



Groundwater Monitoring Report-Year 2

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

RACER Trust

March 01, 2024

→ **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 2 (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 2022).

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 2 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 selected. These wells are located on the perimeter of OU-2, southwest of the source area. Volatile organic compounds (VOCs) were selected as the analytical parameters to be 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 selected. 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) were selected as analytical parameters to be monitored in OU-4.
- OU-5: Groundwater monitoring wells MW-48R, MW-109R, MW-112, and MW-113R⁴, shown on Figure 5.1, were selected. Metals were selected as 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 14, 2023. 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

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

2.2 Static Water Levels

As detailed in the LTS, static water levels were collected from the LTS wells prior to sample collection. Specifically, water levels were measured from the following monitoring wells:

- OU-2: MW-8R, MW-9R, and MW-19R;

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 owners adjacent to OU-4 with off-Site monitoring wells no longer needed (e.g., not in the LTS). Once the remaining access agreements are obtained, RACER Trust will proceed with abandoning off-Site monitoring wells that are no longer needed.

- 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.

The LTS proposed the installation of a new monitoring well in OU-4, MW-51, to replace MW-49 that was removed as part of the Site redevelopment activities. MW-51 will be installed concurrent with abandonment of non-LTS wells in OU-4. Once installed, MW-51 will be gauged annually for static water levels and potential presence of LNAPL.

2.3 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 metals via USEPA SW-846 Methods 6020, mercury via USEPA SW-846 Method 7470, and dissolved manganese via USEPA SW-846 Method 6020. In addition, samples collected from MW-48R were also analyzed for benzene and TCE via USEPA SW-846 Method 6260.

2.3.1 Sample Collection

Groundwater samples were collected by GHD field staff from November 14 - 16, 2023. 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 B.

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.

2.3.2 Decontamination Procedures

Non-dedicated sampling equipment was decontaminated before each use. Decontamination rinsate was placed in a labelled 55-gallon United States Department of Transportation (DOT)-approved drum.

2.3.3 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. The IDW was collected in DOT-approved 55-gallon closed top drums. The IDW will be characterized and disposed of in accordance with federal and state requirements by RACER Trust.

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

2.4 Data Validation

Analytical results for groundwater samples collected during the Year 2 monitoring event are summarized on Tables 2 - 4. Analytical data were assessed by GHD's project chemist, and a full data validation was performed. Full Contract Laboratory Program equivalent raw data deliverables were provided by the laboratory. Evaluation 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. The assessment of analytical and in house data included checks for data consistency (by observing comparability of duplicate analyses), adherence to accuracy and precision criteria, and transmittal errors. The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

- 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.

The data validation determined the data to be acceptable, and data qualifiers were applied (as necessary). Appendix C contains the Level 2 analytical laboratory reports. Appendix D includes the data validation memorandum. The validated groundwater analytical results are summarized in Tables 2 - 4 for VOCs, SVOCs, and metals, respectively.

3. Groundwater Monitoring Results

Following data validation, 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 2 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. Groundwater samples from MW-8R and MW-9R did not exceed HSCA screening levels, consistent with results from the Year 1 sampling event. The primary and duplicate samples collected from MW-19R had low-level VOC detections that exceeded the HSCA screening level for 1,2,4-trimethylbenzene at 5.7 micrograms per liter (ug/L), ethylbenzene (2.2 ug/L), trichloroethene (0.31 ug/L), and vinyl chloride (0.87 ug/L). The concentrations exceeding HSCA screening levels are consistent with results from the Year 1 sampling event, with the exception of trichloroethene, which was non-detect at MW-19R in Year 1. The concentrations exceeding HSCA screening levels at MW-19R are multiple orders of magnitude below the historical maximum concentrations within OU-2 for 1,2,4-trimethylbenzene (180 ug/L), ethylbenzene (22,000 ug/L), trichloroethene (3 ug/L), and vinyl chloride (2.5 ug/L; see Table 2 and Figure 3.2).

3.2 Operable Unit 4 Results

Groundwater samples in OU-4 were collected from monitoring wells MW-36S, MW-36D, 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

Samples collected from MW-36S (primary and duplicate) exceeded the HSCA screening levels for 1,1'-biphenyl (2.4 ug/L and 2.6 ug/L, respectively). Groundwater samples collected from MW-36D, MW-36S (primary and duplicate), DA-MW40, and DA-MW41 exceeded HSCA screening levels for 2-methylnaphthalene (13 ug/L, 34 ug/L/36 ug/L, 16 ug/L, and 5.5 ug/L, respectively). Groundwater samples for MW-36D, MW-36S (primary and duplicate), DA-MW40, DA-MW41, and MW-50R exceeded HSCA screening levels for naphthalene (40 ug/L, 77 ug/L/81 ug/L, 60 ug/L, 31 ug/L, and 30 ug/L, respectively). 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).

3.2.2 Operable Unit 4 VOC Results

Groundwater samples for MW-36D, MW-36S, DA-MW40, DA-MW41, and MW-50R exceeded HSCA screening levels for 1,2,4-trimethylbenzene (69 ug/L, 89 ug/L, 300 ug/L, 83 ug/L, and 36 ug/L, respectively), ethylbenzene (200 ug/L, 320 ug/L, 91 ug/L, 81 ug/L and 550 ug/L, respectively), and total xylenes (500 ug/L, 290 ug/L, 420 ug/L, 140 ug/L, and 270 ug/L, respectively). Groundwater samples for MW-36S and MW-50R exceeded HSCA screening levels for 1,2-dichloroethane (2.4 ug/L and 20 ug/L, respectively). Groundwater samples for MW-36D, MW-36S, and MW-50R exceeded HSCA screening levels for benzene (20 ug/L, 96 ug/L, and 970 ug/L, respectively). The groundwater sample for MW-50R exceeded the HSCA screening level for toluene (210 ug/L).

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 and MW-36D were less than the historical maximum concentrations at these individual monitoring wells (see Table 2 and Appendix E). VOC screening level exceedances at MW-50R were less than the historical maximum concentration with the exception of benzene, which was detected at a concentration of 970 ug/L. Historically, benzene concentrations have fluctuated at MW-50R, detected at 110 ug/L during the first sampling event in 2015, increasing to 450 ug/L in 2017, and decreasing to 84 ug/L in 2018 and non-detect in January 2023. VOC screening level exceedances at DA-MW40 and DA-MW41 were less than the historical maximum concentrations with the exception of 1,2,4-trimethylbenzene at DA-MW41, which was detected at a concentration of 83 ug/L. Concentrations of 1,2,4-trimethylbenzene have historically ranged from non-detect to 50 ug/L at DA-MW41.

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 metals and dissolved manganese: 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. Metal 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 (0.60 ug/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 aluminum (2,550 ug/L), antimony (0.92 ug/L), chromium (10.7 ug/L), cobalt (6.7 ug/L), iron (3,300 ug/L), total and dissolved manganese (5,410 and 5,440 ug/L, respectively), and vanadium (11.3 ug/L). Aluminum, antimony, cobalt, iron, and manganese

(total and dissolved) exceedances were less than historical maximum concentrations for these compounds within OU-5 and cobalt and manganese (total and dissolved) exceedances were less than the historical maximum at MW-48R. The aluminum exceedance at MW-48R (2,550 ug/L) was greater than the historical maximum at MW-48R (1,290 ug/L) from January 2023. The antimony exceedance was the first occurrence at MW-48R; historically antimony has been non-detect. Chromium and vanadium exceedances were slightly higher than the historical maximum concentrations for these compounds at MW-48R (8.7 and 5.6 ug/L, respectively; see Appendix E) and within OU-5.

The groundwater samples collected from MW-109R exceeded HSCA screening levels in both the parent and duplicate for antimony (1.0/0.82 ug/L) and cobalt (2.5/0.86 ug/L). The duplicate groundwater sample collected from MW-109R exceeded HSCA screening levels for aluminum (2,160 ug/L), chromium (10.4 ug/L), iron (4,700 ug/L), total manganese (73 ug/L), and vanadium (11.6 ug/L). Exceedances of chromium and vanadium were greater than the historical maximum within OU-5 (see Table 4). The previous historical maximum of chromium and vanadium at MW-109R were 7.3 ug/L and 6.7 ug/L during the January 2023 sampling event, respectively. Aluminum, antimony, cobalt, iron, and total manganese exceedances were less than the historical maximum concentrations for these compounds within OU-5. Antimony, cobalt, and total manganese exceedances were less than the historical maximum at MW-109R. The aluminum exceedance (2,160 ug/L) was greater than the historical maximum at MW-109R (1,200 ug/L), and the iron exceedance (4,700 ug/L) was greater than the historical maximum at MW-109R (4,170 ug/L).

The groundwater sample collected from MW-112 exceeded HSCA screening levels for aluminum (32,100 ug/L), antimony (2.4 ug/L), arsenic (5.3 ug/L), beryllium (2.6 ug/L), chromium (57.7 ug/L), cobalt (22.5 ug/L), iron (39,800 ug/L), lead (76.9 ug/L), total and dissolved manganese (617 and 439 ug/L, respectively), and vanadium (99.7 ug/L). Exceedances of aluminum, beryllium, chromium, lead, and vanadium were greater than the historical maximum concentrations for these compounds within OU-5 (see Table 4) and at MW-112. Historical concentrations of beryllium, chromium, and vanadium were either non-detect or detected below HSCA screening levels. Historical concentrations of lead and aluminum were an order of magnitude less than the November 2023 concentrations. Exceedances of antimony and total and dissolved manganese were less than the historical maximum within OU-5 and at MW-112. The exceedances of arsenic, cobalt, and iron were less than the OU-5 historical maximum but greater than the historical maximum at MW-112 (see Appendix E). Historical concentrations ranged from non-detect to 2.2 ug/L for arsenic, 5.4 to 10.8 ug/L for cobalt, and non-detect to 3,500 ug/L for iron.

The groundwater sample collected from MW-113R exceeded HSCA screening levels for cobalt (12.7 ug/L) and total and dissolved manganese (3,270 and 3,060 ug/L, respectively). These exceedances were less than the historical maximum within OU-5 (see Table 4) and the historical maximum concentrations at MW-113 (see Appendix E).

Concentrations of metals at certain wells (MW-48R, MW-109R, and MW-112) were near or greater than historical levels in OU-5. The elevated concentrations are likely results of high turbidity, potentially from an undeveloped (or improperly developed) well. Turbidity was stable but elevated at MW-48R and MW-112 prior to sampling, measured at 219 and 1,000 nephelometric turbidity units (ntu), respectively. GHD recommends re-developing these (and other) replacement wells prior to the next sampling event and collecting field filtered groundwater samples for dissolved metals analysis.

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	32,100	13.28
Arsenic	5	5.3	2.0x10 ⁻³
Barium	4	337	0.14
Beryllium	0.66	2.6	1.0x10 ⁻³
Copper	9	18.3	7.6x10 ⁻³
Iron	300	39,800	16.47
Lead	2.5	76.9	3.2x10 ⁻²
Manganese	120	5,440	2.3
Vanadium	20	99.7	4.1x10 ⁻²
Zinc	120	196	8.1x10 ⁻²

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 2 Inspection

Inspection of the OU-5 permanent cap was completed on November 17, 2023. 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 north and east sides 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.

5. Summary, Conclusions, and Recommendations

The following sections present a summary of the Year 2 Groundwater Monitoring Event, and a discussion of and recommendations on potential future monitoring plan adjustments.

5.1 Year 2 Monitoring Summary

As detailed above, this Year 2 Groundwater Monitoring Report describes implementation of Year 2 (November 2023) 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), to be completed in the future concurrently with the abandonment of OU-4 off-Site monitoring wells.

Analytical data generated from the Year 2 Groundwater Monitoring Event are generally consistent with analytical data from the Year 1 sampling event 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 2 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 and OU-4. However, in OU-5, exceedances of certain metals at MW-112, MW-48R, MW-109R were greater than the historical maximum within OU-5 and at the individual wells. Elevated concentrations in these wells may be a result of improperly developed wells, and as such, MW-48R, MW-109R, and MW-112 will be redeveloped prior to the next sampling event in 2024. Additionally, dissolved metals will be collected from OU-5 wells during the next sampling event. As stated in the LTS, these wells are monitored to determine whether concentrations are increasing. 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 north and east sides 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.

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 well MW-109R (OU-5). The concrete pad at MW-109R in OU-5 is loose and needs to be replaced. This repair will be completed concurrent with the installation of MW-51 in OU-4 at a future date.

5.3.2 Well Redevelopment

The replacement wells in OU-5 will be re-developed prior to the next annual sampling to ensure the groundwater results are representative of dissolved phase concentrations and are free of as many fines and particulates as possible.

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.
- 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.

Groundwater Elevation Data
Long-Term Stewardship Plan Groundwater Sampling Report, Year 2
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Well	Coordinates		TOC Elevation (feet amsl)	Ground Elevation (feet amsl)	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	-	20.10	10	15.32	67.17
MW-9R	629873.770	600068.980	83.14	-	19.60	10	13.2	69.94
MW-19R	629593.420	600357.460	79.18	-	19.30	10	10.61	68.57
Operable Unit 4								
MW-36D	629200.289	602374.450	80.68	80.90	39.00	5	16.12	64.56
MW-36S	629188.746	602373.059	80.79	81.23	22.60	10	15.95	64.84
MW-40	629219.970	602578.160	79.46	-	23.30	10	14.97	64.49
MW-41	629307.620	602592.810	78.24	-	24.80	10	14.09	64.15
MW-50R	629260.179	602381.634	80.34	80.50	24.50	15	15.64	64.70
Operable Unit 5								
MW-28R	629916.450	602684.690	73.54	73.74	19.60	10	9.9	63.64
MW-48R	630325.799	603371.716	70.78	70.86	15.40	10	8.45	62.33
MW-109R	630691.629	603493.433	71.13	71.29	16.30	10	11.3	59.83
MW-112	630558.203	603446.161	71.39	71.71	18.20	10	11.54	59.85
MW-113R	630428.085	603409.008	70.44	70.57	17.20	10	8.37	62.07

Note:

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

Groundwater Analytical Results - Volatile Organic Compounds Detections
Long-Term Stewardship Plan Groundwater Sampling Report, Year 2
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location:		Historical Maximum Concentration Exceeding HSCA ^(a)	Historical Maximum Concentration OU-2	Historical Maximum Concentration OU-4 ^(b)	Historical Maximum Concentration OU-5	HSCA Groundwater November 2023 ^(c)	OU-2 MW-8R GW-11222397- 111523-ZB-09 11/15/2023	OU-2 MW-9R GW-11222397- 111523-ZB-12 11/15/2023	OU-2 MW-19R GW-11222397- 111523-ZB-10 11/15/2023	OU-2 MW-19R GW-11222397- 111523-ZB-11 11/15/2023 (Duplicate)	OU-4 DA-MW40 GW-11222397- 111523-CT-06 11/15/2023	OU-4 DA-MW41 GW-11222397- 111523-CT-07 11/15/2023	OU-4 MW-36D GW-11222397- 111423-ZB-05 11/14/2023	OU-4 MW-36S GW-11222397- 111423-ES-02 11/14/2023	OU-4 MW-50R GW-11222397- 111423-ZB-04 11/14/2023	OU-5 MW-48R GW-11222397- 111623-ZB-15 11/16/2023					
Sample ID:	Sample Date:																				
Parameters							Units														
VOCs																					
1,2,4-Trimethylbenzene	µg/L	2800	180	2800	9.1	5.6	0.37 U	0.37 U	5.7	5.4	300	83	69	89	36	--					
1,2-Dichloroethane	µg/L	71	--	71	--	0.17	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	2.4	20	--					
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	850	850	90	--	560	1.9 U	1.9 U	5.0	5.9	13	21	26	22	9.3 U	--					
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	1900 J	1900 J	30	2.2 J	630	1.3 U	1.3 U	1.3 J	1.5 J	3.7 J	1.3 U	1.3 U	1.3 U	6.5 U	--					
Acetone	µg/L	470000 J	470000 J	280 J	32 J	1800	4.4 U	4.4 U	29	28	4.4 U	36	50	47	22 U	--					
Benzene	µg/L	1500	1200	1500	15	0.46	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	20	96	970	0.20 U					
Carbon disulfide	µg/L	--	--	--	--	81	0.82 UJ	0.82 UJ	19 J	19	0.82 UJ	0.82 UJ	0.82 UJ	0.82 UJ	4.1 UJ	--					
cis-1,2-Dichloroethene	µg/L	9.2	7.1 J	1.3	9.2	2.5	0.22 U	0.22 U	1.4	1.3	0.22 U	0.22 U	0.22 U	0.22 U	1.8 J	--					
Cyclohexane	µg/L	--	--	--	--	1300	0.32 U	0.32 U	0.32 U	0.32 U	190	110	170	120	250	--					
Ethylbenzene	µg/L	22000	22000	2400	29	1.5	0.30 U	0.30 U	2.2	2.3	91	81	200	320	550	--					
Isopropyl benzene	µg/L	560	560	130	2.5	45	0.34 U	0.34 U	0.34 U	0.34 U	28	12	21	8.3	37	--					
Methyl cyclohexane	µg/L	--	--	--	--	--	0.71 U	0.71 U	0.71 U	0.71 U	88	55	88	29	86	--					
Methylene chloride	µg/L	91	--	91	--	5	0.32 U	0.32 U	0.38 J	0.37 J	0.32 U	0.32 U	0.32 U	0.32 U	1.6 U	--					
Styrene	µg/L	--	--	--	--	100	0.42 U	0.42 U	1.3	1.5	0.42 U	0.45 J	0.42 U	0.42 U	2.1 U	--					
Tetrachloroethene	µg/L	8.9	0.8 J	1.3 J	--	1	0.64 J	0.25 U	0.40 J	0.39 J	0.25 U	0.25 U	0.25 U	0.25 U	1.2 U	--					
Toluene	µg/L	190000	19000	6100	31	110	0.38 U	0.38 U	1.3	1.3	0.38 U	14	28	26	210	--					
Trichloroethene	µg/L	9.5	3	9.5	3.8	0.28	0.31 U	0.31 U	0.31 J	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	1.6 U	0.60 J					
Trichlorofluoromethane (CFC-11)	µg/L	--	--	--	--	520	2.2	0.32 U	1.8	1.6	0.32 U	0.32 U	0.32 U	0.32 U	1.6 U	--					
Vinyl chloride	µg/L	42	2.5 J	23	42	0.019	0.17 U	0.17 U	0.87 J	0.85 J	0.17 U	0.17 U	0.17 U	0.17 U	0.86 U	--					
Xylenes (total)	µg/L	35000	35000	13000	140	19	0.65 U	0.65 U	13	13	420	140	500	290	270	--					

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; UJ = not detected, associated reporting limit is estimated.

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

Table 3

Groundwater Analytical Results - Semi-Volatile Organic Compound Detections
LTS Plan Groundwater Sampling Report, Year 2
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:		Historical Maximum Concentration Exceeding HSCA ^(a)	Historical Maximum Concentration OU-4 ^(b)	HSCA Groundwater November 2023 ^(c)	OU-4 DA-MW40 GW-11222397- 111523-CT-06 11/15/2023	OU-4 DA-MW41 GW-11222397- 111523-CT-07 11/15/2023	OU-4 MW-36D GW-11222397- 111423-ZB-05 11/14/2023	OU-4 MW-36S GW-11222397- 111423-ES-02 11/14/2023	OU-4 MW-36S GW-11222397- 111423-ES-03 11/14/2023 (Duplicate)	OU-4 MW-50R GW-11222397- 111423-ZB-04 11/14/2023
Parameters	Units									
SVOCs										
2,4-Dimethylphenol	µg/L	600	33	36	0.62 U	0.62 U	3.1 J	7.8 J	8.2 J	3.0 J
2-Methylnaphthalene	µg/L	180	180	3.6	16	5.5 J	13	34	36	1.1 J
2-Methylphenol	µg/L	290	21	93	0.67 U	0.67 U	0.67 U	4.0 J	4.4 J	0.67 U
4-Methylphenol	µg/L	770	130	37	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 J
Acetophenone	µg/L	460	48	190	2.3 U	7.4 J	11	2.3 U	2.3 U	2.3 U
Biphenyl (1,1-Biphenyl)	µg/L	12	12	0.083	1.2 U	1.2 U	1.2 U	2.4 J	2.6 J	1.2 U
Diethyl phthalate	µg/L	--	--	1500	0.98 U	0.98 U	0.98 U	1.2 J	1.2 J	0.98 U
Fluorene	µg/L	--	--	29	0.91 U	0.91 U	0.91 U	1.0 J	1.1 J	0.91 U
Naphthalene	µg/L	3200	270	0.12	60	31	40	77	81	30
Phenol	µg/L	--	--	580	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	4.2 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 2
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location:		Historical Maximum Concentration Exceeding HSCA ^(a)	Historical Maximum Concentration OU-5 ^(b)	HSCA Groundwater November 2023 ^(c)	OU-5 MW-48R	OU-5 MW-109R	OU-5 MW-109R	OU-5 MW-112	OU-5 MW-113R
Sample ID:					GW-11222397-111623- ZB-15	GW-11222397-111623- CT-16	GW-11222397-111623- CT-17	GW-11222397-111523- ZB-14	GW-11222397-111623- ZB-18
Sample Date:					11/16/2023	11/16/2023	11/16/2023 (Duplicate)	11/15/2023	11/16/2023
Parameters	Units								
Metals									
Aluminum	µg/L	77700	2890	2000	2550	231 J	2160 J	32100	539
Antimony	µg/L	49.4	49.4	0.78	0.92 J	0.82 J	1.0 J	2.4 J	0.76 U
Arsenic	µg/L	47.8	9.6	0.052	0.89 U	0.89 U	0.89 U	5.3	0.89 U
Barium	µg/L	1390	1390	380	177	157	177	337 J	221
Beryllium	µg/L	--	--	2.5	0.14 J	0.13 U	0.13 J	2.6	0.13 U
Calcium	µg/L	--	--	--	30600	61800	63200	34900	32100
Chromium	µg/L	251	8.7 J	10	10.7	2.5 UJ	10.4 J	57.7	2.5 U
Cobalt	µg/L	234	53.4	0.6	6.7	0.86 J	2.5 J	22.5	12.7
Copper	µg/L	--	--	80	2.5 U	2.5 U	18.3 J	2.5 U	2.5 U
Iron	µg/L	285000	78400	1400	3300	1330 J	4700 J	39800	406
Lead	µg/L	124	11.9	15	13.7	0.84 UJ	5.7 J	76.9 J	0.84 U
Magnesium	µg/L	--	--	--	31500	16800	17500	24600	28400
Manganese	µg/L	32400	12200	43	5410	21.9 J	73.0 J	617	3270
Manganese (dissolved)	µg/L	32400	7910	43	5440	24.6	32.0	439	3060
Nickel	µg/L	76.7	27.5 J	39	0.91 U	0.91 U	5.8	0.91 U	0.91 U
Potassium	µg/L	--	--	--	3730	10200	10500	9200	5580
Selenium	µg/L	16	7.6	10	0.61 J	0.59 U	0.59 U	0.72 J	0.59 U
Silver	µg/L	11.7	--	9.4	0.29 U	0.29 U	0.29 U	1.0 J	0.29 U
Sodium	µg/L	--	--	--	120000	34300	35500	84400	70600
Vanadium	µg/L	199	8.8 J	8.6	11.3	4.0 J	11.6 J	99.7	1.9 J
Zinc	µg/L	--	--	600	24.3	10.8 J	19.1 J	196	6.5 U

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; U = not detected at the associated reporting limit; UJ = not detected, associated reporting limit is estimated.

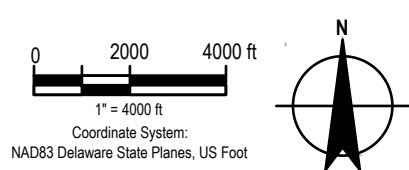
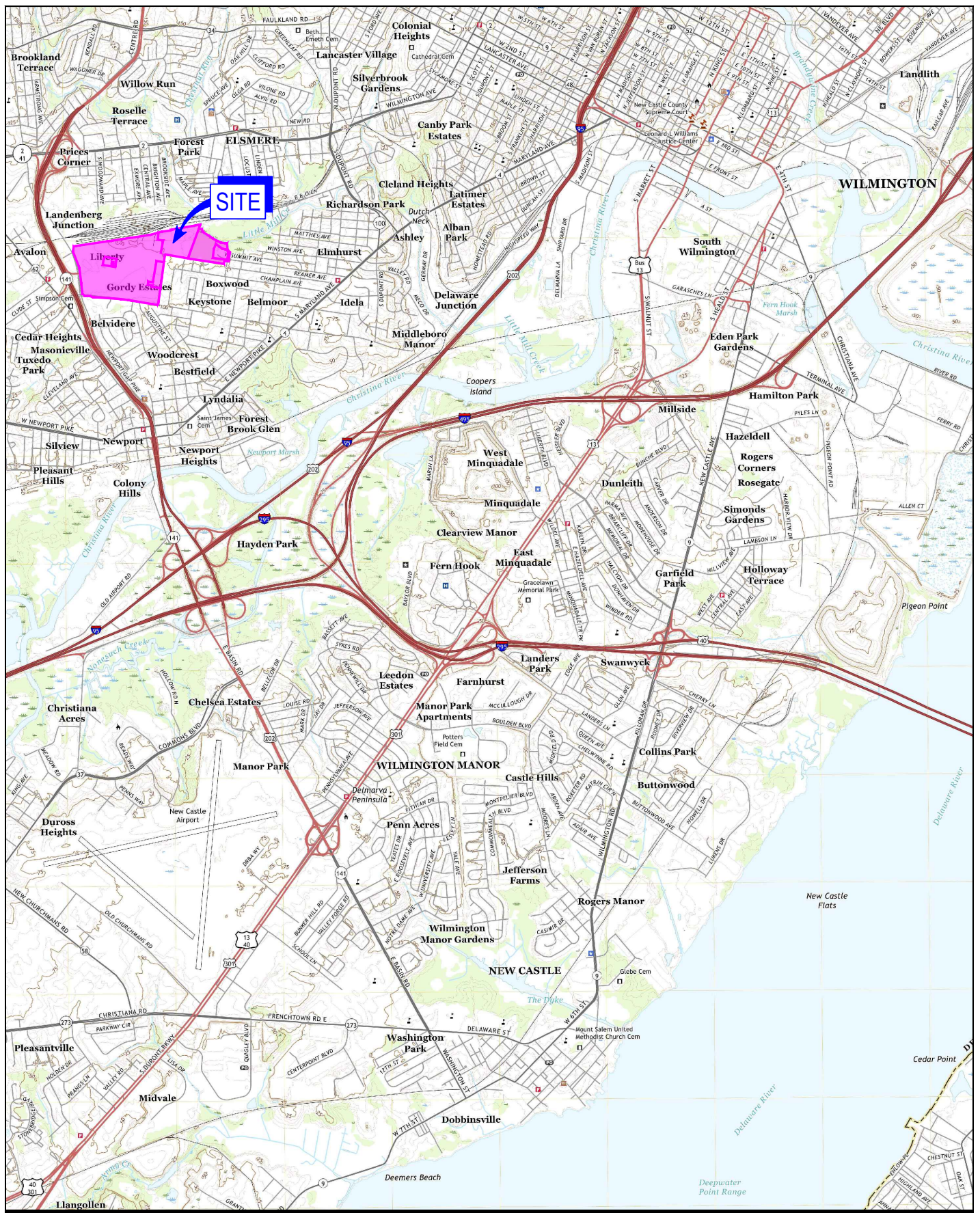
Red values exceed the Delaware DNREC Hazardous Substance Cleanup Act Groundwater Screening Levels, updated November 2023.

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

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

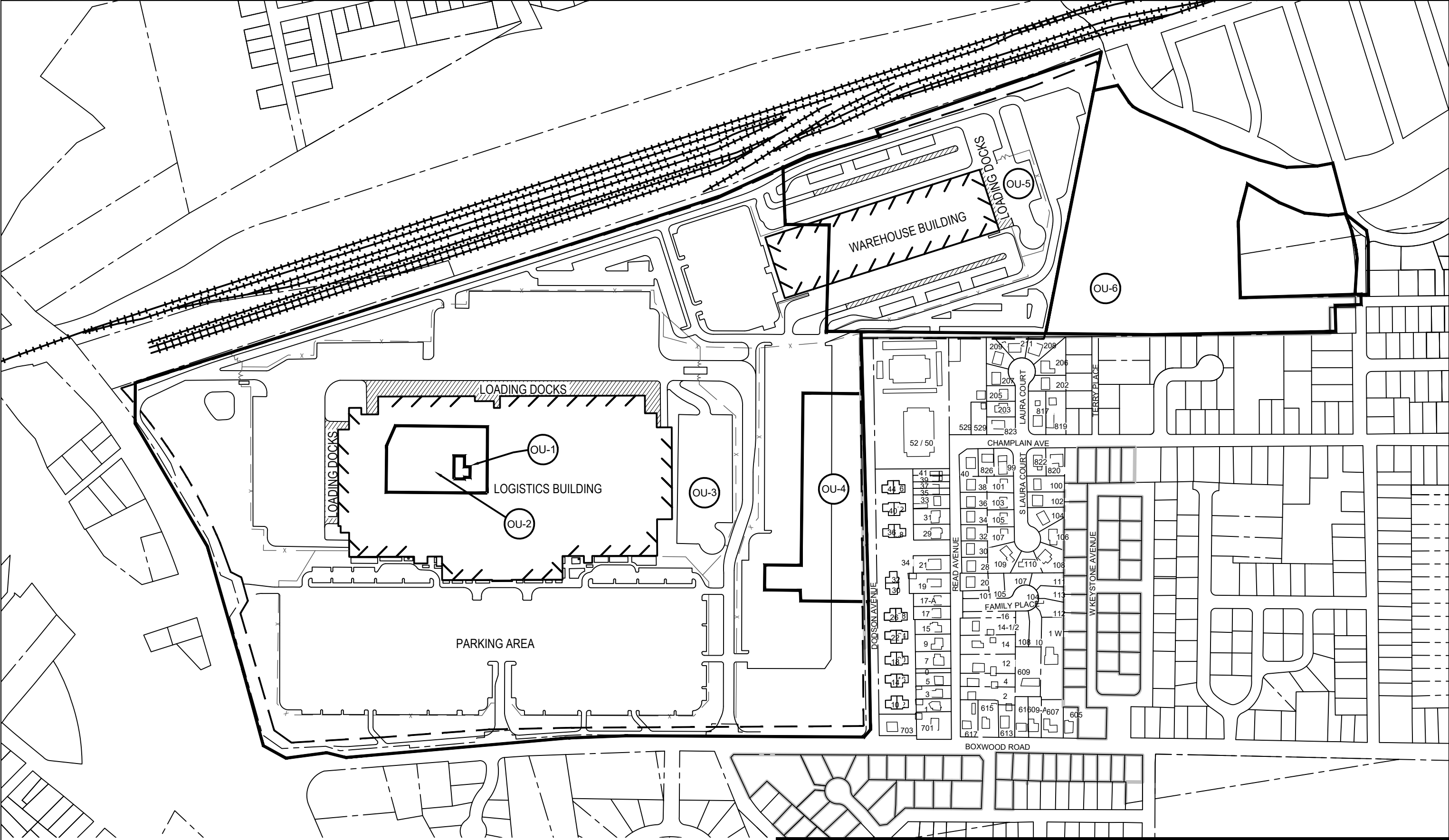


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WILMINGTON, DELAWARE
LTS GROUNDWATER MONITORING

Project No. 11222397
Date June 2023

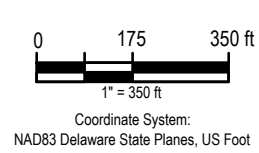
SITE LOCATION MAP

FIGURE 1



LEGEND

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



Coordinate System:
NAD83 Delaware State Planes, US Foot

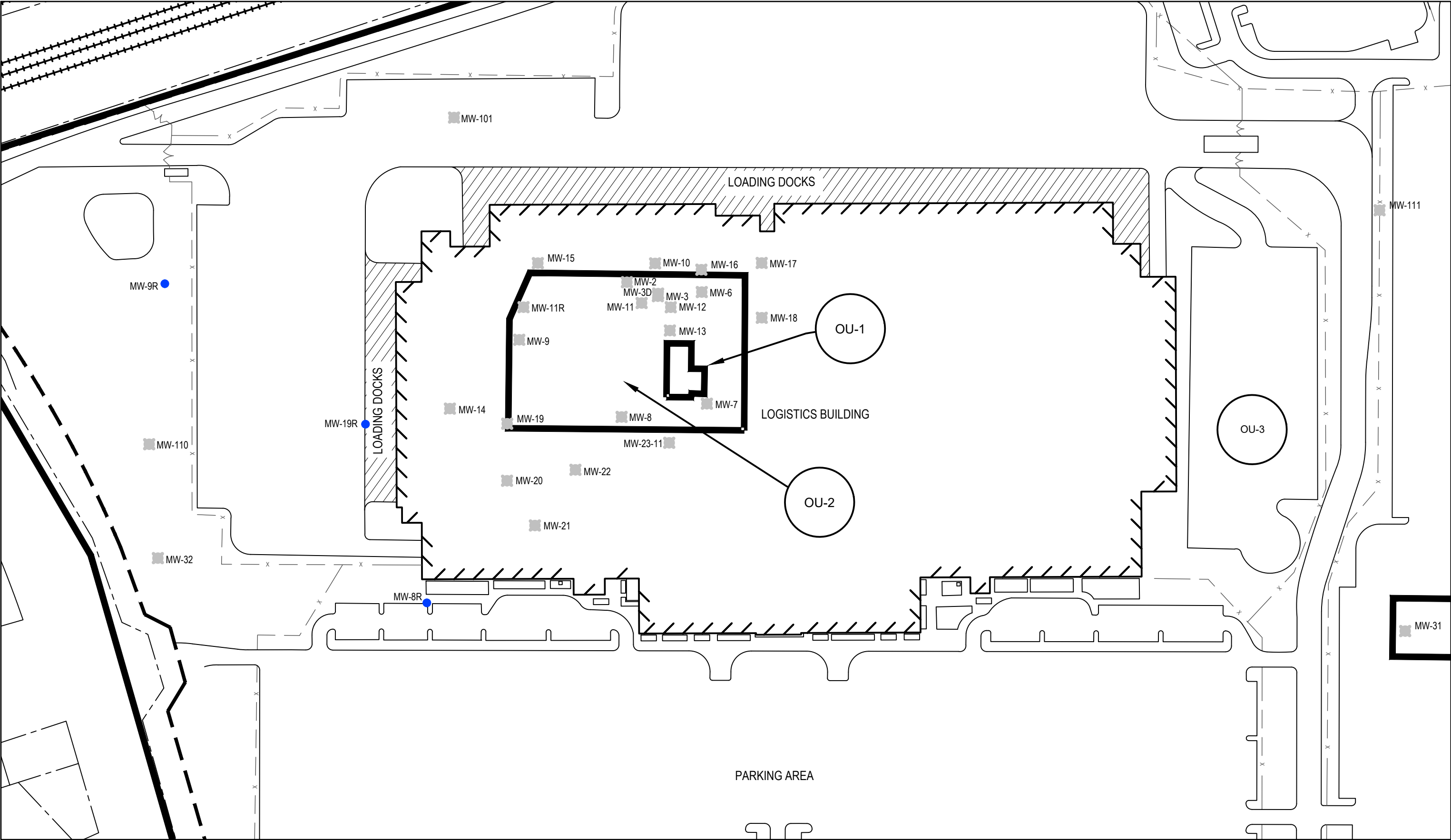


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LTS GROUNDWATER MONITORING

Project No. 11222397
Date June 2023

LOCATION OF OPERABLE UNITS

FIGURE 2



LEGEND

--- APPROXIMATE FACILITY BOUNDARY

--- OPERABLE UNIT (OU) BOUNDARY

++++ RAILWAY

-x-x- FENCELINE

MW-28 ABANDONED MONITORING WELL

MW-9R LTS MONITORING WELL

0 75 150 ft

1" = 150 ft

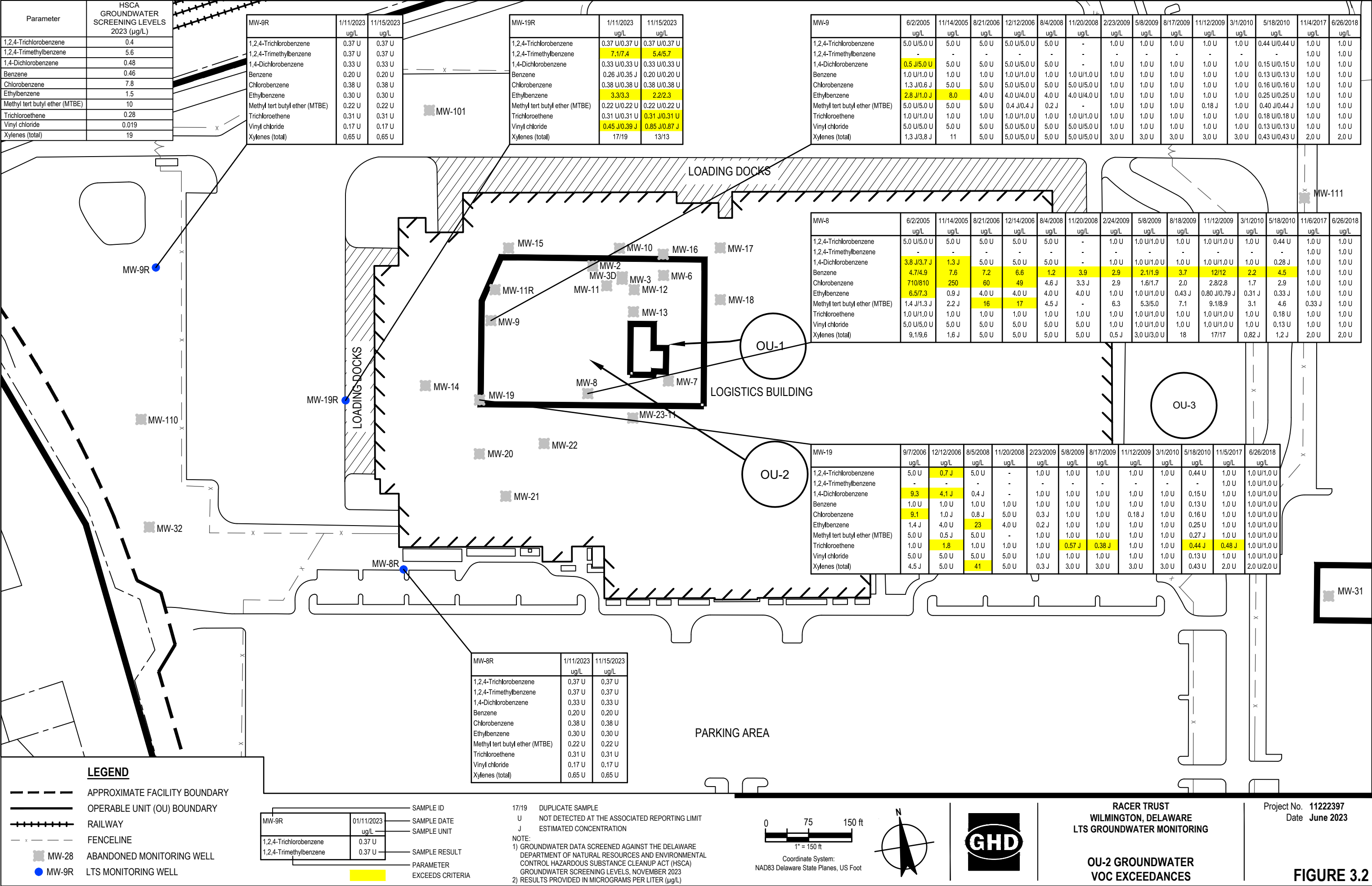
Coordinate System:
NAD83 Delaware State Planes, US Foot

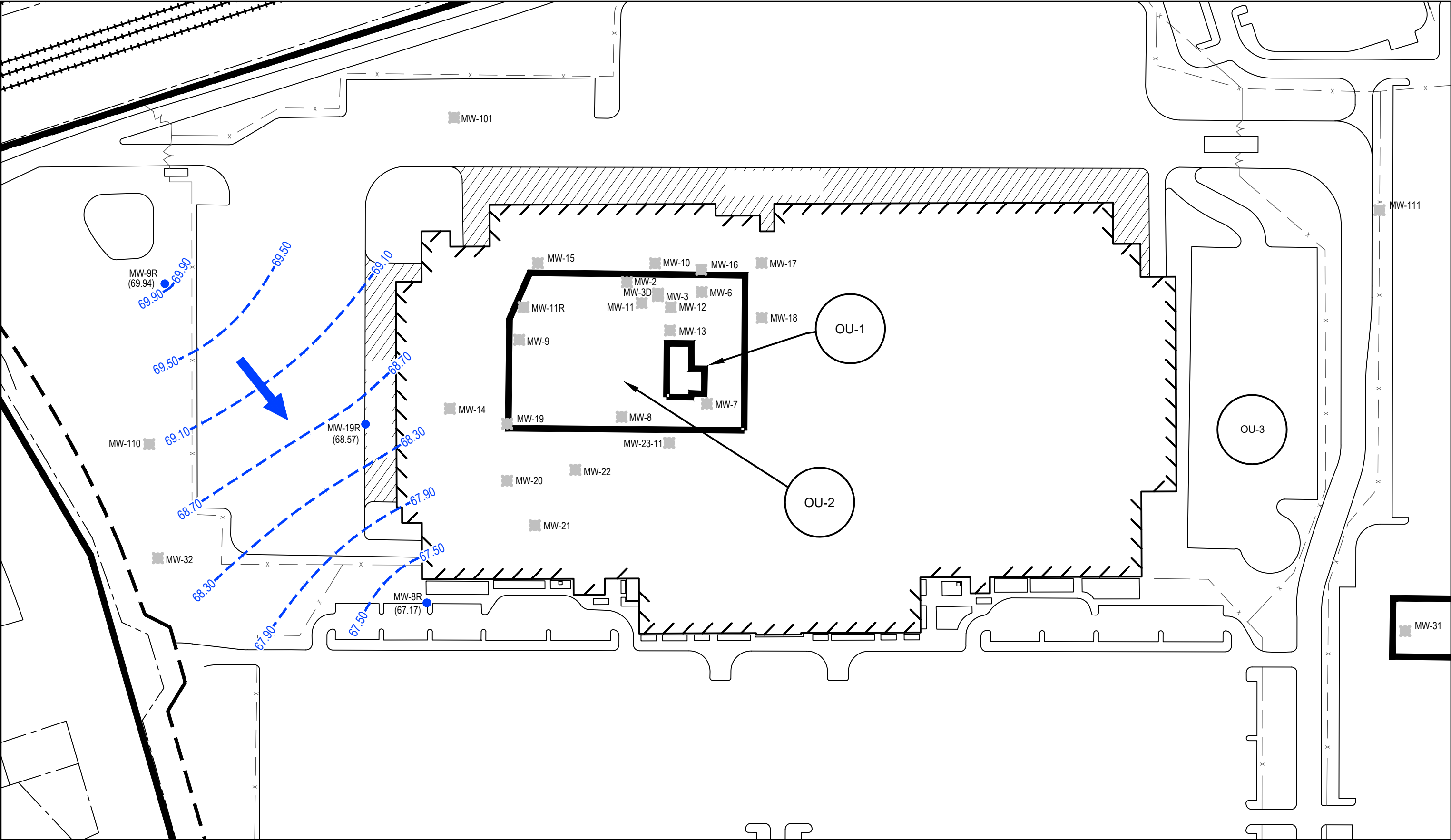
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OU-2 GROUNDWATER
MONITORING LOCATIONS

