40500	43400	41700	33600	29400	31100	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (Trivalent and compounds)	ug/L	14.5 ^a	10.0 U	10.0 U	5.2 J	4.0 U	1.7 J	1.4 J	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	3.1 J ^a	50.0 U	50.0 U	3.1 J ^a	4.0 U	4.0 U	4.0 U	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	ug/L	31.2 ^b	25.0 U	25.0 U	13.3 J ^b	4.0 U	4.0 U	4.0 U	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	8460 ^{ab}	5240 ^{ab}	6530 ^{ab}	8700 ^{ab}	1250 ^b	2140 ^{ab}	2170 ^{ab}	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	7.7 ^b	5.0 U	5.0 U	6.3 ^b	1.2 U	1.3	1.2	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	ug/L	8880	11500	13700	12400	9070	7740	8080	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	264 ^{ab}	390 ^{ab}	487 ^{ab}	454 ^{ab}	208 ^{ab}	206 ^{ab}	214 ^{ab}	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	0.22 ^{ab}	0.20 U	0.20 U	0.18 U	0.20 U	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	7.8 J	40.0 U	40.0 U	3.5 J	5.6 U	1.4 J	1.6 J	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	ug/L	4830 J	4640 J	4510 J	4470 J	4170	4080	4280	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	10.0 U	10.0 U	10.0 U	4.8 U	10.0 U	10.0 U	10.0 U	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	1.1 J	1.3 J	10.0 U	0.97 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	ug/L	66600	73800	108000	73800	27500	34100	38100	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	10.0 U	10.0 U	10.0 U	4.6 U	0.80 U	0.80 U	0.80 U	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	ug/L	26.5 J ^{ab}	4.9 J	2.4 J	8.4 J	4.0 U	3.0 J	2.9 J	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	ug/L	30.3	30.0 U	6.2 J	10.0 J	16.0 U	16.0 U	16.0 U	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
U - Not detected at the associated reporting limit
J - Estimated concentration.
UJ - Not detected; associated reporting limit is e
R - Rejected.
H - Biased High
B - Not detected substantially above the level re
ug/L - microgram per liter

**Historical Groundwater Analytical Results
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Wilmington, Delaware**

Operable Unit: Sample Location:		OU-4 DA-MW40	OU-4 DA-MW40	OU-4 DA-MW41	OU-4 DA-MW41	OU-4 DA-MW41	OU-4 DA-MW41	OU-4 DA-MW41	OU-4 DA-MW41	OU-4 DA-MW41	OU-4 DA-MW41	OU-4 MW-36D	OU-4 MW-36D	OU-4 MW-36D	OU-4 MW-36D	OU-4 MW-36D	OU-4 MW-36D	OU-4 MW-36S
Sample ID:		GW-11222397-111523-CT-06	GW-11222397-103124-ES-10	DA-MW-41-W001	DA-MW-41-W101	DA-MW-41-W301	DA-MW41-W002	DA-MW41-W003	DA-MW41-W004	GW-11222397-111523-CT-07	GW-11222397-110124-ES-20	WG-17338-102312-MW36D-MM-266	DA-MW36D-W001	DA-MW36D-W002	WG-17338-110417-DT-025	GW-11222397-011023-ZB-02	GW-11222397-111423-ZB-05	WG-17338-102212-MW36S-MM-265
Sample Date:		11/15/2023	10/31/2024	10/22/2012	10/22/2012	10/22/2012	6/28/2013	9/18/2013	10/14/2015	11/15/2023	11/1/2024	10/23/2012	9/18/2013	10/14/2015	11/4/2017	1/10/2023	11/14/2023	10/22/2012
Parameters		Units																
Volatile Organic Compounds																		
1,1,1-Trichloroethane	ug/L	0.24 U	0.24 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.24 U	0.48 U	1.0 U	5.0 U	2.0 U	1.0 U	0.24 U	0.24 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	0.37 U	0.37 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.37 U	0.73 U	1.0 U	5.0 U	2.0 U	1.0 U	0.37 U	0.37 UJ	1.0 U
1,1,2-Trichloroethane	ug/L	0.20 U	0.20 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.20 U	0.41 U	1.0 U	5.0 U	2.0 U	1.0 U	0.20 U	0.20 U	1.0 U
1,1-Dichloroethane	ug/L	0.26 U	0.26 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 U	0.53 U	1.0 U	5.0 U	2.0 U	1.0 U	0.26 U	0.26 U	1.0 U
1,1-Dichloroethene	ug/L	0.26 U	0.26 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 U	0.53 U	1.0 U	5.0 U	2.0 U	1.0 U	0.26 U	0.26 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	0.71 U	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	0.37 U	0.37 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.37 U	0.73 U	1.0 U	5.0 U	2.0 U	1.0 U	0.37 U	0.37 U	1.0 U
1,2,4-Trimethylbenzene	ug/L	300 ^a	370 ^a	43 ^a	40 ^a	1.0 U	1.0 U	1.0 U	50 ^a	83 ^a	280 ^a	13 ^a	5.7 ^a	290 ^a	1.0 U	65 ^a	69 ^a	550 D ^a
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.38 U	0.38 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.38 U	0.75 U	1.0 U	5.0 U	2.0 U	1.0 U	0.38 UJ	0.38 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.50 U	0.50 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U	1.0 U	1.0 U	5.0 U	2.0 U	1.0 U	0.50 U	0.50 U	1.0 U
1,2-Dichlorobenzene	ug/L	0.21 U	0.21 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.21 U	0.42 U	1.0 U	5.0 U	2.0 U	1.0 U	0.21 U	0.21 U	1.0 U
1,2-Dichloroethane	ug/L	0.43 U	0.43 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.43 U	0.86 U	31 ^a	29 ^a	9.5 ^a	15 ^a	0.43 U	0.43 U	3.8 ^a
1,2-Dichloropropane	ug/L	0.35 U	0.35 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.35 U	0.71 U	1.0 U	5.0 U	2.0 U	1.0 U	0.35 U	0.35 U	1.0 U
1,3,5-Trimethylbenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	0.34 U	0.34 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.34 U	0.68 U	1.0 U	5.0 U	2.0 U	1.0 U	0.34 U	0.34 U	1.0 U
1,4-Dichlorobenzene	ug/L	0.33 U	0.33 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.33 U	0.67 U	1.0 U	5.0 U	2.0 U	1.0 U	0.33 U	0.33 U	1.0 U
1,4-Dioxane	ug/L	-	-	-	-	-	-	-	-	-	56 U	-	-	-	-	-	-	-
2,2,4-Trimethylpentane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	13	1.9 U	10 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	21	3.7 U	5.0 U	25 U	12	5.0 U	1.9 U	26	17
2-Hexanone	ug/L	1.1 U	1.1 U	10 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	1.1 U	2.3 U	5.0 U	25 U	5.0 J ^a	5.0 U	1.1 U	1.1 U	6.7 ^a
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	3.7 J	1.3 U	10 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	1.3 U	2.6 U	1.8 J	25 U	5.8 J	5.0 U	1.3 U	1.3 U	16
Acetone	ug/L	4.4 U	4.4 U	10 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	36	16	R	25 U	20	5.0 U	9.7	50	R
Benzene	ug/L	0.20 U	0.20 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.20 U	0.41 U	830 ^{ab}	850 ^{ab}	720 ^{ab}	220 ^a	37 ^a	20 ^a	500 ^{ab}
Bromodichloromethane	ug/L	0.34 U	0.34 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.34 U	0.69 U ⁺⁺	1.0 U	5.0 U	2.0 U	1.0 U	0.34 U	0.34 U	1.0 U
Bromoform	ug/L	0.54 U	0.54 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.54 U	1.1 U ⁺⁺	1.0 U	5.0 U	2.0 U	1.0 U	0.54 U	0.54 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	0.55 U	0.55 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.55 U	1.1 U	1.0 U	5.0 U	2.0 U	1.0 UJ	0.55 U	0.55 U	1.0 U
Carbon disulfide	ug/L	0.82 UJ	0.82 U	2.0 U	2.0 U	1.0 U	0.19 J	1.0 U	1.0 U	0.82 UJ	1.6 U	1.0 U	5.0 U	2.0 U	1.0 U	0.82 U	0.82 UJ	0.28 J
Carbon tetrachloride	ug/L	0.21 U	0.21 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.21 U	0.42 U ⁺⁺	1.0 U	5.0 U	2.0 U	1.0 U	0.21 U	0.21 U	1.0 U
Chlorobenzene	ug/L	0.38 U	0.38 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.38 U	0.75 U	1.0 U	5.0 U	2.0 U	1.0 U	0.38 U	0.38 U	1.0 U
Chlorobromomethane	ug/L	-	-	-	-	-	-	-	-	-	0.82 U	-	-	-	-	-	-	-
Chloroethane	ug/L	0.32 U	0.32 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.32 U	0.64 U	1.0 U	5.0 U	2.0 U	1.0 U	0.32 U	0.32 U	1.0 U
Chloroform (Trichloromethane)	ug/L	0.33 U	0.33 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.33 U	0.65 U	2.0 ^{ab}	1.4 J ^a	2.0 U	1.0 U	0.33 U	0.33 U	10 ^{ab}
Chloromethane (Methyl chloride)	ug/L	0.40 U	0.40 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 UJ	0.80 U	1.0 U	5.0 U	2.0 U	1.0 U	7.9	0.40 U	1.0 U
cis-1,2-Dichloroethene	ug/L	0.22 U	0.22 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.22 U	0.44 U	1.0 U	5.0 U	2.0 U	0.38 J	0.22 U	0.22 U	1.0 U
cis-1,3-Dichloropropene	ug/L	0.22 U	0.22 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.22 U	0.44 U	1.0 U	5.0 U	2.0 U	1.0 U	0.22 U	0.22 U	1.0 U
Cyclohexane	ug/L	190	190	130	140	1.0 U	6.6	1.0 U	93	110	160	86	120	200	22	100	170	280
Dibromochloromethane	ug/L	0.28 U	0.28 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.28 U	0.56 U ⁺⁺	1.0 U	5.0 U	2.0 U	1.0 U	0.28 U	0.28 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	0.31 U	0.31 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.31 U	0.62 U	1.0 U	5.0 U	2.0 U	1.0 U	0.31 U	0.31 U	1.0 U
Ethylbenzene	ug/L	91 ^{ab}	110 ^{ab}	560 ^{ab}	620 ^{ab}	1.0 U	1.9 ^a	0.63 J	110 ^{ab}	81 ^a	170 ^{ab}	9.7 ^a	5.6 ^a	490 ^{ab}	0.46 J	210 ^{ab}	200 ^{ab}	1000 ^{ab}
Hexane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyl benzene	ug/L	28 ^b	27 ^b	34 ^b	38 ^b	1.0 U	0.52 J	0.24 J	16 ^b	12 ^b	26 ^b	16 ^b	20 ^b	15 ^b	10 ^b	17 ^b	21 ^b	29 ^b
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	400	-	-	-	-	-	-	-
Methyl acetate	ug/L	0.79 UJ	0.79 U	4.0 U	4.0 U	2.0 U	2.0 U	5.0 U	5.0 U	0.79 U	1.6 U	2.0 U	25 U	10 U	5.0 U	0.79 U	0.79 UJ	2.0 U
Methyl cyclohexane	ug/L	88	95	75	83	1.0 U	5.3	3.3	64	55	77	31	48 J	65	20	52	88	75
Methyl tert butyl ether (MTBE)	ug/L	0.22 U	0.22 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.22 U	0.43 U	0.21 J	5.0 U	1.2 J	1.0 U	0.22 U	0.22 U	0.56 J
Methylene chloride	ug/L	0.32 U	0.32 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.32 U	0.63 U	1.0 U	5.0 U	2.0 U	1.0 U	0.32 U	0.32 U	1.0 U
Naphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Heptane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	110 ^a	-	-	-	-	-	-	-
Styrene	ug/L	0.42 U	0.42 U	13	14	1.0 U	1.0 U	1.0 U	3.0	0.45 J	0.92 J	0.31 J	5.0 U	5.1	1.0 U	0.42 U	0.42 U	17
Tetrachloroethene	ug/L	0.25 U	0.25 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.25 U	0.50 U	1.0 U	5.0 U	2.0 U	1.0 U	0.25 U	0.25 U	1.0 U
Toluene	ug/L	0.38 U	0.38 U	250 ^{ab}	280 ^{ab}	1.0 U	1.7	0.55 J	44 ^b	14 ^b	25 ^b	20 ^b	6.1 ^b	130 ^{ab}	1.6	130 ^{ab}	28 ^b	1600 ^{ab}
trans-1,2-Dichloroethene	ug/L	0.24 U	0.24 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.24 U	0.47 U	1.0 U	5.0 U	2.0 U	1.0 U	0.24 U	0.24 U	1.0 U
trans-1,3-Dichloropropene	ug/L	0.22 U	0.22 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.22 U	0.45 U	1.0 U	5.0 U	2.0 U	1.0 U	0.22 U	0.22 U	1.0 U
Trichloroethene	ug/L	0.31 U	0.31 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.31 U	0.63 U	0.16 J	5.0 U	2.0 U	1.0 U	0.31 U	0.31 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	0.32 U	0.32 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.32 U	0.64 U	1.0 U	5.0 U	2.0 U	1.0 U	0.32 UJ	0.32 U	1.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	0.31 U	0.31 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.31 U	0.62 U	1.0 U	5.0 U	2.0 U	1.0 U	0.31 U	0.31 U	1.0 U
Vinyl chloride	ug/L	0.17 U	0.17 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.17 U	0.34 U	1.0 U	5.0 U	2.0 U	1.0 U	0.17 U	0.17 U	1.0 U
Xylenes (total)	ug/L	420 ^{ab}	650 ^{ab}	300 ^{ab}	330 ^{ab}	3.0 U	3.0 U	3.0 U	210 ^{ab}	140 ^{ab}	-	65 ^{ab}	23 ^{ab}	1200 ^{ab}	1.4 J	480 ^{ab}	500 ^{ab}	4000 ^{ab}
Semi-Volatile Organic Compounds																		
1,2,4,5-Tetrachlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	1.2 U	-	-	-	-	-	-	-
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	0.63 U	0.63 U	10 U	11 U	-	10 U	10 U	10 U	0.63 U	0.63 U	10 U	10 U	10 U	10 U	0.63 U	0.63 U	10 U