Project No. 11222397
Date June 2023

FIGURE 3.1





LEGEND

--- APPROXIMATE FACILITY BOUNDARY

— OPERABLE UNIT (OU) BOUNDARY

++++ RAILWAY

- x - FENCELINE

MW-28 ABANDONED MONITORING WELL

MW-9R (69.94) LTS MONITORING WELL

GROUNDWATER ELEVATION MEASURED ON NOVEMBER 14, 2023

68.70 ESTIMATED GROUNDWATER ELEVATION CONTOUR

→ ESTIMATED GROUNDWATER FLOW DIRECTION

0 75 150 ft

1" = 150 ft

Coordinate System:
NAD83 Delaware State Planes, US Foot

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LTS GROUNDWATER MONITORING

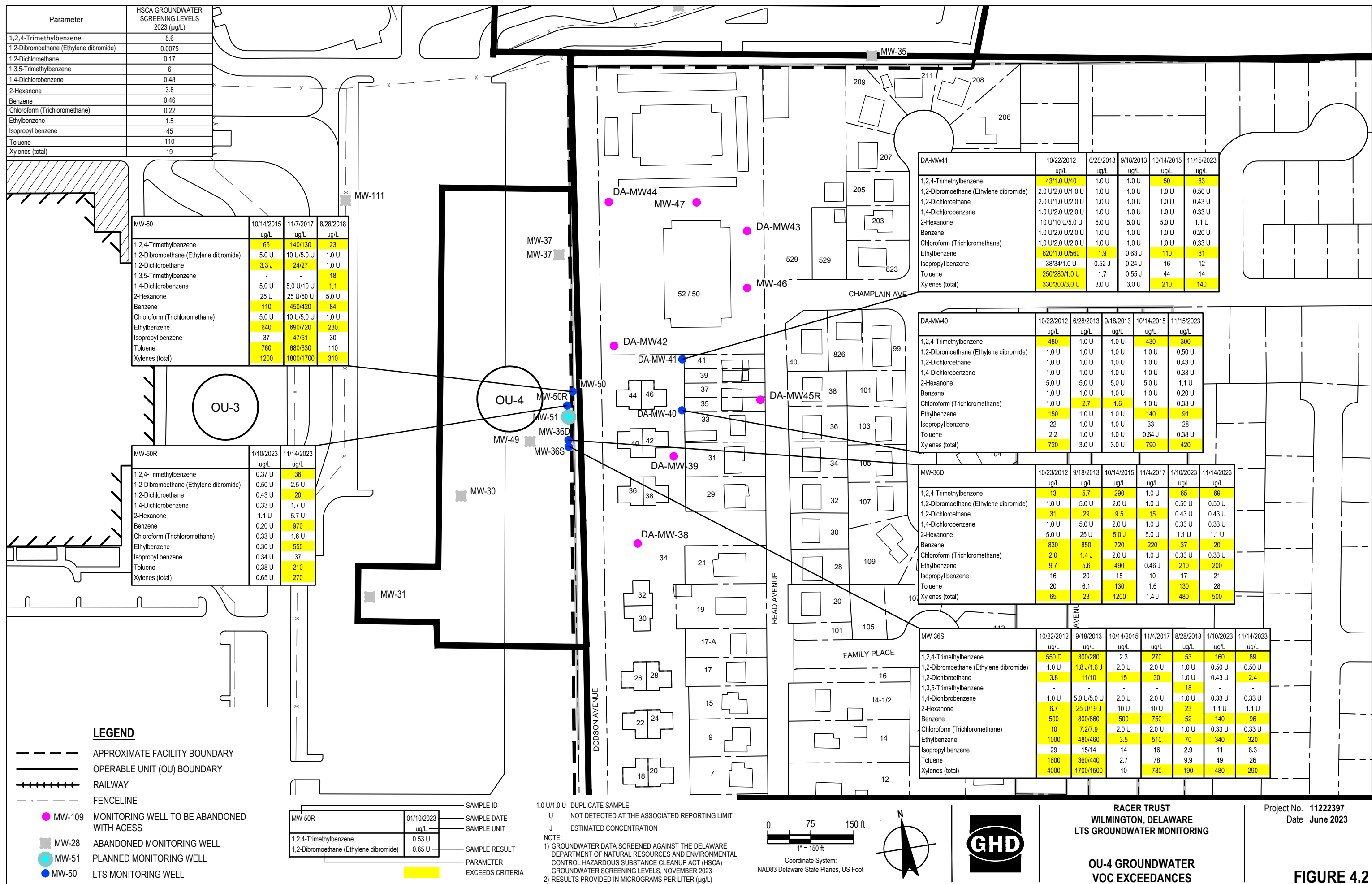
OU-2 GROUNDWATER CONTOURS

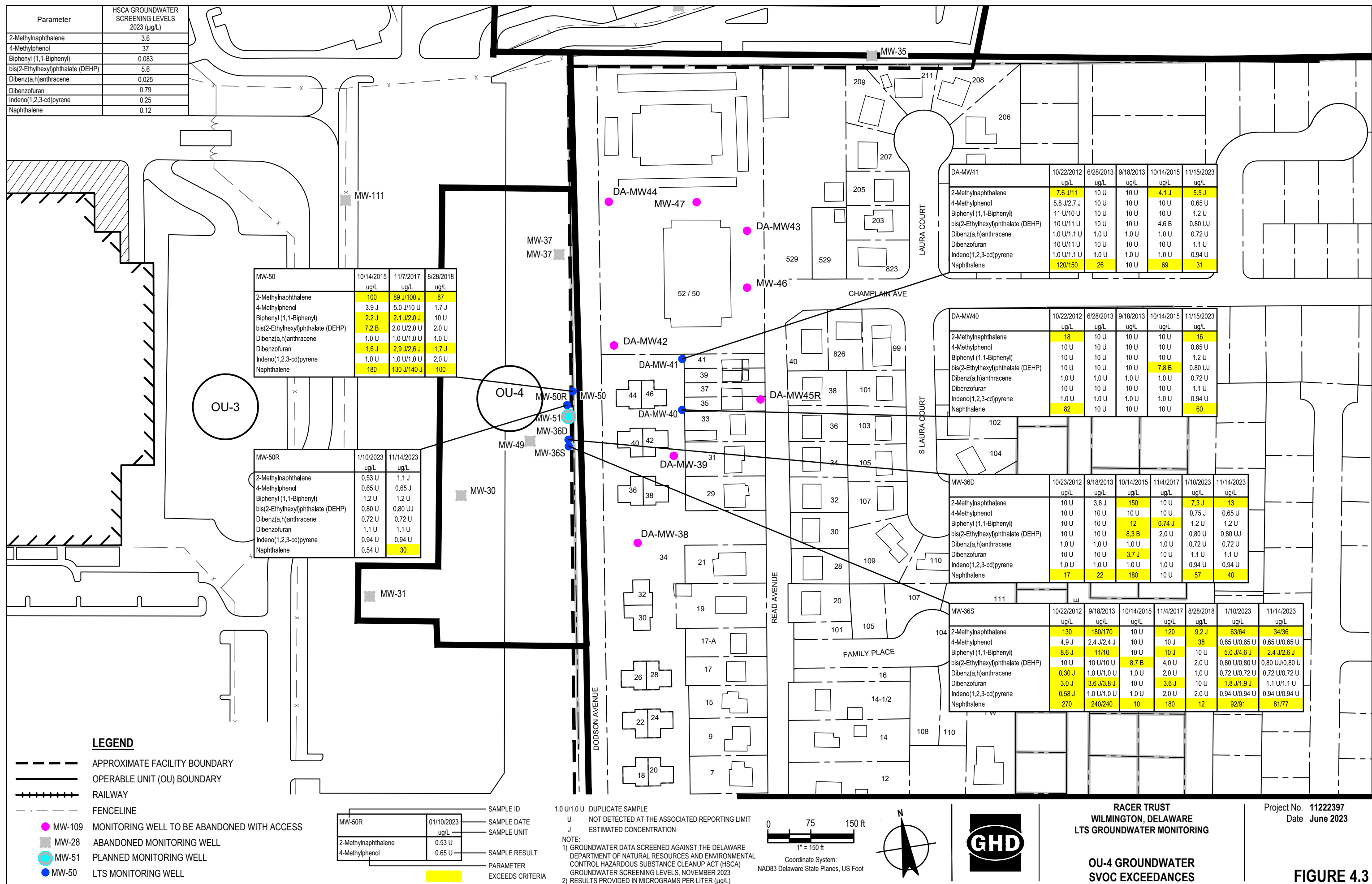
Project No. 11222397
Date June 2023

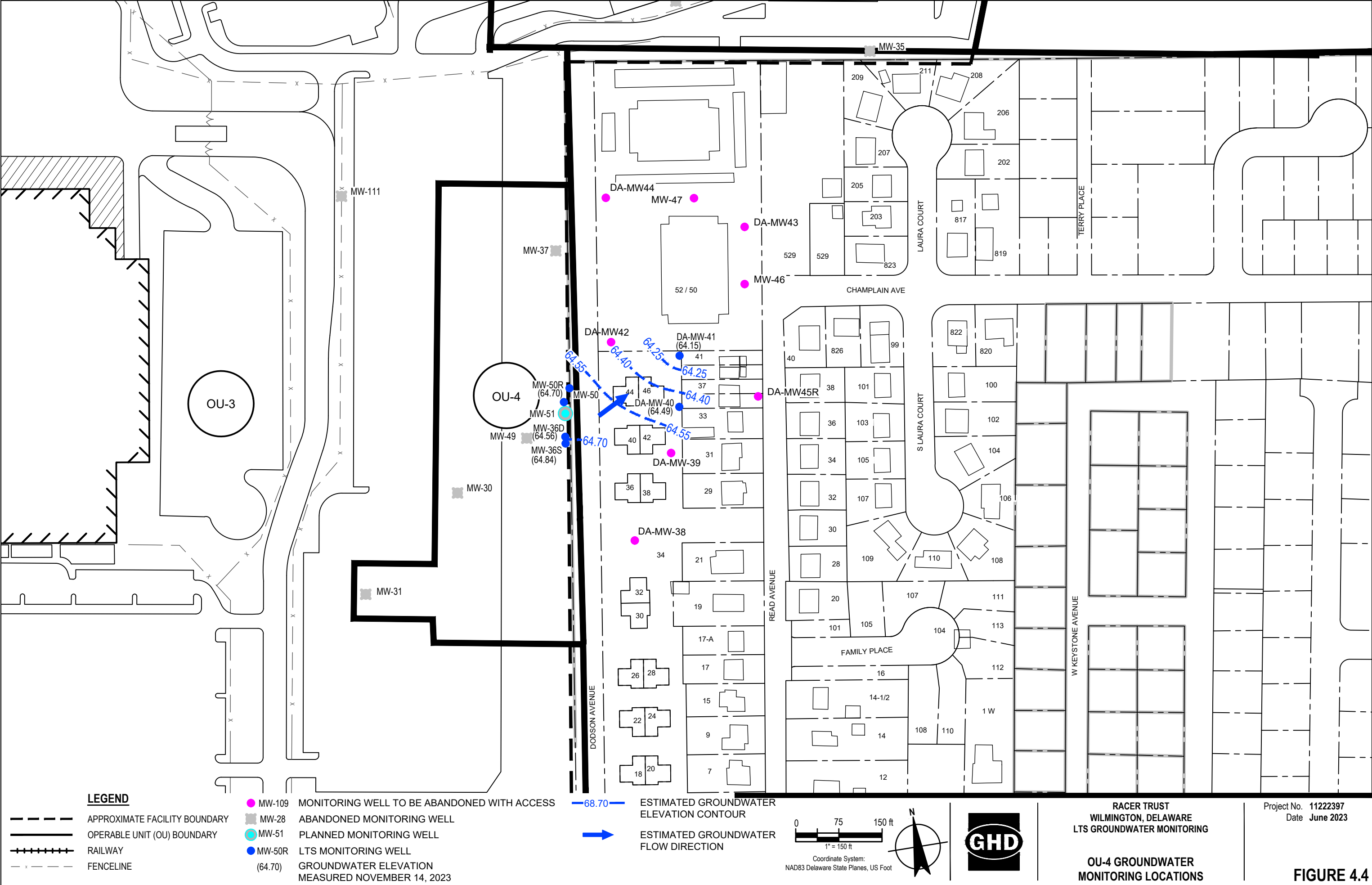
FIGURE 3.3

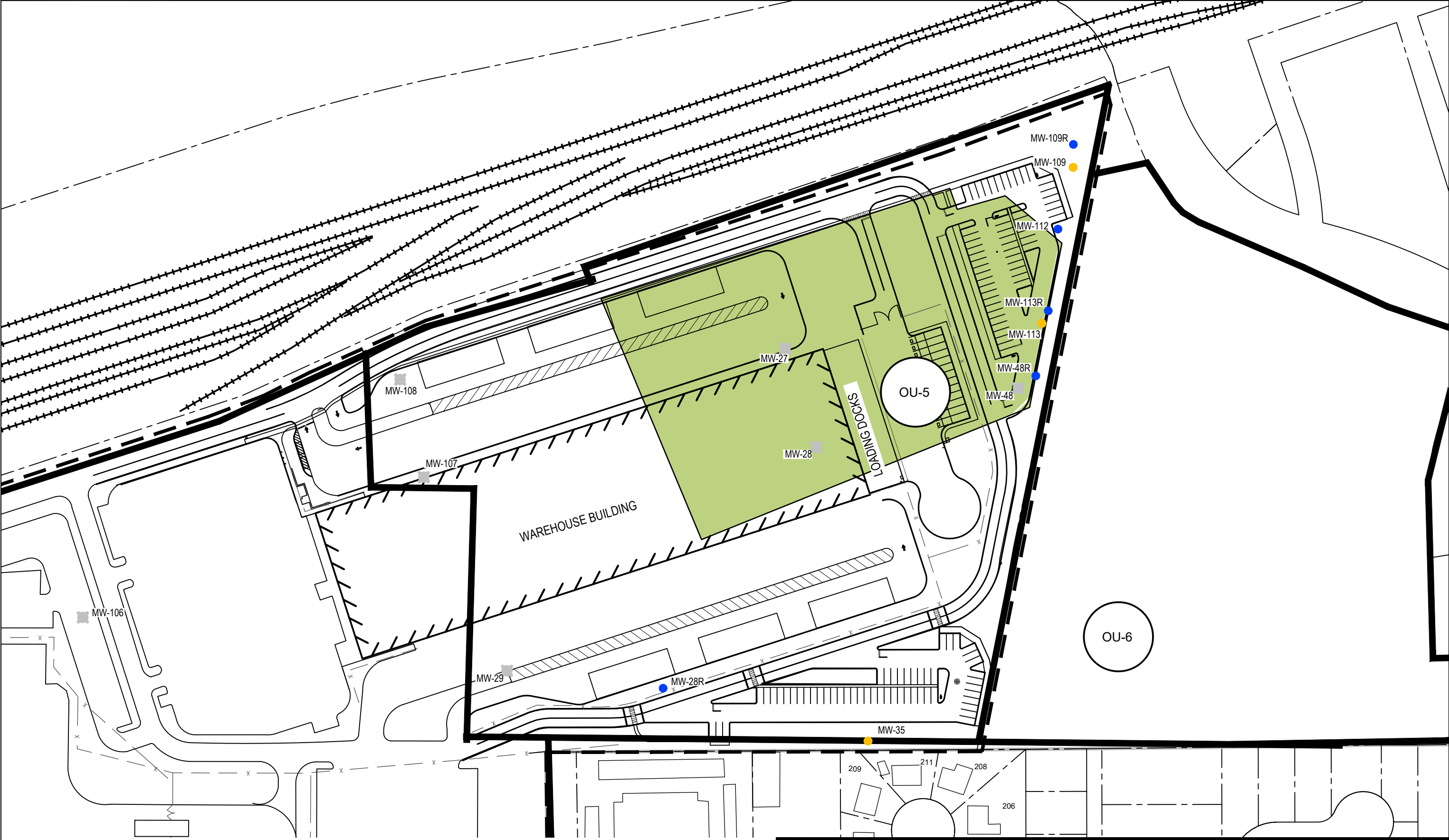


FIGURE 4.1





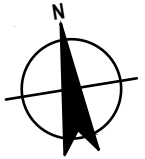
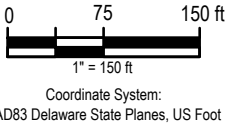




LEGEND

- | | | | |
|-------|-------------------------------|----------|------------------------------|
| --- | 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

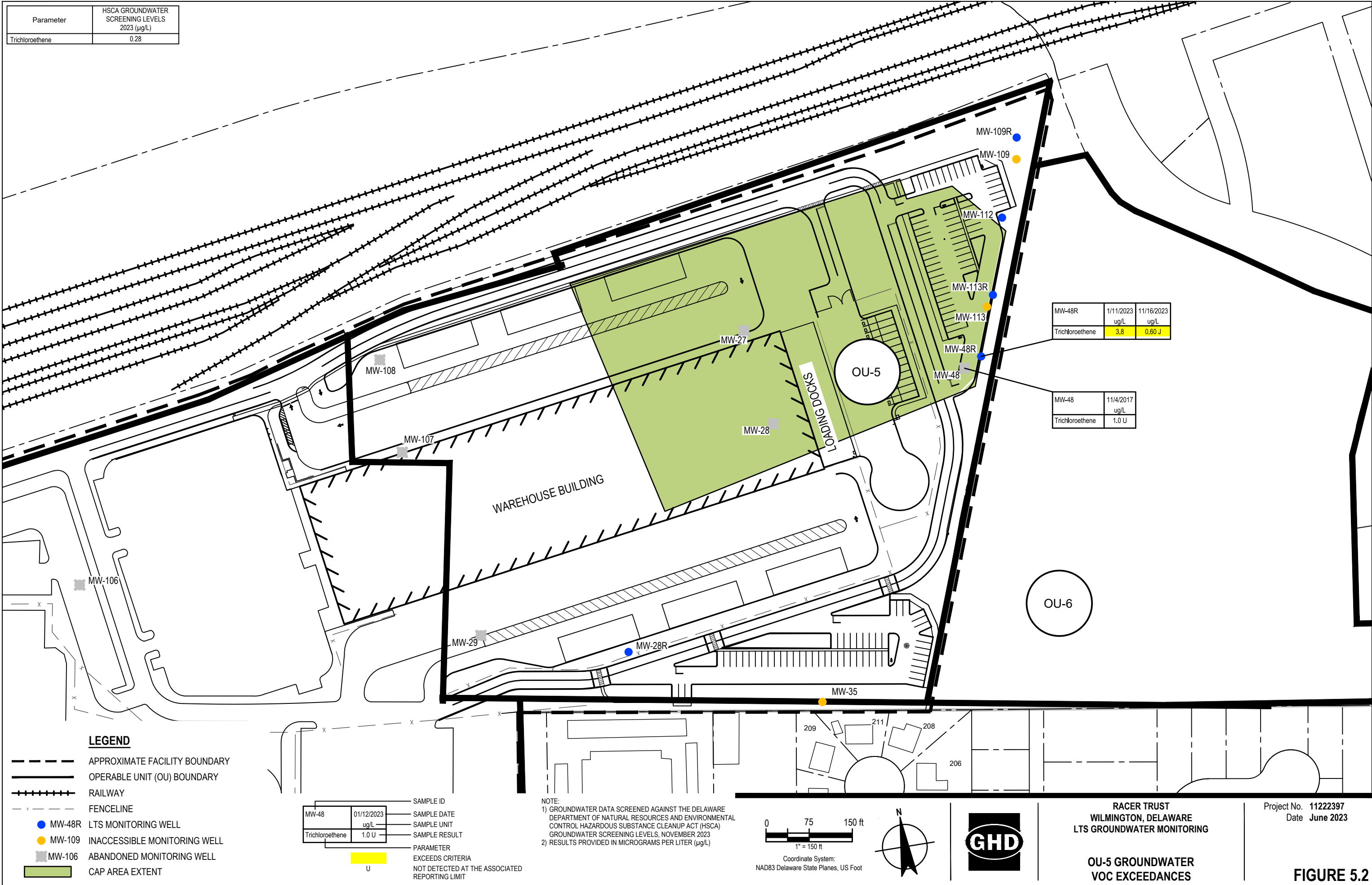


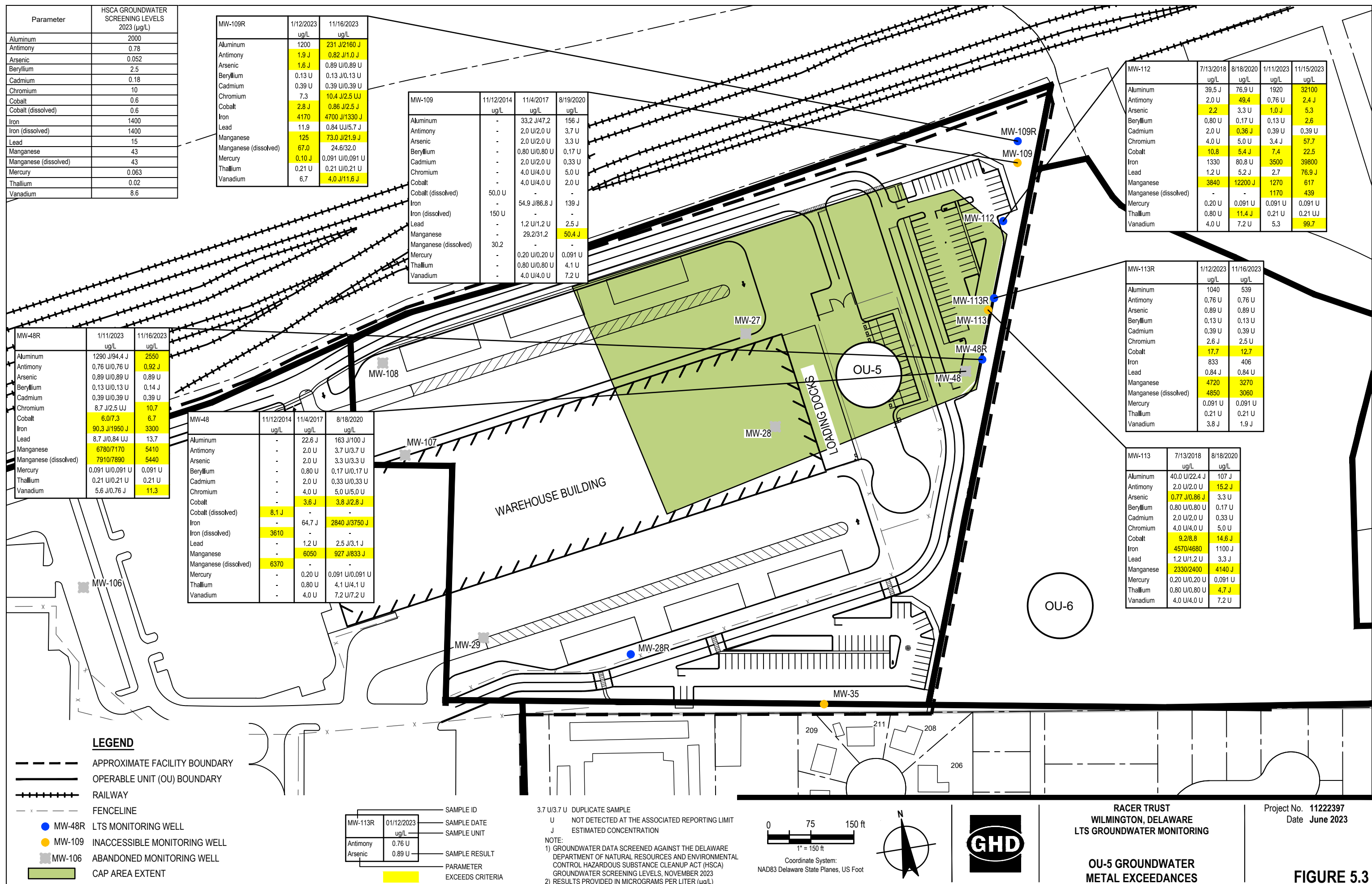
RACER TRUST
WILMINGTON, DELAWARE
LTS GROUNDWATER MONITORING

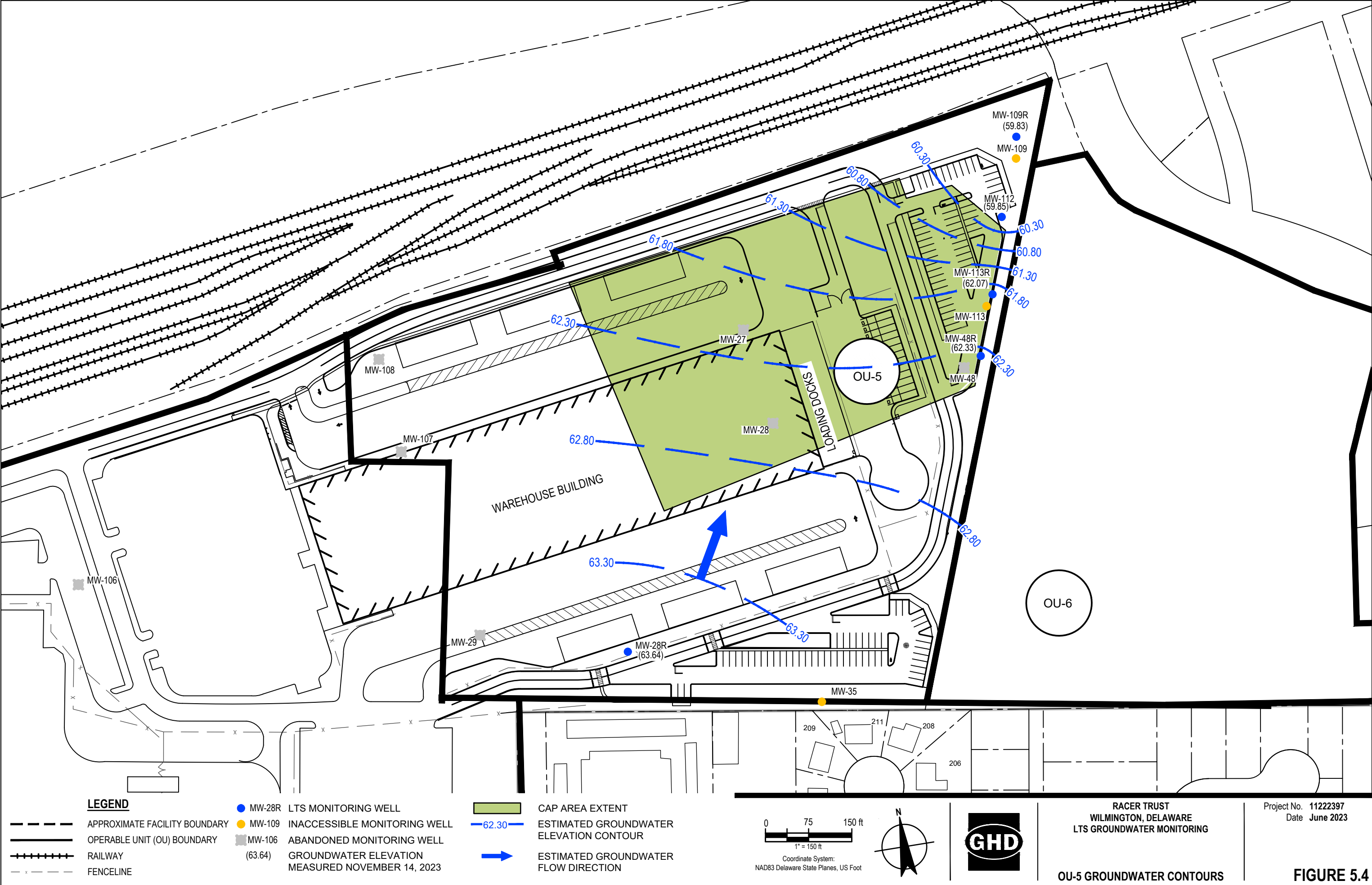
OU-5 GROUNDWATER
MONITORING LOCATIONS

Project No. 11222397
Date June 2023

FIGURE 5.1







Appendices

Appendix A

Well Condition Assessment



Project Number:
11222397

WELL INSPECTION - MW-8R

Date: 11/14/2023	Inspector: ZB	Location: Wilmington, DE, Wilmington, Delaware
---------------------	------------------	---

Well Dia. (inches): 2

General Condition: Good

Well Type:

Casing Material:

Conditions
Comments:

Repair Notes:

Photo:

Item Condition	
Access:	Well Lock: Good
Well Cap: Good	Well Pad/Surface:
Well ID: Good	Protective Curbing:
Bollard:	Containment Valve:



Project Number:
11222397

WELL INSPECTION - MW-9R

Date: 11/14/2023	Inspector: ZB	Location: Wilmington, DE, Wilmington, Delaware
---------------------	------------------	---

Well Dia. (inches): 2

General Condition: Good

Well Type:

Casing Material:

Conditions
Comments:

Repair Notes:

Photo:

Item Condition	
Access:	Well Lock: Good
Well Cap: Good	Well Pad/Surface:
Well ID: Good	Protective Curbing:
Bollard:	Containment Valve:



Date: 11/14/2023	Inspector: ZB	Location: Wilmington, DE, Wilmington, Delaware
---------------------	------------------	---

Well Dia. (inches):

General Condition: Good

Well Type:

Casing Material:

Conditions
Comments:

Repair Notes:

Photo:

Item Condition	
Access:	Well Lock: Good
Well Cap: Good	Well Pad/Surface:
Well ID: Good	Protective Curbing:
Bollard:	Containment Valve:



Project Number:
11222397

WELL INSPECTION - MW-28R

Date:

11/14/2023

Inspector:

Zachary Boston

Location:

, Wilmington, DE

Well Dia. (inches):

Access:

Well Lock: Good

General Condition: Good

Well Cap: Good

Well Pad/Surface:

Well Type:

Well ID: Good

Protective Curbing:

Casing Material:

Bollard:

Containment Valve:

**Conditions
Comments:**

Repair Notes:

Photo:



Date: 11/14/2023	Inspector: ZB	Location: Wilmington, DE, Wilmington, Delaware
---------------------	------------------	---

Well Dia. (inches): 1

General Condition: Good

Well Type:

Casing Material:

Conditions
Comments:

Repair Notes:

Photo:

Item Condition	
Access:	Well Lock: Good
Well Cap: Good	Well Pad/Surface:
Well ID: Good	Protective Curbing:
Bollard:	Containment Valve:



Project Number:
11222397

WELL INSPECTION - MW-36S

Date:

11/14/2023

Inspector:

Zachary Boston

Location:

Wilmington, DE

Well Dia. (inches): 1

General Condition: Good

Well Type:

Casing Material:

**Conditions
Comments:**

Repair Notes:

Photo:

Item Condition

Access:

Well Lock: Good

Well Cap: Good

Well Pad/Surface:

Well ID: Good

Protective Curbing:

Bollard:

Containment Valve:



Project Number:
11222397

WELL INSPECTION - DA-MW-38

Date:

11/14/2023

Inspector:

Zachary Boston

Location:

, Wilmington, DE

Well Dia. (inches):

Access:

Well Lock: Good

General Condition: Good

Well Cap: Good

Well Pad/Surface:

Well Type:

Well ID: Good

Protective Curbing:

Casing Material:

Bollard:

Containment Valve:

**Conditions
Comments:**

Repair Notes:

Photo:



Project Number:
11222397

WELL INSPECTION - DA-MW-39

Date: 11/16/2023	Inspector: ZB	Location: Wilmington, DE, Wilmington, Delaware
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Well Dia. (inches):

General Condition: Good

Well Type:

Casing Material:

**Conditions
Comments:**

Repair Notes:

Photo:

Item Condition	
Access: Located under grass, difficult to find	Well Lock: Good
Well Cap: Good	Well Pad/Surface:
Well ID: Good	Protective Curbing:
Bollard:	Containment Valve:





Project Number:
11222397

WELL INSPECTION - DA-MW40

Date:

11/14/2023

Inspector:

Zachary Boston

Location:

, Wilmington, DE

Well Dia. (inches):

Access:

Well Lock: Good

General Condition: Good

Well Cap: Good

Well Pad/Surface:

Well Type:

Well ID: Good

Protective Curbing:

Casing Material:

Bollard:

Containment Valve:

**Conditions
Comments:**

Repair Notes:

Photo:



Project Number:
11222397

WELL INSPECTION - DA-MW41

Date:
11/14/2023

Inspector:
Zachary Boston

Location:
, Wilmington, DE

Well Dia. (inches):

General Condition: Good

Well Type:

Casing Material:

**Conditions
Comments:**

Repair Notes:

Photo:

Item Condition

Access: **Well Lock:** Good

Well Cap: Good **Well Pad/Surface:**

Well ID: Good **Protective Curbing:**

Bollard: **Containment Valve:**



Project Number:
11222397

WELL INSPECTION - MW-48R

Date: 11/14/2023	Inspector: ZB	Location: Wilmington, DE, Wilmington, Delaware
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Well Dia. (inches): 0.75

General Condition: Good

Well Type:

Casing Material:

**Conditions
Comments:**

Repair Notes:

Photo:

Item Condition	
Access:	Well Lock: Good
Well Cap: Good	Well Pad/Surface:
Well ID: Good	Protective Curbing:
Bollard:	Containment Valve:



Project Number:
11222397

WELL INSPECTION - MW-50R

Date:
11/14/2023

Inspector:
ZB

Location:
Wilmington, DE, Wilmington, Delaware

Well Dia. (inches): 2

General Condition: Good

Well Type:

Casing Material:

Conditions
Comments:

Item Condition	
Access:	Well Lock: Good
Well Cap: Good	Well Pad/Surface:
Well ID: Good	Protective Curbing:
Bollard:	Containment Valve:

Repair Notes:

Photo:



Date: 11/14/2023	Inspector: Zachary Boston	Location: , N 630691.629 E 603493.433
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Well Dia. (inches): 0.75

General Condition: Good

Well Type:

Casing Material:

Conditions
Comments:

The concrete well pad is loose and needs to be replaced; missing bolt. This repair will be made concurrently with the abandonment of off Site monitoring wells no longer sampled in OU 4.

Repair Notes:

Photo:

Item Condition	
Access:	Well Lock:
Well Cap:	Well Pad/Surface:
Well ID: MW-109R	Protective Curbing:
Bollard:	Containment Valve:



Project Number:

11222397

WELL INSPECTION - MW-112

Date: 11/14/2023	Inspector: ZB	Location: Wilmington, DE, Wilmington, Delaware
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Well Dia. (inches): 2

General Condition: Good

Well Type:

Casing Material:

Conditions
Comments:

Repair Notes:

Photo:

Item Condition	
Access:	Well Lock: Good
Well Cap: Good	Well Pad/Surface:
Well ID: Good	Protective Curbing:
Bollard:	Containment Valve:



Project Number:
11222397

WELL INSPECTION - MW-113R

Date:

11/14/2023

Inspector:

Zachary Boston

Location:

, Wilmington, DE

Well Dia. (inches): 0.75

General Condition: Good

Well Type:

Casing Material:

**Conditions
Comments:**

Repair Notes:

Photo:

Item Condition

Access:

Well Lock: Good

Well Cap: Good

Well Pad/Surface:

Well ID: Good

Protective Curbing:

Bollard:

Containment Valve:

Appendix B

Low Flow Sampling Purge Logs



Monitoring Well Data:

Screen Material: UNKNOWN

Constructed Well Depth:

Water Column Length: 4.78

Measurement Type: NA

Screen Start Depth: 9 ft BGS

Measured Well Depth: 20.1

Ref Point Elev: ft

Sampling Method: Bladder pump

Screen End Depth: 19 ft BGS

Static Water Depth: 15.32

Static Water Elev: ft

Purging Start Time: 10:20

Screen Length: 10 ft BGS

Well Diameter: 2.0 in

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	Column Not Applicable	Column Not Applicable	Odor (describe)	Notes
			Precision Required	< 0.4	± 0.1	±% 3	± 5 or ± 10	±% 10	±% 10 or < 5	± 10					
10:20		275	15.36	0.04	6.41	9.89	0.982	8.56	1000	194					
10:25	0.38	275		NA	5.82	18.56	0.619	2.78	688	194					
10:30	0.74	275	15.44	0.12	5.78	19.06	0.544	2.44	273	188					
10:36	1.18	275		NA	5.74	19.31	0.499	2.00	85.3	187					
10:40	1.48	275	15.43	0.11	5.72	19.36	0.477	1.69	31.3	187					
10:45	1.84	275		NA	5.69	19.51	0.456	1.51	4.3	188					
10:50	2.19	275	15.44	0.12	5.67	19.40	0.441	1.49	5	188					
10:55	2.58	275		NA	5.65	19.5	0.426	1.53	4.2	189					

Field Parameters:

Comments: Took rinseblank off bladder pump.

Total Volume Purged: 2.58 gal

PID

0.0

Sample ID	Type	Matrix	Comp/Grab	Date/Time	Filtered	Analysis	Containers
RB-11222397-111523-ZB-08	EB	WG	G	11/15 9:30	No	VOCs	3
GW-11222397-111523-ZB-09	N	WG	G	11/15 11:00	No	VOCs	9



Monitoring Well Data:

Screen Material: UNKNOWN

Constructed Well Depth: 6.4

Measurement Type:

Screen Start Depth: 9 ft BGS

Measured Well Depth: 19.6

Ref Point Elev: ft

Sampling Method: Bladder pump

Screen End Depth: 19 ft BGS

Static Water Depth: 13.2

Static Water Elev: ft

Purging Start Time: 12:20

Screen Length: 10 ft BGS

Well Diameter: 2.0

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	Column Not Applicable	Column Not Applicable	Odor (describe)	Notes
			Precision Required	< 0.4	± 0.1	±% 3	± 5 or ± 10	±% 10	±% 10 or < 5	± 10					
12:20		250	13.26	0.06	6.43	19.5	0.378	6.58	1000	-28					
12:25	0.34	250		NA	5.25	17.0	0.394	2.03	1000	111					
12:30	0.63	250	13.28	0.08	5.21	16.9	0.396	2.17	1000	127					
12:35	0.99	250		NA	5.22	17.1	0.393	2.06	1000	140					
12:40	1.32	250	13.28	0.08	5.22	17.2	0.392	2.09	1000	142					
12:45	1.66	250		NA	5.22	17.2	0.393	2.08	1000	145					

Field Parameters:

Comments:

Total Volume Purged: 1.35 gal

PID

0.0

Sample ID	Type	Matrix	Comp/Grab	Date/Time	Filtered	Analysis	Containers
GW-11222397-111523-ZB-12	N	WG	G	11/15 12:55	No	VOCs	3



Monitoring Well Data:

Screen Material: UNKNOWN

Constructed Well Depth: 8.69

Measurement Type:

Screen Start Depth: 9 ft BGS

Measured Well Depth: 19.3

Ref Point Elev: ft

Sampling Method: Bladder pump

Screen End Depth: 19 ft BGS

Static Water Depth: 10.61

Static Water Elev: ft

Purging Start Time: 11:20

Screen Length: 10 ft BGS

Well Diameter: 2.0 in

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	Column Not Applicable	Column Not Applicable	Odor (describe)	Notes
			Precision Required	< 0.4	± 0.1	±% 3	± 5 or ± 10	±% 10	±% 10 or < 5	± 10					
11:20		300	10.63	0.02	6.04	18.8	0.497	1.73	407	44					
11:40	1.61	300		NA	6.15	18.9	0.496	0.00	248	-3					
11:45	2.04	300	10.65	0.04	6.33	19.0	0.485	0.00	130	-30					
11:51	2.47	300		NA	6.39	18.9	0.484	0.00	82.7	-35					
11:55	2.90	300	10.65	0.04	6.42	19.0	0.484	0.00	33.8	-37					
12:00	3.33	300		NA	6.40	19.0	0.484	0.00	33.1	-38					
12:05	3.76	300	10.65	0.04	6.41	19.0	0.484	0.00	32.2	-38					

Field Parameters:

Comments:

Total Volume Purged: 3.76 gal

PID

1.0

Sample ID	Type	Matrix	Comp/Grab	Date/Time	Filtered	Analysis	Containers
GW-11222397-111523-ZB-10	N	WG	G	11/15 12:15	No	VOCs	3
GW-11222397-111523-ZB-11	N	WG	G	11/15 12:25	No	VOCs	3



Monitoring Well Data:

Screen Material: UNKNOWN

Constructed Well Depth: 22.88

Measurement Type:

Screen Start Depth: 35 ft BGS

Measured Well Depth: 39

Ref Point Elev: ft

Sampling Method: Peristaltic pump

Screen End Depth: 40 ft BGS

Static Water Depth: 16.12

Static Water Elev: ft

Purging Start Time: 14:28

Screen Length: 5 ft BGS

Well Diameter: 1 in

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	Column Not Applicable	Column Not Applicable	Odor (describe)	Notes
			Precision Required	< 0.4	± 0.1	±% 3	± 5 or ± 10	±% 10	±% 10 or < 5	± 10					
14:28		200		NA	6.77	18.4	0.534	0.00	422	-33					
14:35	0.37	200	16.09	-.03	6.63	18.07	0.534	0.00	305	-85					
14:40	0.61	200		NA	6.57	18.0	0.530	0.00	230	-92					
14:45	0.90	200	16.10	-.02	6.57	18.0	0.533	0.00	235	-99					
14:50	1.18	200		NA	6.55	17.99	0.534	0.00	229	-101					
14:55	1.40	200	16.10	-.02	6.56	17.91	0.533	0.00	238	-104					
15:00	1.77	200		NA	6.56	17.94	0.534	0.00	225	-106					

Field Parameters:

Comments:

Total Volume Purged: 1.53 gal

PID

0.9

Sample ID	Type	Matrix	Comp/Grab	Date/Time	Filtered	Analysis	Containers
GW-11222397-231114-ZB-05	N	WG	G	11/14 15:00	No	VOCs, SVOCs	5



Well No.: MW-36S

Sampling Event: 202311-WG-O

SSOW Code:

Water Sampling Field Measurement Record Form

Project Number: 11222397

Project Name: RACER Wilmington

Personnel: ES

GHD

Date: 11/14/2023 12:55:11

Monitoring Well Data:

Screen Material: UNKNOWN

Constructed Well Depth:

Water Column Length:

Measurement Type:

Screen Start Depth: 13 ft BGS

Measured Well Depth:

Ref Point Elev: ft

Sampling Method: Peristaltic pump

Screen End Depth: 23 ft BGS

Static Water Depth: 15.94

Static Water Elev: ft

Purging Start Time: 13:00

Screen Length: 10 ft BGS

Well Diameter: 1 in

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	Column Not Applicable	Column Not Applicable	Odor (describe)	Notes
			Precision Required	< 0.4	± 0.1	±% 3	± 5 or ± 10	±% 10	±% 10 or < 5	± 10					
13:00	0.00	200		NA	0	14.43	0	13.71	534	423					
13:05	0.24	200	15.94	0	8.35	17.80	0.661	2.99	608	-92					
13:10	0.50	200		NA	6.71	18.49	0.630	1.83	151	-77					
13:15	0.76	200	16.50	0.56	6.43	18.71	0.619	1.25	70.3	-78					
13:20	1.03	200		NA	6.37	18.83	0.631	1.82	140	-80					
13:25	1.29	200	16.52	0.58	6.37	18.84	0.658	1.58	181	-85					
13:30	1.55	200		NA	6.37	19.03	0.668	0.45	205	-87					
13:35	1.94	200	16.56	0.62	6.38	18.88	0.695	0.00	144	-90					
13:40	2.21	200		NA	6.38	18.89	0.698	0.00	136	-91					
13:45	2.48	200	16.6	0.66	6.39	18.95	0.711	0.00	130	-92					
13:50	2.75	200		NA	6.39	19.05	0.721	0.00	128	-93					

Field Parameters:

Comments:

Total Volume Purged: 2.75 gal

PID 5.2

Sample ID	Type	Matrix	Comp/Grab	Date/Time	Filtered	Analysis	Containers
GW-11222397-111423-ES-02	N	WG	G	11/14 13:06	No	VOCs, SVOCs	5
GW-11222397-111423-ES-03	N	WG	G	11/14 13:06	No	SVOCs	2



Monitoring Well Data:

Screen Material:

Constructed Well Depth:

Water Column Length:

Measurement Type:

Screen Start Depth:

Measured Well Depth:

Ref Point Elev:

Sampling Method:

Screen End Depth:

Static Water Depth: 15.1

Static Water Elev:

Purging Start Time: 11:35

Screen Length:

Well Diameter:

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	Column Not Applicable	Column Not Applicable	Odor (describe)	Notes
			Precision Required	< 0.4	± 0.1	±% 3	± 5 or ± 10	±% 10	±% 10 or < 5	± 10					
11:35		200	15.10	0	5.46	17.21	0.147	0.06	0	80					
11:40	0.13	200		NA	5.52	17.62	0.137	0.00	0	107					
11:45	0.21	200	15.10	0	5.41	17.51	0.137	0.00	656	104					
11:50	0.28	200		NA	5.47	17.44	0.138	0.00	387	101					
11:55	0.38	200	15.10	0	5.50	17.20	0.139	0.00	241	98					
12:00	0.55	200		NA	5.51	17.16	0.140	0.00	167	97					
12:05	0.54	200	15.10	0	5.51	17.14	0.140	0.00	150	97					
12:10	0.33	200		NA	5.52	17.15	0.141	0.00	142	96					
12:15	-0.07	200	15.10	0	5.52	17.13	0.141	0.00	136	96					

Field Parameters:

Comments:

Total Volume Purged: -.07 gal

PID

1.8

Sample ID	Type	Matrix	Comp/Grab	Date/Time	Filtered	Analysis	Containers
GW-11222397-111523-CT-06-1215	N	WG	G	11/15 12:15			5



Monitoring Well Data:

Screen Material:

Constructed Well Depth:

Water Column Length:

Measurement Type:

Screen Start Depth:

Measured Well Depth:

Ref Point Elev:

Sampling Method:

Screen End Depth:

Static Water Depth: 14.2

Static Water Elev:

Purging Start Time: 10:15

Screen Length:

Well Diameter:

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	Column Not Applicable	Column Not Applicable	Odor (describe)	Notes
			Precision Required	< 0.4	± 0.1	±% 3	± 5 or ± 10	±% 10	±% 10 or < 5	± 10					
10:15		200	14.20	0	6.99	13.09	0.268	2.81	0	193					
10:20	2.34	200		NA	6.04	14.55	0.277	0.00	0	204					
10:25	4.44	200	14.20	0	6.16	15.37	0.284	0.00	0	177					
10:30	6.31	200		NA	6.08	15.66	0.284	0.00	0	164					
10:35	7.95	200	14.20	0	6.07	15.86	0.285	0.00	0	148					
10:40	9.36	200		NA	6.07	15.93	0.288	0.00	0	140					
10:45	10.53	200	14.20	0	6.07	15.89	0.294	0.00	0	134					
10:50	11.47	200		NA	6.00	15.95	0.296	0.00	0	129					

Field Parameters:

Comments:

Total Volume Purged: 11.47 gal

PID 0.3

Sample ID	Type	Matrix	Comp/Grab	Date/Time	Filtered	Analysis	Containers
GW-11222397-231115-CT-1050	N	WG	G	11/15 10:57			9



Monitoring Well Data:

Screen Material: UNKNOWN

Constructed Well Depth: 6.95

Measurement Type:

Screen Start Depth: 6 ft BGS

Measured Well Depth: 15.4

Ref Point Elev: ft

Sampling Method: Peristaltic pump

Screen End Depth: 16 ft BGS

Static Water Depth: 8.45

Static Water Elev: ft

Purging Start Time: 11:40

Screen Length: 10 ft BGS

Well Diameter: 0.75

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	Column Not Applicable	Column Not Applicable	Odor (describe)	Notes
			Precision Required	< 0.4	± 0.1	±% 3	± 5 or ± 10	±% 10	±% 10 or < 5	± 10					
11:40		150	9.04	0.59	6.96	19.23	0.735	2.58	325	138					
11:45	0.23	150		NA	6.58	18.9	0.744	1.55	230	151					
11:50	0.42	150	9.28	0.83	6.28	18.75	0.763	0.77	258	165					
11:55	0.61	150		NA	6.26	18.71	0.769	0.51	229	167					
12:00	0.80	150	9.28	0.83	6.25	18.6	0.772	0.00	225	169					
12:05	1.00	150		NA	6.25	18.6	0.772	0.00	224	169					
12:10	1.20	150	9.28	0.83	6.24	18.6	0.772	0.00	219	169					

Field Parameters:

Comments:

Total Volume Purged: 1.2 gal

PID 0.0

Sample ID	Type	Matrix	Comp/Grab	Date/Time	Filtered	Analysis	Containers
GW-11222397-111623-ZB-15	N	WG	G	11/16 12:20	Yes	VOCs, Metals, Methane (Dissolved)	5



Monitoring Well Data:

Screen Material: UNKNOWN

Constructed Well Depth: 8.86

Measurement Type:

Screen Start Depth: 10 ft BGS

Measured Well Depth: 24.5

Ref Point Elev: ft

Sampling Method:

Screen End Depth: 25 ft BGS

Static Water Depth: 15.64

Static Water Elev: ft

Purging Start Time: 13:31

Screen Length: 15 ft BGS

Well Diameter: 2.0

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	Column Not Applicable	Column Not Applicable	Odor (describe)	Notes
			Precision Required	< 0.4	± 0.1	±% 3	± 5 or ± 10	±% 10	±% 10 or < 5	± 10					
13:31	0.00	125		NA	5.92	16.1	0.708	3.33	0	88					
13:35	0.14	125	15.86	0.22	7.26	18.99	0.698	0.00	0	29					
13:40	0.30	125		NA	6.91	18.92	0.714	0.00	0	-22					
13:45	0.46	125	15.86	0.22	6.81	18.90	0.724	0.00	0	-47					
13:50	0.63	125		NA	6.84	18.9	0.728	0.00	0	-54					
13:55	0.80	125	15.87	0.23	6.81	18.8	0.728	0.00	0	-58					
14:00	0.95	125		NA	6.78	18.8	0.729	0.00	0	-63					

Field Parameters:

Comments: turbidity reading zero, looks higher. Purge water is cloudy. RB taken on IP probe

Total Volume Purged: .95 gal

PID 0.3

Sample ID	Type	Matrix	Comp/Grab	Date/Time	Filtered	Analysis	Containers
RB-11222397-111423-ZB-01	EB	WG	G	11/14 13:00	No	SVOCs	2
GW-11222397-111423-ZB-04	N	WG	G	11/14 14:00	No	VOCs, SVOCs	5



Monitoring Well Data:

Screen Material: UNKNOWN

Constructed Well Depth:

Water Column Length:

Measurement Type:

Screen Start Depth: 7 ft BGS

Measured Well Depth:

Ref Point Elev: ft

Sampling Method:

Screen End Depth: 17 ft BGS

Static Water Depth: 11.4

Static Water Elev: ft

Purging Start Time: 11:40

Screen Length: 10 ft BGS

Well Diameter: 0.75

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	Column Not Applicable	Column Not Applicable	Odor (describe)	Notes
			Precision Required	< 0.4	± 0.1	±% 3	± 5 or ± 10	±% 10	±% 10 or < 5	± 10					
11:40		200	11.40	0	6.52	18.38	0.375	4.00	0	194					
11:45	0.18	200		NA	6.45	18.11	0.384	5.84	0	197					
11:50	0.19	200	11.40	0	6.52	18.02	0.394	5.97	0	196					
11:55	0.31	200		NA	6.48	18.17	0.393	7.50	0	200					
12:00	0.57	200	11.40	0	6.57	18.16	0.400	5.00	0	197					
12:05	0.87	200		NA	6.53	18.29	0.410	6.00	0	198					

Field Parameters:

PID0.2

Comments: Couldn't fit water probe down with tubing into well. Well was starting to dry up at 12:10 so started to take samples then.

Total Volume Purged: .87 gal

Sample ID	Type	Matrix	Comp/Grab	Date/Time	Filtered	Analysis	Containers
GW-11222397-111623-CT-16	N	WG	G	11/16 12:10	Yes		2
GW-11222397-111623-CT-17	N	WG	G	11/16 12:25	Yes		2

Date: 11/15/2023 1:34:49

Monitoring Well Data:

Screen Material:

Constructed Well Depth:

Water Column Length: 6.66

Measurement Type:

Screen Start Depth:

Measured Well Depth: 18.2

Ref Point Elev:

Sampling Method: Bladder pump

Screen End Depth:

Static Water Depth: 11.54

Static Water Elev:

Purging Start Time: 13:35

Screen Length:

Well Diameter: 2 in

Columns below may be blank if not applicable

[illegible]

Field Parameters:

Comments: Rinseblank taken on bladder pump after decon from previous well.

Total Volume Purged: 2.44 gal

PID	<u>0.0</u>
-----	------------

Sample ID	Type	Matrix	Comp/Grab	Date/Time	Filtered	Analysis	Containers
RB-11222397-231115-ZB-13	EB	WG	G	11/15 13:05	Yes	Metals, Methane (Dissolved)	2
GW-11222397-111523-ZB-14	N	WG	G	11/15 14:05	Yes	Metals, Methane (Dissolved)	2



Monitoring Well Data:

Screen Material: UNKNOWN

Constructed Well Depth: 7.82

Measurement Type:

Screen Start Depth: 7.5 ft BGS

Measured Well Depth: 17.2

Ref Point Elev: ft

Sampling Method:

Screen End Depth: 17.5 ft BGS

Static Water Depth: 9.38

Static Water Elev: ft

Purging Start Time: 12:25

Screen Length: 10 ft BGS

Well Diameter: 0.75

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	Column Not Applicable	Column Not Applicable	Odor (describe)	Notes
			Precision Required	< 0.4	± 0.1	±% 3	± 5 or ± 10	±% 10	±% 10 or < 5	± 10					
12:25		150	9.62	0.24	6.58	19.9	0.582	3.48	460	140					
12:30	0.19	150	10.62	1.24	6.45	18.6	0.593	0.00	321	137					
12:35	0.39	150	10.45	1.07	6.40	18.5	0.598	0.00	374	135					
12:40	0.62	150	10.45	1.07	6.41	18.5	0.592	0.00	369	114					
12:45	0.82	150	10.34	0.96	6.42	18.5	0.587	0.00	136	103					
12:50	1.00	150	10.34	0.96	6.42	18.6	0.586	0.00	69	98					
12:55	1.21	150	10.34	0.96	6.40	18.6	0.586	0.00	63.3	93					
13:00	1.42	150		NA	6.42	18.6	0.586	0.00	66.3	89					

Field Parameters:

Comments:

Total Volume Purged: 1.27 gal

Sample ID	Type	Matrix	Comp/Grab	Date/Time	Filtered	Analysis	Containers
GW-11222397-111623-ZB-18	N	WG	G	11/16 13:05	Yes	Metals, Methane (Dissolved)	2

Appendix C

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 12/21/2023 5:36:16 PM Revision 1

JOB DESCRIPTION

Racer Trust

JOB NUMBER

460-292924-1

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
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Revision 1

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Definitions/Glossary

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

Job ID: 460-292924-1

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.