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Operable Unit: Sample Location:		OU-4 DA-MW40	OU-4 DA-MW40	OU-4 DA-MW41	OU-4 DA-MW41	OU-4 DA-MW41	OU-4 DA-MW41	OU-4 DA-MW41	OU-4 DA-MW41	OU-4 DA-MW41	OU-4 DA-MW41	OU-4 MW-36D	OU-4 MW-36D	OU-4 MW-36D	OU-4 MW-36D	OU-4 MW-36D	OU-4 MW-36D	OU-4 MW-36S
Sample ID:		GW-11222397-111523-CT-06	GW-11222397-103124-ES-10	DA-MW-41-W001	DA-MW-41-W101	DA-MW-41-W301	DA-MW41-W002	DA-MW41-W003	DA-MW41-W004	GW-11222397-111523-CT-07	GW-11222397-110124-ES-20	WG-17338-102312-MW36D-MM-266	DA-MW36D-W001	DA-MW36D-W002	WG-17338-110417-DT-025	GW-11222397-011023-ZB-02	GW-11222397-111423-ZB-05	WG-17338-102212-MW36S-MM-265
Sample Date:		11/15/2023	10/31/2024	10/22/2012	10/22/2012	10/22/2012	6/28/2013	9/18/2013	10/14/2015	11/15/2023	11/1/2024	10/23/2012	9/18/2013	10/14/2015	11/4/2017	1/10/2023	11/14/2023	10/22/2012
2,3,4,6-Tetrachlorophenol	ug/L	-	-	-	-	-	-	-	-	-	0.75 U	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/L	0.88 U	0.88 U	10 U	11 U	-	10 U	10 U	10 U	0.88 U	0.88 U	10 U	10 U	10 U	10 U	0.88 U	0.88 U	10 U
2,4,6-Trichlorophenol	ug/L	0.86 U	0.86 U	10 U	11 U	-	10 U	10 U	10 U	0.86 U	0.86 U	10 U	10 U	10 U	10 U	0.86 U	0.86 U	10 U
2,4-Dichlorophenol	ug/L	1.1 U	1.1 U	10 U	11 U	-	10 U	10 U	10 U	1.1 U	1.1 U	10 U	10 U	10 U	10 U	1.1 U	1.1 U	10 U
2,4-Dimethylphenol	ug/L	0.62 U	0.62 U	10 U	11 U	-	10 U	10 U	10 U	0.62 U	0.62 U	10 U	10 U	10 U	10 U	1.7 J	3.1 J	5.0 J
2,4-Dinitrophenol	ug/L	2.6 UJ	2.6 U	31 U	32 U	-	31 U	31 U	20 U	2.6 UJ	2.6 UJ	31 U	31 U	20 U	20 U	2.6 UJ	2.6 UJ	31 U
2,4-Dinitrotoluene	ug/L	1.0 U	1.0 U	2.1 U	2.1 U	-	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	2.1 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	2.1 U
2,6-Dinitrotoluene	ug/L	0.83 U	0.83 U	2.1 U	2.1 U	-	2.0 U	2.0 U	2.0 U	0.83 U	0.83 U	2.1 U	2.0 U	2.0 U	2.0 U	0.83 U	0.83 U	2.1 U
2-Chloronaphthalene	ug/L	1.2 U	1.2 U	10 U	11 U	-	10 U	10 U	10 U	1.2 U	1.2 U	10 U	10 U	10 U	10 U	1.2 U	1.2 U	10 U
2-Chlorophenol	ug/L	0.38 U	0.38 U	10 U	11 U	-	10 U	10 U	10 U	0.38 U	0.38 U	10 U	10 U	10 U	10 U	0.38 U	0.38 U	10 U
2-Methylnaphthalene	ug/L	16 ^{ab}	8.0 J ^{ab}	11 ^{ab}	7.6 J ^{ab}	-	10 U	10 U	4.1 J ^a	5.5 J ^{ab}	6.5 J ^{ab}	10 U	3.6 J	150 ^{ab}	10 U	7.3 J ^{ab}	13 ^{ab}	130 ^{ab}
2-Methylphenol	ug/L	0.67 U	0.67 U	10 U	11 U	-	10 U	10 U	10 U	0.67 U	0.67 U	10 U	10 U	10 U	10 U	0.67 U	0.67 U	3.2 J
2-Nitroaniline	ug/L	0.47 U	0.47 U	21 U	21 U	-	20 U	20 U	10 U	0.47 U	0.47 U	21 U	20 U	10 U	10 U	0.47 U	0.47 U	21 U
2-Nitrophenol	ug/L	0.75 U	0.75 U	10 U	11 U	-	10 U	10 U	10 U	0.75 U	0.75 U	10 U	10 U	10 U	10 U	0.75 U	0.75 U	10 U
3,3'-Dichlorobenzidine	ug/L	1.4 U	1.4 U	21 U	21 U	-	20 U	20 U	10 U	1.4 U	1.4 U	21 U	20 U	10 U	10 U	1.4 U	1.4 U	21 U
3-Nitroaniline	ug/L	1.9 U	1.9 U	21 U	21 U	-	20 U	20 U	10 U	1.9 U	1.9 U	21 U	20 U	10 U	10 U	1.9 U	1.9 U	21 U
4,6-Dinitro-2-methylphenol	ug/L	3.0 U	3.0 U	31 U	32 U	-	31 U	31 U	20 U	3.0 U	3.0 U	31 U	31 U	20 U	20 U	3.0 UJ	3.0 U	31 U
4-Bromophenyl phenyl ether	ug/L	0.75 U	0.75 U	10 U	11 U	-	10 U	10 U	10 U	0.75 U	0.75 U	10 U	10 U	10 U	10 U	0.75 U	0.75 U	10 U
4-Chloro-3-methylphenol	ug/L	0.58 U	0.58 U	10 U	11 U	-	10 U	10 U	10 U	0.58 U	0.58 U	10 U	10 U	10 U	10 U	0.58 U	0.58 U	10 U
4-Chloroaniline	ug/L	-	-	10 U	11 U	-	10 U	10 U	10 U	-	1.9 U	10 U	10 U	10 U	10 U	1.9 U	-	10 U
4-Chlorophenyl phenyl ether	ug/L	1.3 U	1.3 U	10 U	11 U	-	10 U	10 U	10 U	1.3 U	1.3 U	10 U	10 U	10 U	10 U	1.3 U	1.3 U	10 U
4-Methylphenol	ug/L	0.65 U	0.65 U	2.7 J	5.8 J	-	10 U	10 U	10 U	0.65 U	0.65 U	10 U	10 U	10 U	10 U	0.75 J	0.65 U	4.9 J
4-Nitroaniline	ug/L	1.2 U	1.2 U	21 U	21 U	-	20 U	20 U	10 U	1.2 U	1.2 U	21 U	20 U	10 U	10 U	1.2 U	1.2 U	21 U
4-Nitrophenol	ug/L	4.0 U	4.0 U	31 U	32 U	-	31 U	31 U	20 U	4.0 U	4.0 U	31 U	31 U	20 U	20 U	4.0 U	4.0 U	31 U
Acenaphthene	ug/L	1.1 U	1.1 U	10 U	11 U	-	10 U	10 U	10 U	1.1 U	1.1 U	10 U	10 U	2.4 J	10 U	1.1 U	1.1 U	10 U
Acenaphthylene	ug/L	0.82 U	0.82 U	10 U	11 U	-	10 U	10 U	10 U	0.82 U	0.82 U	10 U	10 U	10 U	10 U	0.82 U	0.82 U	10 U
Acetophenone	ug/L	2.3 U	7.7 J	10 U	11 U	-	10 U	10 U	10 U	7.4 J	2.3 U	10 U	10 U	26	10 U	2.3 U	11	10 U
Anthracene	ug/L	1.3 U	1.3 U	10 U	11 U	-	10 U	10 U	10 U	1.3 U	1.3 U	10 U	10 U	10 U	10 U	1.3 U	1.3 U	10 U
Atrazine	ug/L	1.3 U	1.3 U	10 U*	11 U*	-	10 U	10 U	2.0 U	1.3 U	1.3 U	10 U	10 U	2.0 U	2.0 U	1.3 U	1.3 U	10 U
Benzaldehyde	ug/L	2.1 UJ	2.1 U	10 U*	11 U*	-	10 U*	10 UJ	10 U	2.1 UJ	2.1 U	10 UJ	10 UJ	10 U	10 U	2.1 UJ	2.1 UJ	10 UJ
Benzo(a)anthracene	ug/L	0.59 U	0.59 U	1.0 U	1.1 U	-	1.0 U	1.0 U	1.0 U	0.59 U	0.59 U	0.052 U	1.0 U	1.0 U	1.0 U	0.59 U	0.59 U	0.052 U
Benzo(a)pyrene	ug/L	0.41 UJ	0.41 U	1.0 U	1.1 U	-	1.0 U	1.0 U	1.0 U	0.41 UJ	0.41 U	0.052 U	1.0 U	1.0 U	1.0 U	0.41 U	0.41 UJ	0.052 U
Benzo(b)fluoranthene	ug/L	0.68 U	0.68 U	1.0 U	1.1 U	-	1.0 U	1.0 U	1.0 U	0.68 U	0.68 U	0.052 U	1.0 U	1.0 U	1.0 U	0.68 U	0.68 U	0.052 U
Benzo(g,h,i)perylene	ug/L	0.70 U	0.70 U	10 U	11 U	-	10 U	10 U	10 U	0.70 U	0.70 U	10 U	10 U	10 U	10 U	0.70 U	0.70 U	10 U
Benzo(k)fluoranthene	ug/L	0.67 U	0.67 U	1.0 U	1.1 U	-	1.0 U	1.0 U	1.0 U	0.67 U	0.67 U	1.0 U	1.0 U	1.0 U	1.0 U	0.67 U	0.67 U	1.0
Biphenyl (1,1-Biphenyl)	ug/L	1.2 U	1.2 U	10 U	11 U	-	10 U	10 U	10 U	1.2 U	1.2 U	10 U	10 U	10 U	12 ^a	0.74 J ^a	1.2 U	8.6 J ^a
bis(2-Chloroethoxy)methane	ug/L	0.59 U	0.59 U	10 U	11 U	-	10 U	10 U	10 U	0.59 U	0.59 U	10 U	10 U	10 U	10 U	0.59 U	0.59 U	10 U
bis(2-Chloroethyl)ether	ug/L	0.63 U	0.63 U	1.0 U	1.1 U	-	1.0 U	1.0 U	1.0 U	0.63 U	0.63 U	1.0 U	1.0 U	1.0 U	1.0 U	0.63 U	0.63 U	1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	0.80 UJ	0.80 U	10 U	11 U	-	10 U	10 U	4.6 B	0.80 UJ	0.80 U	10 U	10 U	10 U	8.3 B ^a	2.0 U	0.80 U	0.80 UJ
Butyl benzylphthalate (BBP)	ug/L	0.85 U	0.85 U	10 U	11 U	-	10 U	10 U	10 U	0.85 U	0.85 U	10 U	10 U	10 U	10 U	0.85 U	0.85 U	10 U
Caprolactam	ug/L	2.2 U	2.2 U	10 U	11 U	-	10 U	10 U	10 U	2.2 U	2.2 U	10 U	R	10 U	10 U	2.2 U	2.2 U	10 U
Carbazole	ug/L	0.68 U	0.68 U	10 U	11 U													

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Sample ID:		GW-11222397-111523-CT-06	GW-11222397-103124-ES-10	DA-MW-41-W001	DA-MW-41-W101	DA-MW-41-W301	DA-MW41-W002	DA-MW41-W003	DA-MW41-W004	GW-11222397-111523-CT-07	GW-11222397-110124-ES-20	WG-17338-102312-MW36D-MM-266	DA-MW36D-W001	DA-MW36D-W002	WG-17338-110417-DT-025	GW-11222397-011023-ZB-02	GW-11222397-111423-ZB-05	WG-17338-102212-MW36S-MM-265
Sample Date:		11/15/2023	10/31/2024	10/22/2012	10/22/2012	10/22/2012	6/28/2013	9/18/2013	10/14/2015	11/15/2023	11/1/2024	10/23/2012	9/18/2013	10/14/2015	11/4/2017	1/10/2023	11/14/2023	10/22/2012
Antimony	ug/L	-	-	-	-	-	-	-	-	-	-	10.0 U	-	-	2.0 U	-	-	10.0 U
Antimony (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	10.0 U	-	-	-	-	-	10.0 U
Arsenic	ug/L	-	-	-	-	-	-	-	-	-	-	5.0 U	-	-	0.75 J ^a	-	-	4.4 J ^a
Arsenic (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	5.0 U	-	-	-	-	-	5.0 U
Barium	ug/L	-	-	-	-	-	-	-	-	-	-	259 ^b	-	-	601 ^{ab}	-	-	278 ^b
Barium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	256 ^b	-	-	-	-	-	227 ^b
Beryllium	ug/L	-	-	-	-	-	-	-	-	-	-	2.0 U	-	-	0.80 U	-	-	2.0 U
Beryllium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	2.0 U	-	-	-	-	-	2.0 U
Cadmium	ug/L	-	-	-	-	-	-	-	-	-	-	5.0 U	-	-	2.0 U	-	-	5.0 U
Cadmium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	5.0 U	-	-	-	-	-	5.0 U
Calcium	ug/L	-	-	-	-	-	-	-	-	-	-	18700	-	-	24300	-	-	24500
Calcium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	18500	-	-	-	-	-	23500
Chromium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	10.0 U	-	-	-	-	-	10.0 U
Chromium (Trivalent and compounds)	ug/L	-	-	-	-	-	-	-	-	-	-	10.0 U	-	-	4.0 U	-	-	10.0 U
Chromium VI (hexavalent)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	-	-	-	-	-	-	-	-	-	-	22.1 J ^a	-	-	38.0 ^{ab}	-	-	139 ^{ab}
Cobalt (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	21.4 J ^a	-	-	-	-	-	124 ^{ab}
Copper	ug/L	-	-	-	-	-	-	-	-	-	-	25.0 U	-	-	4.0 U	-	-	25.0 U
Copper (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	25.0 U	-	-	-	-	-	25.0 U
Iron	ug/L	-	-	-	-	-	-	-	-	-	-	1590 ^{ab}	-	-	6760 ^{ab}	-	-	66200 ^{ab}
Iron (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	1200 ^b	-	-	-	-	-	2390 ^{ab}
Lead	ug/L	-	-	-	-	-	-	-	-	-	-	5.0 U	-	-	1.2 U	-	-	5.0 U
Lead (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	5.0 U	-	-	-	-	-	5.0 U
Magnesium	ug/L	-	-	-	-	-	-	-	-	-	-	6660	-	-	9590	-	-	16600
Magnesium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	6590	-	-	-	-	-	16000
Manganese	ug/L	-	-	-	-	-	-	-	-	-	-	2120 ^{ab}	-	-	8480 ^{ab}	-	-	29300 ^{ab}
Manganese (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	2080 ^{ab}	-	-	-	-	-	29100 ^{ab}
Mercury	ug/L	-	-	-	-	-	-	-	-	-	-	0.20 U	-	-	0.20 U	-	-	0.20 U
Mercury (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	0.20 U	-	-	-	-	-	0.20 U
Nickel	ug/L	-	-	-	-	-	-	-	-	-	-	6.0 J	-	-	5.6 U	-	-	40.0 U
Nickel (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	6.0 J	-	-	-	-	-	40.0 U
Potassium	ug/L	-	-	-	-	-	-	-	-	-	-	2020 J	-	-	2010	-	-	2460 J
Potassium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	2080 J	-	-	-	-	-	2500 J
Selenium	ug/L	-	-	-	-	-	-	-	-	-	-	10.0 U	-	-	10.0 U	-	-	10.0 U
Selenium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	6.5 J ^b	-	-	-	-	-	30.0 U
Silver	ug/L	-	-	-	-	-	-	-	-	-	-	10.0 U	-	-	2.0 U	-	-	7.0 J ^b
Silver (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	10.0 U	-	-	-	-	-	6.6 J ^b
Sodium	ug/L	-	-	-	-	-	-	-	-	-	-	21700	-	-	22900	-	-	43900
Sodium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	21300	-	-	-	-	-	42400
Thallium	ug/L	-	-	-	-	-	-	-	-	-	-	10.0 U	-	-	0.80 U	-	-	27.4 J ^{ab}
Thallium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	10.0 U	-	-	-	-	-	30.0 U
Vanadium	ug/L	-	-	-	-	-	-	-	-	-	-	50.0 U	-	-	4.0 U	-	-	7.3 J
Vanadium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	50.0 U	-	-	-	-	-	50.0 U
Zinc	ug/L	-	-	-	-	-	-	-	-	-	-	9.4 J	-	-	16.0 U	-	-	30.0 U
Zinc (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	9.4 J	-	-	-	-	-	30.0 U