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.
F3	Duplicate RPD exceeds the control limit
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.
α	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: 460-292924-1

Job ID: 460-292924-1

Eurofins Edison

Job Narrative 460-292924-1

REVISION

The report being provided is a revision of the original report sent on 11/30/2023. The report (revision 1) is being revised due to Per client request, VOC reporting list was corrected to Benzene and Trichloroethene for sample GW-11222397-111623-ZB-15.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/16/2023 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 0.9°C

GC/MS VOA

Method 8260DEL: The continuing calibration verification (CCV) associated with batch 460-946954 recovered above the upper control limit for Chloromethane. The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported.

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

Metals

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

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Detection Summary

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

Job ID: 460-292924-1

Client Sample ID: GW-11222397-111623-ZB-14

Lab Sample ID: 460-292924-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	32100		40.0	19.5	ug/L	1		6020B	Total/NA
Antimony	2.4	F1	2.0	0.76	ug/L	1		6020B	Total/NA
Arsenic	5.3		2.0	0.89	ug/L	1		6020B	Total/NA
Barium	337		4.0	0.91	ug/L	1		6020B	Total/NA
Beryllium	2.6		0.80	0.13	ug/L	1		6020B	Total/NA
Calcium	34900		500	53.6	ug/L	1		6020B	Total/NA
Chromium	57.7		4.0	2.5	ug/L	1		6020B	Total/NA
Cobalt	22.5		4.0	0.71	ug/L	1		6020B	Total/NA
Copper	50.4		4.0	2.5	ug/L	1		6020B	Total/NA
Iron	39800		120	58.2	ug/L	1		6020B	Total/NA
Lead	76.9	F1	1.2	0.84	ug/L	1		6020B	Total/NA
Magnesium	24600		200	46.9	ug/L	1		6020B	Total/NA
Manganese	617		8.0	1.5	ug/L	1		6020B	Total/NA
Nickel	39.3		4.0	0.91	ug/L	1		6020B	Total/NA
Potassium	9200		200	112	ug/L	1		6020B	Total/NA
Selenium	0.72	J	2.5	0.59	ug/L	1		6020B	Total/NA
Silver	1.0	J	2.0	0.29	ug/L	1		6020B	Total/NA
Sodium	84400		500	219	ug/L	1		6020B	Total/NA
Vanadium	99.7		4.0	0.68	ug/L	1		6020B	Total/NA
Zinc	196		16.0	6.5	ug/L	1		6020B	Total/NA
Dissolved Manganese	439		8.0	1.5	ug/L	1		6020B	Dissolved

Client Sample ID: GW-11222397-111623-ZB-15

Lab Sample ID: 460-292924-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.60	J	1.0	0.31	ug/L	1		8260B	Total/NA
Aluminum	2550		40.0	19.5	ug/L	1		6020B	Total/NA
Antimony	0.92	J	2.0	0.76	ug/L	1		6020B	Total/NA
Barium	177		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	30600		500	53.6	ug/L	1		6020B	Total/NA
Chromium	10.7		4.0	2.5	ug/L	1		6020B	Total/NA
Cobalt	6.7		4.0	0.71	ug/L	1		6020B	Total/NA
Copper	11.3		4.0	2.5	ug/L	1		6020B	Total/NA
Iron	3300		120	58.2	ug/L	1		6020B	Total/NA
Lead	13.7		1.2	0.84	ug/L	1		6020B	Total/NA
Magnesium	31500		200	46.9	ug/L	1		6020B	Total/NA
Manganese	5410		8.0	1.5	ug/L	1		6020B	Total/NA
Nickel	8.9		4.0	0.91	ug/L	1		6020B	Total/NA
Potassium	3730		200	112	ug/L	1		6020B	Total/NA
Selenium	0.61	J	2.5	0.59	ug/L	1		6020B	Total/NA
Sodium	120000		500	219	ug/L	1		6020B	Total/NA
Vanadium	11.3		4.0	0.68	ug/L	1		6020B	Total/NA
Zinc	24.3		16.0	6.5	ug/L	1		6020B	Total/NA
Dissolved Manganese	5440		8.0	1.5	ug/L	1		6020B	Dissolved

Client Sample ID: GW-11222397-111623-CT-16

Lab Sample ID: 460-292924-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	231		40.0	19.5	ug/L	1		6020B	Total/NA
Antimony	0.82	J	2.0	0.76	ug/L	1		6020B	Total/NA
Barium	157		4.0	0.91	ug/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

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

Job ID: 460-292924-1

Client Sample ID: GW-11222397-111623-CT-16 (Continued)

Lab Sample ID: 460-292924-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	61800		500	53.6	ug/L	1		6020B	Total/NA
Cobalt	0.86	J	4.0	0.71	ug/L	1		6020B	Total/NA
Copper	10.2		4.0	2.5	ug/L	1		6020B	Total/NA
Iron	1330		120	58.2	ug/L	1		6020B	Total/NA
Magnesium	16800		200	46.9	ug/L	1		6020B	Total/NA
Manganese	21.9		8.0	1.5	ug/L	1		6020B	Total/NA
Nickel	3.3	J	4.0	0.91	ug/L	1		6020B	Total/NA
Potassium	10200		200	112	ug/L	1		6020B	Total/NA
Sodium	34300		500	219	ug/L	1		6020B	Total/NA
Vanadium	4.0		4.0	0.68	ug/L	1		6020B	Total/NA
Zinc	10.8	J	16.0	6.5	ug/L	1		6020B	Total/NA
Dissolved Manganese	24.6		8.0	1.5	ug/L	1		6020B	Dissolved

Client Sample ID: GW-11222397-111623-CT-17

Lab Sample ID: 460-292924-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	2160		40.0	19.5	ug/L	1		6020B	Total/NA
Antimony	1.0	J	2.0	0.76	ug/L	1		6020B	Total/NA
Barium	177		4.0	0.91	ug/L	1		6020B	Total/NA
Beryllium	0.13	J	0.80	0.13	ug/L	1		6020B	Total/NA
Calcium	63200		500	53.6	ug/L	1		6020B	Total/NA
Chromium	10.4		4.0	2.5	ug/L	1		6020B	Total/NA
Cobalt	2.5	J	4.0	0.71	ug/L	1		6020B	Total/NA
Copper	18.3		4.0	2.5	ug/L	1		6020B	Total/NA
Iron	4700		120	58.2	ug/L	1		6020B	Total/NA
Lead	5.7		1.2	0.84	ug/L	1		6020B	Total/NA
Magnesium	17500		200	46.9	ug/L	1		6020B	Total/NA
Manganese	73.0		8.0	1.5	ug/L	1		6020B	Total/NA
Nickel	5.8		4.0	0.91	ug/L	1		6020B	Total/NA
Potassium	10500		200	112	ug/L	1		6020B	Total/NA
Sodium	35500		500	219	ug/L	1		6020B	Total/NA
Vanadium	11.6		4.0	0.68	ug/L	1		6020B	Total/NA
Zinc	19.1		16.0	6.5	ug/L	1		6020B	Total/NA
Dissolved Manganese	32.0		8.0	1.5	ug/L	1		6020B	Dissolved

Client Sample ID: GW-11222397-111623-ZB-18

Lab Sample ID: 460-292924-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	539		40.0	19.5	ug/L	1		6020B	Total/NA
Barium	221		4.0	0.91	ug/L	1		6020B	Total/NA
Calcium	32100		500	53.6	ug/L	1		6020B	Total/NA
Cobalt	12.7		4.0	0.71	ug/L	1		6020B	Total/NA
Iron	406		120	58.2	ug/L	1		6020B	Total/NA
Magnesium	28400		200	46.9	ug/L	1		6020B	Total/NA
Manganese	3270		8.0	1.5	ug/L	1		6020B	Total/NA
Nickel	5.6		4.0	0.91	ug/L	1		6020B	Total/NA
Potassium	5580		200	112	ug/L	1		6020B	Total/NA
Sodium	70600		500	219	ug/L	1		6020B	Total/NA
Vanadium	1.9	J	4.0	0.68	ug/L	1		6020B	Total/NA
Dissolved Manganese	3060		8.0	1.5	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Detection Summary

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

Job ID: 460-292924-1

Client Sample ID: TB-11222397-002

Lab Sample ID: 460-292924-6

No Detections.

- 1
- 2
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- 14
- 15

This Detection Summary does not include radiochemical test results.

Client Sample Results

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

Job ID: 460-292924-1

Client Sample ID: GW-11222397-111623-ZB-14

Lab Sample ID: 460-292924-1

Date Collected: 11/15/23 14:05

Matrix: Water

Date Received: 11/16/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	32100		40.0	19.5	ug/L		11/28/23 08:35	11/29/23 13:23	1
Antimony	2.4	F1	2.0	0.76	ug/L		11/28/23 08:35	11/29/23 13:23	1
Arsenic	5.3		2.0	0.89	ug/L		11/28/23 08:35	11/29/23 13:23	1
Barium	337		4.0	0.91	ug/L		11/28/23 08:35	11/29/23 13:23	1
Beryllium	2.6		0.80	0.13	ug/L		11/28/23 08:35	11/29/23 13:23	1
Cadmium	0.39	U	2.0	0.39	ug/L		11/28/23 08:35	11/29/23 13:23	1
Calcium	34900		500	53.6	ug/L		11/28/23 08:35	11/29/23 13:23	1
Chromium	57.7		4.0	2.5	ug/L		11/28/23 08:35	11/29/23 13:23	1
Cobalt	22.5		4.0	0.71	ug/L		11/28/23 08:35	11/29/23 13:23	1
Copper	50.4		4.0	2.5	ug/L		11/28/23 08:35	11/29/23 13:23	1
Iron	39800		120	58.2	ug/L		11/28/23 08:35	11/29/23 13:23	1
Lead	76.9	F1	1.2	0.84	ug/L		11/28/23 08:35	11/29/23 13:23	1
Magnesium	24600		200	46.9	ug/L		11/28/23 08:35	11/29/23 13:23	1
Manganese	617		8.0	1.5	ug/L		11/28/23 08:35	11/29/23 13:23	1
Nickel	39.3		4.0	0.91	ug/L		11/28/23 08:35	11/29/23 13:23	1
Potassium	9200		200	112	ug/L		11/28/23 08:35	11/29/23 13:23	1
Selenium	0.72	J	2.5	0.59	ug/L		11/28/23 08:35	11/29/23 13:23	1
Silver	1.0	J	2.0	0.29	ug/L		11/28/23 08:35	11/29/23 13:23	1
Sodium	84400		500	219	ug/L		11/28/23 08:35	11/29/23 13:23	1
Thallium	0.21	U F1	0.80	0.21	ug/L		11/28/23 08:35	11/29/23 13:23	1
Vanadium	99.7		4.0	0.68	ug/L		11/28/23 08:35	11/29/23 13:23	1
Zinc	196		16.0	6.5	ug/L		11/28/23 08:35	11/29/23 13:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Manganese	439		8.0	1.5	ug/L		11/29/23 00:35	11/29/23 02:05	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		11/21/23 06:35	11/21/23 12:08	1

Client Sample ID: GW-11222397-111623-ZB-15

Lab Sample ID: 460-292924-2

Date Collected: 11/16/23 12:20

Matrix: Water

Date Received: 11/16/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.20	U	1.0	0.20	ug/L			11/29/23 04:28	1
Trichloroethene	0.60	J	1.0	0.31	ug/L			11/29/23 04:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 128					11/29/23 04:28	1
4-Bromofluorobenzene	100		76 - 120					11/29/23 04:28	1
Dibromofluoromethane (Surr)	100		77 - 132					11/29/23 04:28	1
Toluene-d8 (Surr)	101		80 - 120					11/29/23 04:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2550		40.0	19.5	ug/L		11/28/23 08:35	11/29/23 13:53	1
Antimony	0.92	J	2.0	0.76	ug/L		11/28/23 08:35	11/29/23 13:53	1
Arsenic	0.89	U	2.0	0.89	ug/L		11/28/23 08:35	11/29/23 13:53	1

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Client Sample Results

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

Job ID: 460-292924-1

Client Sample ID: GW-11222397-111623-ZB-15

Lab Sample ID: 460-292924-2

Date Collected: 11/16/23 12:20

Matrix: Water

Date Received: 11/16/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	177		4.0	0.91	ug/L		11/28/23 08:35	11/29/23 13:53	1
Beryllium	0.14	J	0.80	0.13	ug/L		11/28/23 08:35	11/29/23 13:53	1
Cadmium	0.39	U	2.0	0.39	ug/L		11/28/23 08:35	11/29/23 13:53	1
Calcium	30600		500	53.6	ug/L		11/28/23 08:35	11/29/23 13:53	1
Chromium	10.7		4.0	2.5	ug/L		11/28/23 08:35	11/29/23 13:53	1
Cobalt	6.7		4.0	0.71	ug/L		11/28/23 08:35	11/29/23 13:53	1
Copper	11.3		4.0	2.5	ug/L		11/28/23 08:35	11/29/23 13:53	1
Iron	3300		120	58.2	ug/L		11/28/23 08:35	11/29/23 13:53	1
Lead	13.7		1.2	0.84	ug/L		11/28/23 08:35	11/29/23 13:53	1
Magnesium	31500		200	46.9	ug/L		11/28/23 08:35	11/29/23 13:53	1
Manganese	5410		8.0	1.5	ug/L		11/28/23 08:35	11/29/23 13:53	1
Nickel	8.9		4.0	0.91	ug/L		11/28/23 08:35	11/29/23 13:53	1
Potassium	3730		200	112	ug/L		11/28/23 08:35	11/29/23 13:53	1
Selenium	0.61	J	2.5	0.59	ug/L		11/28/23 08:35	11/29/23 13:53	1
Silver	0.29	U	2.0	0.29	ug/L		11/28/23 08:35	11/29/23 13:53	1
Sodium	120000		500	219	ug/L		11/28/23 08:35	11/29/23 13:53	1
Thallium	0.21	U	0.80	0.21	ug/L		11/28/23 08:35	11/29/23 13:53	1
Vanadium	11.3		4.0	0.68	ug/L		11/28/23 08:35	11/29/23 13:53	1
Zinc	24.3		16.0	6.5	ug/L		11/28/23 08:35	11/29/23 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Manganese	5440		8.0	1.5	ug/L		11/29/23 00:35	11/29/23 02:10	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		11/21/23 06:35	11/21/23 12:20	1

Client Sample ID: GW-11222397-111623-CT-16

Lab Sample ID: 460-292924-3

Date Collected: 11/16/23 12:10

Matrix: Water

Date Received: 11/16/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	231		40.0	19.5	ug/L		11/28/23 08:35	11/29/23 13:55	1
Antimony	0.82	J	2.0	0.76	ug/L		11/28/23 08:35	11/29/23 13:55	1
Arsenic	0.89	U	2.0	0.89	ug/L		11/28/23 08:35	11/29/23 13:55	1
Barium	157		4.0	0.91	ug/L		11/28/23 08:35	11/29/23 13:55	1
Beryllium	0.13	U	0.80	0.13	ug/L		11/28/23 08:35	11/29/23 13:55	1
Cadmium	0.39	U	2.0	0.39	ug/L		11/28/23 08:35	11/29/23 13:55	1
Calcium	61800		500	53.6	ug/L		11/28/23 08:35	11/29/23 13:55	1
Chromium	2.5	U	4.0	2.5	ug/L		11/28/23 08:35	11/29/23 13:55	1
Cobalt	0.86	J	4.0	0.71	ug/L		11/28/23 08:35	11/29/23 13:55	1
Copper	10.2		4.0	2.5	ug/L		11/28/23 08:35	11/29/23 13:55	1
Iron	1330		120	58.2	ug/L		11/28/23 08:35	11/29/23 13:55	1
Lead	0.84	U	1.2	0.84	ug/L		11/28/23 08:35	11/29/23 13:55	1
Magnesium	16800		200	46.9	ug/L		11/28/23 08:35	11/29/23 13:55	1
Manganese	21.9		8.0	1.5	ug/L		11/28/23 08:35	11/29/23 13:55	1
Nickel	3.3	J	4.0	0.91	ug/L		11/28/23 08:35	11/29/23 13:55	1
Potassium	10200		200	112	ug/L		11/28/23 08:35	11/29/23 13:55	1

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Client Sample Results

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

Job ID: 460-292924-1

Client Sample ID: GW-11222397-111623-CT-16

Lab Sample ID: 460-292924-3

Date Collected: 11/16/23 12:10

Matrix: Water

Date Received: 11/16/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	0.59	U	2.5	0.59	ug/L		11/28/23 08:35	11/29/23 13:55	1
Silver	0.29	U	2.0	0.29	ug/L		11/28/23 08:35	11/29/23 13:55	1
Sodium	34300		500	219	ug/L		11/28/23 08:35	11/29/23 13:55	1
Thallium	0.21	U	0.80	0.21	ug/L		11/28/23 08:35	11/29/23 13:55	1
Vanadium	4.0		4.0	0.68	ug/L		11/28/23 08:35	11/29/23 13:55	1
Zinc	10.8	J	16.0	6.5	ug/L		11/28/23 08:35	11/29/23 13:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Manganese	24.6		8.0	1.5	ug/L		11/29/23 00:35	11/29/23 02:15	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		11/21/23 06:35	11/21/23 12:22	1

Client Sample ID: GW-11222397-111623-CT-17

Lab Sample ID: 460-292924-4

Date Collected: 11/16/23 12:25

Matrix: Water

Date Received: 11/16/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2160		40.0	19.5	ug/L		11/28/23 08:35	11/29/23 13:57	1
Antimony	1.0	J	2.0	0.76	ug/L		11/28/23 08:35	11/29/23 13:57	1
Arsenic	0.89	U	2.0	0.89	ug/L		11/28/23 08:35	11/29/23 13:57	1
Barium	177		4.0	0.91	ug/L		11/28/23 08:35	11/29/23 13:57	1
Beryllium	0.13	J	0.80	0.13	ug/L		11/28/23 08:35	11/29/23 13:57	1
Cadmium	0.39	U	2.0	0.39	ug/L		11/28/23 08:35	11/29/23 13:57	1
Calcium	63200		500	53.6	ug/L		11/28/23 08:35	11/29/23 13:57	1
Chromium	10.4		4.0	2.5	ug/L		11/28/23 08:35	11/29/23 13:57	1
Cobalt	2.5	J	4.0	0.71	ug/L		11/28/23 08:35	11/29/23 13:57	1
Copper	18.3		4.0	2.5	ug/L		11/28/23 08:35	11/29/23 13:57	1
Iron	4700		120	58.2	ug/L		11/28/23 08:35	11/29/23 13:57	1
Lead	5.7		1.2	0.84	ug/L		11/28/23 08:35	11/29/23 13:57	1
Magnesium	17500		200	46.9	ug/L		11/28/23 08:35	11/29/23 13:57	1
Manganese	73.0		8.0	1.5	ug/L		11/28/23 08:35	11/29/23 13:57	1
Nickel	5.8		4.0	0.91	ug/L		11/28/23 08:35	11/29/23 13:57	1
Potassium	10500		200	112	ug/L		11/28/23 08:35	11/29/23 13:57	1
Selenium	0.59	U	2.5	0.59	ug/L		11/28/23 08:35	11/29/23 13:57	1
Silver	0.29	U	2.0	0.29	ug/L		11/28/23 08:35	11/29/23 13:57	1
Sodium	35500		500	219	ug/L		11/28/23 08:35	11/29/23 13:57	1
Thallium	0.21	U	0.80	0.21	ug/L		11/28/23 08:35	11/29/23 13:57	1
Vanadium	11.6		4.0	0.68	ug/L		11/28/23 08:35	11/29/23 13:57	1
Zinc	19.1		16.0	6.5	ug/L		11/28/23 08:35	11/29/23 13:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Manganese	32.0		8.0	1.5	ug/L		11/29/23 00:35	11/29/23 02:22	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		11/21/23 06:35	11/21/23 12:24	1

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Client Sample Results

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

Job ID: 460-292924-1

Client Sample ID: GW-11222397-111623-ZB-18

Lab Sample ID: 460-292924-5

Date Collected: 11/16/23 13:05

Matrix: Water

Date Received: 11/16/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	539		40.0	19.5	ug/L		11/28/23 08:35	11/29/23 13:59	1
Antimony	0.76	U	2.0	0.76	ug/L		11/28/23 08:35	11/29/23 13:59	1
Arsenic	0.89	U	2.0	0.89	ug/L		11/28/23 08:35	11/29/23 13:59	1
Barium	221		4.0	0.91	ug/L		11/28/23 08:35	11/29/23 13:59	1
Beryllium	0.13	U	0.80	0.13	ug/L		11/28/23 08:35	11/29/23 13:59	1
Cadmium	0.39	U	2.0	0.39	ug/L		11/28/23 08:35	11/29/23 13:59	1
Calcium	32100		500	53.6	ug/L		11/28/23 08:35	11/29/23 13:59	1
Chromium	2.5	U	4.0	2.5	ug/L		11/28/23 08:35	11/29/23 13:59	1
Cobalt	12.7		4.0	0.71	ug/L		11/28/23 08:35	11/29/23 13:59	1
Copper	2.5	U	4.0	2.5	ug/L		11/28/23 08:35	11/29/23 13:59	1
Iron	406		120	58.2	ug/L		11/28/23 08:35	11/29/23 13:59	1
Lead	0.84	U	1.2	0.84	ug/L		11/28/23 08:35	11/29/23 13:59	1
Magnesium	28400		200	46.9	ug/L		11/28/23 08:35	11/29/23 13:59	1
Manganese	3270		8.0	1.5	ug/L		11/28/23 08:35	11/29/23 13:59	1
Nickel	5.6		4.0	0.91	ug/L		11/28/23 08:35	11/29/23 13:59	1
Potassium	5580		200	112	ug/L		11/28/23 08:35	11/29/23 13:59	1
Selenium	0.59	U	2.5	0.59	ug/L		11/28/23 08:35	11/29/23 13:59	1
Silver	0.29	U	2.0	0.29	ug/L		11/28/23 08:35	11/29/23 13:59	1
Sodium	70600		500	219	ug/L		11/28/23 08:35	11/29/23 13:59	1
Thallium	0.21	U	0.80	0.21	ug/L		11/28/23 08:35	11/29/23 13:59	1
Vanadium	1.9	J	4.0	0.68	ug/L		11/28/23 08:35	11/29/23 13:59	1
Zinc	6.5	U	16.0	6.5	ug/L		11/28/23 08:35	11/29/23 13:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Manganese	3060		8.0	1.5	ug/L		11/29/23 00:35	11/29/23 02:24	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		11/21/23 06:35	11/21/23 12:25	1

Client Sample ID: TB-11222397-002

Lab Sample ID: 460-292924-6

Date Collected: 11/16/23 13:05

Matrix: Water

Date Received: 11/16/23 19:00

Method: SW846 8260B - 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			11/28/23 23:34	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/28/23 23:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/28/23 23:34	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/28/23 23:34	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/28/23 23:34	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/28/23 23:34	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/28/23 23:34	1
1,2,4-Trimethylbenzene	0.37	U	1.0	0.37	ug/L			11/28/23 23:34	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/28/23 23:34	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/28/23 23:34	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/28/23 23:34	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			11/28/23 23:34	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/28/23 23:34	1

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Client Sample Results

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

Job ID: 460-292924-1

Client Sample ID: TB-11222397-002

Lab Sample ID: 460-292924-6

Date Collected: 11/16/23 13:05

Matrix: Water

Date Received: 11/16/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/28/23 23:34	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/28/23 23:34	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			11/28/23 23:34	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/28/23 23:34	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			11/28/23 23:34	1
Acetone	4.4	U	5.0	4.4	ug/L			11/28/23 23:34	1
Benzene	0.20	U	1.0	0.20	ug/L			11/28/23 23:34	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			11/28/23 23:34	1
Bromoform	0.54	U	1.0	0.54	ug/L			11/28/23 23:34	1
Bromomethane	0.55	U	1.0	0.55	ug/L			11/28/23 23:34	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			11/28/23 23:34	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			11/28/23 23:34	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/28/23 23:34	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/28/23 23:34	1
Chloroform	0.33	U	1.0	0.33	ug/L			11/28/23 23:34	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/28/23 23:34	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			11/28/23 23:34	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/28/23 23:34	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			11/28/23 23:34	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			11/28/23 23:34	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/28/23 23:34	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			11/28/23 23:34	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			11/28/23 23:34	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/28/23 23:34	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/28/23 23:34	1
Methylcyclohexane	0.71	U	1.0	0.71	ug/L			11/28/23 23:34	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			11/28/23 23:34	1
Styrene	0.42	U	1.0	0.42	ug/L			11/28/23 23:34	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			11/28/23 23:34	1
Toluene	0.38	U	1.0	0.38	ug/L			11/28/23 23:34	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/28/23 23:34	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/28/23 23:34	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			11/28/23 23:34	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			11/28/23 23:34	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			11/28/23 23:34	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			11/28/23 23:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 128		11/28/23 23:34	1
4-Bromofluorobenzene	98		76 - 120		11/28/23 23:34	1
Dibromofluoromethane (Surr)	100		77 - 132		11/28/23 23:34	1
Toluene-d8 (Surr)	101		80 - 120		11/28/23 23:34	1

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Surrogate Summary

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

Job ID: 460-292924-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(70-128)	(76-120)	(77-132)	(80-120)
460-292923-B-9 MS	Matrix Spike	99	100	103	100
460-292923-B-9 MSD	Matrix Spike Duplicate	100	98	100	103
460-292924-2	GW-11222397-111623-ZB-15	101	100	100	101
460-292924-6	TB-11222397-002	101	98	100	101
LCS 460-946954/5	Lab Control Sample	100	100	100	102
LCSD 460-946954/6	Lab Control Sample Dup	100	99	101	101
MB 460-946954/10	Method Blank	101	100	100	106

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: 460-292924-1

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

Lab Sample ID: MB 460-946954/10

Matrix: Water

Analysis Batch: 946954

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			11/28/23 21:56	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/28/23 21:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/28/23 21:56	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/28/23 21:56	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/28/23 21:56	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/28/23 21:56	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/28/23 21:56	1
1,2,4-Trimethylbenzene	0.37	U	1.0	0.37	ug/L			11/28/23 21:56	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/28/23 21:56	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/28/23 21:56	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/28/23 21:56	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			11/28/23 21:56	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/28/23 21:56	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/28/23 21:56	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/28/23 21:56	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			11/28/23 21:56	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/28/23 21:56	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			11/28/23 21:56	1
Acetone	4.4	U	5.0	4.4	ug/L			11/28/23 21:56	1
Benzene	0.20	U	1.0	0.20	ug/L			11/28/23 21:56	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			11/28/23 21:56	1
Bromoform	0.54	U	1.0	0.54	ug/L			11/28/23 21:56	1
Bromomethane	0.55	U	1.0	0.55	ug/L			11/28/23 21:56	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			11/28/23 21:56	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			11/28/23 21:56	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/28/23 21:56	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/28/23 21:56	1
Chloroform	0.33	U	1.0	0.33	ug/L			11/28/23 21:56	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/28/23 21:56	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			11/28/23 21:56	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/28/23 21:56	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			11/28/23 21:56	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			11/28/23 21:56	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/28/23 21:56	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			11/28/23 21:56	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			11/28/23 21:56	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/28/23 21:56	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/28/23 21:56	1
Methylcyclohexane	0.71	U	1.0	0.71	ug/L			11/28/23 21:56	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			11/28/23 21:56	1
Styrene	0.42	U	1.0	0.42	ug/L			11/28/23 21:56	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			11/28/23 21:56	1
Toluene	0.38	U	1.0	0.38	ug/L			11/28/23 21:56	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/28/23 21:56	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/28/23 21:56	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			11/28/23 21:56	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			11/28/23 21:56	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			11/28/23 21:56	1

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QC Sample Results

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

Job ID: 460-292924-1

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

Lab Sample ID: MB 460-946954/10

Matrix: Water

Analysis Batch: 946954

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			11/28/23 21:56	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 128					11/28/23 21:56	1
4-Bromofluorobenzene	100		76 - 120					11/28/23 21:56	1
Dibromofluoromethane (Surr)	100		77 - 132					11/28/23 21:56	1
Toluene-d8 (Surr)	106		80 - 120					11/28/23 21:56	1

Lab Sample ID: LCS 460-946954/5

Matrix: Water

Analysis Batch: 946954

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	20.1		ug/L		100	72 - 128
1,1,2,2-Tetrachloroethane	20.0	19.7		ug/L		98	63 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.8		ug/L		104	51 - 142
1,1,2-Trichloroethane	20.0	19.7		ug/L		99	74 - 125
1,1-Dichloroethane	20.0	20.6		ug/L		103	73 - 130
1,1-Dichloroethene	20.0	19.7		ug/L		99	68 - 133
1,2,4-Trichlorobenzene	20.0	19.9		ug/L		99	67 - 132
1,2,4-Trimethylbenzene	20.0	19.8		ug/L		99	75 - 125
1,2-Dibromo-3-Chloropropane	20.0	18.5		ug/L		92	58 - 132
1,2-Dibromoethane	20.0	20.0		ug/L		100	79 - 126
1,2-Dichlorobenzene	20.0	19.8		ug/L		99	80 - 120
1,2-Dichloroethane	20.0	19.7		ug/L		98	66 - 129
1,2-Dichloropropane	20.0	19.2		ug/L		96	68 - 128
1,3-Dichlorobenzene	20.0	19.6		ug/L		98	80 - 120
1,4-Dichlorobenzene	20.0	19.9		ug/L		99	80 - 120
2-Butanone (MEK)	100	97.4		ug/L		97	61 - 142
2-Hexanone	100	95.5		ug/L		95	61 - 134
4-Methyl-2-pentanone (MIBK)	100	96.6		ug/L		97	69 - 139
Acetone	100	105		ug/L		105	49 - 149
Benzene	20.0	19.8		ug/L		99	71 - 126
Bromodichloromethane	20.0	20.5		ug/L		103	76 - 121
Bromoform	20.0	20.0		ug/L		100	58 - 136
Bromomethane	20.0	20.1		ug/L		101	10 - 120
Carbon disulfide	20.0	20.1		ug/L		100	68 - 138
Carbon tetrachloride	20.0	19.3		ug/L		97	65 - 142
Chlorobenzene	20.0	20.3		ug/L		101	80 - 120
Chloroethane	20.0	18.6		ug/L		93	48 - 150
Chloroform	20.0	19.9		ug/L		99	78 - 125
Chloromethane	20.0	20.4		ug/L		102	43 - 140
cis-1,2-Dichloroethene	20.0	19.6		ug/L		98	78 - 121
cis-1,3-Dichloropropene	20.0	20.1		ug/L		101	74 - 125
Cyclohexane	20.0	19.7		ug/L		99	60 - 142
Dibromochloromethane	20.0	20.2		ug/L		101	69 - 130
Dichlorodifluoromethane	20.0	20.6		ug/L		103	27 - 120
Ethylbenzene	20.0	19.8		ug/L		99	78 - 120

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QC Sample Results

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

Job ID: 460-292924-1

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

Lab Sample ID: LCS 460-946954/5

Matrix: Water

Analysis Batch: 946954

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Isopropylbenzene	20.0	19.5		ug/L		98	79 - 125
Methyl acetate	40.0	41.8		ug/L		104	43 - 120
Methyl tert-butyl ether	20.0	19.9		ug/L		99	72 - 131
Methylcyclohexane	20.0	19.9		ug/L		100	49 - 149
Methylene Chloride	20.0	20.4		ug/L		102	74 - 127
Styrene	20.0	20.2		ug/L		101	82 - 127
Tetrachloroethene	20.0	19.5		ug/L		98	70 - 127
Toluene	20.0	20.2		ug/L		101	78 - 120
trans-1,2-Dichloroethene	20.0	20.0		ug/L		100	74 - 126
trans-1,3-Dichloropropene	20.0	20.1		ug/L		100	66 - 127
Trichloroethene	20.0	20.7		ug/L		103	51 - 121
Trichlorofluoromethane	20.0	21.2		ug/L		106	50 - 120
Vinyl chloride	20.0	19.1		ug/L		96	55 - 144
Xylenes, Total	40.0	39.6		ug/L		99	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 128
4-Bromofluorobenzene	100		76 - 120
Dibromofluoromethane (Surr)	100		77 - 132
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: LCSD 460-946954/6

Matrix: Water

Analysis Batch: 946954

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	21.0		ug/L		105	72 - 128	4	30
1,1,2,2-Tetrachloroethane	20.0	20.2		ug/L		101	63 - 139	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.3		ug/L		106	51 - 142	2	30
1,1,2-Trichloroethane	20.0	19.9		ug/L		100	74 - 125	1	30
1,1-Dichloroethane	20.0	20.6		ug/L		103	73 - 130	0	30
1,1-Dichloroethene	20.0	20.4		ug/L		102	68 - 133	3	30
1,2,4-Trichlorobenzene	20.0	19.7		ug/L		99	67 - 132	1	30
1,2,4-Trimethylbenzene	20.0	20.5		ug/L		103	75 - 125	3	30
1,2-Dibromo-3-Chloropropane	20.0	19.3		ug/L		96	58 - 132	4	30
1,2-Dibromoethane	20.0	20.1		ug/L		100	79 - 126	0	30
1,2-Dichlorobenzene	20.0	20.2		ug/L		101	80 - 120	2	30
1,2-Dichloroethane	20.0	20.1		ug/L		101	66 - 129	2	30
1,2-Dichloropropane	20.0	20.0		ug/L		100	68 - 128	4	30
1,3-Dichlorobenzene	20.0	19.8		ug/L		99	80 - 120	1	30
1,4-Dichlorobenzene	20.0	20.3		ug/L		102	80 - 120	2	30
2-Butanone (MEK)	100	98.6		ug/L		99	61 - 142	1	30
2-Hexanone	100	91.6		ug/L		92	61 - 134	4	30
4-Methyl-2-pentanone (MIBK)	100	93.8		ug/L		94	69 - 139	3	30
Acetone	100	102		ug/L		102	49 - 149	4	30
Benzene	20.0	20.2		ug/L		101	71 - 126	2	30
Bromodichloromethane	20.0	19.8		ug/L		99	76 - 121	4	30
Bromoform	20.0	20.7		ug/L		103	58 - 136	3	30

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QC Sample Results

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

Job ID: 460-292924-1

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

Lab Sample ID: LCSD 460-946954/6

Matrix: Water

Analysis Batch: 946954

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromomethane	20.0	20.4		ug/L		102	10 - 120	1	30
Carbon disulfide	20.0	21.2		ug/L		106	68 - 138	5	30
Carbon tetrachloride	20.0	20.5		ug/L		103	65 - 142	6	30
Chlorobenzene	20.0	20.8		ug/L		104	80 - 120	3	30
Chloroethane	20.0	20.3		ug/L		102	48 - 150	9	30
Chloroform	20.0	20.2		ug/L		101	78 - 125	1	30
Chloromethane	20.0	20.7		ug/L		103	43 - 140	1	30
cis-1,2-Dichloroethene	20.0	20.4		ug/L		102	78 - 121	4	30
cis-1,3-Dichloropropene	20.0	20.3		ug/L		102	74 - 125	1	30
Cyclohexane	20.0	20.6		ug/L		103	60 - 142	4	30
Dibromochloromethane	20.0	20.1		ug/L		101	69 - 130	0	30
Dichlorodifluoromethane	20.0	22.8		ug/L		114	27 - 120	10	30
Ethylbenzene	20.0	20.0		ug/L		100	78 - 120	1	30
Isopropylbenzene	20.0	20.3		ug/L		101	79 - 125	4	30
Methyl acetate	40.0	39.0		ug/L		97	43 - 120	7	30
Methyl tert-butyl ether	20.0	20.1		ug/L		100	72 - 131	1	30
Methylcyclohexane	20.0	20.4		ug/L		102	49 - 149	2	30
Methylene Chloride	20.0	20.1		ug/L		100	74 - 127	1	30
Styrene	20.0	20.4		ug/L		102	82 - 127	1	30
Tetrachloroethene	20.0	20.3		ug/L		102	70 - 127	4	30
Toluene	20.0	20.3		ug/L		102	78 - 120	1	30
trans-1,2-Dichloroethene	20.0	21.3		ug/L		106	74 - 126	6	30
trans-1,3-Dichloropropene	20.0	19.5		ug/L		97	66 - 127	3	30
Trichloroethene	20.0	20.7		ug/L		103	51 - 121	0	30
Trichlorofluoromethane	20.0	21.9		ug/L		109	50 - 120	3	30
Vinyl chloride	20.0	19.8		ug/L		99	55 - 144	3	30
Xylenes, Total	40.0	40.8		ug/L		102	80 - 120	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 128
4-Bromofluorobenzene	99		76 - 120
Dibromofluoromethane (Surr)	101		77 - 132
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: 460-292923-B-9 MS

Matrix: Water

Analysis Batch: 946954

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	0.24	U	20.0	22.4		ug/L		112	72 - 128
1,1,2,2-Tetrachloroethane	0.37	U	20.0	20.0		ug/L		100	63 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	20.0	21.1		ug/L		106	51 - 142
1,1,2-Trichloroethane	0.20	U	20.0	19.6		ug/L		98	74 - 125
1,1-Dichloroethane	0.26	U	20.0	21.5		ug/L		107	73 - 130
1,1-Dichloroethene	0.26	U	20.0	22.3		ug/L		111	68 - 133
1,2,4-Trichlorobenzene	0.37	U	20.0	18.8		ug/L		94	67 - 132
1,2,4-Trimethylbenzene	0.37	U	20.0	20.6		ug/L		103	75 - 125
1,2-Dibromo-3-Chloropropane	0.38	U	20.0	17.8		ug/L		89	58 - 132

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QC Sample Results

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

Job ID: 460-292924-1

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

Lab Sample ID: 460-292923-B-9 MS

Matrix: Water

Analysis Batch: 946954

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
1,2-Dibromoethane	0.50	U	20.0	19.5		ug/L		98	79 - 126
1,2-Dichlorobenzene	0.21	U	20.0	19.5		ug/L		98	80 - 120
1,2-Dichloroethane	0.43	U	20.0	20.0		ug/L		100	66 - 129
1,2-Dichloropropane	0.35	U	20.0	20.7		ug/L		104	68 - 128
1,3-Dichlorobenzene	0.34	U	20.0	20.0		ug/L		100	80 - 120
1,4-Dichlorobenzene	0.33	U	20.0	19.7		ug/L		99	80 - 120
2-Butanone (MEK)	1.9	U	100	100		ug/L		100	61 - 142
2-Hexanone	1.1	U	100	92.5		ug/L		93	61 - 134
4-Methyl-2-pentanone (MIBK)	1.3	U	100	96.1		ug/L		96	69 - 139
Acetone	4.4	U	100	97.3		ug/L		97	49 - 149
Benzene	0.20	U	20.0	20.8		ug/L		104	71 - 126
Bromodichloromethane	0.34	U	20.0	20.2		ug/L		101	76 - 121
Bromoform	0.54	U	20.0	19.7		ug/L		99	58 - 136
Bromomethane	0.55	U	20.0	21.6		ug/L		108	10 - 120
Carbon disulfide	0.82	U	20.0	20.5		ug/L		102	68 - 138
Carbon tetrachloride	0.21	U	20.0	21.1		ug/L		106	65 - 142
Chlorobenzene	0.38	U	20.0	20.8		ug/L		104	80 - 120
Chloroethane	0.32	U	20.0	21.2		ug/L		106	48 - 150
Chloroform	0.33	U	20.0	20.9		ug/L		105	78 - 125
Chloromethane	0.40	U	20.0	21.8		ug/L		109	43 - 140
cis-1,2-Dichloroethene	0.22	U	20.0	20.7		ug/L		104	78 - 121
cis-1,3-Dichloropropene	0.22	U	20.0	19.5		ug/L		98	74 - 125
Cyclohexane	0.32	U	20.0	21.2		ug/L		106	60 - 142
Dibromochloromethane	0.28	U	20.0	19.7		ug/L		98	69 - 130
Dichlorodifluoromethane	0.31	U	20.0	22.3		ug/L		111	27 - 120
Ethylbenzene	0.30	U	20.0	20.4		ug/L		102	78 - 120
Isopropylbenzene	0.34	U	20.0	20.3		ug/L		102	79 - 125
Methyl acetate	0.79	U	40.0	37.9		ug/L		95	43 - 120
Methyl tert-butyl ether	0.22	U	20.0	19.9		ug/L		99	72 - 131
Methylcyclohexane	0.71	U	20.0	19.3		ug/L		96	49 - 149
Methylene Chloride	0.32	U	20.0	20.7		ug/L		104	74 - 127
Styrene	0.42	U	20.0	19.8		ug/L		99	82 - 127
Tetrachloroethene	0.64	J	20.0	21.2		ug/L		103	70 - 127
Toluene	0.38	U	20.0	21.0		ug/L		105	78 - 120
trans-1,2-Dichloroethene	0.24	U	20.0	22.3		ug/L		111	74 - 126
trans-1,3-Dichloropropene	0.22	U	20.0	19.7		ug/L		98	66 - 127
Trichloroethene	0.31	U	20.0	20.8		ug/L		104	51 - 121
Trichlorofluoromethane	2.2		20.0	24.7		ug/L		113	50 - 120
Vinyl chloride	0.17	U	20.0	21.4		ug/L		107	55 - 144
Xylenes, Total	0.65	U	40.0	41.5		ug/L		104	80 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 128
4-Bromofluorobenzene	100		76 - 120
Dibromofluoromethane (Surr)	103		77 - 132
Toluene-d8 (Surr)	100		80 - 120

Eurofins Edison

QC Sample Results

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

Job ID: 460-292924-1

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

Lab Sample ID: 460-292923-B-9 MSD

Matrix: Water

Analysis Batch: 946954

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	0.24	U	20.0	20.8		ug/L		104	72 - 128	7	30
1,1,2,2-Tetrachloroethane	0.37	U	20.0	21.0		ug/L		105	63 - 139	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	20.0	20.9		ug/L		104	51 - 142	1	30
1,1,2-Trichloroethane	0.20	U	20.0	19.0		ug/L		95	74 - 125	3	30
1,1-Dichloroethane	0.26	U	20.0	21.3		ug/L		106	73 - 130	1	30
1,1-Dichloroethene	0.26	U	20.0	20.7		ug/L		103	68 - 133	7	30
1,2,4-Trichlorobenzene	0.37	U	20.0	19.9		ug/L		99	67 - 132	5	30
1,2,4-Trimethylbenzene	0.37	U	20.0	20.6		ug/L		103	75 - 125	0	30
1,2-Dibromo-3-Chloropropane	0.38	U	20.0	19.0		ug/L		95	58 - 132	7	30
1,2-Dibromoethane	0.50	U	20.0	19.7		ug/L		99	79 - 126	1	30
1,2-Dichlorobenzene	0.21	U	20.0	19.9		ug/L		100	80 - 120	2	30
1,2-Dichloroethane	0.43	U	20.0	19.0		ug/L		95	66 - 129	5	30
1,2-Dichloropropane	0.35	U	20.0	19.7		ug/L		99	68 - 128	5	30
1,3-Dichlorobenzene	0.34	U	20.0	20.2		ug/L		101	80 - 120	1	30
1,4-Dichlorobenzene	0.33	U	20.0	20.9		ug/L		104	80 - 120	6	30
2-Butanone (MEK)	1.9	U	100	96.6		ug/L		97	61 - 142	4	30
2-Hexanone	1.1	U	100	96.3		ug/L		96	61 - 134	4	30
4-Methyl-2-pentanone (MIBK)	1.3	U	100	95.5		ug/L		96	69 - 139	1	30
Acetone	4.4	U	100	99.3		ug/L		99	49 - 149	2	30
Benzene	0.20	U	20.0	20.8		ug/L		104	71 - 126	0	30
Bromodichloromethane	0.34	U	20.0	19.9		ug/L		99	76 - 121	2	30
Bromoform	0.54	U	20.0	19.6		ug/L		98	58 - 136	1	30
Bromomethane	0.55	U	20.0	20.9		ug/L		104	10 - 120	4	30
Carbon disulfide	0.82	U	20.0	19.8		ug/L		99	68 - 138	3	30
Carbon tetrachloride	0.21	U	20.0	20.4		ug/L		102	65 - 142	3	30
Chlorobenzene	0.38	U	20.0	20.6		ug/L		103	80 - 120	1	30
Chloroethane	0.32	U	20.0	19.3		ug/L		97	48 - 150	9	30
Chloroform	0.33	U	20.0	19.9		ug/L		100	78 - 125	5	30
Chloromethane	0.40	U	20.0	20.7		ug/L		104	43 - 140	5	30
cis-1,2-Dichloroethene	0.22	U	20.0	20.6		ug/L		103	78 - 121	1	30
cis-1,3-Dichloropropene	0.22	U	20.0	19.8		ug/L		99	74 - 125	1	30
Cyclohexane	0.32	U	20.0	19.2		ug/L		96	60 - 142	10	30
Dibromochloromethane	0.28	U	20.0	20.1		ug/L		101	69 - 130	2	30
Dichlorodifluoromethane	0.31	U	20.0	22.0		ug/L		110	27 - 120	1	30
Ethylbenzene	0.30	U	20.0	20.8		ug/L		104	78 - 120	2	30
Isopropylbenzene	0.34	U	20.0	20.5		ug/L		103	79 - 125	1	30
Methyl acetate	0.79	U	40.0	34.6		ug/L		87	43 - 120	9	30
Methyl tert-butyl ether	0.22	U	20.0	19.5		ug/L		97	72 - 131	2	30
Methylcyclohexane	0.71	U	20.0	18.5		ug/L		92	49 - 149	4	30
Methylene Chloride	0.32	U	20.0	20.2		ug/L		101	74 - 127	3	30
Styrene	0.42	U	20.0	20.1		ug/L		100	82 - 127	1	30
Tetrachloroethene	0.64	J	20.0	20.6		ug/L		100	70 - 127	3	30
Toluene	0.38	U	20.0	20.8		ug/L		104	78 - 120	1	30
trans-1,2-Dichloroethene	0.24	U	20.0	21.1		ug/L		105	74 - 126	5	30
trans-1,3-Dichloropropene	0.22	U	20.0	19.7		ug/L		98	66 - 127	0	30
Trichloroethene	0.31	U	20.0	20.5		ug/L		102	51 - 121	2	30
Trichlorofluoromethane	2.2		20.0	22.7		ug/L		103	50 - 120	9	30
Vinyl chloride	0.17	U	20.0	20.9		ug/L		104	55 - 144	2	30

Eurofins Edison

QC Sample Results

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

Job ID: 460-292924-1

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

Lab Sample ID: 460-292923-B-9 MSD

Matrix: Water

Analysis Batch: 946954

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
Xylenes, Total	0.65	U	40.0	41.8		ug/L		105	80 - 120	1	30
Surrogate											
	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	100		70 - 128								
4-Bromofluorobenzene	98		76 - 120								
Dibromofluoromethane (Surr)	100		77 - 132								
Toluene-d8 (Surr)	103		80 - 120								

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 460-946865/1-A

Matrix: Water

Analysis Batch: 947192

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 946865

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	19.5	U	40.0	19.5	ug/L		11/28/23 08:35	11/29/23 13:16	1
Antimony	0.76	U	2.0	0.76	ug/L		11/28/23 08:35	11/29/23 13:16	1
Arsenic	0.89	U	2.0	0.89	ug/L		11/28/23 08:35	11/29/23 13:16	1
Barium	0.91	U	4.0	0.91	ug/L		11/28/23 08:35	11/29/23 13:16	1
Beryllium	0.13	U	0.80	0.13	ug/L		11/28/23 08:35	11/29/23 13:16	1
Cadmium	0.39	U	2.0	0.39	ug/L		11/28/23 08:35	11/29/23 13:16	1
Calcium	53.6	U	500	53.6	ug/L		11/28/23 08:35	11/29/23 13:16	1
Chromium	2.5	U	4.0	2.5	ug/L		11/28/23 08:35	11/29/23 13:16	1
Cobalt	0.71	U	4.0	0.71	ug/L		11/28/23 08:35	11/29/23 13:16	1
Copper	2.5	U	4.0	2.5	ug/L		11/28/23 08:35	11/29/23 13:16	1
Iron	58.2	U	120	58.2	ug/L		11/28/23 08:35	11/29/23 13:16	1
Lead	0.84	U	1.2	0.84	ug/L		11/28/23 08:35	11/29/23 13:16	1
Magnesium	46.9	U	200	46.9	ug/L		11/28/23 08:35	11/29/23 13:16	1
Manganese	1.5	U	8.0	1.5	ug/L		11/28/23 08:35	11/29/23 13:16	1
Nickel	0.91	U	4.0	0.91	ug/L		11/28/23 08:35	11/29/23 13:16	1
Potassium	112	U	200	112	ug/L		11/28/23 08:35	11/29/23 13:16	1
Selenium	0.59	U	2.5	0.59	ug/L		11/28/23 08:35	11/29/23 13:16	1
Silver	0.29	U	2.0	0.29	ug/L		11/28/23 08:35	11/29/23 13:16	1
Sodium	219	U	500	219	ug/L		11/28/23 08:35	11/29/23 13:16	1
Thallium	0.21	U	0.80	0.21	ug/L		11/28/23 08:35	11/29/23 13:16	1
Vanadium	0.68	U	4.0	0.68	ug/L		11/28/23 08:35	11/29/23 13:16	1
Zinc	6.5	U	16.0	6.5	ug/L		11/28/23 08:35	11/29/23 13:16	1