Notes:
U - Not detected at the associated reporting limi
J - Estimated concentration.
UJ - Not detected; associated reporting limit is e
R - Rejected.
H - Biased High
B - Not detected substantially above the level re
ug/L - microgram per liter

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Operable Unit: Sample Location:		OU-4 MW-36S	OU-4 MW-36S	OU-4 MW-36S	OU-4 MW-36S	OU-4 DA-MW36S	OU-4 MW-36S	OU-4 MW-36S	OU-4 MW-36S	OU-4 MW-36S	OU-4 MW-36S	OU-4 MW-36S	OU-4 MW-50	OU-4 MW-50	OU-4 MW-50	OU-4 MW-50	OU-4 DA-MW50
Sample ID:		DA-MW36S-W001	DA-MW36S-W101	DA-MW36S-W002	WG-17338-110417-DT-023	DA-36S-W004	DA-MW36S-W003	GW-11222397-011023-MA-03	GW-11222397-011023-MA-04	GW-11222397-111423-ES-02	GW-11222397-111423-ES-03	GW-11222397-103124-ES-08	GW-11222397-103124-ES-09	DA-MW50-W001	WG-17338-110717-DT-051	WG-17338-110717-DT-054	DA-MW50-W002
Sample Date:		9/18/2013	9/18/2013 (Duplicate)	10/14/2015	11/4/2017	12/18/2018	8/28/2018	1/10/2023	1/10/2023 (Duplicate)	11/14/2023	11/14/2023 (Duplicate)	10/31/2024	10/31/2024 (Duplicate)	10/14/2015	11/7/2017	11/7/2017 (Duplicate)	8/28/2018
Parameters		Units															
Volatile Organic Compounds																	
1,1,1-Trichloroethane	ug/L	5.0 U	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	0.24 U	-	0.24 U	-	0.24 U	-	5.0 U	5.0 U	10 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	0.37 U	-	0.37 UJ	-	0.37 U	-	5.0 U	5.0 U	10 U	1.0 U
1,1,2-Trichloroethane	ug/L	5.0 U	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	0.20 U	-	0.20 U	-	0.20 U	-	5.0 U	5.0 U	10 U	1.0 U
1,1-Dichloroethane	ug/L	5.0 U	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	0.26 U	-	0.26 U	-	0.26 U	-	5.0 U	5.0 U	10 U	1.0 U
1,1-Dichloroethene	ug/L	5.0 U	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	0.26 U	-	0.26 U	-	0.26 U	-	5.0 U	5.0 U	10 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	5.0 U	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	0.37 U	-	0.37 U	-	0.37 U	-	5.0 U	5.0 U	10 U	1.0 U
1,2,4-Trimethylbenzene	ug/L	300 ^a	280 ^a	2.3	270 ^a	11 ^a	53 ^a	160 ^a	-	89 ^a	-	67 ^a	-	65 ^a	130 ^a	140 ^a	23 ^a
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	5.0 U	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	0.38 UJ	-	0.38 U	-	0.38 U	-	5.0 U	5.0 U	10 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.6 J ^a	1.8 J ^a	2.0 U	2.0 U	1.0 U	1.0 U	0.50 U	-	0.50 U	-	0.50 U	-	5.0 U	5.0 U	10 U	1.0 U
1,2-Dichlorobenzene	ug/L	5.0 U	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	0.21 U	-	0.21 U	-	0.21 U	-	1.2 J ^b	5.0 U	10 U	1.4 ^b
1,2-Dichloroethane	ug/L	10 ^a	11 ^a	15 ^a	30 ^a	0.73 J ^a	1.0 U	0.43 U	-	2.4 ^a	-	0.43 U	-	3.3 J ^a	24 ^a	27 ^a	1.0 U
1,2-Dichloropropane	ug/L	5.0 U	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	0.35 U	-	0.35 U	-	0.35 U	-	5.0 U	5.0 U	10 U	1.0 U
1,3,5-Trimethylbenzene	ug/L	-	-	-	-	4.4	18 ^a	-	-	-	-	-	-	-	-	-	18 ^a
1,3-Dichlorobenzene	ug/L	5.0 U	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	0.34 U	-	0.34 U	-	0.34 U	-	5.0 U	5.0 U	10 U	0.78 J
1,4-Dichlorobenzene	ug/L	5.0 U	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	0.33 U	-	0.33 U	-	0.33 U	-	5.0 U	5.0 U	10 U	1.1 ^a
1,4-Dioxane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2,4-Trimethylpentane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	44	79	10 U	20	5.9	14	7.9	-	22	-	1.9 U	-	25 U	25 U	50 U	5.0 U
2-Hexanone	ug/L	19 J ^a	25 U	10 U	10 U	23 ^a	23 ^a	1.1 U	-	1.1 U	-	1.1 U	-	25 U	25 U	50 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	25 U	25 U	10 U	17	19	30	1.3 U	-	1.3 U	-	1.3 U	-	25 U	25 U	50 U	5.0 U
Acetone	ug/L	25 U	25 U	10 U	58	12 U	28	15	-	47	-	4.4 U	-	25 U	25 U	50 U	5.0 U
Benzene	ug/L	800 ^{ab}	860 ^{ab}	500 ^{ab}	750 ^{ab}	32 ^a	52 ^a	140 ^a	-	96 ^a	-	130 ^a	-	110 ^a	450 ^{ab}	420 ^{ab}	84 ^a
Bromodichloromethane	ug/L	5.0 U	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	0.34 U	-	0.34 U	-	0.34 U	-	5.0 U	5.0 U	10 U	1.0 U
Bromoform	ug/L	5.0 U	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	0.54 U	-	0.54 U	-	0.54 U	-	5.0 U	5.0 U	10 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	5.0 U	5.0 U	2.0 U	2.0 UJ	1.0 UJ	1.0 U	0.55 U	-	0.55 U	-	0.55 U	-	5.0 U	5.0 UJ	10 U	1.0 U
Carbon disulfide	ug/L	5.0 U	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	0.82 U	-	0.82 UJ	-	0.82 U	-	5.0 U	5.0 U	10 U	1.0 U
Carbon tetrachloride	ug/L	5.0 U	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	0.21 U	-	0.21 U	-	0.21 U	-	5.0 U	5.0 U	10 U	1.0 U
Chlorobenzene	ug/L	5.0 U	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	0.38 U	-	0.38 U	-	0.38 U	-	5.0 U	5.0 U	10 U	1.0 U
Chlorobromomethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	ug/L	5.0 U	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	0.32 U	-	0.32 U	-	0.32 U	-	5.0 U	5.0 U	10 U	1.0 U
Chloroform (Trichloromethane)	ug/L	7.2 ^{ab}	7.9 ^{ab}	2.0 U	2.0 U	1.0 U	1.0 U	0.33 U	-	0.33 U	-	0.33 U	-	5.0 U	5.0 U	10 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	5.0 U	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	0.40 U	-	0.40 U	-	0.40 U	-	5.0 U	5.0 U	10 U	1.0 U
cis-1,2-Dichloroethene	ug/L	5.0 U	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	0.22 U	-	0.22 U	-	0.22 U	-	5.0 U	5.0 U	10 U	1.0 U
cis-1,3-Dichloropropene	ug/L	5.0 U	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	0.22 U	-	0.22 U	-	0.22 U	-	5.0 U	5.0 U	10 U	1.0 U
Cyclohexane	ug/L	280	250	39	250	10	33	110	-	120	-	85	-	270	340	330	160
Dibromochloromethane	ug/L	5.0 U	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	0.28 U	-	0.28 U	-	0.28 U	-	5.0 U	5.0 U	10 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	5.0 U	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	0.31 U	-	0.31 U	-	0.31 U	-	5.0 U	5.0 U	10 U	1.0 U
Ethylbenzene	ug/L	480 ^{ab}	460 ^{ab}	3.5 ^a	510 ^{ab}	20 ^a	70 ^a	340 ^{ab}	-	320 ^{ab}	-	190 ^{ab}	-	640 ^{ab}	690 ^{ab}	720 ^{ab}	230 ^{ab}
Hexane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyl benzene	ug/L	15 ^b	14 ^b	14 ^b	16 ^b	0.85 J	2.9 ^b	11 ^b	-	8.3 ^b	-	5.6 ^b	-	37 ^b	51 ^{ab}	47 ^{ab}	30 ^b
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	25 U	25 U	10 U	10 U	5.0 U	5.0 U	0.79 U	-	0.79 UJ	-	0.79 U	-	25 U	25 U	50 U	5.0 U
Methyl cyclohexane	ug/L	73 J	68 J	16	87	5.0	14	36	-	29	-	24	-	100	130	150	61
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	0.28 J	-	0.22 U	-	0.22 U	-	5.0 U	5.0 U	10 U	1.0 U
Methylene chloride	ug/L	5.0 U	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	0.32 U	-	0.32 U	-	0.32 U	-	5.0 U	5.0 U	10 U	1.0 U
Naphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Heptane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	5.0 U	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	0.42 U	-	0.42 U	-	0.42 U	-	13	5.0 U	10 U	1.0 U
Tetrachloroethene	ug/L	5.0 U	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	0.25 U	-	0.25 U	-	0.25 U	-	5.0 U	5.0 U	10 U	1.0 U
Toluene	ug/L	440 ^{ab}	360 ^{ab}	2.7 ^b	78 ^b	4.9 ^b	9.9 ^b	49 ^b	-	26 ^b	-	16 ^b	-	760 ^{ab}	630 ^{ab}	680 ^{ab}	110 ^b
trans-1,2-Dichloroethene	ug/L	5.0 U	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	0.24 U	-	0.24 U	-	0.24 U	-	5.0 U	5.0 U	10 U	1.0 U
trans-1,3-Dichloropropene	ug/L	5.0 U	5.0 U</														

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Operable Unit: Sample Location:		OU-4 MW-36S	OU-4 MW-36S	OU-4 MW-36S	OU-4 MW-36S	OU-4 DA-MW36S	OU-4 MW-36S	OU-4 MW-36S	OU-4 MW-36S	OU-4 MW-36S	OU-4 MW-36S	OU-4 MW-36S	OU-4 MW-36S	OU-4 MW-50	OU-4 MW-50	OU-4 MW-50	OU-4 MW-50	OU-4 DA-MW50
Sample ID:		DA-MW36S-W001	DA-MW36S-W101	DA-MW36S-W002	WG-17338-110417-DT-023	DA-36S-W004	DA-MW36S-W003	GW-11222397-011023-MA-03	GW-11222397-011023-MA-04	GW-11222397-111423-ES-02	GW-11222397-111423-ES-03	GW-11222397-103124-ES-08	GW-11222397-103124-ES-09	DA-MW50-W001	WG-17338-110717-DT-051	WG-17338-110717-DT-054	DA-MW50-W002	DA-W50-W003
Sample Date:		9/18/2013	9/18/2013 (Duplicate)	10/14/2015	11/4/2017	12/18/2018	8/28/2018	1/10/2023	1/10/2023 (Duplicate)	11/14/2023	11/14/2023 (Duplicate)	10/31/2024	10/31/2024 (Duplicate)	10/14/2015	11/7/2017	11/7/2017 (Duplicate)	8/28/2018	12/18/2018
Antimony	ug/L	-	-	-	0.65 J	-	-	-	-	-	-	-	-	-	2.0 U	0.62 J	-	-
Antimony (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	-	-	-	2.4 ^a	-	-	-	-	-	-	-	-	-	3.4 ^a	3.4 ^a	-	-
Arsenic (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	ug/L	-	-	-	324 ^b	-	-	-	-	-	-	-	-	-	249 ^b	253 ^b	-	-
Barium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	ug/L	-	-	-	0.80 U	-	-	-	-	-	-	-	-	-	0.80 U	0.80 U	-	-
Beryllium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	-	-	-	2.0 U	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	-
Cadmium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	ug/L	-	-	-	22900	-	-	-	-	-	-	-	-	-	50900	52000	-	-
Calcium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (Trivalent and compounds)	ug/L	-	-	-	4.0 U	-	-	-	-	-	-	-	-	-	4.0 U	4.0 U	-	-
Chromium VI (hexavalent)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	-	-	-	111 ^{ab}	-	-	-	-	-	-	-	-	-	9.2 ^a	9.2 ^a	-	-
Cobalt (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	ug/L	-	-	-	71.3 U	-	-	-	-	-	-	-	-	-	4.0 U	4.0 U	-	-
Copper (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	-	-	-	89300 ^{ab}	-	-	-	-	-	-	-	-	-	46700 ^{ab}	47500 ^{ab}	-	-
Iron (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	-	-	-	0.86 J	-	-	-	-	-	-	-	-	-	1.1 J	1.2	-	-
Lead (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	ug/L	-	-	-	19700	-	-	-	-	-	-	-	-	-	14800	15200	-	-
Magnesium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	-	-	-	32400 ^{ab}	-	-	-	-	-	-	-	-	-	4340 ^{ab}	4440 ^{ab}	-	-
Manganese (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	-	-	0.20 U	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Mercury (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	-	-	-	5.6 U	-	-	-	-	-	-	-	-	-	4.0 U	4.0 U	-	-
Nickel (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	ug/L	-	-	-	1820	-	-	-	-	-	-	-	-	-	3210	3280	-	-
Potassium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	-	-	-	1.2 J ^b	-	-	-	-	-	-	-	-	-	10.0 U	10.0 U	-	-
Selenium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	-	-	-	2.0 U	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	-
Silver (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	ug/L	-	-	-	62600	-	-	-	-	-	-	-	-	-	59200	60800	-	-
Sodium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	-	-	-	0.80 U	-	-	-	-	-	-	-	-	-	0.80 U	0.80 U	-	-
Thallium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	ug/L	-	-	-	4.0 U	-	-	-	-	-	-	-	-	-	4.0 U	4.0 U	-	-
Vanadium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	ug/L	-	-	-	16.0 U	-	-	-	-	-	-	-	-	-	16.0 U	16.0 U	-	-
Zinc (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
U - Not detected at the associated reporting limi
J - Estimated concentration.
UJ - Not detected; associated reporting limit is e
R - Rejected.
H - Biased High
B - Not detected substantially above the level re
ug/L - microgram per liter

Historical Groundwater Analytical Results
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Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location:		OU-4 MW-50R	OU-4 MW-50R	OU-4 MW-50R	OU-5 MW-48	OU-5 MW-48	OU-5 MW-48	OU-5 MW-48	OU-5 MW-48R	OU-5 MW-48R	OU-5 MW-48R	OU-5 MW-48R	OU-5 MW109	OU-5 MW-109	OU-5 MW-109	OU-5 MW-109	OU-5 MW-109	OU-5 MW-109R	
Sample ID:		GW-11222397-011023-ZB-05	GW-11222397-111423-ZB-04	GW-11222397-103124-CT-12	WG-17338-111214-RR-001	WG-17338-110417-DT-021	GW-11210099-081820-ST-002	GW-11210099-081820-ST-003	GW-11222397-011123-MA-13	GW-11222397-011123-MA-14	GW-11222397-111623-ZB-15	GW-11222397-103124-ES-16	GW-11222397-103124-ES-16	DA-MW109-W002	WG-17338-111214-RR-006	WG-17338-110417-SG-018	WG-17338-110417-SG-020	GW-11210099-081920-ST-007	GW - 11222397-011223-MA-16
Sample Date:		1/10/2023	11/14/2023	10/31/2024	11/12/2014	11/4/2017	8/18/2020	8/18/2020 (Duplicate)	1/11/2023	1/11/2023 (Duplicate)	11/16/2023	10/31/2024	9/17/2013	11/12/2014	11/4/2017	11/4/2017 (Duplicate)	8/19/2020	1/12/2023	
Parameters		Units																	
Volatile Organic Compounds																			
1,1,1-Trichloroethane	ug/L	0.24 U	1.2 U	1.2 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
1,1,2,2-Tetrachloroethane	ug/L	0.37 U	1.8 UJ	1.8 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
1,1,2-Trichloroethane	ug/L	0.20 U	1.0 U	1.0 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
1,1-Dichloroethane	ug/L	0.26 U	1.3 U	1.3 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
1,1-Dichloroethene	ug/L	0.26 U	1.3 U	1.3 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
1,2,3-Trichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,2,4-Trichlorobenzene	ug/L	0.37 U	1.8 U	1.8 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
1,2,4-Trimethylbenzene	ug/L	0.37 U	36 ^a	11 ^a	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.38 UJ	1.9 U	1.9 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.50 U	2.5 U	2.5 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
1,2-Dichlorobenzene	ug/L	0.21 U	1.1 U	1.1 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
1,2-Dichloroethane	ug/L	0.43 U	20 ^a	14 ^a	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
1,2-Dichloropropane	ug/L	0.35 U	1.8 U	1.8 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
1,3,5-Trimethylbenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,3-Dichlorobenzene	ug/L	0.34 U	1.7 U	1.7 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
1,4-Dichlorobenzene	ug/L	0.33 U	1.7 U	1.7 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
1,4-Dioxane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,2,4-Trimethylpentane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	1.9 U	9.3 U	15 J	-	5.0 U	-	-	-	-	-	-	5.0 U	-	5.0 U	5.0 U	-	-	
2-Hexanone	ug/L	1.1 U	5.7 U	5.7 U	-	5.0 U	-	-	-	-	-	-	5.0 U	-	5.0 U	5.0 U	-	-	
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	1.3 U	6.5 U	6.5 U	-	5.0 U	-	-	-	-	-	-	5.0 U	-	5.0 U	5.0 U	-	-	
Acetone	ug/L	4.4 U	22 U	45	-	5.0 U	-	-	-	-	-	-	5.0 U	-	5.0 U	5.0 U	-	-	
Benzene	ug/L	0.20 U	970 ^{ab}	880 ^{ab}	-	1.0 U	-	-	0.20 U	-	0.20 U	0.20 U	1.0 U	-	1.0 U	1.0 U	-	-	
Bromodichloromethane	ug/L	0.34 U	1.7 U	1.7 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
Bromoform	ug/L	0.54 U	2.7 U	2.7 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
Bromomethane (Methyl bromide)	ug/L	0.55 U	2.8 U	2.8 U	-	1.0 UJ	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
Carbon disulfide	ug/L	0.82 U	4.1 UJ	4.1 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
Carbon tetrachloride	ug/L	0.21 U	1.0 U	1.0 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
Chlorobenzene	ug/L	0.38 U	1.9 U	1.9 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
Chlorobromomethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroethane	ug/L	0.32 U	1.6 U	1.6 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
Chloroform (Trichloromethane)	ug/L	0.33 U	1.6 U	1.6 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
Chloromethane (Methyl chloride)	ug/L	0.40 U	2.0 U	2.0 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
cis-1,2-Dichloroethene	ug/L	0.22 U	1.8 J	1.1 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
cis-1,3-Dichloropropene	ug/L	0.22 U	1.1 U	1.1 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
Cyclohexane	ug/L	0.32 U	250	260	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
Dibromochloromethane	ug/L	0.28 U	1.4 U	1.4 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
Dichlorodifluoromethane (CFC-12)	ug/L	0.31 U	1.6 U	1.6 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
Ethylbenzene	ug/L	0.30 U	550 ^{ab}	530 ^{ab}	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
Hexane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Isopropyl benzene	ug/L	0.34 U	37 ^b	37 ^b	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl acetate	ug/L	0.79 U	3.9 UJ	3.9 U	-	5.0 U	-	-	-	-	-	-	5.0 U	-	5.0 U	5.0 U	-	-	
Methyl cyclohexane	ug/L	0.71 U	86	93	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
Methyl tert butyl ether (MTBE)	ug/L	0.22 U	1.1 U	1.1 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
Methylene chloride	ug/L	0.32 U	1.6 U	1.6 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
Naphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N-Heptane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	ug/L	0.42 U	2.1 U	2.1 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
Tetrachloroethene	ug/L	0.25 U	1.2 U	1.2 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
Toluene	ug/L	0.38 U	210 ^{ab}	190 ^{ab}	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
trans-1,2-Dichloroethene	ug/L	0.24 U	1.2 U	1.2 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
trans-1,3-Dichloropropene	ug/L	0.22 U	1.1 U	1.1 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
Trichloroethene	ug/L	0.31 U	1.6 U	1.6 U	-	1.0 U	-	-	3.8 ^a	-	0.60 J ^a	1.5 ^a	1.0 U	-	1.0 U	1.0 U	-	-	
Trichlorofluoromethane (CFC-11)	ug/L	0.32 U	1.6 U	1.6 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
Trifluorotrichloroethane (CFC-113)	ug/L	0.31 U	1.6 U	1.6 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
Vinyl chloride	ug/L	0.17 U	0.86 U	0.86 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-	
Xylenes (total)																			

Historical Groundwater Analytical Results
Long-Term Stewardship Plan Groundwater Sampling Report, Year 3
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location:		OU-4 MW-50R	OU-4 MW-50R	OU-4 MW-50R	OU-5 MW-48	OU-5 MW-48	OU-5 MW-48	OU-5 MW-48	OU-5 MW-48R	OU-5 MW-48R	OU-5 MW-48R	OU-5 MW-48R	OU-5 MW109	OU-5 MW-109	OU-5 MW-109	OU-5 MW-109	OU-5 MW-109	OU-5 MW-109R
Sample ID:		GW-11222397-011023-ZB-05	GW-11222397-111423-ZB-04	GW-11222397-103124-CT-12	WG-17338-111214-RR-001	WG-17338-110417-DT-021	GW-11210099-081820-ST-002	GW-11210099-081820-ST-003	GW-11222397-011123-MA-13	GW-11222397-011123-MA-14	GW-11222397-111623-ZB-15	GW-11222397-103124-ES-16	DA-MW109-W002	WG-17338-111214-RR-006	WG-17338-110417-SG-018	WG-17338-110417-SG-020	GW-11210099-081920-ST-007	GW - 11222397-011223-MA-16
Sample Date:		1/10/2023	11/14/2023	10/31/2024	11/12/2014	11/4/2017	8/18/2020	8/18/2020 (Duplicate)	1/11/2023	1/11/2023 (Duplicate)	11/16/2023	10/31/2024	9/17/2013	11/12/2014	11/4/2017	11/4/2017 (Duplicate)	8/19/2020	1/12/2023
2,3,4,6-Tetrachlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/L	0.88 U	0.88 U	0.88 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
2,4,6-Trichlorophenol	ug/L	0.86 U	0.86 U	0.86 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
2,4-Dichlorophenol	ug/L	1.1 U	1.1 U	1.1 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
2,4-Dimethylphenol	ug/L	0.62 U	3.0 J	0.62 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
2,4-Dinitrophenol	ug/L	2.6 UJ	2.6 UJ	2.6 U	-	20 U	-	-	-	-	-	-	30 U	-	20 U	20 U	-	-
2,4-Dinitrotoluene	ug/L	1.0 U	1.0 U	1.0 U	-	2.0 U	-	-	-	-	-	-	2.0 U	-	2.0 U	2.0 U	-	-
2,6-Dinitrotoluene	ug/L	0.83 U	0.83 U	0.83 U	-	2.0 U	-	-	-	-	-	-	2.0 U	-	2.0 U	2.0 U	-	-
2-Chloronaphthalene	ug/L	1.2 U	1.2 U	1.2 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
2-Chlorophenol	ug/L	0.38 U	0.38 U	0.38 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
2-Methylnaphthalene	ug/L	0.53 U	1.1 J	2.2 J	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
2-Methylphenol	ug/L	0.67 U	0.67 U	0.74 J	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
2-Nitroaniline	ug/L	0.47 U	0.47 U	0.47 U	-	10 U	-	-	-	-	-	-	20 U	-	10 U	10 U	-	-
2-Nitrophenol	ug/L	0.75 U	0.75 U	0.75 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
3,3'-Dichlorobenzidine	ug/L	1.4 U	1.4 U	1.4 U	-	10 U	-	-	-	-	-	-	20 U	-	10 U	10 U	-	-
3-Nitroaniline	ug/L	1.9 U	1.9 U	1.9 U	-	10 U	-	-	-	-	-	-	20 U	-	10 U	10 U	-	-
4,6-Dinitro-2-methylphenol	ug/L	3.0 UJ	3.0 U	3.0 U	-	20 U	-	-	-	-	-	-	30 U	-	20 U	20 U	-	-
4-Bromophenyl phenyl ether	ug/L	0.75 U	0.75 U	0.75 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
4-Chloro-3-methylphenol	ug/L	0.58 U	0.58 U	0.58 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
4-Chloroaniline	ug/L	1.9 U	-	-	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
4-Chlorophenyl phenyl ether	ug/L	1.3 U	1.3 U	1.3 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
4-Methylphenol	ug/L	0.65 U	0.65 J	0.65 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
4-Nitroaniline	ug/L	1.2 U	1.2 U	1.2 U	-	10 U	-	-	-	-	-	-	20 U	-	10 U	10 U	-	-
4-Nitrophenol	ug/L	4.0 U	4.0 U	4.0 U	-	20 U	-	-	-	-	-	-	30 U	-	20 U	20 U	-	-
Acenaphthene	ug/L	1.1 U	1.1 U	1.1 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
Acenaphthylene	ug/L	0.82 U	0.82 U	0.82 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
Acetophenone	ug/L	2.3 U	2.3 U	11	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
Anthracene	ug/L	1.3 U	1.3 U	1.3 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
Atrazine	ug/L	1.3 U	1.3 U	1.3 U	-	2.0 U	-	-	-	-	-	-	10 U	-	2.0 U	2.0 U	-	-
Benzaldehyde	ug/L	2.1 UJ	2.1 UJ	2.1 U	-	10 U	-	-	-	-	-	-	10 UJ	-	10 U	10 U	-	-
Benzo(a)anthracene	ug/L	0.59 U	0.59 U	0.59 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-
Benzo(a)pyrene	ug/L	0.41 U	0.41 UJ	0.41 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-
Benzo(b)fluoranthene	ug/L	0.68 U	0.68 U	0.68 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-
Benzo(g,h,i)perylene	ug/L	0.70 U	0.70 U	0.70 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
Benzo(k)fluoranthene	ug/L	0.67 U	0.67 U	0.67 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-
Biphenyl (1,1-Biphenyl)	ug/L	1.2 U	1.2 U	1.2 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
bis(2-Chloroethoxy)methane	ug/L	0.59 U	0.59 U	0.59 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
bis(2-Chloroethyl)ether	ug/L	0.63 U	0.63 U	0.63 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	0.80 U	0.80 UJ	0.80 U	-	2.0 U	-	-	-	-	-	-	10 U	-	2.0 U	2.0 U	-	-
Butyl benzylphthalate (BBP)	ug/L	0.85 U	0.85 U	0.85 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
Caprolactam	ug/L	2.2 U	2.2 U	2.2 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
Carbazole	ug/L	0.68 U	0.68 U	0.68 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
Chrysene	ug/L	0.91 U	0.91 U	0.91 U	-	2.0 U	-	-	-	-	-	-	10 U	-	2.0 U	2.0 U	-	-
Dibenz(a,h)anthracene	ug/L	0.72 U	0.72 U	0.72 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-
Dibenzofuran	ug/L	1.1 U	1.1 U	1.1 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
Diethyl phthalate	ug/L	0.98 U	0.98 U	0.98 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
Dimethyl phthalate	ug/L	0.77 U	0.77 U	0.77 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
Di-n-butylphthalate (DBP)	ug/L	0.84 U	0.84 U	0.84 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
Di-n-octyl phthalate (DnOP)	ug/L	0.75 U	0.75 U	0.75 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
Fluoranthene	ug/L	0.84 U	0.84 U	0.84 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
Fluorene	ug/L	0.91 U	0.91 U	0.91 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
Hexachlorobenzene	ug/L	0.40 U	0.40 U	0.40 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-
Hexachlorobutadiene	ug/L	0.78 U	0.78 U	0.78 U	-	1.0 U	-	-	-	-	-	-	2.0 U	-	1.0 U	1.0 U	-	-
Hexachlorocyclopentadiene	ug/L	3.6 U	3.6 U	3.6 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
Hexachloroethane	ug/L	0.80 U	0.80 U	0.80 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-
Indeno(1,2,3-cd)pyrene	ug/L	0.94 U	0.94 U	0.94 U	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-
Isophorone	ug/L	0.80 U	0.80 U	0.80 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
Naphthalene	ug/L	0.54 U	30 ^{ab}	48 ^{ab}	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
Nitrobenzene	ug/L	0.57 U	0.57 U	0.57 U	-	1.0 U	-	-	-	-	-	-	1.0 UJ	-	1.0 U	1.0 U	-	-
N-Nitrosodi-n-propylamine	ug/L	0.43 U	0.43 U	1.2 ^a	-	1.0 U	-	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-	-
N-Nitrosodiphenylamine	ug/L	0.89 U	0.89 U	0.89 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
Pentachlorophenol	ug/L	1.4 U	1.4 U	1.4 U	-	20 U	-	-	-	-	-	-	30 U	-	20 U	20 U	-	-
Phenanthrene	ug/L	1.3 U	1.3 U	1.3 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
Phenol	ug/L	0.29 U	4.2 J ^b	2.6 J	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
Pyrene	ug/L	1.6 U	1.6 U	1.6 U	-	10 U	-	-	-	-	-	-	10 U	-	10 U	10 U	-	-
Metals																		
Aluminum	ug/L	-	-	-	-	22.6 J	100 J ^b	163 J ^b	94.4 J ^b	1290 J ^b	2550 ^{ab}	3430 ^{ab}	-	-	33.2 J	47.2	156 J ^b	1200 ^b
Aluminum (dissolved)	ug/L	-	-	-	290 ^b	-	-	-	-	-	-	19.9 J	-	200 U	-	-	-	-