Lab Sample ID: LCS 460-946865/2-A

Matrix: Water

Analysis Batch: 947192

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 946865

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2500	2541		ug/L		102	80 - 120
Antimony	25.0	25.91		ug/L		104	80 - 120
Arsenic	50.0	49.33		ug/L		99	80 - 120
Barium	50.0	49.68		ug/L		99	80 - 120
Beryllium	25.0	25.14		ug/L		101	80 - 120
Cadmium	25.0	24.83		ug/L		99	80 - 120

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QC Sample Results

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

Job ID: 460-292924-1

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

Lab Sample ID: LCS 460-946865/2-A

Matrix: Water

Analysis Batch: 947192

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 946865

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	2500	2565		ug/L		103	80 - 120
Chromium	50.0	50.12		ug/L		100	80 - 120
Cobalt	25.0	25.18		ug/L		101	80 - 120
Copper	50.0	50.59		ug/L		101	80 - 120
Iron	2500	2570		ug/L		103	80 - 120
Lead	25.0	24.96		ug/L		100	80 - 120
Magnesium	2500	2521		ug/L		101	80 - 120
Manganese	250	250.4		ug/L		100	80 - 120
Nickel	50.0	50.96		ug/L		102	80 - 120
Potassium	2500	2496		ug/L		100	80 - 120
Selenium	50.0	49.76		ug/L		100	80 - 120
Silver	25.0	25.90		ug/L		104	80 - 120
Sodium	2500	2568		ug/L		103	80 - 120
Thallium	20.0	20.35		ug/L		102	80 - 120
Vanadium	50.0	49.17		ug/L		98	80 - 120
Zinc	250	245.3		ug/L		98	80 - 120

Lab Sample ID: 460-292924-1 MS

Matrix: Water

Analysis Batch: 947192

Client Sample ID: GW-11222397-111623-ZB-14

Prep Type: Total/NA

Prep Batch: 946865

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	32100		2500	41220	4	ug/L		365	75 - 125
Antimony	2.4	F1	25.0	18.72	F1	ug/L		65	75 - 125
Arsenic	5.3		50.0	48.76		ug/L		87	75 - 125
Barium	337		50.0	362.6	4	ug/L		51	75 - 125
Beryllium	2.6		25.0	26.32		ug/L		95	75 - 125
Cadmium	0.39	U	25.0	25.14		ug/L		101	75 - 125
Calcium	34900		2500	36630	4	ug/L		71	75 - 125
Chromium	57.7		50.0	109.0		ug/L		103	75 - 125
Cobalt	22.5		25.0	44.46		ug/L		88	75 - 125
Copper	50.4		50.0	92.29		ug/L		84	75 - 125
Iron	39800		2500	41480	4	ug/L		68	75 - 125
Lead	76.9	F1	25.0	92.18	F1	ug/L		61	75 - 125
Magnesium	24600		2500	26370	4	ug/L		70	75 - 125
Manganese	617		250	821.8		ug/L		82	75 - 125
Nickel	39.3		50.0	88.88		ug/L		99	75 - 125
Potassium	9200		2500	11340		ug/L		86	75 - 125
Selenium	0.72	J	50.0	40.52		ug/L		80	75 - 125
Silver	1.0	J	25.0	26.14		ug/L		101	75 - 125
Sodium	84400		2500	86280	4	ug/L		76	75 - 125
Thallium	0.21	U F1	20.0	3.86	F1	ug/L		19	75 - 125
Vanadium	99.7		50.0	146.2		ug/L		93	75 - 125
Zinc	196		250	402.9		ug/L		83	75 - 125

Eurofins Edison

QC Sample Results

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

Job ID: 460-292924-1

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

Lab Sample ID: 460-292924-1 MSD

Matrix: Water

Analysis Batch: 947192

Client Sample ID: GW-11222397-111623-ZB-14

Prep Type: Total/NA

Prep Batch: 946865

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	32100		2500	41040	4	ug/L		358	75 - 125	0	20
Antimony	2.4	F1	25.0	18.46	F1	ug/L		64	75 - 125	1	20
Arsenic	5.3		50.0	50.04		ug/L		90	75 - 125	3	20
Barium	337		50.0	365.8	4	ug/L		57	75 - 125	1	20
Beryllium	2.6		25.0	25.48		ug/L		92	75 - 125	3	20
Cadmium	0.39	U	25.0	25.59		ug/L		102	75 - 125	2	20
Calcium	34900		2500	36630	4	ug/L		71	75 - 125	0	20
Chromium	57.7		50.0	110.3		ug/L		105	75 - 125	1	20
Cobalt	22.5		25.0	45.47		ug/L		92	75 - 125	2	20
Copper	50.4		50.0	93.65		ug/L		86	75 - 125	1	20
Iron	39800		2500	41890	4	ug/L		84	75 - 125	1	20
Lead	76.9	F1	25.0	92.41	F1	ug/L		62	75 - 125	0	20
Magnesium	24600		2500	26370	4	ug/L		70	75 - 125	0	20
Manganese	617		250	836.3		ug/L		88	75 - 125	2	20
Nickel	39.3		50.0	89.31		ug/L		100	75 - 125	0	20
Potassium	9200		2500	11430		ug/L		89	75 - 125	1	20
Selenium	0.72	J	50.0	40.72		ug/L		80	75 - 125	0	20
Silver	1.0	J	25.0	26.41		ug/L		102	75 - 125	1	20
Sodium	84400		2500	86470	4	ug/L		84	75 - 125	0	20
Thallium	0.21	U F1	20.0	3.85	F1	ug/L		19	75 - 125	0	20
Vanadium	99.7		50.0	148.6		ug/L		98	75 - 125	2	20
Zinc	196		250	411.9		ug/L		86	75 - 125	2	20

Lab Sample ID: 460-292924-1 DU

Matrix: Water

Analysis Batch: 947192

Client Sample ID: GW-11222397-111623-ZB-14

Prep Type: Total/NA

Prep Batch: 946865

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	32100		32280		ug/L		0.6	20
Antimony	2.4	F1	2.21		ug/L		7	20
Arsenic	5.3		5.37		ug/L		2	20
Barium	337		341.6		ug/L		1	20
Beryllium	2.6		2.56		ug/L		0.2	20
Cadmium	0.39	U	0.39	U	ug/L		NC	20
Calcium	34900		35700		ug/L		2	20
Chromium	57.7		56.97		ug/L		1	20
Cobalt	22.5		22.05		ug/L		2	20
Copper	50.4		62.54	F3	ug/L		21	20
Iron	39800		39800		ug/L		0	20
Lead	76.9	F1	77.63		ug/L		1	20
Magnesium	24600		24720		ug/L		0.4	20
Manganese	617		610.1		ug/L		1	20
Nickel	39.3		39.01		ug/L		0.7	20
Potassium	9200		9199		ug/L		0.06	20
Selenium	0.72	J	0.611	J	ug/L		16	20
Silver	1.0	J	1.01	J	ug/L		1	20
Sodium	84400		85440		ug/L		1	20
Thallium	0.21	U F1	0.21	U	ug/L		NC	20
Vanadium	99.7		98.58		ug/L		1	20

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QC Sample Results

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

Job ID: 460-292924-1

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

Lab Sample ID: 460-292924-1 DU

Matrix: Water

Analysis Batch: 947192

Client Sample ID: GW-11222397-111623-ZB-14

Prep Type: Total/NA

Prep Batch: 946865

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Zinc	196		204.9		ug/L		4	20

Lab Sample ID: MB 460-947029/1-A

Matrix: Water

Analysis Batch: 946962

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 947029

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Manganese	1.5	U	8.0	1.5	ug/L		11/29/23 00:35	11/29/23 01:54	1

Lab Sample ID: LCS 460-947029/2-A

Matrix: Water

Analysis Batch: 946962

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 947029

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Manganese	250	263.2		ug/L		105	80 - 120

Lab Sample ID: 460-292924-1 MS

Matrix: Water

Analysis Batch: 946962

Client Sample ID: GW-11222397-111623-ZB-14

Prep Type: Dissolved

Prep Batch: 947029

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Manganese	439		250	678.8		ug/L		96	75 - 125

Lab Sample ID: 460-292924-1 MSD

Matrix: Water

Analysis Batch: 946962

Client Sample ID: GW-11222397-111623-ZB-14

Prep Type: Dissolved

Prep Batch: 947029

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Dissolved Manganese	439		250	662.0		ug/L		89	75 - 125	2	20

Lab Sample ID: 460-292924-1 DU

Matrix: Water

Analysis Batch: 946962

Client Sample ID: GW-11222397-111623-ZB-14

Prep Type: Dissolved

Prep Batch: 947029

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Dissolved Manganese	439		436.7		ug/L		0.6	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 460-945911/1-A

Matrix: Water

Analysis Batch: 946005

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 945911

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		11/21/23 06:35	11/21/23 12:05	1

Eurofins Edison

QC Sample Results

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

Job ID: 460-292924-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 460-945911/2-A

Matrix: Water

Analysis Batch: 946005

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 945911

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	1.01		ug/L		101	80 - 120

Lab Sample ID: 460-292924-1 MS

Matrix: Water

Analysis Batch: 946005

Client Sample ID: GW-11222397-111623-ZB-14

Prep Type: Total/NA

Prep Batch: 945911

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.091	U	1.00	0.955		ug/L		96	75 - 125

Lab Sample ID: 460-292924-1 MSD

Matrix: Water

Analysis Batch: 946005

Client Sample ID: GW-11222397-111623-ZB-14

Prep Type: Total/NA

Prep Batch: 945911

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	0.977		ug/L		98	75 - 125	2	20

Lab Sample ID: 460-292924-1 DU

Matrix: Water

Analysis Batch: 946005

Client Sample ID: GW-11222397-111623-ZB-14

Prep Type: Total/NA

Prep Batch: 945911

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.091	U	0.091	U	ug/L		NC	20

QC Association Summary

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

Job ID: 460-292924-1

GC/MS VOA

Analysis Batch: 946954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-292924-2	GW-11222397-111623-ZB-15	Total/NA	Water	8260B	
460-292924-6	TB-11222397-002	Total/NA	Water	8260B	
MB 460-946954/10	Method Blank	Total/NA	Water	8260B	
LCS 460-946954/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 460-946954/6	Lab Control Sample Dup	Total/NA	Water	8260B	
460-292923-B-9 MS	Matrix Spike	Total/NA	Water	8260B	
460-292923-B-9 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Metals

Prep Batch: 945911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-292924-1	GW-11222397-111623-ZB-14	Total/NA	Water	7470A	
460-292924-2	GW-11222397-111623-ZB-15	Total/NA	Water	7470A	
460-292924-3	GW-11222397-111623-CT-16	Total/NA	Water	7470A	
460-292924-4	GW-11222397-111623-CT-17	Total/NA	Water	7470A	
460-292924-5	GW-11222397-111623-ZB-18	Total/NA	Water	7470A	
MB 460-945911/1-A	Method Blank	Total/NA	Water	7470A	
LCS 460-945911/2-A	Lab Control Sample	Total/NA	Water	7470A	
460-292924-1 MS	GW-11222397-111623-ZB-14	Total/NA	Water	7470A	
460-292924-1 MSD	GW-11222397-111623-ZB-14	Total/NA	Water	7470A	
460-292924-1 DU	GW-11222397-111623-ZB-14	Total/NA	Water	7470A	

Analysis Batch: 946005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-292924-1	GW-11222397-111623-ZB-14	Total/NA	Water	7470A	945911
460-292924-2	GW-11222397-111623-ZB-15	Total/NA	Water	7470A	945911
460-292924-3	GW-11222397-111623-CT-16	Total/NA	Water	7470A	945911
460-292924-4	GW-11222397-111623-CT-17	Total/NA	Water	7470A	945911
460-292924-5	GW-11222397-111623-ZB-18	Total/NA	Water	7470A	945911
MB 460-945911/1-A	Method Blank	Total/NA	Water	7470A	945911
LCS 460-945911/2-A	Lab Control Sample	Total/NA	Water	7470A	945911
460-292924-1 MS	GW-11222397-111623-ZB-14	Total/NA	Water	7470A	945911
460-292924-1 MSD	GW-11222397-111623-ZB-14	Total/NA	Water	7470A	945911
460-292924-1 DU	GW-11222397-111623-ZB-14	Total/NA	Water	7470A	945911

Prep Batch: 946865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-292924-1	GW-11222397-111623-ZB-14	Total/NA	Water	3010A	
460-292924-2	GW-11222397-111623-ZB-15	Total/NA	Water	3010A	
460-292924-3	GW-11222397-111623-CT-16	Total/NA	Water	3010A	
460-292924-4	GW-11222397-111623-CT-17	Total/NA	Water	3010A	
460-292924-5	GW-11222397-111623-ZB-18	Total/NA	Water	3010A	
MB 460-946865/1-A	Method Blank	Total/NA	Water	3010A	
LCS 460-946865/2-A	Lab Control Sample	Total/NA	Water	3010A	
460-292924-1 MS	GW-11222397-111623-ZB-14	Total/NA	Water	3010A	
460-292924-1 MSD	GW-11222397-111623-ZB-14	Total/NA	Water	3010A	
460-292924-1 DU	GW-11222397-111623-ZB-14	Total/NA	Water	3010A	

Eurofins Edison

QC Association Summary

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

Job ID: 460-292924-1

Metals

Analysis Batch: 946962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-292924-1	GW-11222397-111623-ZB-14	Dissolved	Water	6020B	947029
460-292924-2	GW-11222397-111623-ZB-15	Dissolved	Water	6020B	947029
460-292924-3	GW-11222397-111623-CT-16	Dissolved	Water	6020B	947029
460-292924-4	GW-11222397-111623-CT-17	Dissolved	Water	6020B	947029
460-292924-5	GW-11222397-111623-ZB-18	Dissolved	Water	6020B	947029
MB 460-947029/1-A	Method Blank	Total/NA	Water	6020B	947029
LCS 460-947029/2-A	Lab Control Sample	Total/NA	Water	6020B	947029
460-292924-1 MS	GW-11222397-111623-ZB-14	Dissolved	Water	6020B	947029
460-292924-1 MSD	GW-11222397-111623-ZB-14	Dissolved	Water	6020B	947029
460-292924-1 DU	GW-11222397-111623-ZB-14	Dissolved	Water	6020B	947029

Prep Batch: 947029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-292924-1	GW-11222397-111623-ZB-14	Dissolved	Water	3010A	
460-292924-2	GW-11222397-111623-ZB-15	Dissolved	Water	3010A	
460-292924-3	GW-11222397-111623-CT-16	Dissolved	Water	3010A	
460-292924-4	GW-11222397-111623-CT-17	Dissolved	Water	3010A	
460-292924-5	GW-11222397-111623-ZB-18	Dissolved	Water	3010A	
MB 460-947029/1-A	Method Blank	Total/NA	Water	3010A	
LCS 460-947029/2-A	Lab Control Sample	Total/NA	Water	3010A	
460-292924-1 MS	GW-11222397-111623-ZB-14	Dissolved	Water	3010A	
460-292924-1 MSD	GW-11222397-111623-ZB-14	Dissolved	Water	3010A	
460-292924-1 DU	GW-11222397-111623-ZB-14	Dissolved	Water	3010A	

Analysis Batch: 947192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-292924-1	GW-11222397-111623-ZB-14	Total/NA	Water	6020B	946865
460-292924-2	GW-11222397-111623-ZB-15	Total/NA	Water	6020B	946865
460-292924-3	GW-11222397-111623-CT-16	Total/NA	Water	6020B	946865
460-292924-4	GW-11222397-111623-CT-17	Total/NA	Water	6020B	946865
460-292924-5	GW-11222397-111623-ZB-18	Total/NA	Water	6020B	946865
MB 460-946865/1-A	Method Blank	Total/NA	Water	6020B	946865
LCS 460-946865/2-A	Lab Control Sample	Total/NA	Water	6020B	946865
460-292924-1 MS	GW-11222397-111623-ZB-14	Total/NA	Water	6020B	946865
460-292924-1 MSD	GW-11222397-111623-ZB-14	Total/NA	Water	6020B	946865
460-292924-1 DU	GW-11222397-111623-ZB-14	Total/NA	Water	6020B	946865

Lab Chronicle

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

Job ID: 460-292924-1

Client Sample ID: GW-11222397-111623-ZB-14

Lab Sample ID: 460-292924-1

Date Collected: 11/15/23 14:05

Matrix: Water

Date Received: 11/16/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			947029	VAD	EET EDI	11/29/23 00:35
Dissolved	Analysis	6020B		1	946962	YZH	EET EDI	11/29/23 02:05
Total/NA	Prep	3010A			946865	JKF	EET EDI	11/28/23 08:35
Total/NA	Analysis	6020B		1	947192	YZH	EET EDI	11/29/23 13:23
Total/NA	Prep	7470A			945911	FBT	EET EDI	11/21/23 06:35
Total/NA	Analysis	7470A		1	946005	FBT	EET EDI	11/21/23 12:08

Client Sample ID: GW-11222397-111623-ZB-15

Lab Sample ID: 460-292924-2

Date Collected: 11/16/23 12:20

Matrix: Water

Date Received: 11/16/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	946954	VBP	EET EDI	11/29/23 04:28
Dissolved	Prep	3010A			947029	VAD	EET EDI	11/29/23 00:35
Dissolved	Analysis	6020B		1	946962	YZH	EET EDI	11/29/23 02:10
Total/NA	Prep	3010A			946865	JKF	EET EDI	11/28/23 08:35
Total/NA	Analysis	6020B		1	947192	YZH	EET EDI	11/29/23 13:53
Total/NA	Prep	7470A			945911	FBT	EET EDI	11/21/23 06:35
Total/NA	Analysis	7470A		1	946005	FBT	EET EDI	11/21/23 12:20

Client Sample ID: GW-11222397-111623-CT-16

Lab Sample ID: 460-292924-3

Date Collected: 11/16/23 12:10

Matrix: Water

Date Received: 11/16/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			947029	VAD	EET EDI	11/29/23 00:35
Dissolved	Analysis	6020B		1	946962	YZH	EET EDI	11/29/23 02:15
Total/NA	Prep	3010A			946865	JKF	EET EDI	11/28/23 08:35
Total/NA	Analysis	6020B		1	947192	YZH	EET EDI	11/29/23 13:55
Total/NA	Prep	7470A			945911	FBT	EET EDI	11/21/23 06:35
Total/NA	Analysis	7470A		1	946005	FBT	EET EDI	11/21/23 12:22

Client Sample ID: GW-11222397-111623-CT-17

Lab Sample ID: 460-292924-4

Date Collected: 11/16/23 12:25

Matrix: Water

Date Received: 11/16/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			947029	VAD	EET EDI	11/29/23 00:35
Dissolved	Analysis	6020B		1	946962	YZH	EET EDI	11/29/23 02:22
Total/NA	Prep	3010A			946865	JKF	EET EDI	11/28/23 08:35
Total/NA	Analysis	6020B		1	947192	YZH	EET EDI	11/29/23 13:57
Total/NA	Prep	7470A			945911	FBT	EET EDI	11/21/23 06:35
Total/NA	Analysis	7470A		1	946005	FBT	EET EDI	11/21/23 12:24

Eurofins Edison

Lab Chronicle

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

Job ID: 460-292924-1

Client Sample ID: GW-11222397-111623-ZB-18

Lab Sample ID: 460-292924-5

Date Collected: 11/16/23 13:05

Matrix: Water

Date Received: 11/16/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			947029	VAD	EET EDI	11/29/23 00:35
Dissolved	Analysis	6020B		1	946962	YZH	EET EDI	11/29/23 02:24
Total/NA	Prep	3010A			946865	JKF	EET EDI	11/28/23 08:35
Total/NA	Analysis	6020B		1	947192	YZH	EET EDI	11/29/23 13:59
Total/NA	Prep	7470A			945911	FBT	EET EDI	11/21/23 06:35
Total/NA	Analysis	7470A		1	946005	FBT	EET EDI	11/21/23 12:25

Client Sample ID: TB-11222397-002

Lab Sample ID: 460-292924-6

Date Collected: 11/16/23 13:05

Matrix: Water

Date Received: 11/16/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	946954	VBP	EET EDI	11/28/23 23:34

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: 460-292924-1

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	01-01-24

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

Analysis Method	Prep Method	Matrix	Analyte
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 Manganese
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
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,2,4-Trichlorobenzene
8260B		Water	1,2,4-Trimethylbenzene
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane
8260B		Water	1,2-Dichloropropane
8260B		Water	1,3-Dichlorobenzene
8260B		Water	1,4-Dichlorobenzene
8260B		Water	2-Butanone (MEK)
8260B		Water	2-Hexanone
8260B		Water	4-Methyl-2-pentanone (MIBK)
8260B		Water	Acetone
8260B		Water	Benzene
8260B		Water	Bromodichloromethane

Eurofins Edison

Accreditation/Certification Summary

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

Job ID: 460-292924-1

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
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Cyclohexane
8260B		Water	Dibromochloromethane
8260B		Water	Dichlorodifluoromethane
8260B		Water	Ethylbenzene
8260B		Water	Isopropylbenzene
8260B		Water	Methyl acetate
8260B		Water	Methyl tert-butyl ether
8260B		Water	Methylcyclohexane
8260B		Water	Methylene Chloride
8260B		Water	Styrene
8260B		Water	Tetrachloroethene
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	Trichloroethene
8260B		Water	Trichlorofluoromethane
8260B		Water	Vinyl chloride
8260B		Water	Xylenes, Total

Method Summary

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

Job ID: 460-292924-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organics (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
5030B	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: Racer Trust

Job ID: 460-292924-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-292924-1	GW-11222397-111623-ZB-14	Water	11/15/23 14:05	11/16/23 19:00
460-292924-2	GW-11222397-111623-ZB-15	Water	11/16/23 12:20	11/16/23 19:00
460-292924-3	GW-11222397-111623-CT-16	Water	11/16/23 12:10	11/16/23 19:00
460-292924-4	GW-11222397-111623-CT-17	Water	11/16/23 12:25	11/16/23 19:00
460-292924-5	GW-11222397-111623-ZB-18	Water	11/16/23 13:05	11/16/23 19:00
460-292924-6	TB-11222397-002	Water	11/16/23 13:05	11/16/23 19:00

South Jersey Service Chain of Custody Record

Address: 801 Boxwood Rd
Wilmington, DE 19804

665156



Environment Testing
America

TAL-8210

Regulatory Program ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact		Project Manager: Sam Sadowski		Site Contact: Liz Flannery		Date		COC No: 1 of 1 COCs	
Company Name: GHD		Tell/Email		Lab Contact:		Carrier		Sampler	
Address: 410 Eagleview Blvd		Analysis Turnaround Time		Perform MS / MSD (Y / N)		Walk-in Client:		For Lab Use Only	
City/State/Zip: Exton PA 19341		☐ CALENDAR DAYS ☐ WORKING DAYS		6020 MN Dissolved		Lab Sampling:		Job / SDG No: 292924	
Phone: 215 776 0127		TAT if different from Below		6020 / 7470 Total Metals		Job / SDG No: 292924			
Fax:		☐ 2 weeks		7L VOCs 8260					
Project Name: Racer Trust		☐ 1 week							
Site:		☐ 2 days							
P O #		☐ 1 day							
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes:		
GWL 11222397-111623-ZB-14	11/15/13	1405	G	GW	6A	4	1		
GWL 11222397-111623-ZB-15	11/16/13	1220	G	GW	5	4	2		
GWL 11222397-111623-ZB-16	11/16/13	1210	G	GW	2	4	3		
GWL 11222397-111623-ZB-17	11/16/13	1225	G	GW	2	4	4		
GWL 11222397-111623-ZB-18	11/16/13	1305	G	GW	2	4	5		
TB 11222397-002	—	—	G	TB	2	4	6		
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		
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.							☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months		
Special Instructions/QC Requirements & Comments									
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.		Cooler Temp (°C) Obs'd: 0.9		Therm ID No. 10			
Relinquished by: Z. Brown		Company: GHD		Received by: [Signature]		Company: ETA		Date/Time: 11/16/13 1330	
Relinquished by: [Signature]		Company: ETA		Received by: [Signature]		Company: ETA		Date/Time: 11/16 1700	
Relinquished by: [Signature]		Company: ETA		Received in Laboratory by: [Signature]		Company: ETA		Date/Time: 11/16/13 1900	

IR Gun #

Number of Coolers:

Cooler Temperatures

RAW		CORRECTED	
Cooler #1:	0.9 °C	0.9 °C	0.9 °C
Cooler #2:	°C	°C	°C
Cooler #3:	°C	°C	°C
Cooler #4:	°C	°C	°C
Cooler #5:	°C	°C	°C
Cooler #6:	°C	°C	°C
Cooler #7:	°C	°C	°C
Cooler #8:	°C	°C	°C
Cooler #9:	°C	°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.

Initials

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

Date. 11/16/25

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 460-292924-1

Login Number: 292924

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

Generated 12/8/2023 5:07:53 PM

JOB DESCRIPTION

Racer Trust

JOB NUMBER

460-292923-1

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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Definitions/Glossary

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

Job ID: 460-292923-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
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
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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.
α	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/Site: Racer Trust

Job ID: 460-292923-1

Job ID: 460-292923-1

Laboratory: Eurofins Edison

Narrative

Job Narrative 460-292923-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/15/2023 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 3.3°C

Receipt Exceptions

Insufficient sample volume was provided for the following samples for the VOC MS/MSD analysis: GW-11222397-111523-CT-07 (460-292923-7), GW-11222397-111523-CT-07 (460-292923-7[MS]) and GW-11222397-111523-CT-07 (460-292923-7[MSD]). Containers for VOC were not received for MS/MSD.

Per laboratory policy, the Trip Blank sample date/time was added to reflect the latest sample date/time of the sampling event. TB-11222397-001 (460-292923-14)

GC/MS VOA

Method 8260DEL: The continuing calibration verification (CCV) associated with batch 460-946776 recovered above the upper control limit for 1,1,2,2-Tetrachloroethane and Methyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260DEL: The following sample was diluted to bring the concentration of target analytes within the calibration range: GW-11222397-111423-ZB-04 (460-292923-4). Elevated reporting limits (RLs) are provided.

Method 8260DEL: The continuing calibration verification (CCV) associated with batch 460-946954 recovered above the upper control limit for Chloromethane. The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported.

Method 8260DEL: The continuing calibration verification (CCV) associated with batch 460-947050 recovered above the upper control limit for Carbon disulfide, Cyclohexane and Methyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

GC/MS Semi VOA

Method 8270DEL: The continuing calibration verification (CCV) analyzed in batch 460-945850 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.

Method 8270DEL: The continuing calibration verification (CCV) associated with batch 460-945850 recovered above the upper control limit for 2,4-Dinitrophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Case Narrative

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

Job ID: 460-292923-1

Job ID: 460-292923-1 (Continued)

Laboratory: Eurofins Edison (Continued)

Method 8270DEL: The closing continuing calibration verification (CCVC) analyzed in batch 460-945850 was outside the method criteria for the following analyte(s): Benzaldehyde, Bis(2-ethylhexyl) phthalate and Di-n-octyl phthalate. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270DEL: The laboratory control sample duplicate (LCSD) for preparation batch 460-945744 and analytical batch 460-945850 recovered outside control limits for the following analytes: 2,4-Dinitrophenol, Di-n-butyl phthalate, N-Nitrosodi-n-propylamine, Benzo[b]fluoranthene and Benzo[a]pyrene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

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

Metals

Method 6020B: The RB contains copper and nickel greater than the reporting limit (RL). This was confirmed by analysis of the undigested sample bottle, therefore the results are reported.

RB-11222397-111523-ZB-13 (460-292923-13)

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

Detection Summary

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

Job ID: 460-292923-1

Client Sample ID: RB-11222397-111423-ZB-01

Lab Sample ID: 460-292923-1

No Detections.

Client Sample ID: GW-11222397-111423-ES-02

Lab Sample ID: 460-292923-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	89		1.0	0.37	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	2.4		1.0	0.43	ug/L	1		8260B	Total/NA
2-Butanone (MEK)	22		5.0	1.9	ug/L	1		8260B	Total/NA
Acetone	47		5.0	4.4	ug/L	1		8260B	Total/NA
Benzene	96		1.0	0.20	ug/L	1		8260B	Total/NA
Cyclohexane	120		1.0	0.32	ug/L	1		8260B	Total/NA
Ethylbenzene	320		1.0	0.30	ug/L	1		8260B	Total/NA
Isopropylbenzene	8.3		1.0	0.34	ug/L	1		8260B	Total/NA
Methylcyclohexane	29		1.0	0.71	ug/L	1		8260B	Total/NA
Toluene	26		1.0	0.38	ug/L	1		8260B	Total/NA
Xylenes, Total	290		2.0	0.65	ug/L	1		8260B	Total/NA
1,1'-Biphenyl	2.4	J	10	1.2	ug/L	1		8270C	Total/NA
2,4-Dimethylphenol	7.8	J	10	0.62	ug/L	1		8270C	Total/NA
2-Methylnaphthalene	34		10	0.53	ug/L	1		8270C	Total/NA
2-Methylphenol	4.0	J	10	0.67	ug/L	1		8270C	Total/NA
Diethyl phthalate	1.2	J	10	0.98	ug/L	1		8270C	Total/NA
Fluorene	1.0	J	10	0.91	ug/L	1		8270C	Total/NA
Naphthalene	77		2.0	0.54	ug/L	1		8270C	Total/NA

Client Sample ID: GW-11222397-111423-ES-03

Lab Sample ID: 460-292923-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1'-Biphenyl	2.6	J	10	1.2	ug/L	1		8270C	Total/NA
2,4-Dimethylphenol	8.2	J	10	0.62	ug/L	1		8270C	Total/NA
2-Methylnaphthalene	36		10	0.53	ug/L	1		8270C	Total/NA
2-Methylphenol	4.4	J	10	0.67	ug/L	1		8270C	Total/NA
Diethyl phthalate	1.2	J	10	0.98	ug/L	1		8270C	Total/NA
Fluorene	1.1	J	10	0.91	ug/L	1		8270C	Total/NA
Naphthalene	81		2.0	0.54	ug/L	1		8270C	Total/NA

Client Sample ID: GW-11222397-111423-ZB-04

Lab Sample ID: 460-292923-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	36		5.0	1.9	ug/L	5		8260B	Total/NA
1,2-Dichloroethane	20		5.0	2.2	ug/L	5		8260B	Total/NA
Benzene	970		5.0	1.0	ug/L	5		8260B	Total/NA
cis-1,2-Dichloroethene	1.8	J	5.0	1.1	ug/L	5		8260B	Total/NA
Cyclohexane	250		5.0	1.6	ug/L	5		8260B	Total/NA
Ethylbenzene	550		5.0	1.5	ug/L	5		8260B	Total/NA
Isopropylbenzene	37		5.0	1.7	ug/L	5		8260B	Total/NA
Methylcyclohexane	86		5.0	3.5	ug/L	5		8260B	Total/NA
Toluene	210		5.0	1.9	ug/L	5		8260B	Total/NA
Xylenes, Total	270		10	3.3	ug/L	5		8260B	Total/NA
2,4-Dimethylphenol	3.0	J	10	0.62	ug/L	1		8270C	Total/NA
2-Methylnaphthalene	1.1	J	10	0.53	ug/L	1		8270C	Total/NA
4-Methylphenol	0.65	J	10	0.65	ug/L	1		8270C	Total/NA
Naphthalene	30		2.0	0.54	ug/L	1		8270C	Total/NA
Phenol	4.2	J	10	0.29	ug/L	1		8270C	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: 460-292923-1

Client Sample ID: GW-11222397-111423-ZB-05

Lab Sample ID: 460-292923-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	69		1.0	0.37	ug/L	1		8260B	Total/NA
2-Butanone (MEK)	26		5.0	1.9	ug/L	1		8260B	Total/NA
Acetone	50		5.0	4.4	ug/L	1		8260B	Total/NA
Benzene	20		1.0	0.20	ug/L	1		8260B	Total/NA
Cyclohexane	170		1.0	0.32	ug/L	1		8260B	Total/NA
Ethylbenzene	200		1.0	0.30	ug/L	1		8260B	Total/NA
Isopropylbenzene	21		1.0	0.34	ug/L	1		8260B	Total/NA
Methylcyclohexane	88		1.0	0.71	ug/L	1		8260B	Total/NA
Toluene	28		1.0	0.38	ug/L	1		8260B	Total/NA
Xylenes, Total	500		2.0	0.65	ug/L	1		8260B	Total/NA
2,4-Dimethylphenol	3.1	J	10	0.62	ug/L	1		8270C	Total/NA
2-Methylnaphthalene	13		10	0.53	ug/L	1		8270C	Total/NA
Acetophenone	11		10	2.3	ug/L	1		8270C	Total/NA
Naphthalene	40		2.0	0.54	ug/L	1		8270C	Total/NA

Client Sample ID: GW-11222397-111523-CT-06

Lab Sample ID: 460-292923-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	300		1.0	0.37	ug/L	1		8260B	Total/NA
2-Butanone (MEK)	13		5.0	1.9	ug/L	1		8260B	Total/NA
4-Methyl-2-pentanone (MIBK)	3.7	J	5.0	1.3	ug/L	1		8260B	Total/NA
Ethylbenzene	91		1.0	0.30	ug/L	1		8260B	Total/NA
Isopropylbenzene	28		1.0	0.34	ug/L	1		8260B	Total/NA
Methylcyclohexane	88		1.0	0.71	ug/L	1		8260B	Total/NA
Xylenes, Total	420		2.0	0.65	ug/L	1		8260B	Total/NA
Cyclohexane - DL	190	D	2.0	0.64	ug/L	2		8260B	Total/NA
2-Methylnaphthalene	16		10	0.53	ug/L	1		8270C	Total/NA
Naphthalene	60		2.0	0.54	ug/L	1		8270C	Total/NA

Client Sample ID: GW-11222397-111523-CT-07

Lab Sample ID: 460-292923-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	83		1.0	0.37	ug/L	1		8260B	Total/NA
2-Butanone (MEK)	21		5.0	1.9	ug/L	1		8260B	Total/NA
Acetone	36		5.0	4.4	ug/L	1		8260B	Total/NA
Cyclohexane	110		1.0	0.32	ug/L	1		8260B	Total/NA
Ethylbenzene	81		1.0	0.30	ug/L	1		8260B	Total/NA
Isopropylbenzene	12		1.0	0.34	ug/L	1		8260B	Total/NA
Methylcyclohexane	55		1.0	0.71	ug/L	1		8260B	Total/NA
Styrene	0.45	J	1.0	0.42	ug/L	1		8260B	Total/NA
Toluene	14		1.0	0.38	ug/L	1		8260B	Total/NA
Xylenes, Total	140		2.0	0.65	ug/L	1		8260B	Total/NA
2-Methylnaphthalene	5.5	J	10	0.53	ug/L	1		8270C	Total/NA
Acetophenone	7.4	J F1	10	2.3	ug/L	1		8270C	Total/NA
Naphthalene	31		2.0	0.54	ug/L	1		8270C	Total/NA

Client Sample ID: RB-11222397-111523-ZB-08

Lab Sample ID: 460-292923-8

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Detection Summary

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

Job ID: 460-292923-1

Client Sample ID: GW-11222397-111523-ZB-09

Lab Sample ID: 460-292923-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.64	J	1.0	0.25	ug/L	1		8260B	Total/NA
Trichlorofluoromethane	2.2		1.0	0.32	ug/L	1		8260B	Total/NA

Client Sample ID: GW-11222397-111523-ZB-10

Lab Sample ID: 460-292923-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	5.7		1.0	0.37	ug/L	1		8260B	Total/NA
2-Butanone (MEK)	5.0		5.0	1.9	ug/L	1		8260B	Total/NA
4-Methyl-2-pentanone (MIBK)	1.3	J	5.0	1.3	ug/L	1		8260B	Total/NA
Acetone	29		5.0	4.4	ug/L	1		8260B	Total/NA
Carbon disulfide	19		1.0	0.82	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	1.4		1.0	0.22	ug/L	1		8260B	Total/NA
Ethylbenzene	2.2		1.0	0.30	ug/L	1		8260B	Total/NA
Methylene Chloride	0.38	J	1.0	0.32	ug/L	1		8260B	Total/NA
Styrene	1.3		1.0	0.42	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.40	J	1.0	0.25	ug/L	1		8260B	Total/NA
Toluene	1.3		1.0	0.38	ug/L	1		8260B	Total/NA
Trichloroethene	0.31	J	1.0	0.31	ug/L	1		8260B	Total/NA
Trichlorofluoromethane	1.8		1.0	0.32	ug/L	1		8260B	Total/NA
Vinyl chloride	0.87	J	1.0	0.17	ug/L	1		8260B	Total/NA
Xylenes, Total	13		2.0	0.65	ug/L	1		8260B	Total/NA

Client Sample ID: GW-11222397-111523-ZB-11

Lab Sample ID: 460-292923-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	5.4		1.0	0.37	ug/L	1		8260B	Total/NA
2-Butanone (MEK)	5.9		5.0	1.9	ug/L	1		8260B	Total/NA
4-Methyl-2-pentanone (MIBK)	1.5	J	5.0	1.3	ug/L	1		8260B	Total/NA
Acetone	28		5.0	4.4	ug/L	1		8260B	Total/NA
Carbon disulfide	19		1.0	0.82	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	1.3		1.0	0.22	ug/L	1		8260B	Total/NA
Ethylbenzene	2.3		1.0	0.30	ug/L	1		8260B	Total/NA
Methylene Chloride	0.37	J	1.0	0.32	ug/L	1		8260B	Total/NA
Styrene	1.5		1.0	0.42	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.39	J	1.0	0.25	ug/L	1		8260B	Total/NA
Toluene	1.3		1.0	0.38	ug/L	1		8260B	Total/NA
Trichlorofluoromethane	1.6		1.0	0.32	ug/L	1		8260B	Total/NA
Vinyl chloride	0.85	J	1.0	0.17	ug/L	1		8260B	Total/NA
Xylenes, Total	13		2.0	0.65	ug/L	1		8260B	Total/NA

Client Sample ID: GW-11222397-111523-ZB-12

Lab Sample ID: 460-292923-12

No Detections.

Client Sample ID: RB-11222397-111523-ZB-13

Lab Sample ID: 460-292923-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	46.9		4.0	2.5	ug/L	1		6020B	Total/NA
Manganese	1.7	J	8.0	1.5	ug/L	1		6020B	Total/NA
Nickel	100		4.0	0.91	ug/L	1		6020B	Total/NA

Client Sample ID: TB-11222397-001

Lab Sample ID: 460-292923-14

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: 460-292923-1

Client Sample ID: RB-11222397-111423-ZB-01

Lab Sample ID: 460-292923-1

Date Collected: 11/14/23 13:00

Matrix: Water

Date Received: 11/15/23 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		11/20/23 10:14	11/20/23 23:40	1
2,2'-oxybis[1-chloropropane]	0.63	U	10	0.63	ug/L		11/20/23 10:14	11/20/23 23:40	1
2,4,5-Trichlorophenol	0.88	U	10	0.88	ug/L		11/20/23 10:14	11/20/23 23:40	1
2,4,6-Trichlorophenol	0.86	U	10	0.86	ug/L		11/20/23 10:14	11/20/23 23:40	1
2,4-Dichlorophenol	1.1	U	10	1.1	ug/L		11/20/23 10:14	11/20/23 23:40	1
2,4-Dimethylphenol	0.62	U	10	0.62	ug/L		11/20/23 10:14	11/20/23 23:40	1
2,4-Dinitrophenol	2.6	U **	40	2.6	ug/L		11/20/23 10:14	11/20/23 23:40	1
2,4-Dinitrotoluene	1.0	U	10	1.0	ug/L		11/20/23 10:14	11/20/23 23:40	1
2,6-Dinitrotoluene	0.83	U	2.0	0.83	ug/L		11/20/23 10:14	11/20/23 23:40	1
2-Chloronaphthalene	1.2	U	10	1.2	ug/L		11/20/23 10:14	11/20/23 23:40	1
2-Chlorophenol	0.38	U	10	0.38	ug/L		11/20/23 10:14	11/20/23 23:40	1
2-Methylnaphthalene	0.53	U	10	0.53	ug/L		11/20/23 10:14	11/20/23 23:40	1
2-Methylphenol	0.67	U	10	0.67	ug/L		11/20/23 10:14	11/20/23 23:40	1
2-Nitroaniline	0.47	U	10	0.47	ug/L		11/20/23 10:14	11/20/23 23:40	1
2-Nitrophenol	0.75	U	10	0.75	ug/L		11/20/23 10:14	11/20/23 23:40	1
3,3'-Dichlorobenzidine	1.4	U	10	1.4	ug/L		11/20/23 10:14	11/20/23 23:40	1
3-Nitroaniline	1.9	U	10	1.9	ug/L		11/20/23 10:14	11/20/23 23:40	1
4,6-Dinitro-2-methylphenol	3.0	U	20	3.0	ug/L		11/20/23 10:14	11/20/23 23:40	1
4-Bromophenyl phenyl ether	0.75	U	10	0.75	ug/L		11/20/23 10:14	11/20/23 23:40	1
4-Chloro-3-methylphenol	0.58	U	10	0.58	ug/L		11/20/23 10:14	11/20/23 23:40	1
4-Chlorophenyl phenyl ether	1.3	U	10	1.3	ug/L		11/20/23 10:14	11/20/23 23:40	1
4-Methylphenol	0.65	U	10	0.65	ug/L		11/20/23 10:14	11/20/23 23:40	1
4-Nitroaniline	1.2	U	10	1.2	ug/L		11/20/23 10:14	11/20/23 23:40	1
4-Nitrophenol	4.0	U	20	4.0	ug/L		11/20/23 10:14	11/20/23 23:40	1
Acenaphthene	1.1	U	10	1.1	ug/L		11/20/23 10:14	11/20/23 23:40	1
Acenaphthylene	0.82	U	10	0.82	ug/L		11/20/23 10:14	11/20/23 23:40	1
Acetophenone	2.3	U	10	2.3	ug/L		11/20/23 10:14	11/20/23 23:40	1
Anthracene	1.3	U	10	1.3	ug/L		11/20/23 10:14	11/20/23 23:40	1
Atrazine	1.3	U	2.0	1.3	ug/L		11/20/23 10:14	11/20/23 23:40	1
Benzaldehyde	2.1	U	10	2.1	ug/L		11/20/23 10:14	11/20/23 23:40	1
Benzo[a]anthracene	0.59	U	1.0	0.59	ug/L		11/20/23 10:14	11/20/23 23:40	1
Benzo[a]pyrene	0.41	U **	1.0	0.41	ug/L		11/20/23 10:14	11/20/23 23:40	1
Benzo[b]fluoranthene	0.68	U **	2.0	0.68	ug/L		11/20/23 10:14	11/20/23 23:40	1
Benzo[g,h,i]perylene	0.70	U	10	0.70	ug/L		11/20/23 10:14	11/20/23 23:40	1
Benzo[k]fluoranthene	0.67	U	1.0	0.67	ug/L		11/20/23 10:14	11/20/23 23:40	1
Bis(2-chloroethoxy)methane	0.59	U	10	0.59	ug/L		11/20/23 10:14	11/20/23 23:40	1
Bis(2-chloroethyl)ether	0.63	U	1.0	0.63	ug/L		11/20/23 10:14	11/20/23 23:40	1
Bis(2-ethylhexyl) phthalate	0.80	U	2.0	0.80	ug/L		11/20/23 10:14	11/20/23 23:40	1
Butyl benzyl phthalate	0.85	U	10	0.85	ug/L		11/20/23 10:14	11/20/23 23:40	1
Caprolactam	2.2	U	10	2.2	ug/L		11/20/23 10:14	11/20/23 23:40	1
Carbazole	0.68	U	10	0.68	ug/L		11/20/23 10:14	11/20/23 23:40	1
Chrysene	0.91	U	2.0	0.91	ug/L		11/20/23 10:14	11/20/23 23:40	1
Dibenz(a,h)anthracene	0.72	U	1.0	0.72	ug/L		11/20/23 10:14	11/20/23 23:40	1
Dibenzofuran	1.1	U	10	1.1	ug/L		11/20/23 10:14	11/20/23 23:40	1
Diethyl phthalate	0.98	U	10	0.98	ug/L		11/20/23 10:14	11/20/23 23:40	1
Dimethyl phthalate	0.77	U	10	0.77	ug/L		11/20/23 10:14	11/20/23 23:40	1
Di-n-butyl phthalate	0.84	U **	10	0.84	ug/L		11/20/23 10:14	11/20/23 23:40	1
Di-n-octyl phthalate	0.75	U	10	0.75	ug/L		11/20/23 10:14	11/20/23 23:40	1
Fluoranthene	0.84	U	10	0.84	ug/L		11/20/23 10:14	11/20/23 23:40	1

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Client Sample Results

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

Job ID: 460-292923-1

Client Sample ID: RB-11222397-111423-ZB-01

Lab Sample ID: 460-292923-1

Date Collected: 11/14/23 13:00

Matrix: Water

Date Received: 11/15/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	0.91	U	10	0.91	ug/L		11/20/23 10:14	11/20/23 23:40	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		11/20/23 10:14	11/20/23 23:40	1
Hexachlorobutadiene	0.78	U	1.0	0.78	ug/L		11/20/23 10:14	11/20/23 23:40	1
Hexachlorocyclopentadiene	3.6	U	10	3.6	ug/L		11/20/23 10:14	11/20/23 23:40	1
Hexachloroethane	0.80	U	2.0	0.80	ug/L		11/20/23 10:14	11/20/23 23:40	1
Indeno[1,2,3-cd]pyrene	0.94	U	2.0	0.94	ug/L		11/20/23 10:14	11/20/23 23:40	1
Isophorone	0.80	U	10	0.80	ug/L		11/20/23 10:14	11/20/23 23:40	1
Naphthalene	0.54	U	2.0	0.54	ug/L		11/20/23 10:14	11/20/23 23:40	1
Nitrobenzene	0.57	U	1.0	0.57	ug/L		11/20/23 10:14	11/20/23 23:40	1
N-Nitrosodi-n-propylamine	0.43	U *	1.0	0.43	ug/L		11/20/23 10:14	11/20/23 23:40	1
N-Nitrosodiphenylamine	0.89	U	10	0.89	ug/L		11/20/23 10:14	11/20/23 23:40	1
Pentachlorophenol	1.4	U	20	1.4	ug/L		11/20/23 10:14	11/20/23 23:40	1
Phenanthrene	1.3	U	10	1.3	ug/L		11/20/23 10:14	11/20/23 23:40	1
Phenol	0.29	U	10	0.29	ug/L		11/20/23 10:14	11/20/23 23:40	1
Pyrene	1.6	U	10	1.6	ug/L		11/20/23 10:14	11/20/23 23:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	130		37 - 150				11/20/23 10:14	11/20/23 23:40	1
2-Fluorobiphenyl	104		46 - 139				11/20/23 10:14	11/20/23 23:40	1
2-Fluorophenol (Surr)	50		16 - 80				11/20/23 10:14	11/20/23 23:40	1
Nitrobenzene-d5 (Surr)	111		51 - 145				11/20/23 10:14	11/20/23 23:40	1
Phenol-d5 (Surr)	35		10 - 56				11/20/23 10:14	11/20/23 23:40	1
Terphenyl-d14 (Surr)	103		13 - 150				11/20/23 10:14	11/20/23 23:40	1

Client Sample ID: GW-11222397-111423-ES-02

Lab Sample ID: 460-292923-2

Date Collected: 11/14/23 13:50

Matrix: Water

Date Received: 11/15/23 19:00

Method: SW846 8260B - 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			11/28/23 04:21	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/28/23 04:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/28/23 04:21	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/28/23 04:21	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/28/23 04:21	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/28/23 04:21	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/28/23 04:21	1
1,2,4-Trimethylbenzene	89		1.0	0.37	ug/L			11/28/23 04:21	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/28/23 04:21	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/28/23 04:21	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/28/23 04:21	1
1,2-Dichloroethane	2.4		1.0	0.43	ug/L			11/28/23 04:21	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/28/23 04:21	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/28/23 04:21	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/28/23 04:21	1
2-Butanone (MEK)	22		5.0	1.9	ug/L			11/28/23 04:21	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/28/23 04:21	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			11/28/23 04:21	1
Acetone	47		5.0	4.4	ug/L			11/28/23 04:21	1
Benzene	96		1.0	0.20	ug/L			11/28/23 04:21	1

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Client Sample Results

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

Job ID: 460-292923-1

Client Sample ID: GW-11222397-111423-ES-02

Lab Sample ID: 460-292923-2

Date Collected: 11/14/23 13:50

Matrix: Water

Date Received: 11/15/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			11/28/23 04:21	1
Bromoform	0.54	U	1.0	0.54	ug/L			11/28/23 04:21	1
Bromomethane	0.55	U	1.0	0.55	ug/L			11/28/23 04:21	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			11/28/23 04:21	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			11/28/23 04:21	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/28/23 04:21	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/28/23 04:21	1
Chloroform	0.33	U	1.0	0.33	ug/L			11/28/23 04:21	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/28/23 04:21	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			11/28/23 04:21	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/28/23 04:21	1
Cyclohexane	120		1.0	0.32	ug/L			11/28/23 04:21	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			11/28/23 04:21	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/28/23 04:21	1
Ethylbenzene	320		1.0	0.30	ug/L			11/28/23 04:21	1
Isopropylbenzene	8.3		1.0	0.34	ug/L			11/28/23 04:21	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/28/23 04:21	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/28/23 04:21	1
Methylcyclohexane	29		1.0	0.71	ug/L			11/28/23 04:21	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			11/28/23 04:21	1
Styrene	0.42	U	1.0	0.42	ug/L			11/28/23 04:21	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			11/28/23 04:21	1
Toluene	26		1.0	0.38	ug/L			11/28/23 04:21	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/28/23 04:21	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/28/23 04:21	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			11/28/23 04:21	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			11/28/23 04:21	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			11/28/23 04:21	1
Xylenes, Total	290		2.0	0.65	ug/L			11/28/23 04:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 128					11/28/23 04:21	1
4-Bromofluorobenzene	104		76 - 120					11/28/23 04:21	1
Dibromofluoromethane (Surr)	94		77 - 132					11/28/23 04:21	1
Toluene-d8 (Surr)	99		80 - 120					11/28/23 04:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	2.4	J	10	1.2	ug/L		11/20/23 10:14	11/21/23 00:01	1
2,2'-oxybis[1-chloropropane]	0.63	U	10	0.63	ug/L		11/20/23 10:14	11/21/23 00:01	1
2,4,5-Trichlorophenol	0.88	U	10	0.88	ug/L		11/20/23 10:14	11/21/23 00:01	1
2,4,6-Trichlorophenol	0.86	U	10	0.86	ug/L		11/20/23 10:14	11/21/23 00:01	1
2,4-Dichlorophenol	1.1	U	10	1.1	ug/L		11/20/23 10:14	11/21/23 00:01	1
2,4-Dimethylphenol	7.8	J	10	0.62	ug/L		11/20/23 10:14	11/21/23 00:01	1
2,4-Dinitrophenol	2.6	U *	40	2.6	ug/L		11/20/23 10:14	11/21/23 00:01	1
2,4-Dinitrotoluene	1.0	U	10	1.0	ug/L		11/20/23 10:14	11/21/23 00:01	1
2,6-Dinitrotoluene	0.83	U	2.0	0.83	ug/L		11/20/23 10:14	11/21/23 00:01	1
2-Chloronaphthalene	1.2	U	10	1.2	ug/L		11/20/23 10:14	11/21/23 00:01	1
2-Chlorophenol	0.38	U	10	0.38	ug/L		11/20/23 10:14	11/21/23 00:01	1
2-Methylnaphthalene	34		10	0.53	ug/L		11/20/23 10:14	11/21/23 00:01	1

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Client Sample Results

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

Job ID: 460-292923-1

Client Sample ID: GW-11222397-111423-ES-02

Lab Sample ID: 460-292923-2

Date Collected: 11/14/23 13:50

Matrix: Water

Date Received: 11/15/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	4.0	J	10	0.67	ug/L		11/20/23 10:14	11/21/23 00:01	1
2-Nitroaniline	0.47	U	10	0.47	ug/L		11/20/23 10:14	11/21/23 00:01	1
2-Nitrophenol	0.75	U	10	0.75	ug/L		11/20/23 10:14	11/21/23 00:01	1
3,3'-Dichlorobenzidine	1.4	U	10	1.4	ug/L		11/20/23 10:14	11/21/23 00:01	1
3-Nitroaniline	1.9	U	10	1.9	ug/L		11/20/23 10:14	11/21/23 00:01	1
4,6-Dinitro-2-methylphenol	3.0	U	20	3.0	ug/L		11/20/23 10:14	11/21/23 00:01	1
4-Bromophenyl phenyl ether	0.75	U	10	0.75	ug/L		11/20/23 10:14	11/21/23 00:01	1
4-Chloro-3-methylphenol	0.58	U	10	0.58	ug/L		11/20/23 10:14	11/21/23 00:01	1
4-Chlorophenyl phenyl ether	1.3	U	10	1.3	ug/L		11/20/23 10:14	11/21/23 00:01	1
4-Methylphenol	0.65	U	10	0.65	ug/L		11/20/23 10:14	11/21/23 00:01	1
4-Nitroaniline	1.2	U	10	1.2	ug/L		11/20/23 10:14	11/21/23 00:01	1
4-Nitrophenol	4.0	U	20	4.0	ug/L		11/20/23 10:14	11/21/23 00:01	1
Acenaphthene	1.1	U	10	1.1	ug/L		11/20/23 10:14	11/21/23 00:01	1
Acenaphthylene	0.82	U	10	0.82	ug/L		11/20/23 10:14	11/21/23 00:01	1
Acetophenone	2.3	U	10	2.3	ug/L		11/20/23 10:14	11/21/23 00:01	1
Anthracene	1.3	U	10	1.3	ug/L		11/20/23 10:14	11/21/23 00:01	1
Atrazine	1.3	U	2.0	1.3	ug/L		11/20/23 10:14	11/21/23 00:01	1
Benzaldehyde	2.1	U	10	2.1	ug/L		11/20/23 10:14	11/21/23 00:01	1
Benzo[a]anthracene	0.59	U	1.0	0.59	ug/L		11/20/23 10:14	11/21/23 00:01	1
Benzo[a]pyrene	0.41	U **	1.0	0.41	ug/L		11/20/23 10:14	11/21/23 00:01	1
Benzo[b]fluoranthene	0.68	U **	2.0	0.68	ug/L		11/20/23 10:14	11/21/23 00:01	1
Benzo[g,h,i]perylene	0.70	U	10	0.70	ug/L		11/20/23 10:14	11/21/23 00:01	1
Benzo[k]fluoranthene	0.67	U	1.0	0.67	ug/L		11/20/23 10:14	11/21/23 00:01	1
Bis(2-chloroethoxy)methane	0.59	U	10	0.59	ug/L		11/20/23 10:14	11/21/23 00:01	1
Bis(2-chloroethyl)ether	0.63	U	1.0	0.63	ug/L		11/20/23 10:14	11/21/23 00:01	1
Bis(2-ethylhexyl) phthalate	0.80	U	2.0	0.80	ug/L		11/20/23 10:14	11/21/23 00:01	1
Butyl benzyl phthalate	0.85	U	10	0.85	ug/L		11/20/23 10:14	11/21/23 00:01	1
Caprolactam	2.2	U	10	2.2	ug/L		11/20/23 10:14	11/21/23 00:01	1
Carbazole	0.68	U	10	0.68	ug/L		11/20/23 10:14	11/21/23 00:01	1
Chrysene	0.91	U	2.0	0.91	ug/L		11/20/23 10:14	11/21/23 00:01	1
Dibenz(a,h)anthracene	0.72	U	1.0	0.72	ug/L		11/20/23 10:14	11/21/23 00:01	1
Dibenzofuran	1.1	U	10	1.1	ug/L		11/20/23 10:14	11/21/23 00:01	1
Diethyl phthalate	1.2	J	10	0.98	ug/L		11/20/23 10:14	11/21/23 00:01	1
Dimethyl phthalate	0.77	U	10	0.77	ug/L		11/20/23 10:14	11/21/23 00:01	1
Di-n-butyl phthalate	0.84	U **	10	0.84	ug/L		11/20/23 10:14	11/21/23 00:01	1
Di-n-octyl phthalate	0.75	U	10	0.75	ug/L		11/20/23 10:14	11/21/23 00:01	1
Fluoranthene	0.84	U	10	0.84	ug/L		11/20/23 10:14	11/21/23 00:01	1
Fluorene	1.0	J	10	0.91	ug/L		11/20/23 10:14	11/21/23 00:01	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		11/20/23 10:14	11/21/23 00:01	1
Hexachlorobutadiene	0.78	U	1.0	0.78	ug/L		11/20/23 10:14	11/21/23 00:01	1
Hexachlorocyclopentadiene	3.6	U	10	3.6	ug/L		11/20/23 10:14	11/21/23 00:01	1
Hexachloroethane	0.80	U	2.0	0.80	ug/L		11/20/23 10:14	11/21/23 00:01	1
Indeno[1,2,3-cd]pyrene	0.94	U	2.0	0.94	ug/L		11/20/23 10:14	11/21/23 00:01	1
Isophorone	0.80	U	10	0.80	ug/L		11/20/23 10:14	11/21/23 00:01	1
Naphthalene	77		2.0	0.54	ug/L		11/20/23 10:14	11/21/23 00:01	1
Nitrobenzene	0.57	U	1.0	0.57	ug/L		11/20/23 10:14	11/21/23 00:01	1
N-Nitrosodi-n-propylamine	0.43	U **	1.0	0.43	ug/L		11/20/23 10:14	11/21/23 00:01	1
N-Nitrosodiphenylamine	0.89	U	10	0.89	ug/L		11/20/23 10:14	11/21/23 00:01	1
Pentachlorophenol	1.4	U	20	1.4	ug/L		11/20/23 10:14	11/21/23 00:01	1

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Client Sample Results

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

Job ID: 460-292923-1

Client Sample ID: GW-11222397-111423-ES-02

Lab Sample ID: 460-292923-2

Date Collected: 11/14/23 13:50

Matrix: Water

Date Received: 11/15/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	1.3	U	10	1.3	ug/L		11/20/23 10:14	11/21/23 00:01	1
Phenol	0.29	U	10	0.29	ug/L		11/20/23 10:14	11/21/23 00:01	1
Pyrene	1.6	U	10	1.6	ug/L		11/20/23 10:14	11/21/23 00:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	132		37 - 150				11/20/23 10:14	11/21/23 00:01	1
2-Fluorobiphenyl	112		46 - 139				11/20/23 10:14	11/21/23 00:01	1
2-Fluorophenol (Surr)	56		16 - 80				11/20/23 10:14	11/21/23 00:01	1
Nitrobenzene-d5 (Surr)	119		51 - 145				11/20/23 10:14	11/21/23 00:01	1
Phenol-d5 (Surr)	42		10 - 56				11/20/23 10:14	11/21/23 00:01	1
Terphenyl-d14 (Surr)	65		13 - 150				11/20/23 10:14	11/21/23 00:01	1

Client Sample ID: GW-11222397-111423-ES-03

Lab Sample ID: 460-292923-3

Date Collected: 11/14/23 14:00

Matrix: Water

Date Received: 11/15/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	2.6	J	10	1.2	ug/L		11/20/23 10:14	11/21/23 01:05	1
2,2'-oxybis[1-chloropropane]	0.63	U	10	0.63	ug/L		11/20/23 10:14	11/21/23 01:05	1
2,4,5-Trichlorophenol	0.88	U	10	0.88	ug/L		11/20/23 10:14	11/21/23 01:05	1
2,4,6-Trichlorophenol	0.86	U	10	0.86	ug/L		11/20/23 10:14	11/21/23 01:05	1
2,4-Dichlorophenol	1.1	U	10	1.1	ug/L		11/20/23 10:14	11/21/23 01:05	1
2,4-Dimethylphenol	8.2	J	10	0.62	ug/L		11/20/23 10:14	11/21/23 01:05	1
2,4-Dinitrophenol	2.6	U *	40	2.6	ug/L		11/20/23 10:14	11/21/23 01:05	1
2,4-Dinitrotoluene	1.0	U	10	1.0	ug/L		11/20/23 10:14	11/21/23 01:05	1
2,6-Dinitrotoluene	0.83	U	2.0	0.83	ug/L		11/20/23 10:14	11/21/23 01:05	1
2-Chloronaphthalene	1.2	U	10	1.2	ug/L		11/20/23 10:14	11/21/23 01:05	1
2-Chlorophenol	0.38	U	10	0.38	ug/L		11/20/23 10:14	11/21/23 01:05	1
2-Methylnaphthalene	36		10	0.53	ug/L		11/20/23 10:14	11/21/23 01:05	1
2-Methylphenol	4.4	J	10	0.67	ug/L		11/20/23 10:14	11/21/23 01:05	1
2-Nitroaniline	0.47	U	10	0.47	ug/L		11/20/23 10:14	11/21/23 01:05	1
2-Nitrophenol	0.75	U	10	0.75	ug/L		11/20/23 10:14	11/21/23 01:05	1
3,3'-Dichlorobenzidine	1.4	U	10	1.4	ug/L		11/20/23 10:14	11/21/23 01:05	1
3-Nitroaniline	1.9	U	10	1.9	ug/L		11/20/23 10:14	11/21/23 01:05	1
4,6-Dinitro-2-methylphenol	3.0	U	20	3.0	ug/L		11/20/23 10:14	11/21/23 01:05	1
4-Bromophenyl phenyl ether	0.75	U	10	0.75	ug/L		11/20/23 10:14	11/21/23 01:05	1
4-Chloro-3-methylphenol	0.58	U	10	0.58	ug/L		11/20/23 10:14	11/21/23 01:05	1
4-Chlorophenyl phenyl ether	1.3	U	10	1.3	ug/L		11/20/23 10:14	11/21/23 01:05	1
4-Methylphenol	0.65	U	10	0.65	ug/L		11/20/23 10:14	11/21/23 01:05	1
4-Nitroaniline	1.2	U	10	1.2	ug/L		11/20/23 10:14	11/21/23 01:05	1
4-Nitrophenol	4.0	U	20	4.0	ug/L		11/20/23 10:14	11/21/23 01:05	1
Acenaphthene	1.1	U	10	1.1	ug/L		11/20/23 10:14	11/21/23 01:05	1
Acenaphthylene	0.82	U	10	0.82	ug/L		11/20/23 10:14	11/21/23 01:05	1
Acetophenone	2.3	U	10	2.3	ug/L		11/20/23 10:14	11/21/23 01:05	1
Anthracene	1.3	U	10	1.3	ug/L		11/20/23 10:14	11/21/23 01:05	1
Atrazine	1.3	U	2.0	1.3	ug/L		11/20/23 10:14	11/21/23 01:05	1
Benzaldehyde	2.1	U	10	2.1	ug/L		11/20/23 10:14	11/21/23 01:05	1
Benzo[a]anthracene	0.59	U	1.0	0.59	ug/L		11/20/23 10:14	11/21/23 01:05	1
Benzo[a]pyrene	0.41	U *	1.0	0.41	ug/L		11/20/23 10:14	11/21/23 01:05	1

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Client Sample Results

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

Job ID: 460-292923-1

Client Sample ID: GW-11222397-111423-ES-03

Lab Sample ID: 460-292923-3

Date Collected: 11/14/23 14:00

Matrix: Water

Date Received: 11/15/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	0.68	U **	2.0	0.68	ug/L		11/20/23 10:14	11/21/23 01:05	1
Benzo[g,h,i]perylene	0.70	U	10	0.70	ug/L		11/20/23 10:14	11/21/23 01:05	1
Benzo[k]fluoranthene	0.67	U	1.0	0.67	ug/L		11/20/23 10:14	11/21/23 01:05	1
Bis(2-chloroethoxy)methane	0.59	U	10	0.59	ug/L		11/20/23 10:14	11/21/23 01:05	1
Bis(2-chloroethyl)ether	0.63	U	1.0	0.63	ug/L		11/20/23 10:14	11/21/23 01:05	1
Bis(2-ethylhexyl) phthalate	0.80	U	2.0	0.80	ug/L		11/20/23 10:14	11/21/23 01:05	1
Butyl benzyl phthalate	0.85	U	10	0.85	ug/L		11/20/23 10:14	11/21/23 01:05	1
Caprolactam	2.2	U	10	2.2	ug/L		11/20/23 10:14	11/21/23 01:05	1
Carbazole	0.68	U	10	0.68	ug/L		11/20/23 10:14	11/21/23 01:05	1
Chrysene	0.91	U	2.0	0.91	ug/L		11/20/23 10:14	11/21/23 01:05	1
Dibenz(a,h)anthracene	0.72	U	1.0	0.72	ug/L		11/20/23 10:14	11/21/23 01:05	1
Dibenzofuran	1.1	U	10	1.1	ug/L		11/20/23 10:14	11/21/23 01:05	1
Diethyl phthalate	1.2	J	10	0.98	ug/L		11/20/23 10:14	11/21/23 01:05	1
Dimethyl phthalate	0.77	U	10	0.77	ug/L		11/20/23 10:14	11/21/23 01:05	1
Di-n-butyl phthalate	0.84	U **	10	0.84	ug/L		11/20/23 10:14	11/21/23 01:05	1
Di-n-octyl phthalate	0.75	U	10	0.75	ug/L		11/20/23 10:14	11/21/23 01:05	1
Fluoranthene	0.84	U	10	0.84	ug/L		11/20/23 10:14	11/21/23 01:05	1
Fluorene	1.1	J	10	0.91	ug/L		11/20/23 10:14	11/21/23 01:05	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		11/20/23 10:14	11/21/23 01:05	1
Hexachlorobutadiene	0.78	U	1.0	0.78	ug/L		11/20/23 10:14	11/21/23 01:05	1
Hexachlorocyclopentadiene	3.6	U	10	3.6	ug/L		11/20/23 10:14	11/21/23 01:05	1
Hexachloroethane	0.80	U	2.0	0.80	ug/L		11/20/23 10:14	11/21/23 01:05	1
Indeno[1,2,3-cd]pyrene	0.94	U	2.0	0.94	ug/L		11/20/23 10:14	11/21/23 01:05	1
Isophorone	0.80	U	10	0.80	ug/L		11/20/23 10:14	11/21/23 01:05	1
Naphthalene	81		2.0	0.54	ug/L		11/20/23 10:14	11/21/23 01:05	1
Nitrobenzene	0.57	U	1.0	0.57	ug/L		11/20/23 10:14	11/21/23 01:05	1
N-Nitrosodi-n-propylamine	0.43	U **	1.0	0.43	ug/L		11/20/23 10:14	11/21/23 01:05	1
N-Nitrosodiphenylamine	0.89	U	10	0.89	ug/L		11/20/23 10:14	11/21/23 01:05	1
Pentachlorophenol	1.4	U	20	1.4	ug/L		11/20/23 10:14	11/21/23 01:05	1
Phenanthrene	1.3	U	10	1.3	ug/L		11/20/23 10:14	11/21/23 01:05	1
Phenol	0.29	U	10	0.29	ug/L		11/20/23 10:14	11/21/23 01:05	1
Pyrene	1.6	U	10	1.6	ug/L		11/20/23 10:14	11/21/23 01:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	131		37 - 150	11/20/23 10:14	11/21/23 01:05	1
2-Fluorobiphenyl	106		46 - 139	11/20/23 10:14	11/21/23 01:05	1
2-Fluorophenol (Surr)	59		16 - 80	11/20/23 10:14	11/21/23 01:05	1
Nitrobenzene-d5 (Surr)	117		51 - 145	11/20/23 10:14	11/21/23 01:05	1
Phenol-d5 (Surr)	48		10 - 56	11/20/23 10:14	11/21/23 01:05	1
Terphenyl-d14 (Surr)	66		13 - 150	11/20/23 10:14	11/21/23 01:05	1

Client Sample ID: GW-11222397-111423-ZB-04

Lab Sample ID: 460-292923-4

Date Collected: 11/14/23 14:00

Matrix: Water

Date Received: 11/15/23 19:00

Method: SW846 8260B - 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			11/28/23 05:01	5
1,1,2,2-Tetrachloroethane	1.8	U	5.0	1.8	ug/L			11/28/23 05:01	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.6	U	5.0	1.6	ug/L			11/28/23 05:01	5

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Client Sample Results

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

Job ID: 460-292923-1

Client Sample ID: GW-11222397-111423-ZB-04

Lab Sample ID: 460-292923-4

Date Collected: 11/14/23 14:00

Matrix: Water

Date Received: 11/15/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	1.0	U	5.0	1.0	ug/L			11/28/23 05:01	5
1,1-Dichloroethane	1.3	U	5.0	1.3	ug/L			11/28/23 05:01	5
1,1-Dichloroethene	1.3	U	5.0	1.3	ug/L			11/28/23 05:01	5
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			11/28/23 05:01	5
1,2,4-Trimethylbenzene	36		5.0	1.9	ug/L			11/28/23 05:01	5
1,2-Dibromo-3-Chloropropane	1.9	U	5.0	1.9	ug/L			11/28/23 05:01	5
1,2-Dibromoethane	2.5	U	5.0	2.5	ug/L			11/28/23 05:01	5
1,2-Dichlorobenzene	1.1	U	5.0	1.1	ug/L			11/28/23 05:01	5
1,2-Dichloroethane	20		5.0	2.2	ug/L			11/28/23 05:01	5
1,2-Dichloropropane	1.8	U	5.0	1.8	ug/L			11/28/23 05:01	5
1,3-Dichlorobenzene	1.7	U	5.0	1.7	ug/L			11/28/23 05:01	5
1,4-Dichlorobenzene	1.7	U	5.0	1.7	ug/L			11/28/23 05:01	5
2-Butanone (MEK)	9.3	U	25	9.3	ug/L			11/28/23 05:01	5
2-Hexanone	5.7	U	25	5.7	ug/L			11/28/23 05:01	5
4-Methyl-2-pentanone (MIBK)	6.5	U	25	6.5	ug/L			11/28/23 05:01	5
Acetone	22	U	25	22	ug/L			11/28/23 05:01	5
Benzene	970		5.0	1.0	ug/L			11/28/23 05:01	5
Bromodichloromethane	1.7	U	5.0	1.7	ug/L			11/28/23 05:01	5
Bromoform	2.7	U	5.0	2.7	ug/L			11/28/23 05:01	5
Bromomethane	2.8	U	5.0	2.8	ug/L			11/28/23 05:01	5
Carbon disulfide	4.1	U	5.0	4.1	ug/L			11/28/23 05:01	5
Carbon tetrachloride	1.0	U	5.0	1.0	ug/L			11/28/23 05:01	5
Chlorobenzene	1.9	U	5.0	1.9	ug/L			11/28/23 05:01	5
Chloroethane	1.6	U	5.0	1.6	ug/L			11/28/23 05:01	5
Chloroform	1.6	U	5.0	1.6	ug/L			11/28/23 05:01	5
Chloromethane	2.0	U	5.0	2.0	ug/L			11/28/23 05:01	5
cis-1,2-Dichloroethene	1.8 J		5.0	1.1	ug/L			11/28/23 05:01	5
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			11/28/23 05:01	5
Cyclohexane	250		5.0	1.6	ug/L			11/28/23 05:01	5
Dibromochloromethane	1.4	U	5.0	1.4	ug/L			11/28/23 05:01	5
Dichlorodifluoromethane	1.6	U	5.0	1.6	ug/L			11/28/23 05:01	5
Ethylbenzene	550		5.0	1.5	ug/L			11/28/23 05:01	5
Isopropylbenzene	37		5.0	1.7	ug/L			11/28/23 05:01	5
Methyl acetate	3.9	U	25	3.9	ug/L			11/28/23 05:01	5
Methyl tert-butyl ether	1.1	U	5.0	1.1	ug/L			11/28/23 05:01	5
Methylcyclohexane	86		5.0	3.5	ug/L			11/28/23 05:01	5
Methylene Chloride	1.6	U	5.0	1.6	ug/L			11/28/23 05:01	5
Styrene	2.1	U	5.0	2.1	ug/L			11/28/23 05:01	5
Tetrachloroethene	1.2	U	5.0	1.2	ug/L			11/28/23 05:01	5
Toluene	210		5.0	1.9	ug/L			11/28/23 05:01	5
trans-1,2-Dichloroethene	1.2	U	5.0	1.2	ug/L			11/28/23 05:01	5
trans-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			11/28/23 05:01	5
Trichloroethene	1.6	U	5.0	1.6	ug/L			11/28/23 05:01	5
Trichlorofluoromethane	1.6	U	5.0	1.6	ug/L			11/28/23 05:01	5
Vinyl chloride	0.86	U	5.0	0.86	ug/L			11/28/23 05:01	5
Xylenes, Total	270		10	3.3	ug/L			11/28/23 05:01	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 128		11/28/23 05:01	5
4-Bromofluorobenzene	102		76 - 120		11/28/23 05:01	5

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Client Sample Results

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

Job ID: 460-292923-1

Client Sample ID: GW-11222397-111423-ZB-04

Lab Sample ID: 460-292923-4

Date Collected: 11/14/23 14:00

Matrix: Water

Date Received: 11/15/23 19:00

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		77 - 132		11/28/23 05:01	5
Toluene-d8 (Surr)	101		80 - 120		11/28/23 05:01	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		11/20/23 10:14	11/21/23 02:30	1
2,2'-oxybis[1-chloropropane]	0.63	U	10	0.63	ug/L		11/20/23 10:14	11/21/23 02:30	1
2,4,5-Trichlorophenol	0.88	U	10	0.88	ug/L		11/20/23 10:14	11/21/23 02:30	1
2,4,6-Trichlorophenol	0.86	U	10	0.86	ug/L		11/20/23 10:14	11/21/23 02:30	1
2,4-Dichlorophenol	1.1	U	10	1.1	ug/L		11/20/23 10:14	11/21/23 02:30	1
2,4-Dimethylphenol	3.0	J	10	0.62	ug/L		11/20/23 10:14	11/21/23 02:30	1
2,4-Dinitrophenol	2.6	U **	40	2.6	ug/L		11/20/23 10:14	11/21/23 02:30	1
2,4-Dinitrotoluene	1.0	U	10	1.0	ug/L		11/20/23 10:14	11/21/23 02:30	1
2,6-Dinitrotoluene	0.83	U	2.0	0.83	ug/L		11/20/23 10:14	11/21/23 02:30	1
2-Chloronaphthalene	1.2	U	10	1.2	ug/L		11/20/23 10:14	11/21/23 02:30	1
2-Chlorophenol	0.38	U	10	0.38	ug/L		11/20/23 10:14	11/21/23 02:30	1
2-Methylnaphthalene	1.1	J	10	0.53	ug/L		11/20/23 10:14	11/21/23 02:30	1
2-Methylphenol	0.67	U	10	0.67	ug/L		11/20/23 10:14	11/21/23 02:30	1
2-Nitroaniline	0.47	U	10	0.47	ug/L		11/20/23 10:14	11/21/23 02:30	1
2-Nitrophenol	0.75	U	10	0.75	ug/L		11/20/23 10:14	11/21/23 02:30	1
3,3'-Dichlorobenzidine	1.4	U	10	1.4	ug/L		11/20/23 10:14	11/21/23 02:30	1
3-Nitroaniline	1.9	U	10	1.9	ug/L		11/20/23 10:14	11/21/23 02:30	1
4,6-Dinitro-2-methylphenol	3.0	U	20	3.0	ug/L		11/20/23 10:14	11/21/23 02:30	1
4-Bromophenyl phenyl ether	0.75	U	10	0.75	ug/L		11/20/23 10:14	11/21/23 02:30	1
4-Chloro-3-methylphenol	0.58	U	10	0.58	ug/L		11/20/23 10:14	11/21/23 02:30	1
4-Chlorophenyl phenyl ether	1.3	U	10	1.3	ug/L		11/20/23 10:14	11/21/23 02:30	1
4-Methylphenol	0.65	J	10	0.65	ug/L		11/20/23 10:14	11/21/23 02:30	1
4-Nitroaniline	1.2	U	10	1.2	ug/L		11/20/23 10:14	11/21/23 02:30	1
4-Nitrophenol	4.0	U	20	4.0	ug/L		11/20/23 10:14	11/21/23 02:30	1
Acenaphthene	1.1	U	10	1.1	ug/L		11/20/23 10:14	11/21/23 02:30	1
Acenaphthylene	0.82	U	10	0.82	ug/L		11/20/23 10:14	11/21/23 02:30	1
Acetophenone	2.3	U	10	2.3	ug/L		11/20/23 10:14	11/21/23 02:30	1
Anthracene	1.3	U	10	1.3	ug/L		11/20/23 10:14	11/21/23 02:30	1
Atrazine	1.3	U	2.0	1.3	ug/L		11/20/23 10:14	11/21/23 02:30	1
Benzaldehyde	2.1	U	10	2.1	ug/L		11/20/23 10:14	11/21/23 02:30	1
Benzo[a]anthracene	0.59	U	1.0	0.59	ug/L		11/20/23 10:14	11/21/23 02:30	1
Benzo[a]pyrene	0.41	U **	1.0	0.41	ug/L		11/20/23 10:14	11/21/23 02:30	1
Benzo[b]fluoranthene	0.68	U **	2.0	0.68	ug/L		11/20/23 10:14	11/21/23 02:30	1
Benzo[g,h,i]perylene	0.70	U	10	0.70	ug/L		11/20/23 10:14	11/21/23 02:30	1
Benzo[k]fluoranthene	0.67	U	1.0	0.67	ug/L		11/20/23 10:14	11/21/23 02:30	1
Bis(2-chloroethoxy)methane	0.59	U	10	0.59	ug/L		11/20/23 10:14	11/21/23 02:30	1
Bis(2-chloroethyl)ether	0.63	U	1.0	0.63	ug/L		11/20/23 10:14	11/21/23 02:30	1
Bis(2-ethylhexyl) phthalate	0.80	U	2.0	0.80	ug/L		11/20/23 10:14	11/21/23 02:30	1
Butyl benzyl phthalate	0.85	U	10	0.85	ug/L		11/20/23 10:14	11/21/23 02:30	1
Caprolactam	2.2	U	10	2.2	ug/L		11/20/23 10:14	11/21/23 02:30	1
Carbazole	0.68	U	10	0.68	ug/L		11/20/23 10:14	11/21/23 02:30	1
Chrysene	0.91	U	2.0	0.91	ug/L		11/20/23 10:14	11/21/23 02:30	1
Dibenz(a,h)anthracene	0.72	U	1.0	0.72	ug/L		11/20/23 10:14	11/21/23 02:30	1
Dibenzofuran	1.1	U	10	1.1	ug/L		11/20/23 10:14	11/21/23 02:30	1

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Client Sample Results

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

Job ID: 460-292923-1

Client Sample ID: GW-11222397-111423-ZB-04

Lab Sample ID: 460-292923-4

Date Collected: 11/14/23 14:00

Matrix: Water

Date Received: 11/15/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	0.98	U	10	0.98	ug/L		11/20/23 10:14	11/21/23 02:30	1
Dimethyl phthalate	0.77	U	10	0.77	ug/L		11/20/23 10:14	11/21/23 02:30	1
Di-n-butyl phthalate	0.84	U **	10	0.84	ug/L		11/20/23 10:14	11/21/23 02:30	1
Di-n-octyl phthalate	0.75	U	10	0.75	ug/L		11/20/23 10:14	11/21/23 02:30	1
Fluoranthene	0.84	U	10	0.84	ug/L		11/20/23 10:14	11/21/23 02:30	1
Fluorene	0.91	U	10	0.91	ug/L		11/20/23 10:14	11/21/23 02:30	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		11/20/23 10:14	11/21/23 02:30	1
Hexachlorobutadiene	0.78	U	1.0	0.78	ug/L		11/20/23 10:14	11/21/23 02:30	1
Hexachlorocyclopentadiene	3.6	U	10	3.6	ug/L		11/20/23 10:14	11/21/23 02:30	1
Hexachloroethane	0.80	U	2.0	0.80	ug/L		11/20/23 10:14	11/21/23 02:30	1
Indeno[1,2,3-cd]pyrene	0.94	U	2.0	0.94	ug/L		11/20/23 10:14	11/21/23 02:30	1
Isophorone	0.80	U	10	0.80	ug/L		11/20/23 10:14	11/21/23 02:30	1
Naphthalene	30		2.0	0.54	ug/L		11/20/23 10:14	11/21/23 02:30	1
Nitrobenzene	0.57	U	1.0	0.57	ug/L		11/20/23 10:14	11/21/23 02:30	1
N-Nitrosodi-n-propylamine	0.43	U **	1.0	0.43	ug/L		11/20/23 10:14	11/21/23 02:30	1
N-Nitrosodiphenylamine	0.89	U	10	0.89	ug/L		11/20/23 10:14	11/21/23 02:30	1
Pentachlorophenol	1.4	U	20	1.4	ug/L		11/20/23 10:14	11/21/23 02:30	1
Phenanthrene	1.3	U	10	1.3	ug/L		11/20/23 10:14	11/21/23 02:30	1
Phenol	4.2	J	10	0.29	ug/L		11/20/23 10:14	11/21/23 02:30	1
Pyrene	1.6	U	10	1.6	ug/L		11/20/23 10:14	11/21/23 02:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	130		37 - 150	11/20/23 10:14	11/21/23 02:30	1
2-Fluorobiphenyl	100		46 - 139	11/20/23 10:14	11/21/23 02:30	1
2-Fluorophenol (Surr)	52		16 - 80	11/20/23 10:14	11/21/23 02:30	1
Nitrobenzene-d5 (Surr)	114		51 - 145	11/20/23 10:14	11/21/23 02:30	1
Phenol-d5 (Surr)	39		10 - 56	11/20/23 10:14	11/21/23 02:30	1
Terphenyl-d14 (Surr)	79		13 - 150	11/20/23 10:14	11/21/23 02:30	1

Client Sample ID: GW-11222397-111423-ZB-05

Lab Sample ID: 460-292923-5

Date Collected: 11/14/23 15:00

Matrix: Water

Date Received: 11/15/23 19:00

Method: SW846 8260B - 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			11/28/23 04:41	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/28/23 04:41	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/28/23 04:41	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/28/23 04:41	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/28/23 04:41	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/28/23 04:41	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/28/23 04:41	1
1,2,4-Trimethylbenzene	69		1.0	0.37	ug/L			11/28/23 04:41	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/28/23 04:41	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/28/23 04:41	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/28/23 04:41	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			11/28/23 04:41	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/28/23 04:41	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/28/23 04:41	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/28/23 04:41	1

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Client Sample Results

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

Job ID: 460-292923-1

Client Sample ID: GW-11222397-111423-ZB-05

Lab Sample ID: 460-292923-5

Date Collected: 11/14/23 15:00

Matrix: Water

Date Received: 11/15/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	26		5.0	1.9	ug/L			11/28/23 04:41	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/28/23 04:41	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			11/28/23 04:41	1
Acetone	50		5.0	4.4	ug/L			11/28/23 04:41	1
Benzene	20		1.0	0.20	ug/L			11/28/23 04:41	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			11/28/23 04:41	1
Bromoform	0.54	U	1.0	0.54	ug/L			11/28/23 04:41	1
Bromomethane	0.55	U	1.0	0.55	ug/L			11/28/23 04:41	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			11/28/23 04:41	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			11/28/23 04:41	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/28/23 04:41	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/28/23 04:41	1
Chloroform	0.33	U	1.0	0.33	ug/L			11/28/23 04:41	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/28/23 04:41	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			11/28/23 04:41	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/28/23 04:41	1
Cyclohexane	170		1.0	0.32	ug/L			11/28/23 04:41	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			11/28/23 04:41	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/28/23 04:41	1
Ethylbenzene	200		1.0	0.30	ug/L			11/28/23 04:41	1
Isopropylbenzene	21		1.0	0.34	ug/L			11/28/23 04:41	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/28/23 04:41	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/28/23 04:41	1
Methylcyclohexane	88		1.0	0.71	ug/L			11/28/23 04:41	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			11/28/23 04:41	1
Styrene	0.42	U	1.0	0.42	ug/L			11/28/23 04:41	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			11/28/23 04:41	1
Toluene	28		1.0	0.38	ug/L			11/28/23 04:41	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/28/23 04:41	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/28/23 04:41	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			11/28/23 04:41	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			11/28/23 04:41	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			11/28/23 04:41	1
Xylenes, Total	500		2.0	0.65	ug/L			11/28/23 04:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 128		11/28/23 04:41	1
4-Bromofluorobenzene	98		76 - 120		11/28/23 04:41	1
Dibromofluoromethane (Surr)	94		77 - 132		11/28/23 04:41	1
Toluene-d8 (Surr)	101		80 - 120		11/28/23 04:41	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		11/20/23 10:14	11/21/23 01:27	1
2,2'-oxybis[1-chloropropane]	0.63	U	10	0.63	ug/L		11/20/23 10:14	11/21/23 01:27	1
2,4,5-Trichlorophenol	0.88	U	10	0.88	ug/L		11/20/23 10:14	11/21/23 01:27	1
2,4,6-Trichlorophenol	0.86	U	10	0.86	ug/L		11/20/23 10:14	11/21/23 01:27	1
2,4-Dichlorophenol	1.1	U	10	1.1	ug/L		11/20/23 10:14	11/21/23 01:27	1
2,4-Dimethylphenol	3.1	J	10	0.62	ug/L		11/20/23 10:14	11/21/23 01:27	1
2,4-Dinitrophenol	2.6	U **	40	2.6	ug/L		11/20/23 10:14	11/21/23 01:27	1

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Client Sample Results

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

Job ID: 460-292923-1

Client Sample ID: GW-11222397-111423-ZB-05

Lab Sample ID: 460-292923-5

Date Collected: 11/14/23 15:00

Matrix: Water

Date Received: 11/15/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	1.0	U	10	1.0	ug/L		11/20/23 10:14	11/21/23 01:27	1
2,6-Dinitrotoluene	0.83	U	2.0	0.83	ug/L		11/20/23 10:14	11/21/23 01:27	1
2-Chloronaphthalene	1.2	U	10	1.2	ug/L		11/20/23 10:14	11/21/23 01:27	1
2-Chlorophenol	0.38	U	10	0.38	ug/L		11/20/23 10:14	11/21/23 01:27	1
2-Methylnaphthalene	13		10	0.53	ug/L		11/20/23 10:14	11/21/23 01:27	1
2-Methylphenol	0.67	U	10	0.67	ug/L		11/20/23 10:14	11/21/23 01:27	1
2-Nitroaniline	0.47	U	10	0.47	ug/L		11/20/23 10:14	11/21/23 01:27	1
2-Nitrophenol	0.75	U	10	0.75	ug/L		11/20/23 10:14	11/21/23 01:27	1
3,3'-Dichlorobenzidine	1.4	U	10	1.4	ug/L		11/20/23 10:14	11/21/23 01:27	1
3-Nitroaniline	1.9	U	10	1.9	ug/L		11/20/23 10:14	11/21/23 01:27	1
4,6-Dinitro-2-methylphenol	3.0	U	20	3.0	ug/L		11/20/23 10:14	11/21/23 01:27	1
4-Bromophenyl phenyl ether	0.75	U	10	0.75	ug/L		11/20/23 10:14	11/21/23 01:27	1
4-Chloro-3-methylphenol	0.58	U	10	0.58	ug/L		11/20/23 10:14	11/21/23 01:27	1
4-Chlorophenyl phenyl ether	1.3	U	10	1.3	ug/L		11/20/23 10:14	11/21/23 01:27	1
4-Methylphenol	0.65	U	10	0.65	ug/L		11/20/23 10:14	11/21/23 01:27	1
4-Nitroaniline	1.2	U	10	1.2	ug/L		11/20/23 10:14	11/21/23 01:27	1
4-Nitrophenol	4.0	U	20	4.0	ug/L		11/20/23 10:14	11/21/23 01:27	1
Acenaphthene	1.1	U	10	1.1	ug/L		11/20/23 10:14	11/21/23 01:27	1
Acenaphthylene	0.82	U	10	0.82	ug/L		11/20/23 10:14	11/21/23 01:27	1
Acetophenone	11		10	2.3	ug/L		11/20/23 10:14	11/21/23 01:27	1
Anthracene	1.3	U	10	1.3	ug/L		11/20/23 10:14	11/21/23 01:27	1
Atrazine	1.3	U	2.0	1.3	ug/L		11/20/23 10:14	11/21/23 01:27	1
Benzaldehyde	2.1	U	10	2.1	ug/L		11/20/23 10:14	11/21/23 01:27	1
Benzo[a]anthracene	0.59	U	1.0	0.59	ug/L		11/20/23 10:14	11/21/23 01:27	1
Benzo[a]pyrene	0.41	U **	1.0	0.41	ug/L		11/20/23 10:14	11/21/23 01:27	1
Benzo[b]fluoranthene	0.68	U **	2.0	0.68	ug/L		11/20/23 10:14	11/21/23 01:27	1
Benzo[g,h,i]perylene	0.70	U	10	0.70	ug/L		11/20/23 10:14	11/21/23 01:27	1
Benzo[k]fluoranthene	0.67	U	1.0	0.67	ug/L		11/20/23 10:14	11/21/23 01:27	1
Bis(2-chloroethoxy)methane	0.59	U	10	0.59	ug/L		11/20/23 10:14	11/21/23 01:27	1
Bis(2-chloroethyl)ether	0.63	U	1.0	0.63	ug/L		11/20/23 10:14	11/21/23 01:27	1
Bis(2-ethylhexyl) phthalate	0.80	U	2.0	0.80	ug/L		11/20/23 10:14	11/21/23 01:27	1
Butyl benzyl phthalate	0.85	U	10	0.85	ug/L		11/20/23 10:14	11/21/23 01:27	1
Caprolactam	2.2	U	10	2.2	ug/L		11/20/23 10:14	11/21/23 01:27	1
Carbazole	0.68	U	10	0.68	ug/L		11/20/23 10:14	11/21/23 01:27	1
Chrysene	0.91	U	2.0	0.91	ug/L		11/20/23 10:14	11/21/23 01:27	1
Dibenz(a,h)anthracene	0.72	U	1.0	0.72	ug/L		11/20/23 10:14	11/21/23 01:27	1
Dibenzofuran	1.1	U	10	1.1	ug/L		11/20/23 10:14	11/21/23 01:27	1
Diethyl phthalate	0.98	U	10	0.98	ug/L		11/20/23 10:14	11/21/23 01:27	1
Dimethyl phthalate	0.77	U	10	0.77	ug/L		11/20/23 10:14	11/21/23 01:27	1
Di-n-butyl phthalate	0.84	U **	10	0.84	ug/L		11/20/23 10:14	11/21/23 01:27	1
Di-n-octyl phthalate	0.75	U	10	0.75	ug/L		11/20/23 10:14	11/21/23 01:27	1
Fluoranthene	0.84	U	10	0.84	ug/L		11/20/23 10:14	11/21/23 01:27	1
Fluorene	0.91	U	10	0.91	ug/L		11/20/23 10:14	11/21/23 01:27	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		11/20/23 10:14	11/21/23 01:27	1
Hexachlorobutadiene	0.78	U	1.0	0.78	ug/L		11/20/23 10:14	11/21/23 01:27	1
Hexachlorocyclopentadiene	3.6	U	10	3.6	ug/L		11/20/23 10:14	11/21/23 01:27	1
Hexachloroethane	0.80	U	2.0	0.80	ug/L		11/20/23 10:14	11/21/23 01:27	1
Indeno[1,2,3-cd]pyrene	0.94	U	2.0	0.94	ug/L		11/20/23 10:14	11/21/23 01:27	1
Isophorone	0.80	U	10	0.80	ug/L		11/20/23 10:14	11/21/23 01:27	1

Eurofins Edison

Client Sample Results

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

Job ID: 460-292923-1

Client Sample ID: GW-11222397-111423-ZB-05

Lab Sample ID: 460-292923-5

Date Collected: 11/14/23 15:00

Matrix: Water

Date Received: 11/15/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	40		2.0	0.54	ug/L		11/20/23 10:14	11/21/23 01:27	1
Nitrobenzene	0.57	U	1.0	0.57	ug/L		11/20/23 10:14	11/21/23 01:27	1
N-Nitrosodi-n-propylamine	0.43	U *	1.0	0.43	ug/L		11/20/23 10:14	11/21/23 01:27	1
N-Nitrosodiphenylamine	0.89	U	10	0.89	ug/L		11/20/23 10:14	11/21/23 01:27	1
Pentachlorophenol	1.4	U	20	1.4	ug/L		11/20/23 10:14	11/21/23 01:27	1
Phenanthrene	1.3	U	10	1.3	ug/L		11/20/23 10:14	11/21/23 01:27	1
Phenol	0.29	U	10	0.29	ug/L		11/20/23 10:14	11/21/23 01:27	1
Pyrene	1.6	U	10	1.6	ug/L		11/20/23 10:14	11/21/23 01:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	136		37 - 150				11/20/23 10:14	11/21/23 01:27	1
2-Fluorobiphenyl	95		46 - 139				11/20/23 10:14	11/21/23 01:27	1
2-Fluorophenol (Surr)	49		16 - 80				11/20/23 10:14	11/21/23 01:27	1
Nitrobenzene-d5 (Surr)	107		51 - 145				11/20/23 10:14	11/21/23 01:27	1
Phenol-d5 (Surr)	39		10 - 56				11/20/23 10:14	11/21/23 01:27	1
Terphenyl-d14 (Surr)	78		13 - 150				11/20/23 10:14	11/21/23 01:27	1

Client Sample ID: GW-11222397-111523-CT-06

Lab Sample ID: 460-292923-6

Date Collected: 11/15/23 12:15

Matrix: Water

Date Received: 11/15/23 19:00

Method: SW846 8260B - 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			11/29/23 11:12	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/29/23 11:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/29/23 11:12	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/29/23 11:12	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/29/23 11:12	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/29/23 11:12	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/29/23 11:12	1
1,2,4-Trimethylbenzene	300		1.0	0.37	ug/L			11/29/23 11:12	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/29/23 11:12	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/29/23 11:12	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/29/23 11:12	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			11/29/23 11:12	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/29/23 11:12	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/29/23 11:12	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/29/23 11:12	1
2-Butanone (MEK)	13		5.0	1.9	ug/L			11/29/23 11:12	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/29/23 11:12	1
4-Methyl-2-pentanone (MIBK)	3.7	J	5.0	1.3	ug/L			11/29/23 11:12	1
Acetone	4.4	U	5.0	4.4	ug/L			11/29/23 11:12	1
Benzene	0.20	U	1.0	0.20	ug/L			11/29/23 11:12	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			11/29/23 11:12	1
Bromoform	0.54	U	1.0	0.54	ug/L			11/29/23 11:12	1
Bromomethane	0.55	U	1.0	0.55	ug/L			11/29/23 11:12	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			11/29/23 11:12	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			11/29/23 11:12	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/29/23 11:12	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/29/23 11:12	1

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Client Sample Results

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

Job ID: 460-292923-1

Client Sample ID: GW-11222397-111523-CT-06

Lab Sample ID: 460-292923-6

Date Collected: 11/15/23 12:15

Matrix: Water

Date Received: 11/15/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	0.33	U	1.0	0.33	ug/L			11/29/23 11:12	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/29/23 11:12	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			11/29/23 11:12	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/29/23 11:12	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			11/29/23 11:12	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/29/23 11:12	1
Ethylbenzene	91		1.0	0.30	ug/L			11/29/23 11:12	1
Isopropylbenzene	28		1.0	0.34	ug/L			11/29/23 11:12	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/29/23 11:12	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/29/23 11:12	1
Methylcyclohexane	88		1.0	0.71	ug/L			11/29/23 11:12	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			11/29/23 11:12	1
Styrene	0.42	U	1.0	0.42	ug/L			11/29/23 11:12	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			11/29/23 11:12	1
Toluene	0.38	U	1.0	0.38	ug/L			11/29/23 11:12	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/29/23 11:12	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/29/23 11:12	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			11/29/23 11:12	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			11/29/23 11:12	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			11/29/23 11:12	1
Xylenes, Total	420		2.0	0.65	ug/L			11/29/23 11:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 128		11/29/23 11:12	1
4-Bromofluorobenzene	95		76 - 120		11/29/23 11:12	1
Dibromofluoromethane (Surr)	92		77 - 132		11/29/23 11:12	1
Toluene-d8 (Surr)	99		80 - 120		11/29/23 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	190	D	2.0	0.64	ug/L			11/29/23 04:47	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100	D	70 - 128		11/29/23 04:47	2
4-Bromofluorobenzene	103	D	76 - 120		11/29/23 04:47	2
Dibromofluoromethane (Surr)	95	D	77 - 132		11/29/23 04:47	2
Toluene-d8 (Surr)	102	D	80 - 120		11/29/23 04:47	2

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		11/20/23 10:14	11/21/23 01:48	1
2,2'-oxybis[1-chloropropane]	0.63	U	10	0.63	ug/L		11/20/23 10:14	11/21/23 01:48	1
2,4,5-Trichlorophenol	0.88	U	10	0.88	ug/L		11/20/23 10:14	11/21/23 01:48	1
2,4,6-Trichlorophenol	0.86	U	10	0.86	ug/L		11/20/23 10:14	11/21/23 01:48	1
2,4-Dichlorophenol	1.1	U	10	1.1	ug/L		11/20/23 10:14	11/21/23 01:48	1
2,4-Dimethylphenol	0.62	U	10	0.62	ug/L		11/20/23 10:14	11/21/23 01:48	1
2,4-Dinitrophenol	2.6	U **	40	2.6	ug/L		11/20/23 10:14	11/21/23 01:48	1
2,4-Dinitrotoluene	1.0	U	10	1.0	ug/L		11/20/23 10:14	11/21/23 01:48	1
2,6-Dinitrotoluene	0.83	U	2.0	0.83	ug/L		11/20/23 10:14	11/21/23 01:48	1
2-Chloronaphthalene	1.2	U	10	1.2	ug/L		11/20/23 10:14	11/21/23 01:48	1