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Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location:		OU-4 MW-50R	OU-4 MW-50R	OU-4 MW-50R	OU-5 MW-48	OU-5 MW-48	OU-5 MW-48	OU-5 MW-48	OU-5 MW-48R	OU-5 MW-48R	OU-5 MW-48R	OU-5 MW-48R	OU-5 MW109	OU-5 MW-109	OU-5 MW-109	OU-5 MW-109	OU-5 MW-109	OU-5 MW-109R
Sample ID:		GW-11222397-011023-ZB-05	GW-11222397-111423-ZB-04	GW-11222397-103124-CT-12	WG-17338-111214-RR-001	WG-17338-110417-DT-021	GW-11210099-081820-ST-002	GW-11210099-081820-ST-003	GW-11222397-011123-MA-13	GW-11222397-011123-MA-14	GW-11222397-111623-ZB-15	GW-11222397-103124-ES-16	DA-MW109-W002	WG-17338-111214-RR-006	WG-17338-110417-SG-018	WG-17338-110417-SG-020	GW-11210099-081920-ST-007	GW - 11222397-011223-MA-16
Sample Date:		1/10/2023	11/14/2023	10/31/2024	11/12/2014	11/4/2017	8/18/2020	8/18/2020 (Duplicate)	1/11/2023	1/11/2023 (Duplicate)	11/16/2023	10/31/2024	9/17/2013	11/12/2014	11/4/2017	11/4/2017 (Duplicate)	8/19/2020	1/12/2023
Antimony	ug/L	-	-	-	-	2.0 U	3.7 U	3.7 U	0.76 U	0.76 U	0.92 J ^a	0.88 J ^a	-	-	2.0 U	2.0 U	3.7 U	1.9 J ^a
Antimony (dissolved)	ug/L	-	-	-	20.0 U	-	-	-	-	-	-	0.76 U	-	20.0 U	-	-	-	-
Arsenic	ug/L	-	-	-	-	2.0 U	3.3 U	3.3 U	0.89 U	0.89 U	0.89 U	0.89 U	-	-	2.0 U	2.0 U	3.3 U	1.6 J ^a
Arsenic (dissolved)	ug/L	-	-	-	15.0 U	-	-	-	-	-	-	0.89 U	-	15.0 U	-	-	-	-
Barium	ug/L	-	-	-	-	193 ^b	160 J ^b	172 J ^b	271 ^b	290 ^b	177 ^b	160 ^b	-	-	72.4 ^b	73.1 ^b	81.9 J ^b	55.0 ^b
Barium (dissolved)	ug/L	-	-	-	258 ^b	-	-	-	-	-	-	152 ^b	-	85.2 J ^b	-	-	-	-
Beryllium	ug/L	-	-	-	-	0.80 U	0.17 U	0.17 U	0.13 U	0.13 U	0.14 J	0.14 J	-	-	0.80 U	0.80 U	0.17 U	0.13 U
Beryllium (dissolved)	ug/L	-	-	-	2.0 U	-	-	-	-	-	-	0.13 U	-	2.0 U	-	-	-	-
Cadmium	ug/L	-	-	-	-	2.0 U	0.33 U	0.33 U	0.39 U	0.39 U	0.39 U	0.39 U	-	-	2.0 U	2.0 U	0.33 U	0.39 U
Cadmium (dissolved)	ug/L	-	-	-	4.0 U	-	-	-	-	-	-	0.39 U	-	4.0 U	-	-	-	-
Calcium	ug/L	-	-	-	-	27800	29400 J	31500 J	35200	38100	30600	27400	-	-	26100	26300	28400 J	90800
Calcium (dissolved)	ug/L	-	-	-	26600	-	-	-	-	-	-	29300	-	26100	-	-	-	-
Chromium (dissolved)	ug/L	-	-	-	10.0 U	-	-	-	-	-	-	2.5 U	-	10.0 U	-	-	-	-
Chromium (Trivalent and compounds)	ug/L	-	-	-	-	4.0 U	5.0 U	5.0 U	2.5 UJ	8.7 J	10.7 ^a	10.7 ^a	-	-	4.0 U	4.0 U	5.0 U	7.3
Chromium VI (hexavalent)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	-	-	-	-	3.6 J ^a	2.8 J ^a	3.8 J ^a	6.0 ^a	7.3 ^a	6.7 ^a	4.7 ^a	-	-	4.0 U	4.0 U	2.0 U	2.8 J ^a
Cobalt (dissolved)	ug/L	-	-	-	8.1 J ^a	-	-	-	-	-	-	2.5 J ^a	-	50.0 U	-	-	-	-
Copper	ug/L	-	-	-	-	4.0 U	6.9 U	6.9 U	2.5 U	3.6 U	2.5 U	5.2	-	-	4.0 U	4.0 U	6.9 U	16.9 ^b
Copper (dissolved)	ug/L	-	-	-	25.0 U	-	-	-	-	-	-	2.5 U	-	25.0 U	-	-	-	-
Iron	ug/L	-	-	-	-	64.7 J	2840 J ^{ab}	3750 J ^{ab}	90.3 J	1950 J ^{ab}	3300 ^{ab}	3450 ^{ab}	-	-	54.9 J	86.8 J	139 J	4170 ^{ab}
Iron (dissolved)	ug/L	-	-	-	3610 ^{ab}	-	-	-	-	-	-	58.2 U	-	150 U	-	-	-	-
Lead	ug/L	-	-	-	-	1.2 U	2.5 J	3.1 J ^b	0.84 UJ	8.7 J ^b	13.7 ^b	11.5 ^b	-	-	1.2 U	1.2 U	2.5 J	11.9 ^b
Lead (dissolved)	ug/L	-	-	-	10.0 U	-	-	-	-	-	-	0.84 U	-	10.0 U	-	-	-	-
Magnesium	ug/L	-	-	-	-	28200	22000	23500	37600	41200	31500	29400	-	-	16600	16500	19700	33800
Magnesium (dissolved)	ug/L	-	-	-	28400	-	-	-	-	-	-	28700	-	17400	-	-	-	-
Manganese	ug/L	-	-	-	-	6050 ^{ab}	833 J ^{ab}	927 J ^{ab}	6780 ^{ab}	7170 ^{ab}	5410 ^{ab}	5140 ^{ab}	-	-	29.2	31.2	50.4 J ^a	125 ^{ab}
Manganese (dissolved)	ug/L	-	-	-	6370 ^{ab}	-	-	-	7910 ^{ab}	7890 ^{ab}	5440 ^{ab}	5200 ^{ab}	-	30.2	-	-	-	67.0 ^a
Mercury	ug/L	-	-	-	-	0.20 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	-	-	0.20 U	0.20 U	0.091 U	0.10 J ^{ab}
Mercury (dissolved)	ug/L	-	-	-	0.20 U	-	-	-	-	-	-	0.091 U	-	0.20 U	-	-	-	-
Nickel	ug/L	-	-	-	-	5.6 U	4.1 U	4.1 U	5.1 U	5.5 U	0.91 U	11.2	-	-	5.6 U	5.6 U	5.2 J	6.0
Nickel (dissolved)	ug/L	-	-	-	40.0 U	-	-	-	-	-	-	9.1	-	40.0 U	-	-	-	-
Potassium	ug/L	-	-	-	-	3360	6970	7370	3370	3520	3730	3560	-	-	2390	2440	2790 J	35100
Potassium (dissolved)	ug/L	-	-	-	3730 J	-	-	-	-	-	-	3380	-	2400 J	-	-	-	-
Selenium	ug/L	-	-	-	-	10.0 U	5.9 U	5.9 U	0.59 U	0.59 U	0.61 J	0.66 J	-	-	10.0 U	10.0 U	5.9 U	0.59 U
Selenium (dissolved)	ug/L	-	-	-	20.0 U	-	-	-	-	-	-	1.4 J ^b	-	20.0 U	-	-	-	-
Silver	ug/L	-	-	-	-	2.0 U	5.8 U	5.8 U	0.29 U	0.29 U	0.29 U	0.29 U	-	-	2.0 U	2.0 U	5.8 U	0.29 U
Silver (dissolved)	ug/L	-	-	-	3.7 J ^b	-	-	-	-	-	-	0.29 U	-	10.0 U	-	-	-	-
Sodium	ug/L	-	-	-	-	64800	27900 J	30600 J	106000	105000	120000	93100	-	-	20900	20500	24400 J	49900
Sodium (dissolved)	ug/L	-	-	-	92300	-	-	-	-	-	-	91700	-	32200	-	-	-	-
Thallium	ug/L	-	-	-	-	0.80 U	4.1 U	4.1 U	0.21 U	0.21 U	0.21 U	0.21 U	-	-	0.80 U	0.80 U	4.1 U	0.21 U
Thallium (dissolved)	ug/L	-	-	-	20.0 U	-	-	-	-	-	-	0.21 U	-	20.0 U	-	-	-	-
Vanadium	ug/L	-	-	-	-	4.0 U	7.2 U	7.2 U	0.76 J	5.6 J	11.3 ^a	10.9 ^a	-	-	4.0 U	4.0 U	7.2 U	6.7
Vanadium (dissolved)	ug/L	-	-	-	50.0 U	-	-	-	-	-	-	0.68 U	-	50.0 U	-	-	-	-
Zinc	ug/L	-	-	-	-	38.5 U	1.2 U	1.2 U	10 J	17.7	24.3	21.1	-	-	16.0 U	38.5 U	7.3 J	20.8
Zinc (dissolved)	ug/L	-	-	-	10.5 J	-	-	-	-	-	-	8.5 J	-	6.9 J	-	-	-	-

Notes:
U - Not detected at the associated reporting limit
J - Estimated concentration.
UJ - Not detected; associated reporting limit is e
R - Rejected.
H - Biased High
B - Not detected substantially above the level re
ug/L - microgram per liter

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Operable Unit: Sample Location:		OU-5 MW-109R	OU-5 MW-109R	OU-5 MW-109R	OU-5 MW-109R	OU-5 MW-112	OU-5 MW-112	OU-5 MW-112	OU-5 MW-112	OU-5 MW-112	OU-5 MW-113	OU-5 MW-113	OU-5 MW-113	OU-5 MW-113R	OU-5 MW-113R	OU-5 MW-113R
Sample ID:		GW-11222397-111623-CT-16	GW-11222397-111623-CT-17	GW-11222397-103124-CT-18	GW-11222397-103124-CT-19	GW-01733818-0713-RM-01	GW-11210099-081820-ST-005	GW-11222397-011123-ZB-12	GW-11222397-111523-ZB-14	GW-11222397-103124-CT-15	GW-01733818-0713-RM-02	GW-01733818-0713-RM-03	GW-11210099-081820-ST-004	GW - 11222397-011223-MA-15	GW-11222397-111623-ZB-18	GW-11222397-110124-ES-21
Sample Date:		11/16/2023	11/16/2023 (Duplicate)	10/31/2024	10/31/2024 (Duplicate)	7/13/2018	8/18/2020	1/11/2023	11/15/2023	10/31/2024	7/13/2018	7/13/2018 (Duplicate)	8/18/2020	1/12/2023	11/16/2023	11/1/2024
Parameters		Units														
Volatile Organic Compounds																
1,1,1-Trichloroethane	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
1,1,2-Trichloroethane	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
1,1-Dichloroethane	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
1,1-Dichloroethene	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
1,2,3-Trichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
1,2,4-Trimethylbenzene	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
1,2-Dichlorobenzene	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
1,2-Dichloroethane	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
1,2-Dichloropropane	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
1,3,5-Trimethylbenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
1,4-Dichlorobenzene	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
1,4-Dioxane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2,4-Trimethylpentane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	-	-	-	-	5.0 U	-	-	-	-	5.0 U	5.0 U	-	-	-	-
2-Hexanone	ug/L	-	-	-	-	5.0 U	-	-	-	-	5.0 U	5.0 U	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	-	-	-	-	5.0 U	-	-	-	-	5.0 U	5.0 U	-	-	-	-
Acetone	ug/L	-	-	-	-	5.0 U	-	-	-	-	5.0 U	5.0 U	-	-	-	-
Benzene	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Bromodichloromethane	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Bromoform	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Bromomethane (Methyl bromide)	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Carbon disulfide	ug/L	-	-	-	-	0.27 J	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Carbon tetrachloride	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Chlorobenzene	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Chlorobromomethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Chloroform (Trichloromethane)	ug/L	-	-	-	-	1.5 ^a	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Chloromethane (Methyl chloride)	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
cis-1,2-Dichloroethene	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
cis-1,3-Dichloropropene	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Cyclohexane	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Dibromochloromethane	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Ethylbenzene	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Hexane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyl benzene	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	-	-	-	-	5.0 U	-	-	-	-	5.0 U	5.0 U	-	-	-	-
Methyl cyclohexane	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Methyl tert butyl ether (MTBE)	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Methylene chloride	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Naphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Heptane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Tetrachloroethene	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Toluene	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
trans-1,2-Dichloroethene	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
trans-1,3-Dichloropropene	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Trichloroethene	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Trichlorofluoromethane (CFC-11)	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Trifluorotrichloroethane (CFC-113)	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Vinyl chloride	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Xylenes (total)	ug/L	-	-	-	-	2.0 U	-	-	-	-	2.0 U	2.0 U	-	-	-	-
Semi-Volatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-