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Client Sample Results

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

Job ID: 460-292923-1

Client Sample ID: GW-11222397-111523-CT-06

Lab Sample ID: 460-292923-6

Date Collected: 11/15/23 12:15

Matrix: Water

Date Received: 11/15/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	0.38	U	10	0.38	ug/L		11/20/23 10:14	11/21/23 01:48	1
2-Methylnaphthalene	16		10	0.53	ug/L		11/20/23 10:14	11/21/23 01:48	1
2-Methylphenol	0.67	U	10	0.67	ug/L		11/20/23 10:14	11/21/23 01:48	1
2-Nitroaniline	0.47	U	10	0.47	ug/L		11/20/23 10:14	11/21/23 01:48	1
2-Nitrophenol	0.75	U	10	0.75	ug/L		11/20/23 10:14	11/21/23 01:48	1
3,3'-Dichlorobenzidine	1.4	U	10	1.4	ug/L		11/20/23 10:14	11/21/23 01:48	1
3-Nitroaniline	1.9	U	10	1.9	ug/L		11/20/23 10:14	11/21/23 01:48	1
4,6-Dinitro-2-methylphenol	3.0	U	20	3.0	ug/L		11/20/23 10:14	11/21/23 01:48	1
4-Bromophenyl phenyl ether	0.75	U	10	0.75	ug/L		11/20/23 10:14	11/21/23 01:48	1
4-Chloro-3-methylphenol	0.58	U	10	0.58	ug/L		11/20/23 10:14	11/21/23 01:48	1
4-Chlorophenyl phenyl ether	1.3	U	10	1.3	ug/L		11/20/23 10:14	11/21/23 01:48	1
4-Methylphenol	0.65	U	10	0.65	ug/L		11/20/23 10:14	11/21/23 01:48	1
4-Nitroaniline	1.2	U	10	1.2	ug/L		11/20/23 10:14	11/21/23 01:48	1
4-Nitrophenol	4.0	U	20	4.0	ug/L		11/20/23 10:14	11/21/23 01:48	1
Acenaphthene	1.1	U	10	1.1	ug/L		11/20/23 10:14	11/21/23 01:48	1
Acenaphthylene	0.82	U	10	0.82	ug/L		11/20/23 10:14	11/21/23 01:48	1
Acetophenone	2.3	U	10	2.3	ug/L		11/20/23 10:14	11/21/23 01:48	1
Anthracene	1.3	U	10	1.3	ug/L		11/20/23 10:14	11/21/23 01:48	1
Atrazine	1.3	U	2.0	1.3	ug/L		11/20/23 10:14	11/21/23 01:48	1
Benzaldehyde	2.1	U	10	2.1	ug/L		11/20/23 10:14	11/21/23 01:48	1
Benzo[a]anthracene	0.59	U	1.0	0.59	ug/L		11/20/23 10:14	11/21/23 01:48	1
Benzo[a]pyrene	0.41	U **	1.0	0.41	ug/L		11/20/23 10:14	11/21/23 01:48	1
Benzo[b]fluoranthene	0.68	U **	2.0	0.68	ug/L		11/20/23 10:14	11/21/23 01:48	1
Benzo[g,h,i]perylene	0.70	U	10	0.70	ug/L		11/20/23 10:14	11/21/23 01:48	1
Benzo[k]fluoranthene	0.67	U	1.0	0.67	ug/L		11/20/23 10:14	11/21/23 01:48	1
Bis(2-chloroethoxy)methane	0.59	U	10	0.59	ug/L		11/20/23 10:14	11/21/23 01:48	1
Bis(2-chloroethyl)ether	0.63	U	1.0	0.63	ug/L		11/20/23 10:14	11/21/23 01:48	1
Bis(2-ethylhexyl) phthalate	0.80	U	2.0	0.80	ug/L		11/20/23 10:14	11/21/23 01:48	1
Butyl benzyl phthalate	0.85	U	10	0.85	ug/L		11/20/23 10:14	11/21/23 01:48	1
Caprolactam	2.2	U	10	2.2	ug/L		11/20/23 10:14	11/21/23 01:48	1
Carbazole	0.68	U	10	0.68	ug/L		11/20/23 10:14	11/21/23 01:48	1
Chrysene	0.91	U	2.0	0.91	ug/L		11/20/23 10:14	11/21/23 01:48	1
Dibenz(a,h)anthracene	0.72	U	1.0	0.72	ug/L		11/20/23 10:14	11/21/23 01:48	1
Dibenzofuran	1.1	U	10	1.1	ug/L		11/20/23 10:14	11/21/23 01:48	1
Diethyl phthalate	0.98	U	10	0.98	ug/L		11/20/23 10:14	11/21/23 01:48	1
Dimethyl phthalate	0.77	U	10	0.77	ug/L		11/20/23 10:14	11/21/23 01:48	1
Di-n-butyl phthalate	0.84	U **	10	0.84	ug/L		11/20/23 10:14	11/21/23 01:48	1
Di-n-octyl phthalate	0.75	U	10	0.75	ug/L		11/20/23 10:14	11/21/23 01:48	1
Fluoranthene	0.84	U	10	0.84	ug/L		11/20/23 10:14	11/21/23 01:48	1
Fluorene	0.91	U	10	0.91	ug/L		11/20/23 10:14	11/21/23 01:48	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		11/20/23 10:14	11/21/23 01:48	1
Hexachlorobutadiene	0.78	U	1.0	0.78	ug/L		11/20/23 10:14	11/21/23 01:48	1
Hexachlorocyclopentadiene	3.6	U	10	3.6	ug/L		11/20/23 10:14	11/21/23 01:48	1
Hexachloroethane	0.80	U	2.0	0.80	ug/L		11/20/23 10:14	11/21/23 01:48	1
Indeno[1,2,3-cd]pyrene	0.94	U	2.0	0.94	ug/L		11/20/23 10:14	11/21/23 01:48	1
Isophorone	0.80	U	10	0.80	ug/L		11/20/23 10:14	11/21/23 01:48	1
Naphthalene	60		2.0	0.54	ug/L		11/20/23 10:14	11/21/23 01:48	1
Nitrobenzene	0.57	U	1.0	0.57	ug/L		11/20/23 10:14	11/21/23 01:48	1
N-Nitrosodi-n-propylamine	0.43	U **	1.0	0.43	ug/L		11/20/23 10:14	11/21/23 01:48	1

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Client Sample Results

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

Job ID: 460-292923-1

Client Sample ID: GW-11222397-111523-CT-06

Lab Sample ID: 460-292923-6

Date Collected: 11/15/23 12:15

Matrix: Water

Date Received: 11/15/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	0.89	U	10	0.89	ug/L		11/20/23 10:14	11/21/23 01:48	1
Pentachlorophenol	1.4	U	20	1.4	ug/L		11/20/23 10:14	11/21/23 01:48	1
Phenanthrene	1.3	U	10	1.3	ug/L		11/20/23 10:14	11/21/23 01:48	1
Phenol	0.29	U	10	0.29	ug/L		11/20/23 10:14	11/21/23 01:48	1
Pyrene	1.6	U	10	1.6	ug/L		11/20/23 10:14	11/21/23 01:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	138		37 - 150				11/20/23 10:14	11/21/23 01:48	1
2-Fluorobiphenyl	99		46 - 139				11/20/23 10:14	11/21/23 01:48	1
2-Fluorophenol (Surr)	53		16 - 80				11/20/23 10:14	11/21/23 01:48	1
Nitrobenzene-d5 (Surr)	112		51 - 145				11/20/23 10:14	11/21/23 01:48	1
Phenol-d5 (Surr)	41		10 - 56				11/20/23 10:14	11/21/23 01:48	1
Terphenyl-d14 (Surr)	91		13 - 150				11/20/23 10:14	11/21/23 01:48	1

Client Sample ID: GW-11222397-111523-CT-07

Lab Sample ID: 460-292923-7

Date Collected: 11/15/23 10:50

Matrix: Water

Date Received: 11/15/23 19:00

Method: SW846 8260B - 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			11/29/23 03:09	1
1,1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/29/23 03:09	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/29/23 03:09	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/29/23 03:09	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/29/23 03:09	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/29/23 03:09	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/29/23 03:09	1
1,2,4-Trimethylbenzene	83		1.0	0.37	ug/L			11/29/23 03:09	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/29/23 03:09	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/29/23 03:09	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/29/23 03:09	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			11/29/23 03:09	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/29/23 03:09	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/29/23 03:09	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/29/23 03:09	1
2-Butanone (MEK)	21		5.0	1.9	ug/L			11/29/23 03:09	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/29/23 03:09	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			11/29/23 03:09	1
Acetone	36		5.0	4.4	ug/L			11/29/23 03:09	1
Benzene	0.20	U	1.0	0.20	ug/L			11/29/23 03:09	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			11/29/23 03:09	1
Bromoform	0.54	U	1.0	0.54	ug/L			11/29/23 03:09	1
Bromomethane	0.55	U	1.0	0.55	ug/L			11/29/23 03:09	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			11/29/23 03:09	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			11/29/23 03:09	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/29/23 03:09	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/29/23 03:09	1
Chloroform	0.33	U	1.0	0.33	ug/L			11/29/23 03:09	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/29/23 03:09	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			11/29/23 03:09	1

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Client Sample Results

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

Job ID: 460-292923-1

Client Sample ID: GW-11222397-111523-CT-07

Lab Sample ID: 460-292923-7

Date Collected: 11/15/23 10:50

Matrix: Water

Date Received: 11/15/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/29/23 03:09	1
Cyclohexane	110		1.0	0.32	ug/L			11/29/23 03:09	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			11/29/23 03:09	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/29/23 03:09	1
Ethylbenzene	81		1.0	0.30	ug/L			11/29/23 03:09	1
Isopropylbenzene	12		1.0	0.34	ug/L			11/29/23 03:09	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/29/23 03:09	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/29/23 03:09	1
Methylcyclohexane	55		1.0	0.71	ug/L			11/29/23 03:09	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			11/29/23 03:09	1
Styrene	0.45	J	1.0	0.42	ug/L			11/29/23 03:09	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			11/29/23 03:09	1
Toluene	14		1.0	0.38	ug/L			11/29/23 03:09	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/29/23 03:09	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/29/23 03:09	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			11/29/23 03:09	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			11/29/23 03:09	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			11/29/23 03:09	1
Xylenes, Total	140		2.0	0.65	ug/L			11/29/23 03:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 128		11/29/23 03:09	1
4-Bromofluorobenzene	99		76 - 120		11/29/23 03:09	1
Dibromofluoromethane (Surr)	96		77 - 132		11/29/23 03:09	1
Toluene-d8 (Surr)	101		80 - 120		11/29/23 03:09	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		11/20/23 10:14	11/21/23 02:09	1
2,2'-oxybis[1-chloropropane]	0.63	U	10	0.63	ug/L		11/20/23 10:14	11/21/23 02:09	1
2,4,5-Trichlorophenol	0.88	U	10	0.88	ug/L		11/20/23 10:14	11/21/23 02:09	1
2,4,6-Trichlorophenol	0.86	U	10	0.86	ug/L		11/20/23 10:14	11/21/23 02:09	1
2,4-Dichlorophenol	1.1	U	10	1.1	ug/L		11/20/23 10:14	11/21/23 02:09	1
2,4-Dimethylphenol	0.62	U	10	0.62	ug/L		11/20/23 10:14	11/21/23 02:09	1
2,4-Dinitrophenol	2.6	U F1 **	40	2.6	ug/L		11/20/23 10:14	11/21/23 02:09	1
2,4-Dinitrotoluene	1.0	U	10	1.0	ug/L		11/20/23 10:14	11/21/23 02:09	1
2,6-Dinitrotoluene	0.83	U	2.0	0.83	ug/L		11/20/23 10:14	11/21/23 02:09	1
2-Chloronaphthalene	1.2	U	10	1.2	ug/L		11/20/23 10:14	11/21/23 02:09	1
2-Chlorophenol	0.38	U	10	0.38	ug/L		11/20/23 10:14	11/21/23 02:09	1
2-Methylnaphthalene	5.5	J	10	0.53	ug/L		11/20/23 10:14	11/21/23 02:09	1
2-Methylphenol	0.67	U	10	0.67	ug/L		11/20/23 10:14	11/21/23 02:09	1
2-Nitroaniline	0.47	U	10	0.47	ug/L		11/20/23 10:14	11/21/23 02:09	1
2-Nitrophenol	0.75	U	10	0.75	ug/L		11/20/23 10:14	11/21/23 02:09	1
3,3'-Dichlorobenzidine	1.4	U F2 F1	10	1.4	ug/L		11/20/23 10:14	11/21/23 02:09	1
3-Nitroaniline	1.9	U F2 F1	10	1.9	ug/L		11/20/23 10:14	11/21/23 02:09	1
4,6-Dinitro-2-methylphenol	3.0	U	20	3.0	ug/L		11/20/23 10:14	11/21/23 02:09	1
4-Bromophenyl phenyl ether	0.75	U	10	0.75	ug/L		11/20/23 10:14	11/21/23 02:09	1
4-Chloro-3-methylphenol	0.58	U	10	0.58	ug/L		11/20/23 10:14	11/21/23 02:09	1
4-Chlorophenyl phenyl ether	1.3	U	10	1.3	ug/L		11/20/23 10:14	11/21/23 02:09	1
4-Methylphenol	0.65	U	10	0.65	ug/L		11/20/23 10:14	11/21/23 02:09	1

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Client Sample Results

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

Job ID: 460-292923-1

Client Sample ID: GW-11222397-111523-CT-07

Lab Sample ID: 460-292923-7

Date Collected: 11/15/23 10:50

Matrix: Water

Date Received: 11/15/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	1.2	U F2	10	1.2	ug/L		11/20/23 10:14	11/21/23 02:09	1
4-Nitrophenol	4.0	U	20	4.0	ug/L		11/20/23 10:14	11/21/23 02:09	1
Acenaphthene	1.1	U	10	1.1	ug/L		11/20/23 10:14	11/21/23 02:09	1
Acenaphthylene	0.82	U	10	0.82	ug/L		11/20/23 10:14	11/21/23 02:09	1
Acetophenone	7.4	J F1	10	2.3	ug/L		11/20/23 10:14	11/21/23 02:09	1
Anthracene	1.3	U	10	1.3	ug/L		11/20/23 10:14	11/21/23 02:09	1
Atrazine	1.3	U F2	2.0	1.3	ug/L		11/20/23 10:14	11/21/23 02:09	1
Benzaldehyde	2.1	U F1	10	2.1	ug/L		11/20/23 10:14	11/21/23 02:09	1
Benzo[a]anthracene	0.59	U	1.0	0.59	ug/L		11/20/23 10:14	11/21/23 02:09	1
Benzo[a]pyrene	0.41	U F1 **	1.0	0.41	ug/L		11/20/23 10:14	11/21/23 02:09	1
Benzo[b]fluoranthene	0.68	U F1 **	2.0	0.68	ug/L		11/20/23 10:14	11/21/23 02:09	1
Benzo[g,h,i]perylene	0.70	U	10	0.70	ug/L		11/20/23 10:14	11/21/23 02:09	1
Benzo[k]fluoranthene	0.67	U F1	1.0	0.67	ug/L		11/20/23 10:14	11/21/23 02:09	1
Bis(2-chloroethoxy)methane	0.59	U	10	0.59	ug/L		11/20/23 10:14	11/21/23 02:09	1
Bis(2-chloroethyl)ether	0.63	U	1.0	0.63	ug/L		11/20/23 10:14	11/21/23 02:09	1
Bis(2-ethylhexyl) phthalate	0.80	U F1	2.0	0.80	ug/L		11/20/23 10:14	11/21/23 02:09	1
Butyl benzyl phthalate	0.85	U	10	0.85	ug/L		11/20/23 10:14	11/21/23 02:09	1
Caprolactam	2.2	U	10	2.2	ug/L		11/20/23 10:14	11/21/23 02:09	1
Carbazole	0.68	U	10	0.68	ug/L		11/20/23 10:14	11/21/23 02:09	1
Chrysene	0.91	U	2.0	0.91	ug/L		11/20/23 10:14	11/21/23 02:09	1
Dibenz(a,h)anthracene	0.72	U	1.0	0.72	ug/L		11/20/23 10:14	11/21/23 02:09	1
Dibenzofuran	1.1	U	10	1.1	ug/L		11/20/23 10:14	11/21/23 02:09	1
Diethyl phthalate	0.98	U	10	0.98	ug/L		11/20/23 10:14	11/21/23 02:09	1
Dimethyl phthalate	0.77	U	10	0.77	ug/L		11/20/23 10:14	11/21/23 02:09	1
Di-n-butyl phthalate	0.84	U F1 **	10	0.84	ug/L		11/20/23 10:14	11/21/23 02:09	1
Di-n-octyl phthalate	0.75	U F1	10	0.75	ug/L		11/20/23 10:14	11/21/23 02:09	1
Fluoranthene	0.84	U	10	0.84	ug/L		11/20/23 10:14	11/21/23 02:09	1
Fluorene	0.91	U	10	0.91	ug/L		11/20/23 10:14	11/21/23 02:09	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		11/20/23 10:14	11/21/23 02:09	1
Hexachlorobutadiene	0.78	U	1.0	0.78	ug/L		11/20/23 10:14	11/21/23 02:09	1
Hexachlorocyclopentadiene	3.6	U	10	3.6	ug/L		11/20/23 10:14	11/21/23 02:09	1
Hexachloroethane	0.80	U	2.0	0.80	ug/L		11/20/23 10:14	11/21/23 02:09	1
Indeno[1,2,3-cd]pyrene	0.94	U	2.0	0.94	ug/L		11/20/23 10:14	11/21/23 02:09	1
Isophorone	0.80	U	10	0.80	ug/L		11/20/23 10:14	11/21/23 02:09	1
Naphthalene	31		2.0	0.54	ug/L		11/20/23 10:14	11/21/23 02:09	1
Nitrobenzene	0.57	U F1	1.0	0.57	ug/L		11/20/23 10:14	11/21/23 02:09	1
N-Nitrosodi-n-propylamine	0.43	U F1 **	1.0	0.43	ug/L		11/20/23 10:14	11/21/23 02:09	1
N-Nitrosodiphenylamine	0.89	U	10	0.89	ug/L		11/20/23 10:14	11/21/23 02:09	1
Pentachlorophenol	1.4	U	20	1.4	ug/L		11/20/23 10:14	11/21/23 02:09	1
Phenanthrene	1.3	U	10	1.3	ug/L		11/20/23 10:14	11/21/23 02:09	1
Phenol	0.29	U	10	0.29	ug/L		11/20/23 10:14	11/21/23 02:09	1
Pyrene	1.6	U	10	1.6	ug/L		11/20/23 10:14	11/21/23 02:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	131		37 - 150	11/20/23 10:14	11/21/23 02:09	1
2-Fluorobiphenyl	98		46 - 139	11/20/23 10:14	11/21/23 02:09	1
2-Fluorophenol (Surr)	55		16 - 80	11/20/23 10:14	11/21/23 02:09	1
Nitrobenzene-d5 (Surr)	109		51 - 145	11/20/23 10:14	11/21/23 02:09	1
Phenol-d5 (Surr)	43		10 - 56	11/20/23 10:14	11/21/23 02:09	1
Terphenyl-d14 (Surr)	92		13 - 150	11/20/23 10:14	11/21/23 02:09	1

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Client Sample Results

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

Job ID: 460-292923-1

Client Sample ID: RB-11222397-111523-ZB-08

Lab Sample ID: 460-292923-8

Date Collected: 11/15/23 09:30

Matrix: Water

Date Received: 11/15/23 19:00

Method: SW846 8260B - 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			11/28/23 23:15	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/28/23 23:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/28/23 23:15	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/28/23 23:15	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/28/23 23:15	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/28/23 23:15	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/28/23 23:15	1
1,2,4-Trimethylbenzene	0.37	U	1.0	0.37	ug/L			11/28/23 23:15	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/28/23 23:15	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/28/23 23:15	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/28/23 23:15	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			11/28/23 23:15	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/28/23 23:15	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/28/23 23:15	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/28/23 23:15	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			11/28/23 23:15	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/28/23 23:15	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			11/28/23 23:15	1
Acetone	4.4	U	5.0	4.4	ug/L			11/28/23 23:15	1
Benzene	0.20	U	1.0	0.20	ug/L			11/28/23 23:15	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			11/28/23 23:15	1
Bromoform	0.54	U	1.0	0.54	ug/L			11/28/23 23:15	1
Bromomethane	0.55	U	1.0	0.55	ug/L			11/28/23 23:15	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			11/28/23 23:15	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			11/28/23 23:15	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/28/23 23:15	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/28/23 23:15	1
Chloroform	0.33	U	1.0	0.33	ug/L			11/28/23 23:15	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/28/23 23:15	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			11/28/23 23:15	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/28/23 23:15	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			11/28/23 23:15	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			11/28/23 23:15	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/28/23 23:15	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			11/28/23 23:15	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			11/28/23 23:15	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/28/23 23:15	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/28/23 23:15	1
Methylcyclohexane	0.71	U	1.0	0.71	ug/L			11/28/23 23:15	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			11/28/23 23:15	1
Styrene	0.42	U	1.0	0.42	ug/L			11/28/23 23:15	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			11/28/23 23:15	1
Toluene	0.38	U	1.0	0.38	ug/L			11/28/23 23:15	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/28/23 23:15	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/28/23 23:15	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			11/28/23 23:15	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			11/28/23 23:15	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			11/28/23 23:15	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			11/28/23 23:15	1

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Client Sample Results

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

Job ID: 460-292923-1

Client Sample ID: RB-11222397-111523-ZB-08

Lab Sample ID: 460-292923-8

Date Collected: 11/15/23 09:30

Matrix: Water

Date Received: 11/15/23 19:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 128		11/28/23 23:15	1
4-Bromofluorobenzene	98		76 - 120		11/28/23 23:15	1
Dibromofluoromethane (Surr)	97		77 - 132		11/28/23 23:15	1
Toluene-d8 (Surr)	102		80 - 120		11/28/23 23:15	1

Client Sample ID: GW-11222397-111523-ZB-09

Lab Sample ID: 460-292923-9

Date Collected: 11/15/23 11:00

Matrix: Water

Date Received: 11/15/23 19:00

Method: SW846 8260B - 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			11/29/23 02:50	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/29/23 02:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/29/23 02:50	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/29/23 02:50	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/29/23 02:50	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/29/23 02:50	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/29/23 02:50	1
1,2,4-Trimethylbenzene	0.37	U	1.0	0.37	ug/L			11/29/23 02:50	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/29/23 02:50	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/29/23 02:50	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/29/23 02:50	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			11/29/23 02:50	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/29/23 02:50	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/29/23 02:50	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/29/23 02:50	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			11/29/23 02:50	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/29/23 02:50	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			11/29/23 02:50	1
Acetone	4.4	U	5.0	4.4	ug/L			11/29/23 02:50	1
Benzene	0.20	U	1.0	0.20	ug/L			11/29/23 02:50	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			11/29/23 02:50	1
Bromoform	0.54	U	1.0	0.54	ug/L			11/29/23 02:50	1
Bromomethane	0.55	U	1.0	0.55	ug/L			11/29/23 02:50	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			11/29/23 02:50	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			11/29/23 02:50	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/29/23 02:50	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/29/23 02:50	1
Chloroform	0.33	U	1.0	0.33	ug/L			11/29/23 02:50	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/29/23 02:50	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			11/29/23 02:50	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/29/23 02:50	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			11/29/23 02:50	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			11/29/23 02:50	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/29/23 02:50	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			11/29/23 02:50	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			11/29/23 02:50	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/29/23 02:50	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/29/23 02:50	1
Methylcyclohexane	0.71	U	1.0	0.71	ug/L			11/29/23 02:50	1

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Client Sample Results

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

Job ID: 460-292923-1

Client Sample ID: GW-11222397-111523-ZB-09

Lab Sample ID: 460-292923-9

Date Collected: 11/15/23 11:00

Matrix: Water

Date Received: 11/15/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	0.32	U	1.0	0.32	ug/L			11/29/23 02:50	1
Styrene	0.42	U	1.0	0.42	ug/L			11/29/23 02:50	1
Tetrachloroethene	0.64	J	1.0	0.25	ug/L			11/29/23 02:50	1
Toluene	0.38	U	1.0	0.38	ug/L			11/29/23 02:50	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/29/23 02:50	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/29/23 02:50	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			11/29/23 02:50	1
Trichlorofluoromethane	2.2		1.0	0.32	ug/L			11/29/23 02:50	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			11/29/23 02:50	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			11/29/23 02:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 128					11/29/23 02:50	1
4-Bromofluorobenzene	104		76 - 120					11/29/23 02:50	1
Dibromofluoromethane (Surr)	100		77 - 132					11/29/23 02:50	1
Toluene-d8 (Surr)	102		80 - 120					11/29/23 02:50	1

Client Sample ID: GW-11222397-111523-ZB-10

Lab Sample ID: 460-292923-10

Date Collected: 11/15/23 12:15

Matrix: Water

Date Received: 11/15/23 19:00

Method: SW846 8260B - 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			11/29/23 03:29	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/29/23 03:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/29/23 03:29	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/29/23 03:29	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/29/23 03:29	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/29/23 03:29	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/29/23 03:29	1
1,2,4-Trimethylbenzene	5.7		1.0	0.37	ug/L			11/29/23 03:29	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/29/23 03:29	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/29/23 03:29	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/29/23 03:29	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			11/29/23 03:29	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/29/23 03:29	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/29/23 03:29	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/29/23 03:29	1
2-Butanone (MEK)	5.0		5.0	1.9	ug/L			11/29/23 03:29	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/29/23 03:29	1
4-Methyl-2-pentanone (MIBK)	1.3	J	5.0	1.3	ug/L			11/29/23 03:29	1
Acetone	29		5.0	4.4	ug/L			11/29/23 03:29	1
Benzene	0.20	U	1.0	0.20	ug/L			11/29/23 03:29	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			11/29/23 03:29	1
Bromoform	0.54	U	1.0	0.54	ug/L			11/29/23 03:29	1
Bromomethane	0.55	U	1.0	0.55	ug/L			11/29/23 03:29	1
Carbon disulfide	19		1.0	0.82	ug/L			11/29/23 03:29	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			11/29/23 03:29	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/29/23 03:29	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/29/23 03:29	1

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Client Sample Results

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

Job ID: 460-292923-1

Client Sample ID: GW-11222397-111523-ZB-10

Lab Sample ID: 460-292923-10

Date Collected: 11/15/23 12:15

Matrix: Water

Date Received: 11/15/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	0.33	U	1.0	0.33	ug/L			11/29/23 03:29	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/29/23 03:29	1
cis-1,2-Dichloroethene	1.4		1.0	0.22	ug/L			11/29/23 03:29	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/29/23 03:29	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			11/29/23 03:29	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			11/29/23 03:29	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/29/23 03:29	1
Ethylbenzene	2.2		1.0	0.30	ug/L			11/29/23 03:29	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			11/29/23 03:29	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/29/23 03:29	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/29/23 03:29	1
Methylcyclohexane	0.71	U	1.0	0.71	ug/L			11/29/23 03:29	1
Methylene Chloride	0.38	J	1.0	0.32	ug/L			11/29/23 03:29	1
Styrene	1.3		1.0	0.42	ug/L			11/29/23 03:29	1
Tetrachloroethene	0.40	J	1.0	0.25	ug/L			11/29/23 03:29	1
Toluene	1.3		1.0	0.38	ug/L			11/29/23 03:29	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/29/23 03:29	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/29/23 03:29	1
Trichloroethene	0.31	J	1.0	0.31	ug/L			11/29/23 03:29	1
Trichlorofluoromethane	1.8		1.0	0.32	ug/L			11/29/23 03:29	1
Vinyl chloride	0.87	J	1.0	0.17	ug/L			11/29/23 03:29	1
Xylenes, Total	13		2.0	0.65	ug/L			11/29/23 03:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 128					11/29/23 03:29	1
4-Bromofluorobenzene	100		76 - 120					11/29/23 03:29	1
Dibromofluoromethane (Surr)	99		77 - 132					11/29/23 03:29	1
Toluene-d8 (Surr)	102		80 - 120					11/29/23 03:29	1

Client Sample ID: GW-11222397-111523-ZB-11

Lab Sample ID: 460-292923-11

Date Collected: 11/15/23 12:25

Matrix: Water

Date Received: 11/15/23 19:00

Method: SW846 8260B - 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			11/29/23 03:49	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/29/23 03:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/29/23 03:49	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/29/23 03:49	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/29/23 03:49	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/29/23 03:49	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/29/23 03:49	1
1,2,4-Trimethylbenzene	5.4		1.0	0.37	ug/L			11/29/23 03:49	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/29/23 03:49	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/29/23 03:49	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/29/23 03:49	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			11/29/23 03:49	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/29/23 03:49	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/29/23 03:49	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/29/23 03:49	1

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Client Sample Results

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

Job ID: 460-292923-1

Client Sample ID: GW-11222397-111523-ZB-11

Lab Sample ID: 460-292923-11

Date Collected: 11/15/23 12:25

Matrix: Water

Date Received: 11/15/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	5.9		5.0	1.9	ug/L			11/29/23 03:49	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/29/23 03:49	1
4-Methyl-2-pentanone (MIBK)	1.5	J	5.0	1.3	ug/L			11/29/23 03:49	1
Acetone	28		5.0	4.4	ug/L			11/29/23 03:49	1
Benzene	0.20	U	1.0	0.20	ug/L			11/29/23 03:49	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			11/29/23 03:49	1
Bromoform	0.54	U	1.0	0.54	ug/L			11/29/23 03:49	1
Bromomethane	0.55	U	1.0	0.55	ug/L			11/29/23 03:49	1
Carbon disulfide	19		1.0	0.82	ug/L			11/29/23 03:49	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			11/29/23 03:49	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/29/23 03:49	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/29/23 03:49	1
Chloroform	0.33	U	1.0	0.33	ug/L			11/29/23 03:49	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/29/23 03:49	1
cis-1,2-Dichloroethene	1.3		1.0	0.22	ug/L			11/29/23 03:49	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/29/23 03:49	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			11/29/23 03:49	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			11/29/23 03:49	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/29/23 03:49	1
Ethylbenzene	2.3		1.0	0.30	ug/L			11/29/23 03:49	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			11/29/23 03:49	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/29/23 03:49	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/29/23 03:49	1
Methylcyclohexane	0.71	U	1.0	0.71	ug/L			11/29/23 03:49	1
Methylene Chloride	0.37	J	1.0	0.32	ug/L			11/29/23 03:49	1
Styrene	1.5		1.0	0.42	ug/L			11/29/23 03:49	1
Tetrachloroethene	0.39	J	1.0	0.25	ug/L			11/29/23 03:49	1
Toluene	1.3		1.0	0.38	ug/L			11/29/23 03:49	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/29/23 03:49	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/29/23 03:49	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			11/29/23 03:49	1
Trichlorofluoromethane	1.6		1.0	0.32	ug/L			11/29/23 03:49	1
Vinyl chloride	0.85	J	1.0	0.17	ug/L			11/29/23 03:49	1
Xylenes, Total	13		2.0	0.65	ug/L			11/29/23 03:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 128		11/29/23 03:49	1
4-Bromofluorobenzene	100		76 - 120		11/29/23 03:49	1
Dibromofluoromethane (Surr)	100		77 - 132		11/29/23 03:49	1
Toluene-d8 (Surr)	104		80 - 120		11/29/23 03:49	1

Client Sample ID: GW-11222397-111523-ZB-12

Lab Sample ID: 460-292923-12

Date Collected: 11/15/23 12:55

Matrix: Water

Date Received: 11/15/23 19:00

Method: SW846 8260B - 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			11/29/23 04:08	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/29/23 04:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/29/23 04:08	1

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Client Sample Results

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

Job ID: 460-292923-1

Client Sample ID: GW-11222397-111523-ZB-12

Lab Sample ID: 460-292923-12

Date Collected: 11/15/23 12:55

Matrix: Water

Date Received: 11/15/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/29/23 04:08	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/29/23 04:08	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/29/23 04:08	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/29/23 04:08	1
1,2,4-Trimethylbenzene	0.37	U	1.0	0.37	ug/L			11/29/23 04:08	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/29/23 04:08	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/29/23 04:08	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/29/23 04:08	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			11/29/23 04:08	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/29/23 04:08	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/29/23 04:08	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/29/23 04:08	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			11/29/23 04:08	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/29/23 04:08	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			11/29/23 04:08	1
Acetone	4.4	U	5.0	4.4	ug/L			11/29/23 04:08	1
Benzene	0.20	U	1.0	0.20	ug/L			11/29/23 04:08	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			11/29/23 04:08	1
Bromoform	0.54	U	1.0	0.54	ug/L			11/29/23 04:08	1
Bromomethane	0.55	U	1.0	0.55	ug/L			11/29/23 04:08	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			11/29/23 04:08	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			11/29/23 04:08	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/29/23 04:08	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/29/23 04:08	1
Chloroform	0.33	U	1.0	0.33	ug/L			11/29/23 04:08	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/29/23 04:08	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			11/29/23 04:08	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/29/23 04:08	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			11/29/23 04:08	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			11/29/23 04:08	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/29/23 04:08	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			11/29/23 04:08	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			11/29/23 04:08	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/29/23 04:08	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/29/23 04:08	1
Methylcyclohexane	0.71	U	1.0	0.71	ug/L			11/29/23 04:08	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			11/29/23 04:08	1
Styrene	0.42	U	1.0	0.42	ug/L			11/29/23 04:08	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			11/29/23 04:08	1
Toluene	0.38	U	1.0	0.38	ug/L			11/29/23 04:08	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/29/23 04:08	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/29/23 04:08	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			11/29/23 04:08	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			11/29/23 04:08	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			11/29/23 04:08	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			11/29/23 04:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 128		11/29/23 04:08	1
4-Bromofluorobenzene	99		76 - 120		11/29/23 04:08	1

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Client Sample Results

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

Job ID: 460-292923-1

Client Sample ID: GW-11222397-111523-ZB-12

Lab Sample ID: 460-292923-12

Date Collected: 11/15/23 12:55

Matrix: Water

Date Received: 11/15/23 19:00

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		77 - 132		11/29/23 04:08	1
Toluene-d8 (Surr)	104		80 - 120		11/29/23 04:08	1

Client Sample ID: RB-11222397-111523-ZB-13

Lab Sample ID: 460-292923-13

Date Collected: 11/15/23 13:05

Matrix: Water

Date Received: 11/15/23 19:00

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		11/29/23 09:14	11/29/23 13:31	1
Antimony	0.76	U	2.0	0.76	ug/L		11/29/23 09:14	11/29/23 13:31	1
Arsenic	0.89	U	2.0	0.89	ug/L		11/29/23 09:14	11/29/23 13:31	1
Barium	0.91	U	4.0	0.91	ug/L		11/29/23 09:14	11/29/23 13:31	1
Beryllium	0.13	U	0.80	0.13	ug/L		11/29/23 09:14	11/29/23 13:31	1
Cadmium	0.39	U	2.0	0.39	ug/L		11/29/23 09:14	11/29/23 13:31	1
Calcium	53.6	U	500	53.6	ug/L		11/29/23 09:14	11/29/23 13:31	1
Chromium	2.5	U	4.0	2.5	ug/L		11/29/23 09:14	11/29/23 13:31	1
Cobalt	0.71	U	4.0	0.71	ug/L		11/29/23 09:14	11/29/23 13:31	1
Copper	46.9		4.0	2.5	ug/L		11/29/23 09:14	11/29/23 13:31	1
Iron	58.2	U	120	58.2	ug/L		11/29/23 09:14	11/29/23 13:31	1
Lead	0.84	U	1.2	0.84	ug/L		11/29/23 09:14	11/29/23 13:31	1
Magnesium	46.9	U	200	46.9	ug/L		11/29/23 09:14	11/29/23 13:31	1
Manganese	1.7	J	8.0	1.5	ug/L		11/29/23 09:14	11/29/23 13:31	1
Nickel	100		4.0	0.91	ug/L		11/29/23 09:14	11/29/23 13:31	1
Potassium	112	U	200	112	ug/L		11/29/23 09:14	11/29/23 13:31	1
Selenium	0.59	U	2.5	0.59	ug/L		11/29/23 09:14	11/29/23 13:31	1
Silver	0.29	U	2.0	0.29	ug/L		11/29/23 09:14	11/29/23 13:31	1
Sodium	219	U	500	219	ug/L		11/29/23 09:14	11/29/23 13:31	1
Thallium	0.21	U	0.80	0.21	ug/L		11/29/23 09:14	11/29/23 13:31	1
Vanadium	0.68	U	4.0	0.68	ug/L		11/29/23 09:14	11/29/23 13:31	1
Zinc	6.5	U	16.0	6.5	ug/L		11/29/23 09:14	11/29/23 13:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Manganese	1.5	U	8.0	1.5	ug/L		11/29/23 23:18	11/30/23 00:16	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		11/27/23 05:56	11/27/23 10:13	1

Client Sample ID: TB-11222397-001

Lab Sample ID: 460-292923-14

Date Collected: 11/15/23 13:05

Matrix: Water

Date Received: 11/15/23 19:00

Method: SW846 8260B - 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			11/28/23 22:55	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/28/23 22:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/28/23 22:55	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/28/23 22:55	1

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Client Sample Results

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

Job ID: 460-292923-1

Client Sample ID: TB-11222397-001

Lab Sample ID: 460-292923-14

Date Collected: 11/15/23 13:05

Matrix: Water

Date Received: 11/15/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/28/23 22:55	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/28/23 22:55	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/28/23 22:55	1
1,2,4-Trimethylbenzene	0.37	U	1.0	0.37	ug/L			11/28/23 22:55	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/28/23 22:55	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/28/23 22:55	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/28/23 22:55	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			11/28/23 22:55	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/28/23 22:55	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/28/23 22:55	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/28/23 22:55	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			11/28/23 22:55	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/28/23 22:55	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			11/28/23 22:55	1
Acetone	4.4	U	5.0	4.4	ug/L			11/28/23 22:55	1
Benzene	0.20	U	1.0	0.20	ug/L			11/28/23 22:55	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			11/28/23 22:55	1
Bromoform	0.54	U	1.0	0.54	ug/L			11/28/23 22:55	1
Bromomethane	0.55	U	1.0	0.55	ug/L			11/28/23 22:55	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			11/28/23 22:55	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			11/28/23 22:55	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/28/23 22:55	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/28/23 22:55	1
Chloroform	0.33	U	1.0	0.33	ug/L			11/28/23 22:55	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/28/23 22:55	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			11/28/23 22:55	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/28/23 22:55	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			11/28/23 22:55	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			11/28/23 22:55	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/28/23 22:55	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			11/28/23 22:55	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			11/28/23 22:55	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/28/23 22:55	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/28/23 22:55	1
Methylcyclohexane	0.71	U	1.0	0.71	ug/L			11/28/23 22:55	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			11/28/23 22:55	1
Styrene	0.42	U	1.0	0.42	ug/L			11/28/23 22:55	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			11/28/23 22:55	1
Toluene	0.38	U	1.0	0.38	ug/L			11/28/23 22:55	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/28/23 22:55	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/28/23 22:55	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			11/28/23 22:55	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			11/28/23 22:55	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			11/28/23 22:55	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			11/28/23 22:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 128		11/28/23 22:55	1
4-Bromofluorobenzene	98		76 - 120		11/28/23 22:55	1
Dibromofluoromethane (Surr)	100		77 - 132		11/28/23 22:55	1

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Client Sample Results

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

Job ID: 460-292923-1

Client Sample ID: TB-11222397-001
Date Collected: 11/15/23 13:05
Date Received: 11/15/23 19:00

Lab Sample ID: 460-292923-14
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120		11/28/23 22:55	1

Surrogate Summary

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

Job ID: 460-292923-1

Method: 8260B - 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)
460-292923-2	GW-11222397-111423-ES-02	109	104	94	99
460-292923-4	GW-11222397-111423-ZB-04	99	102	97	101
460-292923-5	GW-11222397-111423-ZB-05	105	98	94	101
460-292923-6 - DL	GW-11222397-111523-CT-06	100 D	103 D	95 D	102 D
460-292923-6	GW-11222397-111523-CT-06	100	95	92	99
460-292923-7	GW-11222397-111523-CT-07	103	99	96	101
460-292923-8	RB-11222397-111523-ZB-08	101	98	97	102
460-292923-9	GW-11222397-111523-ZB-09	102	104	100	102
460-292923-9 MS	GW-11222397-111523-ZB-09	99	100	103	100
460-292923-9 MSD	GW-11222397-111523-ZB-09	100	98	100	103
460-292923-10	GW-11222397-111523-ZB-10	101	100	99	102
460-292923-11	GW-11222397-111523-ZB-11	101	100	100	104
460-292923-12	GW-11222397-111523-ZB-12	98	99	97	104
460-292923-14	TB-11222397-001	101	98	100	103
LCS 460-946776/5	Lab Control Sample	98	101	101	101
LCS 460-946954/5	Lab Control Sample	100	100	100	102
LCS 460-947050/6	Lab Control Sample	100	98	98	103
LCSD 460-946776/6	Lab Control Sample Dup	99	100	101	100
LCSD 460-946954/6	Lab Control Sample Dup	100	99	101	101
LCSD 460-947050/7	Lab Control Sample Dup	100	96	99	100
MB 460-946776/10	Method Blank	97	102	98	100
MB 460-946954/10	Method Blank	101	100	100	106
MB 460-947050/11	Method Blank	96	93	98	99

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 (13-150)
460-292923-1	RB-11222397-111423-ZB-01	130	104	50	111	35	103
460-292923-2	GW-11222397-111423-ES-02	132	112	56	119	42	65
460-292923-3	GW-11222397-111423-ES-03	131	106	59	117	48	66
460-292923-4	GW-11222397-111423-ZB-04	130	100	52	114	39	79
460-292923-5	GW-11222397-111423-ZB-05	136	95	49	107	39	78
460-292923-6	GW-11222397-111523-CT-06	138	99	53	112	41	91
460-292923-7	GW-11222397-111523-CT-07	131	98	55	109	43	92
460-292923-7 MS	GW-11222397-111523-CT-07	141	113	63	122	48	104
460-292923-7 MSD	GW-11222397-111523-CT-07	135	109	59	118	45	97
LCS 460-945744/2-A	Lab Control Sample	105	84	39	90	26	83
LCSD 460-945744/3-A	Lab Control Sample Dup	126	95	48	104	33	98
MB 460-945744/1-A	Method Blank	137	91	53	109	37	121

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

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Surrogate Summary

Client: GHD Services Inc.
Project/Site: Racer Trust
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Job ID: 460-292923-1

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QC Sample Results

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

Job ID: 460-292923-1

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

Lab Sample ID: MB 460-946776/10

Matrix: Water

Analysis Batch: 946776

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			11/27/23 21:48	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/27/23 21:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/27/23 21:48	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/27/23 21:48	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/27/23 21:48	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/27/23 21:48	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/27/23 21:48	1
1,2,4-Trimethylbenzene	0.37	U	1.0	0.37	ug/L			11/27/23 21:48	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/27/23 21:48	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/27/23 21:48	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/27/23 21:48	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			11/27/23 21:48	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/27/23 21:48	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/27/23 21:48	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/27/23 21:48	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			11/27/23 21:48	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/27/23 21:48	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			11/27/23 21:48	1
Acetone	4.4	U	5.0	4.4	ug/L			11/27/23 21:48	1
Benzene	0.20	U	1.0	0.20	ug/L			11/27/23 21:48	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			11/27/23 21:48	1
Bromoform	0.54	U	1.0	0.54	ug/L			11/27/23 21:48	1
Bromomethane	0.55	U	1.0	0.55	ug/L			11/27/23 21:48	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			11/27/23 21:48	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			11/27/23 21:48	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/27/23 21:48	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/27/23 21:48	1
Chloroform	0.33	U	1.0	0.33	ug/L			11/27/23 21:48	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/27/23 21:48	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			11/27/23 21:48	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/27/23 21:48	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			11/27/23 21:48	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			11/27/23 21:48	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/27/23 21:48	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			11/27/23 21:48	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			11/27/23 21:48	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/27/23 21:48	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/27/23 21:48	1
Methylcyclohexane	0.71	U	1.0	0.71	ug/L			11/27/23 21:48	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			11/27/23 21:48	1
Styrene	0.42	U	1.0	0.42	ug/L			11/27/23 21:48	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			11/27/23 21:48	1
Toluene	0.38	U	1.0	0.38	ug/L			11/27/23 21:48	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/27/23 21:48	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/27/23 21:48	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			11/27/23 21:48	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			11/27/23 21:48	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			11/27/23 21:48	1

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QC Sample Results

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

Job ID: 460-292923-1

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

Lab Sample ID: MB 460-946776/10

Matrix: Water

Analysis Batch: 946776

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			11/27/23 21:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 128		11/27/23 21:48	1
4-Bromofluorobenzene	102		76 - 120		11/27/23 21:48	1
Dibromofluoromethane (Surr)	98		77 - 132		11/27/23 21:48	1
Toluene-d8 (Surr)	100		80 - 120		11/27/23 21:48	1

Lab Sample ID: LCS 460-946776/5

Matrix: Water

Analysis Batch: 946776

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	20.0		ug/L		100	72 - 128
1,1,2,2-Tetrachloroethane	20.0	19.1		ug/L		96	63 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.7		ug/L		104	51 - 142
1,1,2-Trichloroethane	20.0	19.3		ug/L		97	74 - 125
1,1-Dichloroethane	20.0	20.1		ug/L		100	73 - 130
1,1-Dichloroethene	20.0	20.9		ug/L		104	68 - 133
1,2,4-Trichlorobenzene	20.0	18.6		ug/L		93	67 - 132
1,2,4-Trimethylbenzene	20.0	19.3		ug/L		97	75 - 125
1,2-Dibromo-3-Chloropropane	20.0	17.8		ug/L		89	58 - 132
1,2-Dibromoethane	20.0	18.9		ug/L		95	79 - 126
1,2-Dichlorobenzene	20.0	18.6		ug/L		93	80 - 120
1,2-Dichloroethane	20.0	19.7		ug/L		99	66 - 129
1,2-Dichloropropane	20.0	20.3		ug/L		102	68 - 128
1,3-Dichlorobenzene	20.0	19.2		ug/L		96	80 - 120
1,4-Dichlorobenzene	20.0	19.3		ug/L		97	80 - 120
2-Butanone (MEK)	100	99.7		ug/L		100	61 - 142
2-Hexanone	100	94.0		ug/L		94	61 - 134
4-Methyl-2-pentanone (MIBK)	100	96.9		ug/L		97	69 - 139
Acetone	100	101		ug/L		101	49 - 149
Benzene	20.0	20.1		ug/L		101	71 - 126
Bromodichloromethane	20.0	18.6		ug/L		93	76 - 121
Bromoform	20.0	18.8		ug/L		94	58 - 136
Bromomethane	20.0	20.4		ug/L		102	10 - 120
Carbon disulfide	20.0	20.9		ug/L		104	68 - 138
Carbon tetrachloride	20.0	19.6		ug/L		98	65 - 142
Chlorobenzene	20.0	19.8		ug/L		99	80 - 120
Chloroethane	20.0	20.8		ug/L		104	48 - 150
Chloroform	20.0	20.3		ug/L		101	78 - 125
Chloromethane	20.0	20.2		ug/L		101	43 - 140
cis-1,2-Dichloroethene	20.0	18.9		ug/L		95	78 - 121
cis-1,3-Dichloropropene	20.0	19.6		ug/L		98	74 - 125
Cyclohexane	20.0	21.2		ug/L		106	60 - 142
Dibromochloromethane	20.0	19.9		ug/L		99	69 - 130
Dichlorodifluoromethane	20.0	20.3		ug/L		102	27 - 120
Ethylbenzene	20.0	19.6		ug/L		98	78 - 120

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QC Sample Results

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

Job ID: 460-292923-1

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

Lab Sample ID: LCS 460-946776/5

Matrix: Water

Analysis Batch: 946776

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Isopropylbenzene	20.0	20.0		ug/L		100	79 - 125
Methyl acetate	40.0	36.0		ug/L		90	43 - 120
Methyl tert-butyl ether	20.0	19.6		ug/L		98	72 - 131
Methylcyclohexane	20.0	20.3		ug/L		102	49 - 149
Methylene Chloride	20.0	20.4		ug/L		102	74 - 127
Styrene	20.0	20.2		ug/L		101	82 - 127
Tetrachloroethene	20.0	19.2		ug/L		96	70 - 127
Toluene	20.0	20.2		ug/L		101	78 - 120
trans-1,2-Dichloroethene	20.0	20.3		ug/L		101	74 - 126
trans-1,3-Dichloropropene	20.0	20.2		ug/L		101	66 - 127
Trichloroethene	20.0	20.4		ug/L		102	51 - 121
Trichlorofluoromethane	20.0	19.2		ug/L		96	50 - 120
Vinyl chloride	20.0	19.5		ug/L		98	55 - 144
Xylenes, Total	40.0	39.5		ug/L		99	80 - 120

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

Lab Sample ID: LCSD 460-946776/6

Matrix: Water

Analysis Batch: 946776

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	19.1		ug/L		96	72 - 128	5	30
1,1,2,2-Tetrachloroethane	20.0	18.7		ug/L		94	63 - 139	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.6		ug/L		98	51 - 142	6	30
1,1,2-Trichloroethane	20.0	19.4		ug/L		97	74 - 125	0	30
1,1-Dichloroethane	20.0	18.7		ug/L		94	73 - 130	7	30
1,1-Dichloroethene	20.0	18.6		ug/L		93	68 - 133	11	30
1,2,4-Trichlorobenzene	20.0	19.0		ug/L		95	67 - 132	2	30
1,2,4-Trimethylbenzene	20.0	18.6		ug/L		93	75 - 125	4	30
1,2-Dibromo-3-Chloropropane	20.0	20.5		ug/L		103	58 - 132	14	30
1,2-Dibromoethane	20.0	18.7		ug/L		93	79 - 126	1	30
1,2-Dichlorobenzene	20.0	18.4		ug/L		92	80 - 120	1	30
1,2-Dichloroethane	20.0	19.0		ug/L		95	66 - 129	4	30
1,2-Dichloropropane	20.0	20.0		ug/L		100	68 - 128	2	30
1,3-Dichlorobenzene	20.0	18.8		ug/L		94	80 - 120	2	30
1,4-Dichlorobenzene	20.0	18.9		ug/L		94	80 - 120	2	30
2-Butanone (MEK)	100	97.4		ug/L		97	61 - 142	2	30
2-Hexanone	100	94.8		ug/L		95	61 - 134	1	30
4-Methyl-2-pentanone (MIBK)	100	94.3		ug/L		94	69 - 139	3	30
Acetone	100	99.7		ug/L		100	49 - 149	1	30
Benzene	20.0	18.9		ug/L		94	71 - 126	6	30
Bromodichloromethane	20.0	18.4		ug/L		92	76 - 121	1	30
Bromoform	20.0	19.5		ug/L		98	58 - 136	4	30

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QC Sample Results

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

Job ID: 460-292923-1

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

Lab Sample ID: LCSD 460-946776/6

Matrix: Water

Analysis Batch: 946776

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromomethane	20.0	20.1		ug/L		100	10 - 120	1	30
Carbon disulfide	20.0	19.2		ug/L		96	68 - 138	8	30
Carbon tetrachloride	20.0	18.5		ug/L		93	65 - 142	6	30
Chlorobenzene	20.0	18.8		ug/L		94	80 - 120	5	30
Chloroethane	20.0	19.6		ug/L		98	48 - 150	6	30
Chloroform	20.0	18.9		ug/L		94	78 - 125	7	30
Chloromethane	20.0	19.1		ug/L		96	43 - 140	6	30
cis-1,2-Dichloroethene	20.0	18.3		ug/L		92	78 - 121	3	30
cis-1,3-Dichloropropene	20.0	18.5		ug/L		92	74 - 125	6	30
Cyclohexane	20.0	19.3		ug/L		96	60 - 142	9	30
Dibromochloromethane	20.0	18.7		ug/L		93	69 - 130	6	30
Dichlorodifluoromethane	20.0	19.7		ug/L		98	27 - 120	3	30
Ethylbenzene	20.0	19.0		ug/L		95	78 - 120	3	30
Isopropylbenzene	20.0	18.9		ug/L		94	79 - 125	6	30
Methyl acetate	40.0	35.1		ug/L		88	43 - 120	3	30
Methyl tert-butyl ether	20.0	19.0		ug/L		95	72 - 131	3	30
Methylcyclohexane	20.0	18.9		ug/L		95	49 - 149	7	30
Methylene Chloride	20.0	19.3		ug/L		97	74 - 127	5	30
Styrene	20.0	19.3		ug/L		97	82 - 127	4	30
Tetrachloroethene	20.0	18.6		ug/L		93	70 - 127	3	30
Toluene	20.0	19.1		ug/L		96	78 - 120	5	30
trans-1,2-Dichloroethene	20.0	18.9		ug/L		95	74 - 126	7	30
trans-1,3-Dichloropropene	20.0	18.5		ug/L		92	66 - 127	9	30
Trichloroethene	20.0	19.1		ug/L		95	51 - 121	6	30
Trichlorofluoromethane	20.0	19.2		ug/L		96	50 - 120	0	30
Vinyl chloride	20.0	18.5		ug/L		93	55 - 144	5	30
Xylenes, Total	40.0	36.8		ug/L		92	80 - 120	7	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 128
4-Bromofluorobenzene	100		76 - 120
Dibromofluoromethane (Surr)	101		77 - 132
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: MB 460-946954/10

Matrix: Water

Analysis Batch: 946954

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			11/28/23 21:56	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/28/23 21:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/28/23 21:56	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/28/23 21:56	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/28/23 21:56	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/28/23 21:56	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/28/23 21:56	1
1,2,4-Trimethylbenzene	0.37	U	1.0	0.37	ug/L			11/28/23 21:56	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/28/23 21:56	1

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QC Sample Results

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

Job ID: 460-292923-1

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

Lab Sample ID: MB 460-946954/10

Matrix: Water

Analysis Batch: 946954

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/28/23 21:56	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/28/23 21:56	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			11/28/23 21:56	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/28/23 21:56	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/28/23 21:56	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/28/23 21:56	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			11/28/23 21:56	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/28/23 21:56	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			11/28/23 21:56	1
Acetone	4.4	U	5.0	4.4	ug/L			11/28/23 21:56	1
Benzene	0.20	U	1.0	0.20	ug/L			11/28/23 21:56	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			11/28/23 21:56	1
Bromoform	0.54	U	1.0	0.54	ug/L			11/28/23 21:56	1
Bromomethane	0.55	U	1.0	0.55	ug/L			11/28/23 21:56	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			11/28/23 21:56	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			11/28/23 21:56	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/28/23 21:56	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/28/23 21:56	1
Chloroform	0.33	U	1.0	0.33	ug/L			11/28/23 21:56	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/28/23 21:56	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			11/28/23 21:56	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/28/23 21:56	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			11/28/23 21:56	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			11/28/23 21:56	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/28/23 21:56	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			11/28/23 21:56	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			11/28/23 21:56	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/28/23 21:56	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/28/23 21:56	1
Methylcyclohexane	0.71	U	1.0	0.71	ug/L			11/28/23 21:56	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			11/28/23 21:56	1
Styrene	0.42	U	1.0	0.42	ug/L			11/28/23 21:56	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			11/28/23 21:56	1
Toluene	0.38	U	1.0	0.38	ug/L			11/28/23 21:56	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/28/23 21:56	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/28/23 21:56	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			11/28/23 21:56	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			11/28/23 21:56	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			11/28/23 21:56	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			11/28/23 21:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 128		11/28/23 21:56	1
4-Bromofluorobenzene	100		76 - 120		11/28/23 21:56	1
Dibromofluoromethane (Surr)	100		77 - 132		11/28/23 21:56	1
Toluene-d8 (Surr)	106		80 - 120		11/28/23 21:56	1

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QC Sample Results

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

Job ID: 460-292923-1

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

Lab Sample ID: LCS 460-946954/5

Matrix: Water

Analysis Batch: 946954

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	20.1		ug/L		100	72 - 128
1,1,2,2-Tetrachloroethane	20.0	19.7		ug/L		98	63 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.8		ug/L		104	51 - 142
1,1,2-Trichloroethane	20.0	19.7		ug/L		99	74 - 125
1,1-Dichloroethane	20.0	20.6		ug/L		103	73 - 130
1,1-Dichloroethene	20.0	19.7		ug/L		99	68 - 133
1,2,4-Trichlorobenzene	20.0	19.9		ug/L		99	67 - 132
1,2,4-Trimethylbenzene	20.0	19.8		ug/L		99	75 - 125
1,2-Dibromo-3-Chloropropane	20.0	18.5		ug/L		92	58 - 132
1,2-Dibromoethane	20.0	20.0		ug/L		100	79 - 126
1,2-Dichlorobenzene	20.0	19.8		ug/L		99	80 - 120
1,2-Dichloroethane	20.0	19.7		ug/L		98	66 - 129
1,2-Dichloropropane	20.0	19.2		ug/L		96	68 - 128
1,3-Dichlorobenzene	20.0	19.6		ug/L		98	80 - 120
1,4-Dichlorobenzene	20.0	19.9		ug/L		99	80 - 120
2-Butanone (MEK)	100	97.4		ug/L		97	61 - 142
2-Hexanone	100	95.5		ug/L		95	61 - 134
4-Methyl-2-pentanone (MIBK)	100	96.6		ug/L		97	69 - 139
Acetone	100	105		ug/L		105	49 - 149
Benzene	20.0	19.8		ug/L		99	71 - 126
Bromodichloromethane	20.0	20.5		ug/L		103	76 - 121
Bromoform	20.0	20.0		ug/L		100	58 - 136
Bromomethane	20.0	20.1		ug/L		101	10 - 120
Carbon disulfide	20.0	20.1		ug/L		100	68 - 138
Carbon tetrachloride	20.0	19.3		ug/L		97	65 - 142
Chlorobenzene	20.0	20.3		ug/L		101	80 - 120
Chloroethane	20.0	18.6		ug/L		93	48 - 150
Chloroform	20.0	19.9		ug/L		99	78 - 125
Chloromethane	20.0	20.4		ug/L		102	43 - 140
cis-1,2-Dichloroethene	20.0	19.6		ug/L		98	78 - 121
cis-1,3-Dichloropropene	20.0	20.1		ug/L		101	74 - 125
Cyclohexane	20.0	19.7		ug/L		99	60 - 142
Dibromochloromethane	20.0	20.2		ug/L		101	69 - 130
Dichlorodifluoromethane	20.0	20.6		ug/L		103	27 - 120
Ethylbenzene	20.0	19.8		ug/L		99	78 - 120
Isopropylbenzene	20.0	19.5		ug/L		98	79 - 125
Methyl acetate	40.0	41.8		ug/L		104	43 - 120
Methyl tert-butyl ether	20.0	19.9		ug/L		99	72 - 131
Methylcyclohexane	20.0	19.9		ug/L		100	49 - 149
Methylene Chloride	20.0	20.4		ug/L		102	74 - 127
Styrene	20.0	20.2		ug/L		101	82 - 127
Tetrachloroethene	20.0	19.5		ug/L		98	70 - 127
Toluene	20.0	20.2		ug/L		101	78 - 120
trans-1,2-Dichloroethene	20.0	20.0		ug/L		100	74 - 126
trans-1,3-Dichloropropene	20.0	20.1		ug/L		100	66 - 127
Trichloroethene	20.0	20.7		ug/L		103	51 - 121
Trichlorofluoromethane	20.0	21.2		ug/L		106	50 - 120
Vinyl chloride	20.0	19.1		ug/L		96	55 - 144

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QC Sample Results

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

Job ID: 460-292923-1

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

Lab Sample ID: LCS 460-946954/5

Matrix: Water

Analysis Batch: 946954

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Xylenes, Total	40.0	39.6		ug/L		99	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 128
4-Bromofluorobenzene	100		76 - 120
Dibromofluoromethane (Surr)	100		77 - 132
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: LCSD 460-946954/6

Matrix: Water

Analysis Batch: 946954

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	21.0		ug/L		105	72 - 128	4	30
1,1,2,2-Tetrachloroethane	20.0	20.2		ug/L		101	63 - 139	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.3		ug/L		106	51 - 142	2	30
1,1,2-Trichloroethane	20.0	19.9		ug/L		100	74 - 125	1	30
1,1-Dichloroethane	20.0	20.6		ug/L		103	73 - 130	0	30
1,1-Dichloroethene	20.0	20.4		ug/L		102	68 - 133	3	30
1,2,4-Trichlorobenzene	20.0	19.7		ug/L		99	67 - 132	1	30
1,2,4-Trimethylbenzene	20.0	20.5		ug/L		103	75 - 125	3	30
1,2-Dibromo-3-Chloropropane	20.0	19.3		ug/L		96	58 - 132	4	30
1,2-Dibromoethane	20.0	20.1		ug/L		100	79 - 126	0	30
1,2-Dichlorobenzene	20.0	20.2		ug/L		101	80 - 120	2	30
1,2-Dichloroethane	20.0	20.1		ug/L		101	66 - 129	2	30
1,2-Dichloropropane	20.0	20.0		ug/L		100	68 - 128	4	30
1,3-Dichlorobenzene	20.0	19.8		ug/L		99	80 - 120	1	30
1,4-Dichlorobenzene	20.0	20.3		ug/L		102	80 - 120	2	30
2-Butanone (MEK)	100	98.6		ug/L		99	61 - 142	1	30
2-Hexanone	100	91.6		ug/L		92	61 - 134	4	30
4-Methyl-2-pentanone (MIBK)	100	93.8		ug/L		94	69 - 139	3	30
Acetone	100	102		ug/L		102	49 - 149	4	30
Benzene	20.0	20.2		ug/L		101	71 - 126	2	30
Bromodichloromethane	20.0	19.8		ug/L		99	76 - 121	4	30
Bromoform	20.0	20.7		ug/L		103	58 - 136	3	30
Bromomethane	20.0	20.4		ug/L		102	10 - 120	1	30
Carbon disulfide	20.0	21.2		ug/L		106	68 - 138	5	30
Carbon tetrachloride	20.0	20.5		ug/L		103	65 - 142	6	30
Chlorobenzene	20.0	20.8		ug/L		104	80 - 120	3	30
Chloroethane	20.0	20.3		ug/L		102	48 - 150	9	30
Chloroform	20.0	20.2		ug/L		101	78 - 125	1	30
Chloromethane	20.0	20.7		ug/L		103	43 - 140	1	30
cis-1,2-Dichloroethene	20.0	20.4		ug/L		102	78 - 121	4	30
cis-1,3-Dichloropropene	20.0	20.3		ug/L		102	74 - 125	1	30
Cyclohexane	20.0	20.6		ug/L		103	60 - 142	4	30
Dibromochloromethane	20.0	20.1		ug/L		101	69 - 130	0	30
Dichlorodifluoromethane	20.0	22.8		ug/L		114	27 - 120	10	30
Ethylbenzene	20.0	20.0		ug/L		100	78 - 120	1	30

Eurofins Edison

QC Sample Results

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

Job ID: 460-292923-1

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

Lab Sample ID: LCSD 460-946954/6

Matrix: Water

Analysis Batch: 946954

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
Isopropylbenzene	20.0	20.3		ug/L		101	79 - 125	4	30
Methyl acetate	40.0	39.0		ug/L		97	43 - 120	7	30
Methyl tert-butyl ether	20.0	20.1		ug/L		100	72 - 131	1	30
Methylcyclohexane	20.0	20.4		ug/L		102	49 - 149	2	30
Methylene Chloride	20.0	20.1		ug/L		100	74 - 127	1	30
Styrene	20.0	20.4		ug/L		102	82 - 127	1	30
Tetrachloroethene	20.0	20.3		ug/L		102	70 - 127	4	30
Toluene	20.0	20.3		ug/L		102	78 - 120	1	30
trans-1,2-Dichloroethene	20.0	21.3		ug/L		106	74 - 126	6	30
trans-1,3-Dichloropropene	20.0	19.5		ug/L		97	66 - 127	3	30
Trichloroethene	20.0	20.7		ug/L		103	51 - 121	0	30
Trichlorofluoromethane	20.0	21.9		ug/L		109	50 - 120	3	30
Vinyl chloride	20.0	19.8		ug/L		99	55 - 144	3	30
Xylenes, Total	40.0	40.8		ug/L		102	80 - 120	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 128
4-Bromofluorobenzene	99		76 - 120
Dibromofluoromethane (Surr)	101		77 - 132
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: 460-292923-9 MS

Matrix: Water

Analysis Batch: 946954

Client Sample ID: GW-11222397-111523-ZB-09

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	22.4		ug/L		112	72 - 128
1,1,2,2-Tetrachloroethane	0.37	U	20.0	20.0		ug/L		100	63 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	20.0	21.1		ug/L		106	51 - 142
1,1,2-Trichloroethane	0.20	U	20.0	19.6		ug/L		98	74 - 125
1,1-Dichloroethane	0.26	U	20.0	21.5		ug/L		107	73 - 130
1,1-Dichloroethene	0.26	U	20.0	22.3		ug/L		111	68 - 133
1,2,4-Trichlorobenzene	0.37	U	20.0	18.8		ug/L		94	67 - 132
1,2,4-Trimethylbenzene	0.37	U	20.0	20.6		ug/L		103	75 - 125
1,2-Dibromo-3-Chloropropane	0.38	U	20.0	17.8		ug/L		89	58 - 132
1,2-Dibromoethane	0.50	U	20.0	19.5		ug/L		98	79 - 126
1,2-Dichlorobenzene	0.21	U	20.0	19.5		ug/L		98	80 - 120
1,2-Dichloroethane	0.43	U	20.0	20.0		ug/L		100	66 - 129
1,2-Dichloropropane	0.35	U	20.0	20.7		ug/L		104	68 - 128
1,3-Dichlorobenzene	0.34	U	20.0	20.0		ug/L		100	80 - 120
1,4-Dichlorobenzene	0.33	U	20.0	19.7		ug/L		99	80 - 120
2-Butanone (MEK)	1.9	U	100	100		ug/L		100	61 - 142
2-Hexanone	1.1	U	100	92.5		ug/L		93	61 - 134
4-Methyl-2-pentanone (MIBK)	1.3	U	100	96.1		ug/L		96	69 - 139
Acetone	4.4	U	100	97.3		ug/L		97	49 - 149
Benzene	0.20	U	20.0	20.8		ug/L		104	71 - 126
Bromodichloromethane	0.34	U	20.0	20.2		ug/L		101	76 - 121
Bromoform	0.54	U	20.0	19.7		ug/L		99	58 - 136

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QC Sample Results

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

Job ID: 460-292923-1

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

Lab Sample ID: 460-292923-9 MS

Matrix: Water

Analysis Batch: 946954

Client Sample ID: GW-11222397-111523-ZB-09

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	0.55	U	20.0	21.6		ug/L		108	10 - 120
Carbon disulfide	0.82	U	20.0	20.5		ug/L		102	68 - 138
Carbon tetrachloride	0.21	U	20.0	21.1		ug/L		106	65 - 142
Chlorobenzene	0.38	U	20.0	20.8		ug/L		104	80 - 120
Chloroethane	0.32	U	20.0	21.2		ug/L		106	48 - 150
Chloroform	0.33	U	20.0	20.9		ug/L		105	78 - 125
Chloromethane	0.40	U	20.0	21.8		ug/L		109	43 - 140
cis-1,2-Dichloroethene	0.22	U	20.0	20.7		ug/L		104	78 - 121
cis-1,3-Dichloropropene	0.22	U	20.0	19.5		ug/L		98	74 - 125
Cyclohexane	0.32	U	20.0	21.2		ug/L		106	60 - 142
Dibromochloromethane	0.28	U	20.0	19.7		ug/L		98	69 - 130
Dichlorodifluoromethane	0.31	U	20.0	22.3		ug/L		111	27 - 120
Ethylbenzene	0.30	U	20.0	20.4		ug/L		102	78 - 120
Isopropylbenzene	0.34	U	20.0	20.3		ug/L		102	79 - 125
Methyl acetate	0.79	U	40.0	37.9		ug/L		95	43 - 120
Methyl tert-butyl ether	0.22	U	20.0	19.9		ug/L		99	72 - 131
Methylcyclohexane	0.71	U	20.0	19.3		ug/L		96	49 - 149
Methylene Chloride	0.32	U	20.0	20.7		ug/L		104	74 - 127
Styrene	0.42	U	20.0	19.8		ug/L		99	82 - 127
Tetrachloroethene	0.64	J	20.0	21.2		ug/L		103	70 - 127
Toluene	0.38	U	20.0	21.0		ug/L		105	78 - 120
trans-1,2-Dichloroethene	0.24	U	20.0	22.3		ug/L		111	74 - 126
trans-1,3-Dichloropropene	0.22	U	20.0	19.7		ug/L		98	66 - 127
Trichloroethene	0.31	U	20.0	20.8		ug/L		104	51 - 121
Trichlorofluoromethane	2.2		20.0	24.7		ug/L		113	50 - 120
Vinyl chloride	0.17	U	20.0	21.4		ug/L		107	55 - 144
Xylenes, Total	0.65	U	40.0	41.5		ug/L		104	80 - 120
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	99		70 - 128						
4-Bromofluorobenzene	100		76 - 120						
Dibromofluoromethane (Surr)	103		77 - 132						
Toluene-d8 (Surr)	100		80 - 120						

Lab Sample ID: 460-292923-9 MSD

Matrix: Water

Analysis Batch: 946954

Client Sample ID: GW-11222397-111523-ZB-09

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	20.8		ug/L		104	72 - 128	7	30
1,1,2,2-Tetrachloroethane	0.37	U	20.0	21.0		ug/L		105	63 - 139	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	20.0	20.9		ug/L		104	51 - 142	1	30
1,1,2-Trichloroethane	0.20	U	20.0	19.0		ug/L		95	74 - 125	3	30
1,1-Dichloroethane	0.26	U	20.0	21.3		ug/L		106	73 - 130	1	30
1,1-Dichloroethene	0.26	U	20.0	20.7		ug/L		103	68 - 133	7	30
1,2,4-Trichlorobenzene	0.37	U	20.0	19.9		ug/L		99	67 - 132	5	30
1,2,4-Trimethylbenzene	0.37	U	20.0	20.6		ug/L		103	75 - 125	0	30
1,2-Dibromo-3-Chloropropane	0.38	U	20.0	19.0		ug/L		95	58 - 132	7	30

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QC Sample Results

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

Job ID: 460-292923-1

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

Lab Sample ID: 460-292923-9 MSD

Matrix: Water

Analysis Batch: 946954

Client Sample ID: GW-11222397-111523-ZB-09

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane	0.50	U	20.0	19.7		ug/L		99	79 - 126	1	30
1,2-Dichlorobenzene	0.21	U	20.0	19.9		ug/L		100	80 - 120	2	30
1,2-Dichloroethane	0.43	U	20.0	19.0		ug/L		95	66 - 129	5	30
1,2-Dichloropropane	0.35	U	20.0	19.7		ug/L		99	68 - 128	5	30
1,3-Dichlorobenzene	0.34	U	20.0	20.2		ug/L		101	80 - 120	1	30
1,4-Dichlorobenzene	0.33	U	20.0	20.9		ug/L		104	80 - 120	6	30
2-Butanone (MEK)	1.9	U	100	96.6		ug/L		97	61 - 142	4	30
2-Hexanone	1.1	U	100	96.3		ug/L		96	61 - 134	4	30
4-Methyl-2-pentanone (MIBK)	1.3	U	100	95.5		ug/L		96	69 - 139	1	30
Acetone	4.4	U	100	99.3		ug/L		99	49 - 149	2	30
Benzene	0.20	U	20.0	20.8		ug/L		104	71 - 126	0	30
Bromodichloromethane	0.34	U	20.0	19.9		ug/L		99	76 - 121	2	30
Bromoform	0.54	U	20.0	19.6		ug/L		98	58 - 136	1	30
Bromomethane	0.55	U	20.0	20.9		ug/L		104	10 - 120	4	30
Carbon disulfide	0.82	U	20.0	19.8		ug/L		99	68 - 138	3	30
Carbon tetrachloride	0.21	U	20.0	20.4		ug/L		102	65 - 142	3	30
Chlorobenzene	0.38	U	20.0	20.6		ug/L		103	80 - 120	1	30
Chloroethane	0.32	U	20.0	19.3		ug/L		97	48 - 150	9	30
Chloroform	0.33	U	20.0	19.9		ug/L		100	78 - 125	5	30
Chloromethane	0.40	U	20.0	20.7		ug/L		104	43 - 140	5	30
cis-1,2-Dichloroethene	0.22	U	20.0	20.6		ug/L		103	78 - 121	1	30
cis-1,3-Dichloropropene	0.22	U	20.0	19.8		ug/L		99	74 - 125	1	30
Cyclohexane	0.32	U	20.0	19.2		ug/L		96	60 - 142	10	30
Dibromochloromethane	0.28	U	20.0	20.1		ug/L		101	69 - 130	2	30
Dichlorodifluoromethane	0.31	U	20.0	22.0		ug/L		110	27 - 120	1	30
Ethylbenzene	0.30	U	20.0	20.8		ug/L		104	78 - 120	2	30
Isopropylbenzene	0.34	U	20.0	20.5		ug/L		103	79 - 125	1	30
Methyl acetate	0.79	U	40.0	34.6		ug/L		87	43 - 120	9	30
Methyl tert-butyl ether	0.22	U	20.0	19.5		ug/L		97	72 - 131	2	30
Methylcyclohexane	0.71	U	20.0	18.5		ug/L		92	49 - 149	4	30
Methylene Chloride	0.32	U	20.0	20.2		ug/L		101	74 - 127	3	30
Styrene	0.42	U	20.0	20.1		ug/L		100	82 - 127	1	30
Tetrachloroethene	0.64	J	20.0	20.6		ug/L		100	70 - 127	3	30
Toluene	0.38	U	20.0	20.8		ug/L		104	78 - 120	1	30
trans-1,2-Dichloroethene	0.24	U	20.0	21.1		ug/L		105	74 - 126	5	30
trans-1,3-Dichloropropene	0.22	U	20.0	19.7		ug/L		98	66 - 127	0	30
Trichloroethene	0.31	U	20.0	20.5		ug/L		102	51 - 121	2	30
Trichlorofluoromethane	2.2		20.0	22.7		ug/L		103	50 - 120	9	30
Vinyl chloride	0.17	U	20.0	20.9		ug/L		104	55 - 144	2	30
Xylenes, Total	0.65	U	40.0	41.8		ug/L		105	80 - 120	1	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 128
4-Bromofluorobenzene	98		76 - 120
Dibromofluoromethane (Surr)	100		77 - 132
Toluene-d8 (Surr)	103		80 - 120

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QC Sample Results

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

Job ID: 460-292923-1

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

Lab Sample ID: MB 460-947050/11

Matrix: Water

Analysis Batch: 947050

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			11/29/23 10:33	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/29/23 10:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			11/29/23 10:33	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			11/29/23 10:33	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			11/29/23 10:33	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			11/29/23 10:33	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			11/29/23 10:33	1
1,2,4-Trimethylbenzene	0.37	U	1.0	0.37	ug/L			11/29/23 10:33	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			11/29/23 10:33	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			11/29/23 10:33	1
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L			11/29/23 10:33	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			11/29/23 10:33	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			11/29/23 10:33	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			11/29/23 10:33	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			11/29/23 10:33	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			11/29/23 10:33	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			11/29/23 10:33	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			11/29/23 10:33	1
Acetone	4.4	U	5.0	4.4	ug/L			11/29/23 10:33	1
Benzene	0.20	U	1.0	0.20	ug/L			11/29/23 10:33	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			11/29/23 10:33	1
Bromoform	0.54	U	1.0	0.54	ug/L			11/29/23 10:33	1
Bromomethane	0.55	U	1.0	0.55	ug/L			11/29/23 10:33	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			11/29/23 10:33	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			11/29/23 10:33	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			11/29/23 10:33	1
Chloroethane	0.32	U	1.0	0.32	ug/L			11/29/23 10:33	1
Chloroform	0.33	U	1.0	0.33	ug/L			11/29/23 10:33	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/29/23 10:33	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			11/29/23 10:33	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/29/23 10:33	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			11/29/23 10:33	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			11/29/23 10:33	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			11/29/23 10:33	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			11/29/23 10:33	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			11/29/23 10:33	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			11/29/23 10:33	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			11/29/23 10:33	1
Methylcyclohexane	0.71	U	1.0	0.71	ug/L			11/29/23 10:33	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			11/29/23 10:33	1
Styrene	0.42	U	1.0	0.42	ug/L			11/29/23 10:33	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			11/29/23 10:33	1
Toluene	0.38	U	1.0	0.38	ug/L			11/29/23 10:33	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			11/29/23 10:33	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			11/29/23 10:33	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			11/29/23 10:33	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			11/29/23 10:33	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			11/29/23 10:33	1

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QC Sample Results

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

Job ID: 460-292923-1

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

Lab Sample ID: MB 460-947050/11

Matrix: Water

Analysis Batch: 947050

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			11/29/23 10:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 128		11/29/23 10:33	1
4-Bromofluorobenzene	93		76 - 120		11/29/23 10:33	1
Dibromofluoromethane (Surr)	98		77 - 132		11/29/23 10:33	1
Toluene-d8 (Surr)	99		80 - 120		11/29/23 10:33	1

Lab Sample ID: LCS 460-947050/6

Matrix: Water

Analysis Batch: 947050

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	20.4		ug/L		102	72 - 128
1,1,2,2-Tetrachloroethane	20.0	22.7		ug/L		113	63 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.0		ug/L		100	51 - 142
1,1,2-Trichloroethane	20.0	21.1		ug/L		106	74 - 125
1,1-Dichloroethane	20.0	20.7		ug/L		104	73 - 130
1,1-Dichloroethene	20.0	21.1		ug/L		105	68 - 133
1,2,4-Trichlorobenzene	20.0	21.7		ug/L		109	67 - 132
1,2,4-Trimethylbenzene	20.0	22.4		ug/L		112	75 - 125
1,2-Dibromo-3-Chloropropane	20.0	22.1		ug/L		111	58 - 132
1,2-Dibromoethane	20.0	20.3		ug/L		101	79 - 126
1,2-Dichlorobenzene	20.0	21.8		ug/L		109	80 - 120
1,2-Dichloroethane	20.0	20.5		ug/L		103	66 - 129
1,2-Dichloropropane	20.0	19.6		ug/L		98	68 - 128
1,3-Dichlorobenzene	20.0	21.8		ug/L		109	80 - 120
1,4-Dichlorobenzene	20.0	22.4		ug/L		112	80 - 120
2-Butanone (MEK)	100	103		ug/L		103	61 - 142
2-Hexanone	100	103		ug/L		103	61 - 134
4-Methyl-2-pentanone (MIBK)	100	104		ug/L		104	69 - 139
Acetone	100	106		ug/L		106	49 - 149
Benzene	20.0	20.6		ug/L		103	71 - 126
Bromodichloromethane	20.0	20.5		ug/L		102	76 - 121
Bromoform	20.0	20.3		ug/L		101	58 - 136
Bromomethane	20.0	20.3		ug/L		102	10 - 120
Carbon disulfide	20.0	19.9		ug/L		99	68 - 138
Carbon tetrachloride	20.0	20.5		ug/L		102	65 - 142
Chlorobenzene	20.0	21.0		ug/L		105	80 - 120
Chloroethane	20.0	21.2		ug/L		106	48 - 150
Chloroform	20.0	20.1		ug/L		101	78 - 125
Chloromethane	20.0	20.6		ug/L		103	43 - 140
cis-1,2-Dichloroethene	20.0	19.7		ug/L		99	78 - 121
cis-1,3-Dichloropropene	20.0	20.4		ug/L		102	74 - 125
Cyclohexane	20.0	19.6		ug/L		98	60 - 142
Dibromochloromethane	20.0	20.4		ug/L		102	69 - 130
Dichlorodifluoromethane	20.0	21.5		ug/L		107	27 - 120
Ethylbenzene	20.0	21.0		ug/L		105	78 - 120

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QC Sample Results

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

Job ID: 460-292923-1

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

Lab Sample ID: LCS 460-947050/6

Matrix: Water

Analysis Batch: 947050

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Isopropylbenzene	20.0	21.0		ug/L		105	79 - 125
Methyl acetate	40.0	41.9		ug/L		105	43 - 120
Methyl tert-butyl ether	20.0	20.2		ug/L		101	72 - 131
Methylcyclohexane	20.0	20.4		ug/L		102	49 - 149
Methylene Chloride	20.0	20.7		ug/L		103	74 - 127
Styrene	20.0	20.7		ug/L		103	82 - 127
Tetrachloroethene	20.0	21.4		ug/L		107	70 - 127
Toluene	20.0	20.8		ug/L		104	78 - 120
trans-1,2-Dichloroethene	20.0	20.4		ug/L		102	74 - 126
trans-1,3-Dichloropropene	20.0	21.1		ug/L		106	66 - 127
Trichloroethene	20.0	20.6		ug/L		103	51 - 121
Trichlorofluoromethane	20.0	21.5		ug/L		108	50 - 120
Vinyl chloride	20.0	20.8		ug/L		104	55 - 144
Xylenes, Total	40.0	41.0		ug/L		103	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 128
4-Bromofluorobenzene	98		76 - 120
Dibromofluoromethane (Surr)	98		77 - 132
Toluene-d8 (Surr)	103		80 - 120

Lab Sample ID: LCSD 460-947050/7

Matrix: Water

Analysis Batch: 947050

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	19.1		ug/L		95	72 - 128	7	30
1,1,2,2-Tetrachloroethane	20.0	20.6		ug/L		103	63 - 139	10	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.4		ug/L		97	51 - 142	3	30
1,1,2-Trichloroethane	20.0	18.9		ug/L		94	74 - 125	11	30
1,1-Dichloroethane	20.0	19.1		ug/L		96	73 - 130	8	30
1,1-Dichloroethene	20.0	19.1		ug/L		96	68 - 133	10	30
1,2,4-Trichlorobenzene	20.0	20.0		ug/L		100	67 - 132	8	30
1,2,4-Trimethylbenzene	20.0	20.1		ug/L		100	75 - 125	11	30
1,2-Dibromo-3-Chloropropane	20.0	20.6		ug/L		103	58 - 132	7	30
1,2-Dibromoethane	20.0	18.5		ug/L		93	79 - 126	9	30
1,2-Dichlorobenzene	20.0	19.3		ug/L		96	80 - 120	12	30
1,2-Dichloroethane	20.0	19.0		ug/L		95	66 - 129	8	30
1,2-Dichloropropane	20.0	18.9		ug/L		94	68 - 128	4	30
1,3-Dichlorobenzene	20.0	19.7		ug/L		99	80 - 120	10	30
1,4-Dichlorobenzene	20.0	20.1		ug/L		100	80 - 120	11	30
2-Butanone (MEK)	100	96.0		ug/L		96	61 - 142	7	30
2-Hexanone	100	95.9		ug/L		96	61 - 134	7	30
4-Methyl-2-pentanone (MIBK)	100	93.5		ug/L		93	69 - 139	11	30
Acetone	100	96.3		ug/L		96	49 - 149	9	30
Benzene	20.0	18.7		ug/L		93	71 - 126	10	30
Bromodichloromethane	20.0	19.2		ug/L		96	76 - 121	7	30
Bromoform	20.0	18.4		ug/L		92	58 - 136	10	30

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QC Sample Results

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

Job ID: 460-292923-1

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

Lab Sample ID: LCSD 460-947050/7

Matrix: Water

Analysis Batch: 947050

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromomethane	20.0	19.5		ug/L		98	10 - 120	4	30
Carbon disulfide	20.0	18.8		ug/L		94	68 - 138	6	30
Carbon tetrachloride	20.0	18.8		ug/L		94	65 - 142	8	30
Chlorobenzene	20.0	19.1		ug/L		95	80 - 120	9	30
Chloroethane	20.0	20.8		ug/L		104	48 - 150	2	30
Chloroform	20.0	18.5		ug/L		92	78 - 125	9	30
Chloromethane	20.0	20.1		ug/L		101	43 - 140	3	30
cis-1,2-Dichloroethene	20.0	18.6		ug/L		93	78 - 121	6	30
cis-1,3-Dichloropropene	20.0	18.9		ug/L		95	74 - 125	8	30
Cyclohexane	20.0	18.8		ug/L		94	60 - 142	4	30
Dibromochloromethane	20.0	18.2		ug/L		91	69 - 130	11	30
Dichlorodifluoromethane	20.0	20.4		ug/L		102	27 - 120	5	30
Ethylbenzene	20.0	19.9		ug/L		100	78 - 120	5	30
Isopropylbenzene	20.0	19.1		ug/L		96	79 - 125	9	30
Methyl acetate	40.0	36.5		ug/L		91	43 - 120	14	30
Methyl tert-butyl ether	20.0	19.1		ug/L		95	72 - 131	6	30
Methylcyclohexane	20.0	19.7		ug/L		99	49 - 149	3	30
Methylene Chloride	20.0	19.2		ug/L		96	74 - 127	7	30
Styrene	20.0	18.8		ug/L		94	82 - 127	10	30
Tetrachloroethene	20.0	19.6		ug/L		98	70 - 127	9	30
Toluene	20.0	18.9		ug/L		94	78 - 120	10	30
trans-1,2-Dichloroethene	20.0	18.8		ug/L		94	74 - 126	9	30
trans-1,3-Dichloropropene	20.0	18.8		ug/L		94	66 - 127	12	30
Trichloroethene	20.0	18.5		ug/L		92	51 - 121	11	30
Trichlorofluoromethane	20.0	21.2		ug/L		106	50 - 120	2	30
Vinyl chloride	20.0	20.6		ug/L		103	55 - 144	1	30
Xylenes, Total	40.0	37.7		ug/L		94	80 - 120	9	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 128
4-Bromofluorobenzene	96		76 - 120
Dibromofluoromethane (Surr)	99		77 - 132
Toluene-d8 (Surr)	100		80 - 120

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

Lab Sample ID: MB 460-945744/1-A

Matrix: Water

Analysis Batch: 945850

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 945744

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	1.2	U	10	1.2	ug/L		11/20/23 10:13	11/20/23 21:11	1
2,2'-oxybis[1-chloropropane]	0.63	U	10	0.63	ug/L		11/20/23 10:13	11/20/23 21:11	1
2,4,5-Trichlorophenol	0.88	U	10	0.88	ug/L		11/20/23 10:13	11/20/23 21:11	1
2,4,6-Trichlorophenol	0.86	U	10	0.86	ug/L		11/20/23 10:13	11/20/23 21:11	1
2,4-Dichlorophenol	1.1	U	10	1.1	ug/L		11/20/23 10:13	11/20/23 21:11	1
2,4-Dimethylphenol	0.62	U	10	0.62	ug/L		11/20/23 10:13	11/20/23 21:11	1
2,4-Dinitrophenol	2.6	U	40	2.6	ug/L		11/20/23 10:13	11/20/23 21:11	1
2,4-Dinitrotoluene	1.0	U	10	1.0	ug/L		11/20/23 10:13	11/20/23 21:11	1

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QC Sample Results

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

Job ID: 460-292923-1

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

Lab Sample ID: MB 460-945744/1-A

Matrix: Water

Analysis Batch: 945850

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 945744

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	0.83	U	2.0	0.83	ug/L		11/20/23 10:13	11/20/23 21:11	1
2-Chloronaphthalene	1.2	U	10	1.2	ug/L		11/20/23 10:13	11/20/23 21:11	1
2-Chlorophenol	0.38	U	10	0.38	ug/L		11/20/23 10:13	11/20/23 21:11	1
2-Methylnaphthalene	0.53	U	10	0.53	ug/L		11/20/23 10:13	11/20/23 21:11	1
2-Methylphenol	0.67	U	10	0.67	ug/L		11/20/23 10:13	11/20/23 21:11	1
2-Nitroaniline	0.47	U	10	0.47	ug/L		11/20/23 10:13	11/20/23 21:11	1
2-Nitrophenol	0.75	U	10	0.75	ug/L		11/20/23 10:13	11/20/23 21:11	1
3,3'-Dichlorobenzidine	1.4	U	10	1.4	ug/L		11/20/23 10:13	11/20/23 21:11	1
3-Nitroaniline	1.9	U	10	1.9	ug/L		11/20/23 10:13	11/20/23 21:11	1
4,6-Dinitro-2-methylphenol	3.0	U	20	3.0	ug/L		11/20/23 10:13	11/20/23 21:11	1
4-Bromophenyl phenyl ether	0.75	U	10	0.75	ug/L		11/20/23 10:13	11/20/23 21:11	1
4-Chloro-3-methylphenol	0.58	U	10	0.58	ug/L		11/20/23 10:13	11/20/23 21:11	1
4-Chlorophenyl phenyl ether	1.3	U	10	1.3	ug/L		11/20/23 10:13	11/20/23 21:11	1
4-Methylphenol	0.65	U	10	0.65	ug/L		11/20/23 10:13	11/20/23 21:11	1
4-Nitroaniline	1.2	U	10	1.2	ug/L		11/20/23 10:13	11/20/23 21:11	1
4-Nitrophenol	4.0	U	20	4.0	ug/L		11/20/23 10:13	11/20/23 21:11	1
Acenaphthene	1.1	U	10	1.1	ug/L		11/20/23 10:13	11/20/23 21:11	1
Acenaphthylene	0.82	U	10	0.82	ug/L		11/20/23 10:13	11/20/23 21:11	1
Acetophenone	2.3	U	10	2.3	ug/L		11/20/23 10:13	11/20/23 21:11	1
Anthracene	1.3	U	10	1.3	ug/L		11/20/23 10:13	11/20/23 21:11	1
Atrazine	1.3	U	2.0	1.3	ug/L		11/20/23 10:13	11/20/23 21:11	1
Benzaldehyde	2.1	U	10	2.1	ug/L		11/20/23 10:13	11/20/23 21:11	1
Benzo[a]anthracene	0.59	U	1.0	0.59	ug/L		11/20/23 10:13	11/20/23 21:11	1
Benzo[a]pyrene	0.41	U	1.0	0.41	ug/L		11/20/23 10:13	11/20/23 21:11	1
Benzo[b]fluoranthene	0.68	U	2.0	0.68	ug/L		11/20/23 10:13	11/20/23 21:11	1
Benzo[g,h,i]perylene	0.70	U	10	0.70	ug/L		11/20/23 10:13	11/20/23 21:11	1
Benzo[k]fluoranthene	0.67	U	1.0	0.67	ug/L		11/20/23 10:13	11/20/23 21:11	1
Bis(2-chloroethoxy)methane	0.59	U	10	0.59	ug/L		11/20/23 10:13	11/20/23 21:11	1
Bis(2-chloroethyl)ether	0.63	U	1.0	0.63	ug/L		11/20/23 10:13	11/20/23 21:11	1
Bis(2-ethylhexyl) phthalate	0.80	U	2.0	0.80	ug/L		11/20/23 10:13	11/20/23 21:11	1
Butyl benzyl phthalate	0.85	U	10	0.85	ug/L		11/20/23 10:13	11/20/23 21:11	1
Caprolactam	2.2	U	10	2.2	ug/L		11/20/23 10:13	11/20/23 21:11	1
Carbazole	0.68	U	10	0.68	ug/L		11/20/23 10:13	11/20/23 21:11	1
Chrysene	0.91	U	2.0	0.91	ug/L		11/20/23 10:13	11/20/23 21:11	1
Dibenz(a,h)anthracene	0.72	U	1.0	0.72	ug/L		11/20/23 10:13	11/20/23 21:11	1
Dibenzofuran	1.1	U	10	1.1	ug/L		11/20/23 10:13	11/20/23 21:11	1
Diethyl phthalate	0.98	U	10	0.98	ug/L		11/20/23 10:13	11/20/23 21:11	1
Dimethyl phthalate	0.77	U	10	0.77	ug/L		11/20/23 10:13	11/20/23 21:11	1
Di-n-butyl phthalate	0.84	U	10	0.84	ug/L		11/20/23 10:13	11/20/23 21:11	1
Di-n-octyl phthalate	0.75	U	10	0.75	ug/L		11/20/23 10:13	11/20/23 21:11	1
Fluoranthene	0.84	U	10	0.84	ug/L		11/20/23 10:13	11/20/23 21:11	1
Fluorene	0.91	U	10	0.91	ug/L		11/20/23 10:13	11/20/23 21:11	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		11/20/23 10:13	11/20/23 21:11	1
Hexachlorobutadiene	0.78	U	1.0	0.78	ug/L		11/20/23 10:13	11/20/23 21:11	1
Hexachlorocyclopentadiene	3.6	U	10	3.6	ug/L		11/20/23 10:13	11/20/23 21:11	1
Hexachloroethane	0.80	U	2.0	0.80	ug/L		11/20/23 10:13	11/20/23 21:11	1
Indeno[1,2,3-cd]pyrene	0.94	U	2.0	0.94	ug/L		11/20/23 10:13	11/20/23 21:11	1
Isophorone	0.80	U	10	0.80	ug/L		11/20/23 10:13	11/20/23 21:11	1
Naphthalene	0.54	U	2.0	0.54	ug/L		11/20/23 10:13	11/20/23 21:11	1

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QC Sample Results

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

Job ID: 460-292923-1

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

Lab Sample ID: MB 460-945744/1-A

Matrix: Water

Analysis Batch: 945850

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 945744

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	0.57	U	1.0	0.57	ug/L		11/20/23 10:13	11/20/23 21:11	1
N-Nitrosodi-n-propylamine	0.43	U	1.0	0.43	ug/L		11/20/23 10:13	11/20/23 21:11	1
N-Nitrosodiphenylamine	0.89	U	10	0.89	ug/L		11/20/23 10:13	11/20/23 21:11	1
Pentachlorophenol	1.4	U	20	1.4	ug/L		11/20/23 10:13	11/20/23 21:11	1
Phenanthrene	1.3	U	10	1.3	ug/L		11/20/23 10:13	11/20/23 21:11	1
Phenol	0.29	U	10	0.29	ug/L		11/20/23 10:13	11/20/23 21:11	1
Pyrene	1.6	U	10	1.6	ug/L		11/20/23 10:13	11/20/23 21:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	137		37 - 150	11/20/23 10:13	11/20/23 21:11	1
2-Fluorobiphenyl	91		46 - 139	11/20/23 10:13	11/20/23 21:11	1
2-Fluorophenol (Surr)	53		16 - 80	11/20/23 10:13	11/20/23 21:11	1
Nitrobenzene-d5 (Surr)	109		51 - 145	11/20/23 10:13	11/20/23 21:11	1
Phenol-d5 (Surr)	37		10 - 56	11/20/23 10:13	11/20/23 21:11	1
Terphenyl-d14 (Surr)	121		13 - 150	11/20/23 10:13	11/20/23 21:11	1

Lab Sample ID: LCS 460-945744/2-A

Matrix: Water

Analysis Batch: 945850

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 945744

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	80.0	50.0		ug/L		63	53 - 131
2,2'-oxybis[1-chloropropane]	80.0	70.9		ug/L		89	19 - 132
2,4,5-Trichlorophenol	80.0	73.4		ug/L		92	67 - 131
2,4,6-Trichlorophenol	80.0	78.2		ug/L		98	68 - 134
2,4-Dichlorophenol	80.0	68.2		ug/L		85	65 - 120
2,4-Dimethylphenol	80.0	57.0		ug/L		71	58 - 120
2,4-Dinitrophenol	160	190		ug/L		119	39 - 120
2,4-Dinitrotoluene	80.0	86.6		ug/L		108	68 - 146
2,6-Dinitrotoluene	80.0	83.8		ug/L		105	74 - 141
2-Chloronaphthalene	80.0	49.6		ug/L		62	52 - 131
2-Chlorophenol	80.0	58.0		ug/L		72	53 - 120
2-Methylnaphthalene	80.0	42.4		ug/L		53	44 - 120
2-Methylphenol	80.0	50.2		ug/L		63	44 - 120
2-Nitroaniline	80.0	69.0		ug/L		86	44 - 148
2-Nitrophenol	80.0	70.8		ug/L		88	60 - 125
3,3'-Dichlorobenzidine	80.0	86.9		ug/L		109	56 - 137
3-Nitroaniline	80.0	64.7		ug/L		81	54 - 120
4,6-Dinitro-2-methylphenol	160	171		ug/L		107	64 - 150
4-Bromophenyl phenyl ether	80.0	77.6		ug/L		97	62 - 136
4-Chloro-3-methylphenol	80.0	64.5		ug/L		81	61 - 120
4-Chlorophenyl phenyl ether	80.0	75.9		ug/L		95	59 - 135
4-Methylphenol	80.0	44.2		ug/L		55	37 - 120
4-Nitroaniline	80.0	75.9		ug/L		95	52 - 141
4-Nitrophenol	160	51.0		ug/L		32	10 - 120
Acenaphthene	80.0	66.5		ug/L		83	57 - 132
Acenaphthylene	80.0	59.2		ug/L		74	54 - 120
Acetophenone	80.0	77.3		ug/L		97	62 - 120