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Wilmington, Delaware

Operable Unit: Sample Location:		OU-5 MW-109R	OU-5 MW-109R	OU-5 MW-109R	OU-5 MW-109R	OU-5 MW-112	OU-5 MW-112	OU-5 MW-112	OU-5 MW-112	OU-5 MW-112	OU-5 MW-113	OU-5 MW-113	OU-5 MW-113	OU-5 MW-113R	OU-5 MW-113R	OU-5 MW-113R
Sample ID:		GW-11222397- 111623-CT-16	GW-11222397- 111623-CT-17	GW-11222397- 103124-CT-18	GW-11222397- 103124-CT-19	GW-01733818-0713 RM-01	GW-11210099- 081820-ST-005	GW-11222397- 011123-ZB-12	GW-11222397- 111523-ZB-14	GW-11222397- 103124-CT-15	GW-01733818-0713 RM-02	GW-01733818-0713 RM-03	GW-11210099- 081820-ST-004	GW - 11222397- 011223-MA-15	GW-11222397- 111623-ZB-18	GW-11222397- 110124-ES-21
Sample Date:		11/16/2023	11/16/2023 (Duplicate)	10/31/2024	10/31/2024 (Duplicate)	7/13/2018	8/18/2020	1/11/2023	11/15/2023	10/31/2024	7/13/2018	7/13/2018 (Duplicate)	8/18/2020	1/12/2023	11/16/2023	11/1/2024
2,3,4,6-Tetrachlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
2,4-Dichlorophenol	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
2,4-Dimethylphenol	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
2,4-Dinitrophenol	ug/L	-	-	-	-	20 U	-	-	-	-	20 U	20 U	-	-	-	-
2,4-Dinitrotoluene	ug/L	-	-	-	-	2.0 U	-	-	-	-	2.0 U	2.0 U	-	-	-	-
2,6-Dinitrotoluene	ug/L	-	-	-	-	2.0 U	-	-	-	-	2.0 U	2.0 U	-	-	-	-
2-Chloronaphthalene	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
2-Chlorophenol	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
2-Methylnaphthalene	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
2-Methylphenol	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
2-Nitroaniline	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
2-Nitrophenol	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
3-Nitroaniline	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	20 U	-	-	-	-	20 U	20 U	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
4-Chloroaniline	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
4-Methylphenol	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
4-Nitroaniline	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
4-Nitrophenol	ug/L	-	-	-	-	20 U	-	-	-	-	20 U	20 U	-	-	-	-
Acenaphthene	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
Acenaphthylene	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
Acetophenone	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
Anthracene	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
Atrazine	ug/L	-	-	-	-	2.0 U	-	-	-	-	2.0 U	2.0 U	-	-	-	-
Benzaldehyde	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
Benzo(a)anthracene	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Benzo(a)pyrene	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Benzo(b)fluoranthene	ug/L	-	-	-	-	2.0 U	-	-	-	-	2.0 U	2.0 U	-	-	-	-
Benzo(g,h,i)perylene	ug/L	-	-	-	-	10 UJ	-	-	-	-	10 UJ	10 UJ	-	-	-	-
Benzo(k)fluoranthene	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	2.0 U	-	-	-	-	2.0 U	2.0 U	-	-	-	-
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
Caprolactam	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
Carbazole	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
Chrysene	ug/L	-	-	-	-	2.0 U	-	-	-	-	2.0 U	2.0 U	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	-	-	-	1.0 UJ	-	-	-	-	1.0 UJ	1.0 UJ	-	-	-	-
Dibenzofuran	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
Diethyl phthalate	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
Dimethyl phthalate	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
Fluorene	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
Hexachlorobenzene	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Hexachlorobutadiene	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Hexachlorocyclopentadiene	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
Hexachloroethane	ug/L	-	-	-	-	2.0 U	-	-	-	-	2.0 U	2.0 U	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	2.0 U	-	-	-	-	2.0 U	2.0 U	-	-	-	-
Isophorone	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
Naphthalene	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
Nitrobenzene	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-	-
N-Nitrosodiphenylamine	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
Pentachlorophenol	ug/L	-	-	-	-	20 U	-	-	-	-	20 U	20 U	-	-	-	-
Phenanthrene	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
Phenol	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
Pyrene	ug/L	-	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-	-
Metals																
Aluminum	ug/L	231 J ^b	2160 J ^{ab}	73.9	63.4	39.5 J	76.9 U	1920 ^b	32100 ^{ab}	247 ^b	22.4 J	40.0 U	107 J ^b	1040 ^b	539 ^b	2910 ^{ab}
Aluminum (dissolved)	ug/L	-	-	19.5 U	19.5 U	-	-	-	-	19.5 U	-	-	-	-	-	19.5 U

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Sample ID:		GW-11222397-111623-CT-16	GW-11222397-111623-CT-17	GW-11222397-103124-CT-18	GW-11222397-103124-CT-19	GW-01733818-0713-RM-01	GW-11210099-081820-ST-005	GW-11222397-011123-ZB-12	GW-11222397-111523-ZB-14	GW-11222397-103124-CT-15	GW-01733818-0713-RM-02	GW-01733818-0713-RM-03	GW-11210099-081820-ST-004	GW - 11222397-011223-MA-15	GW-11222397-111623-ZB-18	GW-11222397-110124-ES-21
Sample Date:		11/16/2023	11/16/2023 (Duplicate)	10/31/2024	10/31/2024 (Duplicate)	7/13/2018	8/18/2020	1/11/2023	11/15/2023	10/31/2024	7/13/2018	7/13/2018 (Duplicate)	8/18/2020	1/12/2023	11/16/2023	11/1/2024
Antimony	ug/L	0.82 J ^a	1.0 J ^a	0.76 U	0.76 U	2.0 U	49.4 ^{ab}	0.76 U	2.4 J ^a	0.76 U	2.0 U	2.0 U	15.2 J ^a	0.76 U	0.76 U	0.76 U
Antimony (dissolved)	ug/L	-	-	0.76 U	0.76 U	-	-	-	-	0.76 U	-	-	-	-	-	0.76 U
Arsenic	ug/L	0.89 U	0.89 U	0.89 U	0.89 U	2.2 ^a	3.3 U	1.0 J ^a	5.3 ^{ab}	0.89 U	0.77 J ^a	0.86 J ^a	3.3 U	0.89 U	0.89 U	0.89 U
Arsenic (dissolved)	ug/L	-	-	0.89 U	0.89 U	-	-	-	-	0.89 U	-	-	-	-	-	0.89 U
Barium	ug/L	157 ^b	177 ^b	150 ^b	145 ^b	156 ^b	247 ^b	327 ^b	337 J ^b	230 ^b	226 ^b	224 ^b	162 J ^b	264 ^b	221 ^b	217 ^b
Barium (dissolved)	ug/L	-	-	157 ^b	161 ^b	-	-	-	-	246 ^b	-	-	-	-	-	222 ^b
Beryllium	ug/L	0.13 U	0.13 J	0.13 U	0.13 U	0.80 U	0.17 U	0.13 U	2.6 ^{ab}	0.13 U	0.80 U	0.80 U	0.17 U	0.13 U	0.13 U	0.16 J
Beryllium (dissolved)	ug/L	-	-	0.13 U	0.13 U	-	-	-	-	0.13 U	-	-	-	-	-	0.13 U
Cadmium	ug/L	0.39 U	0.39 U	0.39 U	0.39 U	2.0 U	0.36 J ^{ab}	0.39 U	0.39 U	0.39 U	2.0 U	2.0 U	0.33 U	0.39 U	0.39 U	0.39 U
Cadmium (dissolved)	ug/L	-	-	0.39 U	0.39 U	-	-	-	-	0.39 U	-	-	-	-	-	0.39 U
Calcium	ug/L	61800	63200	52200	50400	37800	40400 J	74300	34900	46700	35100	34400	24600 J	36600	32100	31700
Calcium (dissolved)	ug/L	-	-	53100	53500	-	-	-	-	49200	-	-	-	-	-	32400
Chromium (dissolved)	ug/L	-	-	2.5 U	2.5 U	-	-	-	-	2.5 U	-	-	-	-	-	2.5 U
Chromium (Trivalent and compounds)	ug/L	2.5 UJ	10.4 J ^a	2.5 U	2.5 U	4.0 U	5.0 U	3.4 J	57.7 ^a	2.5 U	4.0 U	4.0 U	5.0 U	2.6 J	2.5 U	9.6
Chromium VI (hexavalent)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	0.86 J ^a	2.5 J ^a	0.71 U	0.71 U	10.8 ^a	5.4 J ^a	7.4 ^a	22.5 ^a	3.4 J ^a	9.2 ^a	8.8 ^a	14.6 J ^a	17.7 ^a	12.7 ^a	9.4 ^a
Cobalt (dissolved)	ug/L	-	-	0.71 U	0.71 U	-	-	-	-	3.2 J ^a	-	-	-	-	-	6.8 ^a
Copper	ug/L	2.5 U	18.3 J ^b	2.5 U	2.5 U	4.0 U	6.9 U	5.1 U	2.5 U	2.5 U	4.0 U	4.0 U	6.9 U	2.5 U	2.5 U	4.9
Copper (dissolved)	ug/L	-	-	2.5 U	2.6 J	-	-	-	-	2.5 U	-	-	-	-	-	3.6 J
Iron	ug/L	1330 J ^b	4700 J ^{ab}	100 J	78.4 J	1330 ^b	80.8 U	3500 ^{ab}	39800 ^{ab}	230	4680 ^{ab}	4570 ^{ab}	1100 J ^b	833 ^b	406 ^b	2350 ^{ab}
Iron (dissolved)	ug/L	-	-	58.2 U	58.2 U	-	-	-	-	83.4 J	-	-	-	-	-	58.2 U
Lead	ug/L	0.84 UJ	5.7 J ^b	0.84 U	0.84 U	1.2 U	5.2 J ^b	2.7 ^b	76.9 J ^{ab}	0.84 U	1.2 U	1.2 U	3.3 J ^b	0.84 J	0.84 U	4.1 ^b
Lead (dissolved)	ug/L	-	-	0.84 U	0.84 U	-	-	-	-	0.84 U	-	-	-	-	-	0.84 U
Magnesium	ug/L	16800	17500	18800	18400	20900	46000	52700	24600	30000	26100	25100	22700	31400	28400	28200
Magnesium (dissolved)	ug/L	-	-	18700	18300	-	-	-	-	29400	-	-	-	-	-	26600
Manganese	ug/L	21.9 J	73.0 J ^a	16.8	15.2	3840 ^{ab}	12200 J ^{ab}	1270 ^{ab}	617 ^{ab}	549 ^{ab}	2400 ^{ab}	2330 ^{ab}	4140 J ^{ab}	4720 ^{ab}	3270 ^{ab}	2060 ^{ab}
Manganese (dissolved)	ug/L	24.6	32.0	17.4	16.0	-	-	1170 ^{ab}	439 ^{ab}	560 ^{ab}	-	-	-	4850 ^{ab}	3060 ^{ab}	1880 ^{ab}
Mercury	ug/L	0.091 U	0.091 U	0.091 U	0.091 U	0.20 U	0.091 U	0.091 U	0.091 U	0.091 U	0.20 U	0.20 U	0.091 U	0.091 U	0.091 U	0.091 U
Mercury (dissolved)	ug/L	-	-	0.091 U	0.091 U	-	-	-	-	0.091 U	-	-	-	-	-	0.091 U
Nickel	ug/L	0.91 U	5.8	1.6 J	1.4 J	3.7 J	4.3 J	9.3 U	0.91 U	5.9	1.5 J	1.9 J	4.1 U	3.4 J	0.91 U	7.2
Nickel (dissolved)	ug/L	-	-	1.0 J	1.3 J	-	-	-	-	3.8 J	-	-	-	-	-	5.0
Potassium	ug/L	10200	10500	7010	6650	7050	3660 J	8730	9200	6940	7000	6820	4510 J	4550	5580	5050
Potassium (dissolved)	ug/L	-	-	6890	6930	-	-	-	-	6950	-	-	-	-	-	4830
Selenium	ug/L	0.59 U	0.59 U	0.59 U	0.59 U	10.0 U	7.6 J ^b	0.59 U	0.72 J	0.59 U	10.0 U	10.0 U	5.9 U	0.59 U	0.59 U	0.59 U
Selenium (dissolved)	ug/L	-	-	0.82 J	0.84 J	-	-	-	-	0.81 J	-	-	-	-	-	0.84 J
Silver	ug/L	0.29 U	0.29 U	0.29 U	0.29 U	2.0 U	5.8 U	0.29 U	1.0 J	0.29 U	2.0 U	2.0 U	5.8 U	0.29 U	0.29 U	0.29 U
Silver (dissolved)	ug/L	-	-	0.29 U	0.29 U	-	-	-	-	0.29 U	-	-	-	-	-	0.29 U
Sodium	ug/L	34300	35500	66400	63900	41600	80500 J	84800	84400	101000	61800	59500	69900 J	74300	70600	70200
Sodium (dissolved)	ug/L	-	-	64700	63200	-	-	-	-	96300	-	-	-	-	-	66900
Thallium	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	0.80 U	11.4 J ^{ab}	0.21 U	0.21 UJ	0.21 U	0.80 U	0.80 U	4.7 J ^{ab}	0.21 U	0.21 U	0.21 U
Thallium (dissolved)	ug/L	-	-	0.21 U	0.21 U	-	-	-	-	0.21 U	-	-	-	-	-	0.21 U
Vanadium	ug/L	4.0 J	11.6 J ^a	1.3 J	1.1 J	4.0 U	7.2 U	5.3	99.7 ^{ab}	1.3 J	4.0 U	4.0 U	7.2 U	3.8 J	1.9 J	12.8 ^a
Vanadium (dissolved)	ug/L	-	-	0.68 U	0.68 U	-	-	-	-	0.68 U	-	-	-	-	-	1.5 J
Zinc	ug/L	10.8 J	19.1 J	6.5 U	6.5 U	16.0 U	1.2 U	20.5	196 ^b	7.5 J	16.0 U	16.0 U	1.2 U	6.5 U	6.5 U	9.1 J
Zinc (dissolved)	ug/L	-	-	6.5 U	6.5 U	-	-	-	-	6.5 U	-	-	-	-	-	6.5 U

Notes:
U - Not detected at the associated reporting limit
J - Estimated concentration.
UJ - Not detected; associated reporting limit is e
R - Rejected.
H - Biased High
B - Not detected substantially above the level re
ug/L - microgram per liter

Appendix F

**OU-5 Groundwater Discharge to Little Mill
Creek**

APPENDIX F

OU-5 Groundwater Discharge to Little Mill Creek Estimation of Current Shallow Groundwater Flow Rate and Surface Water Concentrations

1. Background

In an October 8, 2018, email, DNREC requested an evaluation of mass loading from OU-5 groundwater into the nearby stream, Little Mill Creek, be included in the GHD's 2018 OU-5 Groundwater Monitoring Results letter. Specifically, DNREC requested evaluating constituents with detected concentrations that exceeded the HSCA Ecological Surface Water Fresh (Eco Fresh) Screening Levels. The 2018 evaluation concluded that even though mass loading from groundwater to Little Mill Creek surface water may be occurring, aquatic life in Little Mill Creek would not be impacted by any migration of metals from OU-5. An evaluation of mass loading was performed again after the 2020 OU-5 groundwater sampling event, summarized in GHD's 2020 OU-5 Groundwater Monitoring Plan letter, with the same conclusion. Mass loading evaluations were also included in the Year 1 and Year 2 LTS Groundwater Monitoring Reports.

In the following sections, groundwater results from the four OU-5 perimeter wells (MW-48R, MW-109R, MW-112, and MW-113R) sampled in 2024 are compared to the HSCA Eco Fresh Screening Levels and evaluated for potential mass loading into Little Mill Creek.

2. OU-5 Groundwater Results – Metals

Seven metals (aluminum, arsenic, barium, beryllium, copper, iron, lead, manganese, vanadium, and zinc) were detected at these locations in 2024 at concentrations that exceeded the HSCA Eco Fresh Screening Levels, which are as follows:

- Total and dissolved barium – all four wells (MW-48R, MW-109R, MW-112 and MW-113R)
- Total aluminum and total and dissolved manganese – three wells (MW-48R, MW-112, MW-113R)
- Total iron and total lead – two wells (MW-48R and MW-113R)
- Dissolved selenium – one well (MW-48R)

Groundwater data are presented in Appendix E.

Comparing groundwater data to the HSCA Eco Fresh Screening Levels conservatively assumes that all groundwater discharges to surface water in Little Mill Creek without dilution and that all metals detected in groundwater are site-related and not associated with background metals concentrations. The four perimeter wells in OU-5 (MW-48R, MW-109R, MW-112, and MW-113R) vary in distance from Little Mill Creek between approximately 100 feet (MW-109R) and 350 feet (MW-48R), and as such, comparing groundwater concentrations from these wells directly to the HSCA Eco Fresh Screening Levels is conservative and does not account for dilution or dispersion that would occur before groundwater is discharged to Little Mill Creek. The following section includes an evaluation of the potential ecological impacts of OU-5 groundwater to surface water in Little Mill Creek by conservatively estimating high-end surface water concentrations using the maximum detected groundwater concentrations.

3. Estimated Surface Water Concentrations

Discharge of groundwater in the shallow saturated zone from the Site to Little Mill Creek may occur along the Site's northeastern boundary extending from OU-5 to OU-6.

The flow rate of groundwater in the shallow saturated zone from the Site to Little Mill Creek was estimated using Darcy's law, as follows:

$$Q = A \cdot K \frac{dh}{dx}$$

where:

$$\begin{aligned} Q &= \text{flow rate (ft}^3/\text{s)} \\ A &= \text{cross-sectional area of flow (ft}^2\text{)} \\ K &= \text{hydraulic conductivity (ft/s)} \\ dh/dx &= \text{hydraulic gradient (ft/ft)} \end{aligned}$$

The cross-sectional area of shallow groundwater flow (A) is estimated to be approximately 4,800 feet squared (ft²). This estimate is based on the distance from monitoring wells MW-48R to MW-109R along the eastern boundary of OU-5. The saturated thickness of the shallow saturated zone intersecting Little Mill Creek is estimated at 12 ft¹. This is likely an overestimate of the discharge area to Little Mill Creek.

The hydraulic conductivity (K) of the shallow saturated zone was estimated using the generic saturated hydraulic conductivity for sandy loam soil from the National Resources Conservation Service (NRCS). The average of the low and high hydraulic conductivities was used, which is approximately 28.2 micrometers per second (um/s) or 9.3×10^{-6} feet per second (ft/s).

The hydraulic gradient (dh/dx) is estimated to range from approximately 0.003 to 0.004 ft/ft, based on the groundwater elevations from MW-28R to MW-113R and MW-112, respectively.

Using the high-end of the range of hydraulic gradients and the other values discussed above, the discharge of shallow groundwater is conservatively calculated to be approximately 1.7×10^{-4} ft³/s.

The stream concentration was calculated assuming groundwater discharge into the stream, as follows:

$$C_s = C_g (Q_g/Q_s)$$

where:

$$\begin{aligned} C_s &= \text{stream concentration (ug/L)} \\ C_g &= \text{groundwater concentration (ug/L)} \\ Q_g &= \text{groundwater flow rate (ft}^3/\text{s)} \\ Q_s &= \text{1Q10 Little Mill Creek flow rate (ft}^3/\text{s)} \end{aligned}$$

The maximum detected concentrations in groundwater from perimeter wells (MW-48R, MW-109R, MW-112, and MW-113R) for the six metals that exceeded the HSCA Eco Fresh Screening Levels were used to evaluate potential mass loading to Little Mill Creek (listed in Table 1).

To provide a conservative evaluation, the minimum daily flow rate for Little Mill Creek from StreamStats was used in calculations (USGS station ID 01480095, 0.41 ft³/s). The estimated surface water concentrations from the discharge of groundwater were conservatively calculated to be 1.42 ug/L for aluminum, 0.10 ug/L for barium, 1.43 ug/L for iron, 4.8×10^{-3} ug/L for lead, 2.2 ug/L for manganese, and 5.8×10^{-4} ug/L for selenium (Table 1). These estimated surface water concentrations are less than the respective HSCA Eco Fresh Screening Levels.

Table 1 *Estimated Surface Water Concentrations in Little Mill Creek from the Discharge of Groundwater*

Constituent	HSCA Eco Fresh Screening Level (ug/L)	Maximum Groundwater Concentration (ug/L)	Estimated Surface Water Concentration (ug/L)
Aluminum	87	3,430	1.42
Barium	4	246	0.10
Iron	300	3,450	1.43
Lead	2.5	11.5	4.8×10^{-3}

¹ The saturated thickness of the shallow zone intersecting with Little Mill Creek is based on the observed water table depth at MW-112 and MW-113R (10-ft below ground surface), the ground surface elevation at MW-112 (71.71 ft AMSL), and the minimum basin elevation of Little Mill Creek at USGS station 01480100 (49.7 ft AMSL), located approximately 1 mile downstream of the site.

Constituent	HSCA Eco Fresh Screening Level (ug/L)	Maximum Groundwater Concentration (ug/L)	Estimated Surface Water Concentration (ug/L)
Manganese	120	5,200	2.2
Selenium	1	1.4	5.8x10 ⁻⁴

Based on these estimated surface water concentrations, aquatic life in Little Mill Creek is not impacted by the migration of metals from OU-5, which is consistent with the 2018, 2020, Year 1, and Year 2 LTS Groundwater Monitoring Report evaluations.

Appendix G

OU-5 Cap Inspection Form

RACER Trust
Former GM Assembly Plant
Wilmington, Delaware
OU-5 Permanent Cap Inspection Form

Site Name/Description: OU-5 Test Track Area Permanent Cap
Inspector: Chris Townsend
Weather: Clear
Date/Time: 10/29/2024 14:50

Site Inspection Items		Notes/Location of "No"
If yes, describe in notes.		
1)	Inspect the exterior concrete around the warehouse building.	
a	Signs of significant cracks or holes?	No Facing north from when goes from road to cap, there is a crack . As you progress going north to the cap to the other end, there is another crack extending from stop sign to sidewalk. These are showing as the first two pictures.
b	Areas of erosion of capped area?	No
c	Noticeable vegetation (e.g., weeds, grass, rooting shrubs) through cap?	N/A
d	Adequate drainage on and around the cap?	Yes
e	Any evidence underground work was completed or is ongoing (e.g., trenching, fresh concrete)?	No
2)	Inspect the interior slab of the warehouse building. The permanent cap is located East and North of Column D7.	
a	Signs of significant cracks or holes?	No
b	Any evidence underground work was completed or is ongoing (e.g., trenching, fresh concrete)?	No
3)	Inspect the concrete pavement.	
a	Signs of significant cracks or holes?	No

- | | | | |
|---------------------------------|--|-----|---|
| b | Areas of erosion of capped area? | No | |
| c | Noticeable vegetation (e.g., weeds, grass, rooting shrubs) through cap? | No | |
| d | Adequate drainage on and around the cap? | Yes | |
| e | Any evidence underground work was completed or is ongoing (e.g., trenching, fresh concrete)? | No | |
| 4) Inspect the landscaped area. | | | |
| a | Any exposed geotextile fabric? | No | |
| b | Signs of significant holes or penetrations through cap soil? | No | |
| c | Areas of erosion? | No | Very small areas of patchy grass that looks to be eroded, but nothing severe. Overall, all the grass in the back parking lot area looks fine. |
| d | Adequate drainage on and around the cap? | Yes | |

See Photos at the end of this form

Comments/Remarks

Overall, the cap looks in good condition.

Corrective Actions Recommended/Completed (Date)

Photos

Photo 1 - Small crack as road turns into concrete cap.



Photo 2 - No, just a crack in concrete slab at intersection of two stop signs.



Photo 3 - View Looking West - View of Inspection from other entrance. This is where big trucks come in and out from loading.



Photo 4 - View Looking West - View of loading dock area for big trailers. View is from cap inspection on opposite side of fence.



Photo 5 - "Cap" wording on side of sidewalk.



Photo 6 - View Looking East - Backend area walkway of cap.



Photo 7 - Parking lot area for Amazon trucks/vans.



Photo 8 - View Looking West - Two small cracks on sidewalk and on cap area looking south in parking lot.



Photo 9 - Very back parking lot area of Amazon truck/vans. All looks good on cap.



Photo 10 - View Looking South - You looking south of other parking lots and cap area.



Photo 11 - View Looking South - Fuel looking south east of big Amazon van parking lot. No real big signs of cracking.



Photo 12 - View Looking West - Are you looking Southwest of cap where blacktop meets cap area entrance.



Photo 13 - View Looking South - No stop sign fell down, looking south of cap area towards the one entrance.



Photo 14 - View Looking East -



Photo 15 -

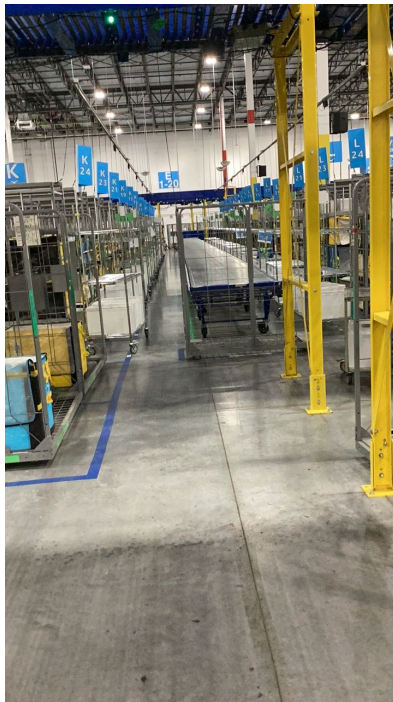


Photo 16 -

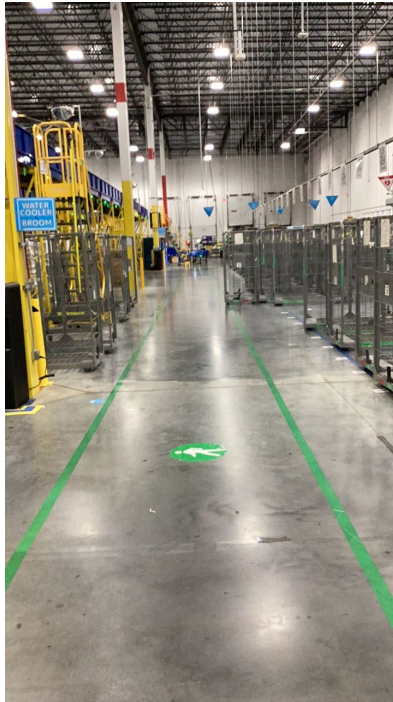


Photo 17 -

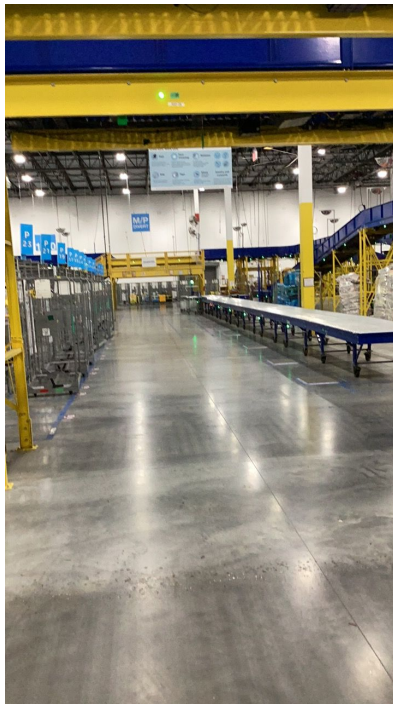


Photo 18 -

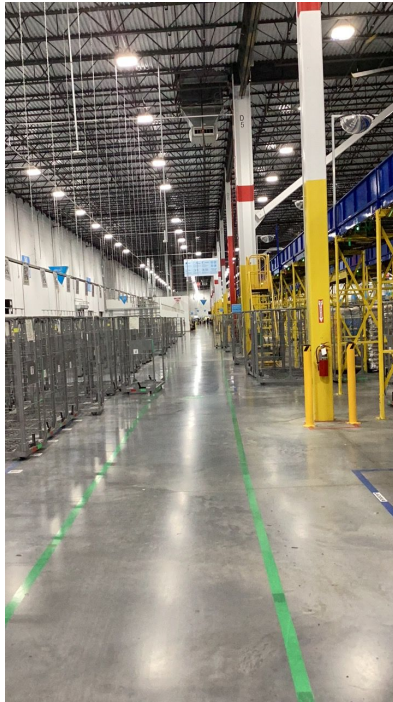


Photo 19 -

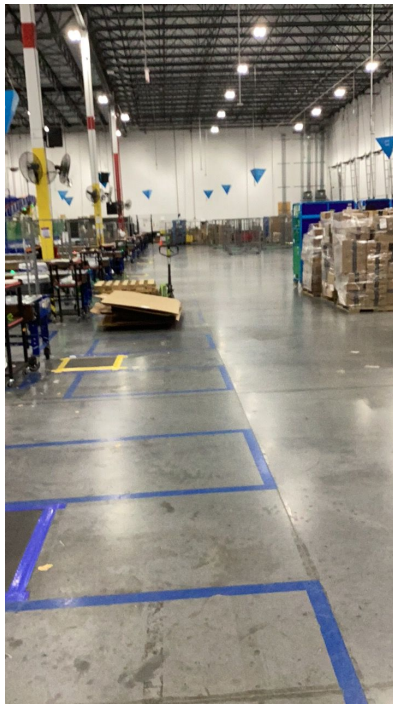


Photo 20 - View Looking East -



Photo 21 - View Looking South -



Photo 22 - View Looking South -

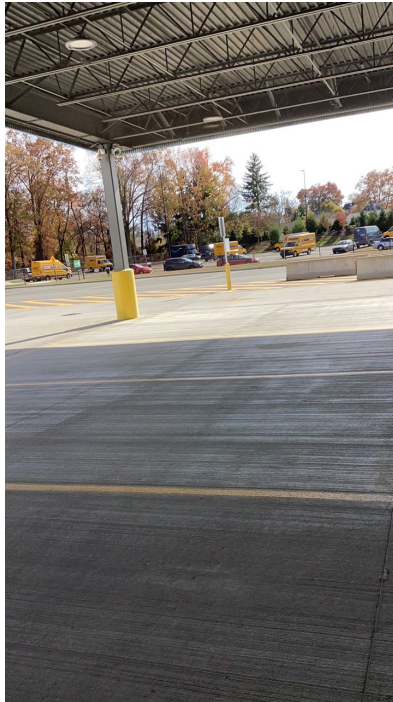


Photo 23 -

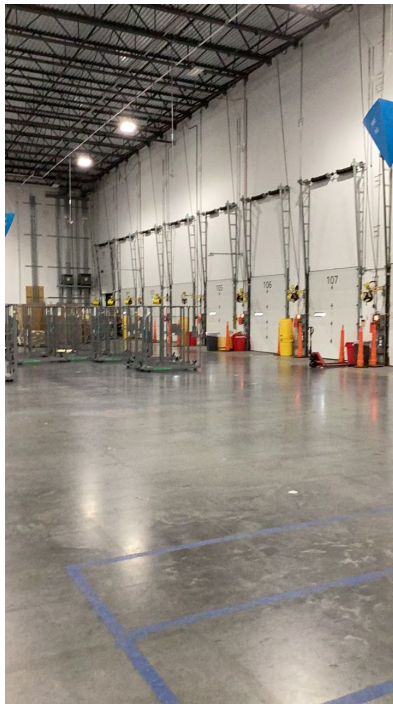


Photo 24 - View Looking West -

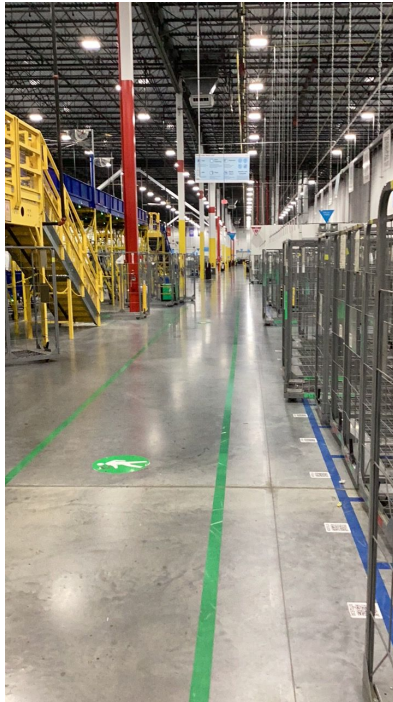


Photo 25 - View Looking East -



Photo 26 -

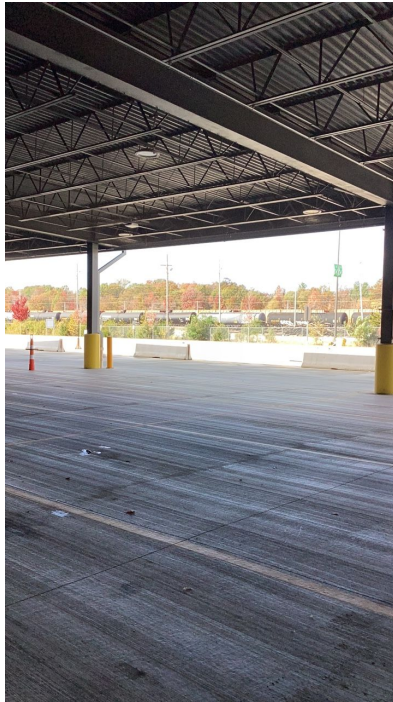


Photo 27 - View Looking West -

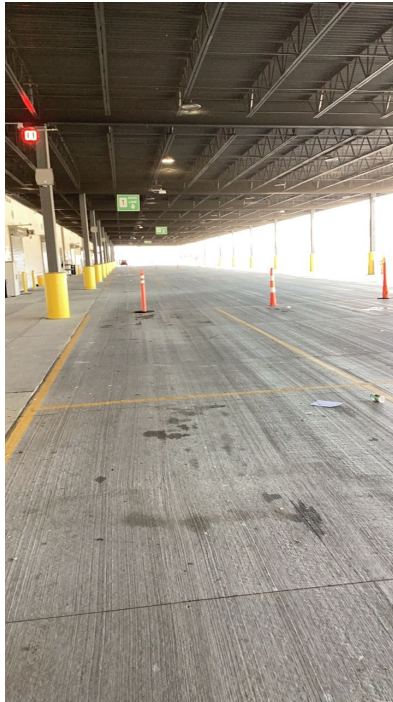


Photo 28 - View Looking West -

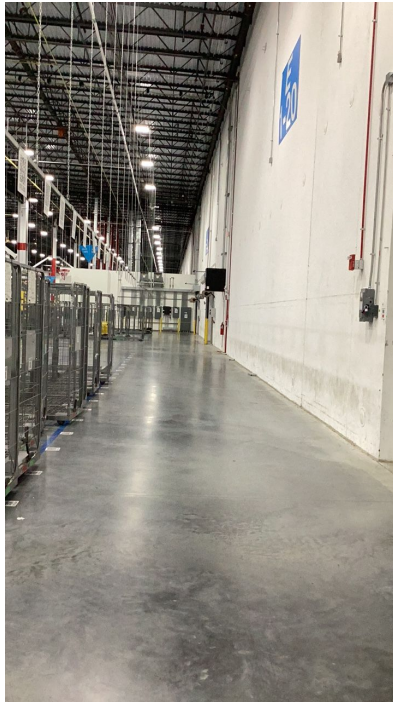


Photo 29 - View Looking South -



Photo 30 - View Looking East -



Photo 31 - Trailer parking lot.

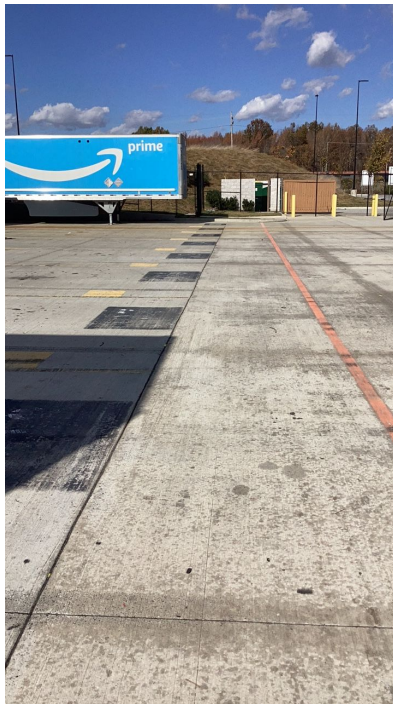


Photo 32 - View Looking East -

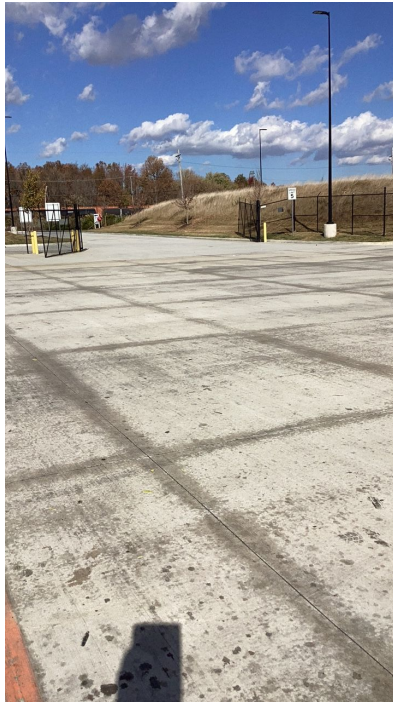


Photo 33 - View Looking West -



Photo 34 - View Looking West -

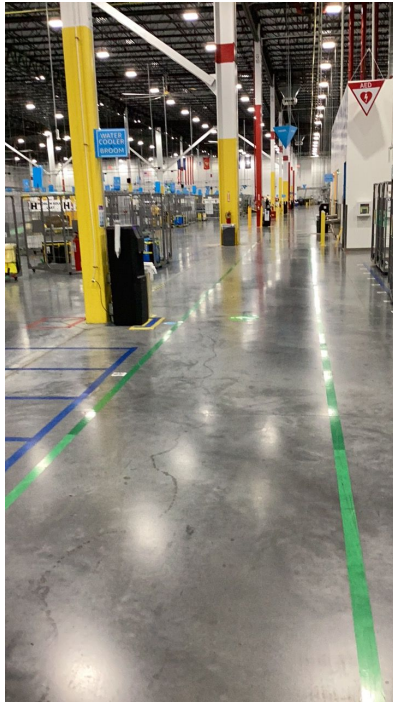


Photo 35 - View Looking East -

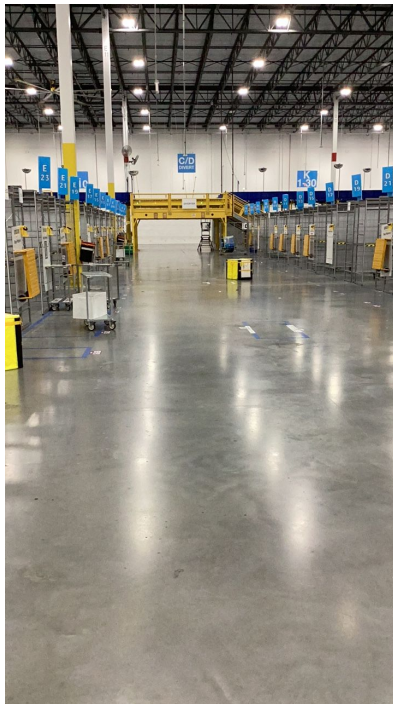


Photo 36 - View Looking West -

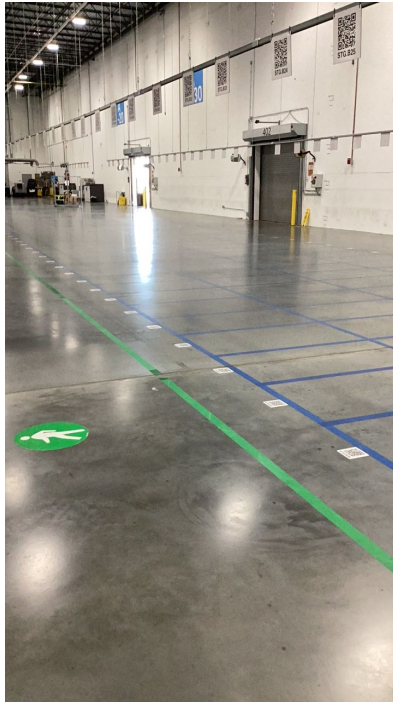


Photo 37 - View Looking South - Expansion joint with a crack that started from F-14 to B-14. Believe landlord is aware of this issue.



Photo 38 - View Looking South -

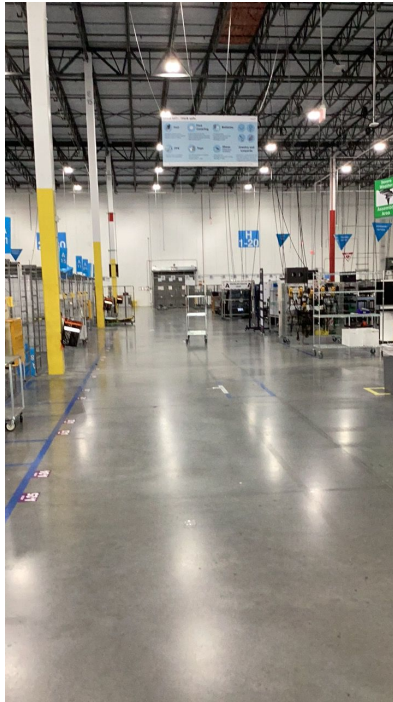


Photo 39 -

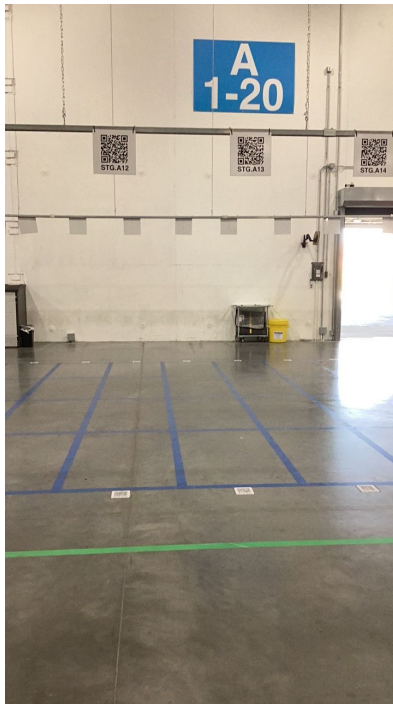


Photo 40 - View Looking East -

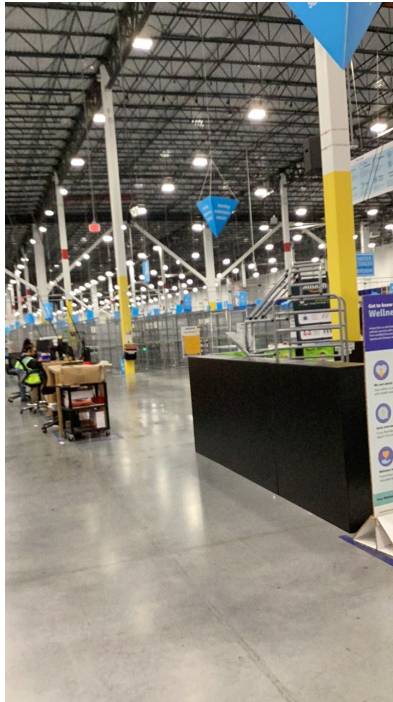


Photo 41 - View Looking South -

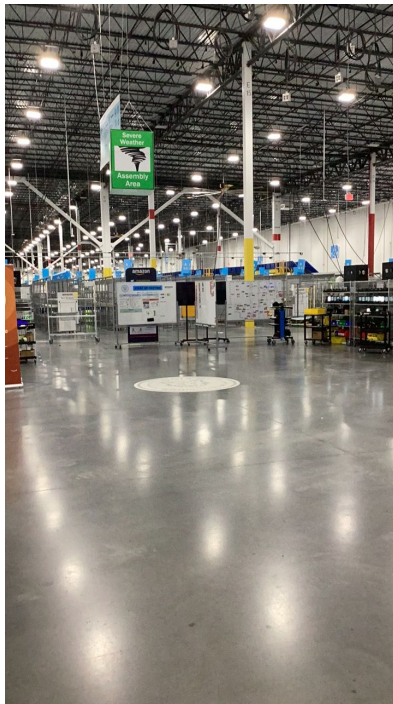


Photo 42 - View Looking West -



Photo 43 - View Looking South - At breakroom entrance

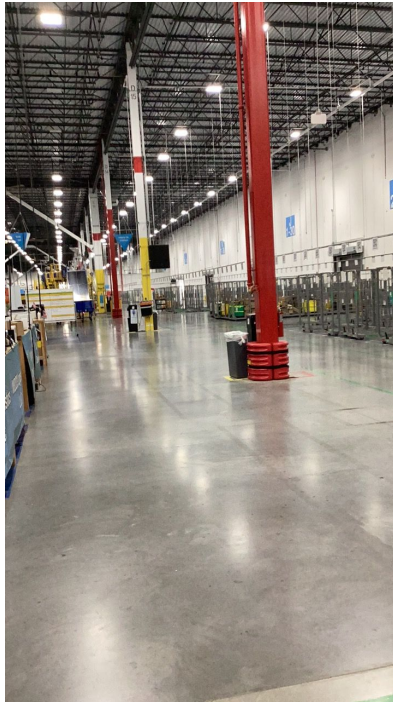


Photo 44 - View Looking West -



Photo 45 - View Looking West - Eroded area of grass near big hill area near trailer park.