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QC Sample Results

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

Job ID: 460-292923-1

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

Lab Sample ID: LCS 460-945744/2-A

Matrix: Water

Analysis Batch: 945850

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 945744

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Anthracene	80.0	74.1		ug/L		93	65 - 120
Atrazine	40.0	46.4		ug/L		116	10 - 150
Benzaldehyde	40.0	37.6		ug/L		94	10 - 150
Benzo[a]anthracene	80.0	82.6		ug/L		103	67 - 132
Benzo[a]pyrene	80.0	97.1		ug/L		121	60 - 126
Benzo[b]fluoranthene	80.0	92.6		ug/L		116	66 - 136
Benzo[g,h,i]perylene	80.0	58.8		ug/L		73	59 - 150
Benzo[k]fluoranthene	80.0	93.2		ug/L		116	64 - 135
Bis(2-chloroethoxy)methane	80.0	72.0		ug/L		90	60 - 120
Bis(2-chloroethyl)ether	80.0	70.0		ug/L		87	55 - 120
Bis(2-ethylhexyl) phthalate	80.0	107		ug/L		133	60 - 150
Butyl benzyl phthalate	80.0	91.4		ug/L		114	63 - 147
Caprolactam	40.0	8.87	J	ug/L		22	10 - 120
Carbazole	80.0	77.3		ug/L		97	65 - 129
Chrysene	80.0	78.5		ug/L		98	63 - 127
Dibenz(a,h)anthracene	80.0	62.5		ug/L		78	62 - 150
Dibenzofuran	80.0	65.4		ug/L		82	58 - 132
Diethyl phthalate	80.0	80.6		ug/L		101	70 - 129
Dimethyl phthalate	80.0	76.5		ug/L		96	72 - 131
Di-n-butyl phthalate	80.0	93.7		ug/L		117	66 - 133
Di-n-octyl phthalate	80.0	108		ug/L		136	36 - 150
Fluoranthene	80.0	82.3		ug/L		103	65 - 130
Fluorene	80.0	72.8		ug/L		91	63 - 133
Hexachlorobenzene	80.0	76.0		ug/L		95	61 - 142
Hexachlorobutadiene	80.0	26.6		ug/L		33	21 - 120
Hexachlorocyclopentadiene	80.0	22.0		ug/L		27	14 - 135
Hexachloroethane	80.0	28.2		ug/L		35	16 - 120
Indeno[1,2,3-cd]pyrene	80.0	74.0		ug/L		93	65 - 150
Isophorone	80.0	73.3		ug/L		92	61 - 121
Naphthalene	80.0	44.2		ug/L		55	43 - 120
Nitrobenzene	80.0	78.9		ug/L		99	64 - 120
N-Nitrosodi-n-propylamine	80.0	82.5		ug/L		103	53 - 120
N-Nitrosodiphenylamine	80.0	73.3		ug/L		92	63 - 120
Pentachlorophenol	160	163		ug/L		102	51 - 150
Phenanthrene	80.0	74.2		ug/L		93	65 - 120
Phenol	80.0	24.3		ug/L		30	17 - 120
Pyrene	80.0	74.7		ug/L		93	56 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	105		37 - 150
2-Fluorobiphenyl	84		46 - 139
2-Fluorophenol (Surr)	39		16 - 80
Nitrobenzene-d5 (Surr)	90		51 - 145
Phenol-d5 (Surr)	26		10 - 56
Terphenyl-d14 (Surr)	83		13 - 150

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QC Sample Results

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

Job ID: 460-292923-1

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

Lab Sample ID: LCSD 460-945744/3-A

Matrix: Water

Analysis Batch: 945850

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 945744

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	80.0	58.3		ug/L		73	53 - 131	15	30
2,2'-oxybis[1-chloropropane]	80.0	85.4		ug/L		107	19 - 132	19	30
2,4,5-Trichlorophenol	80.0	83.5		ug/L		104	67 - 131	13	30
2,4,6-Trichlorophenol	80.0	88.2		ug/L		110	68 - 134	12	30
2,4-Dichlorophenol	80.0	79.8		ug/L		100	65 - 120	16	30
2,4-Dimethylphenol	80.0	67.5		ug/L		84	58 - 120	17	30
2,4-Dinitrophenol	160	230	*+	ug/L		144	39 - 120	19	30
2,4-Dinitrotoluene	80.0	102		ug/L		128	68 - 146	17	30
2,6-Dinitrotoluene	80.0	95.0		ug/L		119	74 - 141	12	30
2-Chloronaphthalene	80.0	57.5		ug/L		72	52 - 131	15	30
2-Chlorophenol	80.0	71.3		ug/L		89	53 - 120	21	30
2-Methylnaphthalene	80.0	49.3		ug/L		62	44 - 120	15	30
2-Methylphenol	80.0	61.8		ug/L		77	44 - 120	21	30
2-Nitroaniline	80.0	79.5		ug/L		99	44 - 148	14	30
2-Nitrophenol	80.0	83.1		ug/L		104	60 - 125	16	30
3,3'-Dichlorobenzidine	80.0	103		ug/L		129	56 - 137	17	30
3-Nitroaniline	80.0	77.5		ug/L		97	54 - 120	18	30
4,6-Dinitro-2-methylphenol	160	202		ug/L		126	64 - 150	16	30
4-Bromophenyl phenyl ether	80.0	89.5		ug/L		112	62 - 136	14	30
4-Chloro-3-methylphenol	80.0	76.3		ug/L		95	61 - 120	17	30
4-Chlorophenyl phenyl ether	80.0	88.9		ug/L		111	59 - 135	16	30
4-Methylphenol	80.0	54.0		ug/L		67	37 - 120	20	30
4-Nitroaniline	80.0	89.7		ug/L		112	52 - 141	17	30
4-Nitrophenol	160	63.2		ug/L		40	10 - 120	21	30
Acenaphthene	80.0	77.6		ug/L		97	57 - 132	15	30
Acenaphthylene	80.0	68.4		ug/L		85	54 - 120	14	30
Acetophenone	80.0	93.7		ug/L		117	62 - 120	19	30
Anthracene	80.0	87.2		ug/L		109	65 - 120	16	30
Atrazine	40.0	52.7		ug/L		132	10 - 150	13	30
Benzaldehyde	40.0	44.3		ug/L		111	10 - 150	16	30
Benzo[a]anthracene	80.0	94.7		ug/L		118	67 - 132	14	30
Benzo[a]pyrene	80.0	112	*+	ug/L		140	60 - 126	14	30
Benzo[b]fluoranthene	80.0	112	*+	ug/L		140	66 - 136	19	30
Benzo[g,h,i]perylene	80.0	70.0		ug/L		88	59 - 150	17	30
Benzo[k]fluoranthene	80.0	107		ug/L		134	64 - 135	14	30
Bis(2-chloroethoxy)methane	80.0	83.9		ug/L		105	60 - 120	15	30
Bis(2-chloroethyl)ether	80.0	85.3		ug/L		107	55 - 120	20	30
Bis(2-ethylhexyl) phthalate	80.0	118		ug/L		148	60 - 150	10	30
Butyl benzyl phthalate	80.0	102		ug/L		127	63 - 147	11	30
Caprolactam	40.0	10.3		ug/L		26	10 - 120	15	30
Carbazole	80.0	91.4		ug/L		114	65 - 129	17	30
Chrysene	80.0	92.6		ug/L		116	63 - 127	16	30
Dibenz(a,h)anthracene	80.0	77.1		ug/L		96	62 - 150	21	30
Dibenzofuran	80.0	78.4		ug/L		98	58 - 132	18	30
Diethyl phthalate	80.0	94.3		ug/L		118	70 - 129	16	30
Dimethyl phthalate	80.0	89.5		ug/L		112	72 - 131	16	30
Di-n-butyl phthalate	80.0	107	*+	ug/L		134	66 - 133	13	30
Di-n-octyl phthalate	80.0	118		ug/L		147	36 - 150	8	30

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QC Sample Results

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

Job ID: 460-292923-1

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

Lab Sample ID: LCSD 460-945744/3-A

Matrix: Water

Analysis Batch: 945850

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 945744

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoranthene	80.0	97.5		ug/L		122	65 - 130	17	30
Fluorene	80.0	85.6		ug/L		107	63 - 133	16	30
Hexachlorobenzene	80.0	88.8		ug/L		111	61 - 142	16	30
Hexachlorobutadiene	80.0	27.2		ug/L		34	21 - 120	2	30
Hexachlorocyclopentadiene	80.0	23.6		ug/L		29	14 - 135	7	30
Hexachloroethane	80.0	30.0		ug/L		38	16 - 120	6	30
Indeno[1,2,3-cd]pyrene	80.0	88.9		ug/L		111	65 - 150	18	30
Isophorone	80.0	85.3		ug/L		107	61 - 121	15	30
Naphthalene	80.0	50.6		ug/L		63	43 - 120	14	30
Nitrobenzene	80.0	95.4		ug/L		119	64 - 120	19	30
N-Nitrosodi-n-propylamine	80.0	99.7	++	ug/L		125	53 - 120	19	30
N-Nitrosodiphenylamine	80.0	83.3		ug/L		104	63 - 120	13	30
Pentachlorophenol	160	196		ug/L		122	51 - 150	18	30
Phenanthrene	80.0	86.2		ug/L		108	65 - 120	15	30
Phenol	80.0	30.6		ug/L		38	17 - 120	23	30
Pyrene	80.0	85.7		ug/L		107	56 - 144	14	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	126		37 - 150
2-Fluorobiphenyl	95		46 - 139
2-Fluorophenol (Surr)	48		16 - 80
Nitrobenzene-d5 (Surr)	104		51 - 145
Phenol-d5 (Surr)	33		10 - 56
Terphenyl-d14 (Surr)	98		13 - 150

Lab Sample ID: 460-292923-7 MS

Matrix: Water

Analysis Batch: 945850

Client Sample ID: GW-11222397-111523-CT-07

Prep Type: Total/NA

Prep Batch: 945744

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	1.2	U	80.0	83.1		ug/L		104	53 - 131
2,2'-oxybis[1-chloropropane]	0.63	U	80.0	93.5		ug/L		117	19 - 132
2,4,5-Trichlorophenol	0.88	U	80.0	92.5		ug/L		116	67 - 131
2,4,6-Trichlorophenol	0.86	U	80.0	97.4		ug/L		122	68 - 134
2,4-Dichlorophenol	1.1	U	80.0	88.6		ug/L		111	65 - 120
2,4-Dimethylphenol	0.62	U	80.0	78.0		ug/L		97	58 - 120
2,4-Dinitrophenol	2.6	U F1 ++	160	248	F1	ug/L		155	39 - 120
2,4-Dinitrotoluene	1.0	U	80.0	105		ug/L		131	68 - 146
2,6-Dinitrotoluene	0.83	U	80.0	102		ug/L		127	74 - 141
2-Chloronaphthalene	1.2	U	80.0	83.9		ug/L		105	52 - 131
2-Chlorophenol	0.38	U	80.0	80.5		ug/L		101	53 - 120
2-Methylnaphthalene	5.5	J	80.0	89.7		ug/L		105	44 - 120
2-Methylphenol	0.67	U	80.0	71.4		ug/L		89	44 - 120
2-Nitroaniline	0.47	U	80.0	92.1		ug/L		115	44 - 148
2-Nitrophenol	0.75	U	80.0	89.7		ug/L		112	60 - 125
3,3'-Dichlorobenzidine	1.4	U F2 F1	80.0	85.6		ug/L		107	56 - 137
3-Nitroaniline	1.9	U F2 F1	80.0	78.8		ug/L		99	54 - 120
4,6-Dinitro-2-methylphenol	3.0	U	160	212		ug/L		133	64 - 150

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QC Sample Results

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

Job ID: 460-292923-1

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

Lab Sample ID: 460-292923-7 MS

Matrix: Water

Analysis Batch: 945850

Client Sample ID: GW-11222397-111523-CT-07

Prep Type: Total/NA

Prep Batch: 945744

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4-Bromophenyl phenyl ether	0.75	U	80.0	97.7		ug/L		122	62 - 136
4-Chloro-3-methylphenol	0.58	U	80.0	86.3		ug/L		108	61 - 120
4-Chlorophenyl phenyl ether	1.3	U	80.0	100		ug/L		126	59 - 135
4-Methylphenol	0.65	U	80.0	64.7		ug/L		81	37 - 120
4-Nitroaniline	1.2	U F2	80.0	91.8		ug/L		115	52 - 141
4-Nitrophenol	4.0	U	160	85.0		ug/L		53	10 - 120
Acenaphthene	1.1	U	80.0	96.2		ug/L		120	57 - 132
Acenaphthylene	0.82	U	80.0	87.3		ug/L		109	54 - 120
Acetophenone	7.4	J F1	80.0	106	F1	ug/L		123	62 - 120
Anthracene	1.3	U	80.0	91.0		ug/L		114	65 - 120
Atrazine	1.3	U F2	40.0	56.8	E	ug/L		142	10 - 150
Benzaldehyde	2.1	U F1	40.0	59.8	E	ug/L		149	10 - 150
Benzo[a]anthracene	0.59	U	80.0	102		ug/L		128	67 - 132
Benzo[a]pyrene	0.41	U F1 **	80.0	120	F1	ug/L		150	60 - 126
Benzo[b]fluoranthene	0.68	U F1 **	80.0	115	F1	ug/L		144	66 - 136
Benzo[g,h,i]perylene	0.70	U	80.0	79.8		ug/L		100	59 - 150
Benzo[k]fluoranthene	0.67	U F1	80.0	113	F1	ug/L		142	64 - 135
Bis(2-chloroethoxy)methane	0.59	U	80.0	90.6		ug/L		113	60 - 120
Bis(2-chloroethyl)ether	0.63	U	80.0	90.4		ug/L		113	55 - 120
Bis(2-ethylhexyl) phthalate	0.80	U F1	80.0	135	F1	ug/L		168	60 - 150
Butyl benzyl phthalate	0.85	U	80.0	117		ug/L		146	63 - 147
Caprolactam	2.2	U	40.0	15.3		ug/L		38	10 - 120
Carbazole	0.68	U	80.0	93.7		ug/L		117	65 - 129
Chrysene	0.91	U	80.0	96.5		ug/L		121	63 - 127
Dibenz(a,h)anthracene	0.72	U	80.0	84.5		ug/L		106	62 - 150
Dibenzofuran	1.1	U	80.0	90.8		ug/L		114	58 - 132
Diethyl phthalate	0.98	U	80.0	101		ug/L		126	70 - 129
Dimethyl phthalate	0.77	U	80.0	94.4		ug/L		118	72 - 131
Di-n-butyl phthalate	0.84	U F1 **	80.0	114	F1	ug/L		143	66 - 133
Di-n-octyl phthalate	0.75	U F1	80.0	137	F1	ug/L		172	36 - 150
Fluoranthene	0.84	U	80.0	101		ug/L		127	65 - 130
Fluorene	0.91	U	80.0	96.1		ug/L		120	63 - 133
Hexachlorobenzene	0.40	U	80.0	93.9		ug/L		117	61 - 142
Hexachlorobutadiene	0.78	U	80.0	62.1		ug/L		78	21 - 120
Hexachlorocyclopentadiene	3.6	U	80.0	69.7		ug/L		87	14 - 135
Hexachloroethane	0.80	U	80.0	52.0		ug/L		65	16 - 120
Indeno[1,2,3-cd]pyrene	0.94	U	80.0	101		ug/L		126	65 - 150
Isophorone	0.80	U	80.0	93.0		ug/L		116	61 - 121
Naphthalene	31		80.0	104		ug/L		92	43 - 120
Nitrobenzene	0.57	U F1	80.0	96.5	F1	ug/L		121	64 - 120
N-Nitrosodi-n-propylamine	0.43	U F1 **	80.0	104	F1	ug/L		130	53 - 120
N-Nitrosodiphenylamine	0.89	U	80.0	89.1		ug/L		111	63 - 120
Pentachlorophenol	1.4	U	160	204		ug/L		127	51 - 150
Phenanthrene	1.3	U	80.0	91.7		ug/L		115	65 - 120
Phenol	0.29	U	80.0	39.1		ug/L		49	17 - 120
Pyrene	1.6	U	80.0	91.3		ug/L		114	56 - 144

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QC Sample Results

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

Job ID: 460-292923-1

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

Lab Sample ID: 460-292923-7 MS

Matrix: Water

Analysis Batch: 945850

Client Sample ID: GW-11222397-111523-CT-07

Prep Type: Total/NA

Prep Batch: 945744

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	141		37 - 150
2-Fluorobiphenyl	113		46 - 139
2-Fluorophenol (Surr)	63		16 - 80
Nitrobenzene-d5 (Surr)	122		51 - 145
Phenol-d5 (Surr)	48		10 - 56
Terphenyl-d14 (Surr)	104		13 - 150

Lab Sample ID: 460-292923-7 MSD

Matrix: Water

Analysis Batch: 945850

Client Sample ID: GW-11222397-111523-CT-07

Prep Type: Total/NA

Prep Batch: 945744

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	80.0	80.2		ug/L		100	53 - 131	4	30
2,2'-oxybis[1-chloropropane]	0.63	U	80.0	91.6		ug/L		115	19 - 132	2	30
2,4,5-Trichlorophenol	0.88	U	80.0	87.9		ug/L		110	67 - 131	5	30
2,4,6-Trichlorophenol	0.86	U	80.0	93.7		ug/L		117	68 - 134	4	30
2,4-Dichlorophenol	1.1	U	80.0	84.3		ug/L		105	65 - 120	5	30
2,4-Dimethylphenol	0.62	U	80.0	73.1		ug/L		91	58 - 120	6	30
2,4-Dinitrophenol	2.6	U F1 **	160	241	F1	ug/L		151	39 - 120	3	30
2,4-Dinitrotoluene	1.0	U	80.0	103		ug/L		129	68 - 146	2	30
2,6-Dinitrotoluene	0.83	U	80.0	99.2		ug/L		124	74 - 141	3	30
2-Chloronaphthalene	1.2	U	80.0	81.9		ug/L		102	52 - 131	2	30
2-Chlorophenol	0.38	U	80.0	78.2		ug/L		98	53 - 120	3	30
2-Methylnaphthalene	5.5	J	80.0	88.8		ug/L		104	44 - 120	1	30
2-Methylphenol	0.67	U	80.0	67.9		ug/L		85	44 - 120	5	30
2-Nitroaniline	0.47	U	80.0	84.2		ug/L		105	44 - 148	9	30
2-Nitrophenol	0.75	U	80.0	89.3		ug/L		112	60 - 125	0	30
3,3'-Dichlorobenzidine	1.4	U F2 F1	80.0	9.00	J F1 F2	ug/L		11	56 - 137	162	30
3-Nitroaniline	1.9	U F2 F1	80.0	27.5	F1 F2	ug/L		34	54 - 120	97	30
4,6-Dinitro-2-methylphenol	3.0	U	160	211		ug/L		132	64 - 150	1	30
4-Bromophenyl phenyl ether	0.75	U	80.0	94.5		ug/L		118	62 - 136	3	30
4-Chloro-3-methylphenol	0.58	U	80.0	83.0		ug/L		104	61 - 120	4	30
4-Chlorophenyl phenyl ether	1.3	U	80.0	96.8		ug/L		121	59 - 135	4	30
4-Methylphenol	0.65	U	80.0	62.4		ug/L		78	37 - 120	4	30
4-Nitroaniline	1.2	U F2	80.0	60.1	F2	ug/L		75	52 - 141	42	30
4-Nitrophenol	4.0	U	160	80.7		ug/L		50	10 - 120	5	30
Acenaphthene	1.1	U	80.0	92.9		ug/L		116	57 - 132	4	30
Acenaphthylene	0.82	U	80.0	83.4		ug/L		104	54 - 120	5	30
Acetophenone	7.4	J F1	80.0	105	F1	ug/L		122	62 - 120	1	30
Anthracene	1.3	U	80.0	88.4		ug/L		111	65 - 120	3	30
Atrazine	1.3	U F2	40.0	35.3	F2	ug/L		88	10 - 150	47	30
Benzaldehyde	2.1	U F1	40.0	65.2	E F1	ug/L		163	10 - 150	9	30
Benzo[a]anthracene	0.59	U	80.0	101		ug/L		127	67 - 132	1	30
Benzo[a]pyrene	0.41	U F1 **	80.0	121	F1	ug/L		151	60 - 126	1	30
Benzo[b]fluoranthene	0.68	U F1 **	80.0	115	F1	ug/L		144	66 - 136	0	30
Benzo[g,h,i]perylene	0.70	U	80.0	82.5		ug/L		103	59 - 150	3	30
Benzo[k]fluoranthene	0.67	U F1	80.0	118	F1	ug/L		148	64 - 135	4	30
Bis(2-chloroethoxy)methane	0.59	U	80.0	87.9		ug/L		110	60 - 120	3	30

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QC Sample Results

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

Job ID: 460-292923-1

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

Lab Sample ID: 460-292923-7 MSD

Matrix: Water

Analysis Batch: 945850

Client Sample ID: GW-11222397-111523-CT-07

Prep Type: Total/NA

Prep Batch: 945744

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bis(2-chloroethyl)ether	0.63	U	80.0	89.2		ug/L		112	55 - 120	1	30
Bis(2-ethylhexyl) phthalate	0.80	U F1	80.0	129	F1	ug/L		161	60 - 150	4	30
Butyl benzyl phthalate	0.85	U	80.0	112		ug/L		139	63 - 147	5	30
Caprolactam	2.2	U	40.0	16.7		ug/L		42	10 - 120	9	30
Carbazole	0.68	U	80.0	86.0		ug/L		108	65 - 129	9	30
Chrysene	0.91	U	80.0	91.3		ug/L		114	63 - 127	5	30
Dibenz(a,h)anthracene	0.72	U	80.0	89.1		ug/L		111	62 - 150	5	30
Dibenzofuran	1.1	U	80.0	88.2		ug/L		110	58 - 132	3	30
Diethyl phthalate	0.98	U	80.0	96.6		ug/L		121	70 - 129	4	30
Dimethyl phthalate	0.77	U	80.0	91.8		ug/L		115	72 - 131	3	30
Di-n-butyl phthalate	0.84	U F1 **	80.0	112	F1	ug/L		140	66 - 133	2	30
Di-n-octyl phthalate	0.75	U F1	80.0	142	F1	ug/L		177	36 - 150	3	30
Fluoranthene	0.84	U	80.0	97.8		ug/L		122	65 - 130	4	30
Fluorene	0.91	U	80.0	92.0		ug/L		115	63 - 133	4	30
Hexachlorobenzene	0.40	U	80.0	92.1		ug/L		115	61 - 142	2	30
Hexachlorobutadiene	0.78	U	80.0	64.0		ug/L		80	21 - 120	3	30
Hexachlorocyclopentadiene	3.6	U	80.0	68.4		ug/L		86	14 - 135	2	30
Hexachloroethane	0.80	U	80.0	56.0		ug/L		70	16 - 120	7	30
Indeno[1,2,3-cd]pyrene	0.94	U	80.0	104		ug/L		130	65 - 150	3	30
Isophorone	0.80	U	80.0	90.4		ug/L		113	61 - 121	3	30
Naphthalene	31		80.0	107		ug/L		95	43 - 120	2	30
Nitrobenzene	0.57	U F1	80.0	95.7		ug/L		120	64 - 120	1	30
N-Nitrosodi-n-propylamine	0.43	U F1 **	80.0	104	F1	ug/L		130	53 - 120	0	30
N-Nitrosodiphenylamine	0.89	U	80.0	82.7		ug/L		103	63 - 120	8	30
Pentachlorophenol	1.4	U	160	200		ug/L		125	51 - 150	2	30
Phenanthrene	1.3	U	80.0	89.1		ug/L		111	65 - 120	3	30
Phenol	0.29	U	80.0	35.0		ug/L		44	17 - 120	11	30
Pyrene	1.6	U	80.0	88.3		ug/L		110	56 - 144	3	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	135		37 - 150
2-Fluorobiphenyl	109		46 - 139
2-Fluorophenol (Surr)	59		16 - 80
Nitrobenzene-d5 (Surr)	118		51 - 145
Phenol-d5 (Surr)	45		10 - 56
Terphenyl-d14 (Surr)	97		13 - 150

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 460-947118/1-A

Matrix: Water

Analysis Batch: 947168

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 947118

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	19.5	U	40.0	19.5	ug/L		11/29/23 09:14	11/29/23 13:19	1
Antimony	0.76	U	2.0	0.76	ug/L		11/29/23 09:14	11/29/23 13:19	1
Arsenic	0.89	U	2.0	0.89	ug/L		11/29/23 09:14	11/29/23 13:19	1
Barium	0.91	U	4.0	0.91	ug/L		11/29/23 09:14	11/29/23 13:19	1
Beryllium	0.13	U	0.80	0.13	ug/L		11/29/23 09:14	11/29/23 13:19	1

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QC Sample Results

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

Job ID: 460-292923-1

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

Lab Sample ID: MB 460-947118/1-A
Matrix: Water
Analysis Batch: 947168

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 947118

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.39	U	2.0	0.39	ug/L		11/29/23 09:14	11/29/23 13:19	1
Calcium	53.6	U	500	53.6	ug/L		11/29/23 09:14	11/29/23 13:19	1
Chromium	2.5	U	4.0	2.5	ug/L		11/29/23 09:14	11/29/23 13:19	1
Cobalt	0.71	U	4.0	0.71	ug/L		11/29/23 09:14	11/29/23 13:19	1
Copper	2.5	U	4.0	2.5	ug/L		11/29/23 09:14	11/29/23 13:19	1
Iron	58.2	U	120	58.2	ug/L		11/29/23 09:14	11/29/23 13:19	1
Lead	0.84	U	1.2	0.84	ug/L		11/29/23 09:14	11/29/23 13:19	1
Magnesium	46.9	U	200	46.9	ug/L		11/29/23 09:14	11/29/23 13:19	1
Manganese	1.5	U	8.0	1.5	ug/L		11/29/23 09:14	11/29/23 13:19	1
Nickel	0.91	U	4.0	0.91	ug/L		11/29/23 09:14	11/29/23 13:19	1
Potassium	112	U	200	112	ug/L		11/29/23 09:14	11/29/23 13:19	1
Selenium	0.59	U	2.5	0.59	ug/L		11/29/23 09:14	11/29/23 13:19	1
Silver	0.29	U	2.0	0.29	ug/L		11/29/23 09:14	11/29/23 13:19	1
Sodium	219	U	500	219	ug/L		11/29/23 09:14	11/29/23 13:19	1
Thallium	0.21	U	0.80	0.21	ug/L		11/29/23 09:14	11/29/23 13:19	1
Vanadium	0.68	U	4.0	0.68	ug/L		11/29/23 09:14	11/29/23 13:19	1
Zinc	6.5	U	16.0	6.5	ug/L		11/29/23 09:14	11/29/23 13:19	1

Lab Sample ID: LCS 460-947118/2-A
Matrix: Water
Analysis Batch: 947168

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 947118

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2500	2391		ug/L		96	80 - 120
Antimony	25.0	23.79		ug/L		95	80 - 120
Arsenic	50.0	44.47		ug/L		89	80 - 120
Barium	50.0	46.72		ug/L		93	80 - 120
Beryllium	25.0	21.78		ug/L		87	80 - 120
Cadmium	25.0	22.99		ug/L		92	80 - 120
Calcium	2500	2407		ug/L		96	80 - 120
Chromium	50.0	47.11		ug/L		94	80 - 120
Cobalt	25.0	23.32		ug/L		93	80 - 120
Copper	50.0	47.20		ug/L		94	80 - 120
Iron	2500	2406		ug/L		96	80 - 120
Lead	25.0	23.34		ug/L		93	80 - 120
Magnesium	2500	2459		ug/L		98	80 - 120
Manganese	250	240.3		ug/L		96	80 - 120
Nickel	50.0	47.52		ug/L		95	80 - 120
Potassium	2500	2412		ug/L		96	80 - 120
Selenium	50.0	45.43		ug/L		91	80 - 120
Silver	25.0	23.51		ug/L		94	80 - 120
Sodium	2500	2507		ug/L		100	80 - 120
Thallium	20.0	18.43		ug/L		92	80 - 120
Vanadium	50.0	45.63		ug/L		91	80 - 120
Zinc	250	234.3		ug/L		94	80 - 120

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QC Sample Results

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

Job ID: 460-292923-1

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

Lab Sample ID: 460-292923-13 MS

Matrix: Water

Analysis Batch: 947168

Client Sample ID: RB-11222397-111523-ZB-13

Prep Type: Total/NA

Prep Batch: 947118

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	19.5	U	2500	2573		ug/L		103	75 - 125
Antimony	0.76	U	25.0	25.34		ug/L		101	75 - 125
Arsenic	0.89	U	50.0	48.61		ug/L		97	75 - 125
Barium	0.91	U	50.0	48.13		ug/L		96	75 - 125
Beryllium	0.13	U	25.0	22.97		ug/L		92	75 - 125
Cadmium	0.39	U	25.0	26.09		ug/L		104	75 - 125
Calcium	53.6	U	2500	2518		ug/L		101	75 - 125
Chromium	2.5	U	50.0	49.17		ug/L		98	75 - 125
Cobalt	0.71	U	25.0	25.10		ug/L		100	75 - 125
Copper	43.3		50.0	97.28		ug/L		108	75 - 125
Iron	58.2	U	2500	2523		ug/L		101	75 - 125
Lead	0.84	U	25.0	24.62		ug/L		98	75 - 125
Magnesium	46.9	U	2500	2610		ug/L		104	75 - 125
Manganese	1.6	J	250	255.4		ug/L		102	75 - 125
Nickel	91.4		50.0	150.8		ug/L		119	75 - 125
Potassium	112	U	2500	2529		ug/L		101	75 - 125
Selenium	0.59	U	50.0	47.68		ug/L		95	75 - 125
Silver	0.29	U	25.0	25.12		ug/L		100	75 - 125
Sodium	219	U	2500	2678		ug/L		107	75 - 125
Thallium	0.21	U	20.0	19.34		ug/L		97	75 - 125
Vanadium	0.68	U	50.0	48.54		ug/L		97	75 - 125
Zinc	6.5	U	250	247.4		ug/L		99	75 - 125

Lab Sample ID: 460-292923-13 DU

Matrix: Water

Analysis Batch: 947168

Client Sample ID: RB-11222397-111523-ZB-13

Prep Type: Total/NA

Prep Batch: 947118

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	19.5	U	19.5	U	ug/L		NC	20
Antimony	0.76	U	0.76	U	ug/L		NC	20
Arsenic	0.89	U	0.89	U	ug/L		NC	20
Barium	0.91	U	0.91	U	ug/L		NC	20
Beryllium	0.13	U	0.13	U	ug/L		NC	20
Cadmium	0.39	U	0.39	U	ug/L		NC	20
Calcium	53.6	U	53.6	U	ug/L		NC	20
Chromium	2.5	U	2.5	U	ug/L		NC	20
Cobalt	0.71	U	0.71	U	ug/L		NC	20
Copper	43.3		46.06		ug/L		6	20
Iron	58.2	U	58.2	U	ug/L		NC	20
Lead	0.84	U	0.84	U	ug/L		NC	20
Magnesium	46.9	U	46.9	U	ug/L		NC	20
Manganese	1.6	J	1.75	J	ug/L		11	20
Nickel	91.4		98.25		ug/L		7	20
Potassium	112	U	112	U	ug/L		NC	20
Selenium	0.59	U	0.59	U	ug/L		NC	20
Silver	0.29	U	0.29	U	ug/L		NC	20
Sodium	219	U	219	U	ug/L		NC	20
Thallium	0.21	U	0.21	U	ug/L		NC	20
Vanadium	0.68	U	0.68	U	ug/L		NC	20

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QC Sample Results

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

Job ID: 460-292923-1

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

Lab Sample ID: 460-292923-13 DU

Matrix: Water

Analysis Batch: 947168

Client Sample ID: RB-11222397-111523-ZB-13

Prep Type: Total/NA

Prep Batch: 947118

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Zinc	6.5	U	6.5	U	ug/L		NC	20

Lab Sample ID: MB 460-947247/1-A

Matrix: Water

Analysis Batch: 947192

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 947247

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Manganese	1.5	U	8.0	1.5	ug/L		11/29/23 23:18	11/29/23 23:46	1

Lab Sample ID: LCS 460-947247/2-A

Matrix: Water

Analysis Batch: 947192

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 947247

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Manganese	250	258.5		ug/L		103	80 - 120

Lab Sample ID: 460-293374-D-1-C MS

Matrix: Water

Analysis Batch: 947192

Client Sample ID: Matrix Spike

Prep Type: Dissolved

Prep Batch: 947247

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Manganese	205		250	440.5		ug/L		94	75 - 125

Lab Sample ID: 460-293374-D-1-B DU

Matrix: Water

Analysis Batch: 947192

Client Sample ID: Duplicate

Prep Type: Dissolved

Prep Batch: 947247

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Dissolved Manganese	205		205.7		ug/L		0.5	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 460-946633/13-A

Matrix: Water

Analysis Batch: 946690

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 946633

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		11/27/23 05:56	11/27/23 09:49	1

Lab Sample ID: LCS 460-946633/14-A

Matrix: Water

Analysis Batch: 946690

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 946633

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	1.05		ug/L		105	80 - 120

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QC Sample Results

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

Job ID: 460-292923-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 460-293025-G-4-C MS
Matrix: Water
Analysis Batch: 946690

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 946633

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.091	U	1.00	0.990		ug/L		99	75 - 125

Lab Sample ID: 460-293025-G-4-B DU
Matrix: Water
Analysis Batch: 946690

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 946633

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.091	U	0.091	U	ug/L		NC	20

QC Association Summary

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

Job ID: 460-292923-1

GC/MS VOA

Analysis Batch: 946776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-292923-2	GW-11222397-111423-ES-02	Total/NA	Water	8260B	
460-292923-4	GW-11222397-111423-ZB-04	Total/NA	Water	8260B	
460-292923-5	GW-11222397-111423-ZB-05	Total/NA	Water	8260B	
MB 460-946776/10	Method Blank	Total/NA	Water	8260B	
LCS 460-946776/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 460-946776/6	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 946954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-292923-6 - DL	GW-11222397-111523-CT-06	Total/NA	Water	8260B	
460-292923-7	GW-11222397-111523-CT-07	Total/NA	Water	8260B	
460-292923-8	RB-11222397-111523-ZB-08	Total/NA	Water	8260B	
460-292923-9	GW-11222397-111523-ZB-09	Total/NA	Water	8260B	
460-292923-10	GW-11222397-111523-ZB-10	Total/NA	Water	8260B	
460-292923-11	GW-11222397-111523-ZB-11	Total/NA	Water	8260B	
460-292923-12	GW-11222397-111523-ZB-12	Total/NA	Water	8260B	
460-292923-14	TB-11222397-001	Total/NA	Water	8260B	
MB 460-946954/10	Method Blank	Total/NA	Water	8260B	
LCS 460-946954/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 460-946954/6	Lab Control Sample Dup	Total/NA	Water	8260B	
460-292923-9 MS	GW-11222397-111523-ZB-09	Total/NA	Water	8260B	
460-292923-9 MSD	GW-11222397-111523-ZB-09	Total/NA	Water	8260B	

Analysis Batch: 947050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-292923-6	GW-11222397-111523-CT-06	Total/NA	Water	8260B	
MB 460-947050/11	Method Blank	Total/NA	Water	8260B	
LCS 460-947050/6	Lab Control Sample	Total/NA	Water	8260B	
LCSD 460-947050/7	Lab Control Sample Dup	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 945744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-292923-1	RB-11222397-111423-ZB-01	Total/NA	Water	3510C	
460-292923-2	GW-11222397-111423-ES-02	Total/NA	Water	3510C	
460-292923-3	GW-11222397-111423-ES-03	Total/NA	Water	3510C	
460-292923-4	GW-11222397-111423-ZB-04	Total/NA	Water	3510C	
460-292923-5	GW-11222397-111423-ZB-05	Total/NA	Water	3510C	
460-292923-6	GW-11222397-111523-CT-06	Total/NA	Water	3510C	
460-292923-7	GW-11222397-111523-CT-07	Total/NA	Water	3510C	
MB 460-945744/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-945744/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-945744/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
460-292923-7 MS	GW-11222397-111523-CT-07	Total/NA	Water	3510C	
460-292923-7 MSD	GW-11222397-111523-CT-07	Total/NA	Water	3510C	

Analysis Batch: 945850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-292923-1	RB-11222397-111423-ZB-01	Total/NA	Water	8270C	945744
460-292923-2	GW-11222397-111423-ES-02	Total/NA	Water	8270C	945744

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QC Association Summary

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

Job ID: 460-292923-1

GC/MS Semi VOA (Continued)

Analysis Batch: 945850 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-292923-3	GW-11222397-111423-ES-03	Total/NA	Water	8270C	945744
460-292923-4	GW-11222397-111423-ZB-04	Total/NA	Water	8270C	945744
460-292923-5	GW-11222397-111423-ZB-05	Total/NA	Water	8270C	945744
460-292923-6	GW-11222397-111523-CT-06	Total/NA	Water	8270C	945744
460-292923-7	GW-11222397-111523-CT-07	Total/NA	Water	8270C	945744
MB 460-945744/1-A	Method Blank	Total/NA	Water	8270C	945744
LCS 460-945744/2-A	Lab Control Sample	Total/NA	Water	8270C	945744
LCSD 460-945744/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	945744
460-292923-7 MS	GW-11222397-111523-CT-07	Total/NA	Water	8270C	945744
460-292923-7 MSD	GW-11222397-111523-CT-07	Total/NA	Water	8270C	945744

Metals

Prep Batch: 946633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-292923-13	RB-11222397-111523-ZB-13	Total/NA	Water	7470A	
MB 460-946633/13-A	Method Blank	Total/NA	Water	7470A	
LCS 460-946633/14-A	Lab Control Sample	Total/NA	Water	7470A	
460-293025-G-4-C MS	Matrix Spike	Total/NA	Water	7470A	
460-293025-G-4-B DU	Duplicate	Total/NA	Water	7470A	

Analysis Batch: 946690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-292923-13	RB-11222397-111523-ZB-13	Total/NA	Water	7470A	946633
MB 460-946633/13-A	Method Blank	Total/NA	Water	7470A	946633
LCS 460-946633/14-A	Lab Control Sample	Total/NA	Water	7470A	946633
460-293025-G-4-C MS	Matrix Spike	Total/NA	Water	7470A	946633
460-293025-G-4-B DU	Duplicate	Total/NA	Water	7470A	946633

Prep Batch: 947118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-292923-13	RB-11222397-111523-ZB-13	Total/NA	Water	3010A	
MB 460-947118/1-A	Method Blank	Total/NA	Water	3010A	
LCS 460-947118/2-A	Lab Control Sample	Total/NA	Water	3010A	
460-292923-13 MS	RB-11222397-111523-ZB-13	Total/NA	Water	3010A	
460-292923-13 DU	RB-11222397-111523-ZB-13	Total/NA	Water	3010A	

Analysis Batch: 947168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-292923-13	RB-11222397-111523-ZB-13	Total/NA	Water	6020B	947118
MB 460-947118/1-A	Method Blank	Total/NA	Water	6020B	947118
LCS 460-947118/2-A	Lab Control Sample	Total/NA	Water	6020B	947118
460-292923-13 MS	RB-11222397-111523-ZB-13	Total/NA	Water	6020B	947118
460-292923-13 DU	RB-11222397-111523-ZB-13	Total/NA	Water	6020B	947118

Analysis Batch: 947192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-292923-13	RB-11222397-111523-ZB-13	Dissolved	Water	6020B	947247
MB 460-947247/1-A	Method Blank	Total/NA	Water	6020B	947247
LCS 460-947247/2-A	Lab Control Sample	Total/NA	Water	6020B	947247
460-293374-D-1-C MS	Matrix Spike	Dissolved	Water	6020B	947247

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QC Association Summary

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

Job ID: 460-292923-1

Metals (Continued)

Analysis Batch: 947192 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-293374-D-1-B DU	Duplicate	Dissolved	Water	6020B	947247

Prep Batch: 947247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-292923-13	RB-11222397-111523-ZB-13	Dissolved	Water	3010A	
MB 460-947247/1-A	Method Blank	Total/NA	Water	3010A	
LCS 460-947247/2-A	Lab Control Sample	Total/NA	Water	3010A	
460-293374-D-1-C MS	Matrix Spike	Dissolved	Water	3010A	
460-293374-D-1-B DU	Duplicate	Dissolved	Water	3010A	

Lab Chronicle

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

Job ID: 460-292923-1

Client Sample ID: RB-11222397-111423-ZB-01

Lab Sample ID: 460-292923-1

Date Collected: 11/14/23 13:00

Matrix: Water

Date Received: 11/15/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			945744	SXS	EET EDI	11/20/23 10:14
Total/NA	Analysis	8270C		1	945850	MME	EET EDI	11/20/23 23:40

Client Sample ID: GW-11222397-111423-ES-02

Lab Sample ID: 460-292923-2

Date Collected: 11/14/23 13:50

Matrix: Water

Date Received: 11/15/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	946776	EMM	EET EDI	11/28/23 04:21
Total/NA	Prep	3510C			945744	SXS	EET EDI	11/20/23 10:14
Total/NA	Analysis	8270C		1	945850	MME	EET EDI	11/21/23 00:01

Client Sample ID: GW-11222397-111423-ES-03

Lab Sample ID: 460-292923-3

Date Collected: 11/14/23 14:00

Matrix: Water

Date Received: 11/15/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			945744	SXS	EET EDI	11/20/23 10:14
Total/NA	Analysis	8270C		1	945850	MME	EET EDI	11/21/23 01:05

Client Sample ID: GW-11222397-111423-ZB-04

Lab Sample ID: 460-292923-4

Date Collected: 11/14/23 14:00

Matrix: Water

Date Received: 11/15/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		5	946776	EMM	EET EDI	11/28/23 05:01
Total/NA	Prep	3510C			945744	SXS	EET EDI	11/20/23 10:14
Total/NA	Analysis	8270C		1	945850	MME	EET EDI	11/21/23 02:30

Client Sample ID: GW-11222397-111423-ZB-05

Lab Sample ID: 460-292923-5

Date Collected: 11/14/23 15:00

Matrix: Water

Date Received: 11/15/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	946776	EMM	EET EDI	11/28/23 04:41
Total/NA	Prep	3510C			945744	SXS	EET EDI	11/20/23 10:14
Total/NA	Analysis	8270C		1	945850	MME	EET EDI	11/21/23 01:27

Client Sample ID: GW-11222397-111523-CT-06

Lab Sample ID: 460-292923-6

Date Collected: 11/15/23 12:15

Matrix: Water

Date Received: 11/15/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B	DL	2	946954	VBP	EET EDI	11/29/23 04:47
Total/NA	Analysis	8260B		1	947050	CJM	EET EDI	11/29/23 11:12

Eurofins Edison

Lab Chronicle

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

Job ID: 460-292923-1

Client Sample ID: GW-11222397-111523-CT-06

Lab Sample ID: 460-292923-6

Date Collected: 11/15/23 12:15

Matrix: Water

Date Received: 11/15/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			945744	SXS	EET EDI	11/20/23 10:14
Total/NA	Analysis	8270C		1	945850	MME	EET EDI	11/21/23 01:48

Client Sample ID: GW-11222397-111523-CT-07

Lab Sample ID: 460-292923-7

Date Collected: 11/15/23 10:50

Matrix: Water

Date Received: 11/15/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	946954	VBP	EET EDI	11/29/23 03:09
Total/NA	Prep	3510C			945744	SXS	EET EDI	11/20/23 10:14
Total/NA	Analysis	8270C		1	945850	MME	EET EDI	11/21/23 02:09

Client Sample ID: RB-11222397-111523-ZB-08

Lab Sample ID: 460-292923-8

Date Collected: 11/15/23 09:30

Matrix: Water

Date Received: 11/15/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	946954	VBP	EET EDI	11/28/23 23:15

Client Sample ID: GW-11222397-111523-ZB-09

Lab Sample ID: 460-292923-9

Date Collected: 11/15/23 11:00

Matrix: Water

Date Received: 11/15/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	946954	VBP	EET EDI	11/29/23 02:50

Client Sample ID: GW-11222397-111523-ZB-10

Lab Sample ID: 460-292923-10

Date Collected: 11/15/23 12:15

Matrix: Water

Date Received: 11/15/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	946954	VBP	EET EDI	11/29/23 03:29

Client Sample ID: GW-11222397-111523-ZB-11

Lab Sample ID: 460-292923-11

Date Collected: 11/15/23 12:25

Matrix: Water

Date Received: 11/15/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	946954	VBP	EET EDI	11/29/23 03:49

Client Sample ID: GW-11222397-111523-ZB-12

Lab Sample ID: 460-292923-12

Date Collected: 11/15/23 12:55

Matrix: Water

Date Received: 11/15/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	946954	VBP	EET EDI	11/29/23 04:08

Eurofins Edison

Lab Chronicle

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

Job ID: 460-292923-1

Client Sample ID: RB-11222397-111523-ZB-13

Lab Sample ID: 460-292923-13

Date Collected: 11/15/23 13:05

Matrix: Water

Date Received: 11/15/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			947247	VAD	EET EDI	11/29/23 23:18
Dissolved	Analysis	6020B		1	947192	YZH	EET EDI	11/30/23 00:16
Total/NA	Prep	3010A			947118	JKF	EET EDI	11/29/23 09:14
Total/NA	Analysis	6020B		1	947168	CDC	EET EDI	11/29/23 13:31
Total/NA	Prep	7470A			946633	FBT	EET EDI	11/27/23 05:56
Total/NA	Analysis	7470A		1	946690	FBT	EET EDI	11/27/23 10:13

Client Sample ID: TB-11222397-001

Lab Sample ID: 460-292923-14

Date Collected: 11/15/23 13:05

Matrix: Water

Date Received: 11/15/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	946954	VBP	EET EDI	11/28/23 22:55

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: 460-292923-1

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	01-01-24

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

Analysis Method	Prep Method	Matrix	Analyte
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 Manganese
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
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,2,4-Trichlorobenzene
8260B		Water	1,2,4-Trimethylbenzene
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane
8260B		Water	1,2-Dichloropropane
8260B		Water	1,3-Dichlorobenzene
8260B		Water	1,4-Dichlorobenzene
8260B		Water	2-Butanone (MEK)
8260B		Water	2-Hexanone
8260B		Water	4-Methyl-2-pentanone (MIBK)
8260B		Water	Acetone
8260B		Water	Benzene
8260B		Water	Bromodichloromethane

Eurofins Edison

Accreditation/Certification Summary

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

Job ID: 460-292923-1

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
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Cyclohexane
8260B		Water	Dibromochloromethane
8260B		Water	Dichlorodifluoromethane
8260B		Water	Ethylbenzene
8260B		Water	Isopropylbenzene
8260B		Water	Methyl acetate
8260B		Water	Methyl tert-butyl ether
8260B		Water	Methylcyclohexane
8260B		Water	Methylene Chloride
8260B		Water	Styrene
8260B		Water	Tetrachloroethene
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	Trichloroethene
8260B		Water	Trichlorofluoromethane
8260B		Water	Vinyl chloride
8260B		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

Eurofins Edison

Accreditation/Certification Summary

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

Job ID: 460-292923-1

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	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
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: 460-292923-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organics (GC/MS)	SW846	EET EDI
8270C	Semivolatile Organics (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
5030B	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: Racer Trust

Job ID: 460-292923-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-292923-1	RB-11222397-111423-ZB-01	Water	11/14/23 13:00	11/15/23 19:00
460-292923-2	GW-11222397-111423-ES-02	Water	11/14/23 13:50	11/15/23 19:00
460-292923-3	GW-11222397-111423-ES-03	Water	11/14/23 14:00	11/15/23 19:00
460-292923-4	GW-11222397-111423-ZB-04	Water	11/14/23 14:00	11/15/23 19:00
460-292923-5	GW-11222397-111423-ZB-05	Water	11/14/23 15:00	11/15/23 19:00
460-292923-6	GW-11222397-111523-CT-06	Water	11/15/23 12:15	11/15/23 19:00
460-292923-7	GW-11222397-111523-CT-07	Water	11/15/23 10:50	11/15/23 19:00
460-292923-8	RB-11222397-111523-ZB-08	Water	11/15/23 09:30	11/15/23 19:00
460-292923-9	GW-11222397-111523-ZB-09	Water	11/15/23 11:00	11/15/23 19:00
460-292923-10	GW-11222397-111523-ZB-10	Water	11/15/23 12:15	11/15/23 19:00
460-292923-11	GW-11222397-111523-ZB-11	Water	11/15/23 12:25	11/15/23 19:00
460-292923-12	GW-11222397-111523-ZB-12	Water	11/15/23 12:55	11/15/23 19:00
460-292923-13	RB-11222397-111523-ZB-13	Water	11/15/23 13:05	11/15/23 19:00
460-292923-14	TB-11222397-001	Water	11/15/23 13:05	11/15/23 19:00

**Environment Testing
America**

TAL-8210

Company Name: GHD		Client Contact		Project Manager: John S. S. S. S.		Site Contact:		Date		COC No:	
Address: 410 Eastway Blvd		City/State/Zip: Exton PA 19341		Phone: 215 776 6127		Fax:		Lab Contact: LIZ FIA		Carrier:	
Project Name: Racer Truss		PO #		Analysis Turnaround Time		TAT if different from Below		Sample Date		Sample Time	
				CALENDAR DAYS		WORKING DAYS		Sample Type (C=Comp, G=Grab)		# of Cont.	
				☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day					
RB 1122397 111423 ZB 01	1/4/23	1300	G	RB	2						
GW 1122397 111423 LS 02	1/4/23	350		GW	5						
GW 1122397 111423 LS 03	1/4/23	1400		GW	2						
GW 1122397 111423 ZB 04	1/4/23	1400		GW	5						
GW 1122397 111423 ZB 05	1/4/23	1500		GW	5						
GW 1122397 111523 ZB 06	1/15/23	1215		GW	5						
GW 1122397 111523 ZB 07	1/15/23	1050		GW	1						
GW 1122397 111523 ZB 08	1/15/23	0930		RB	3						
GW 1122397 111523 ZB 09	1/15/23	1100		GW	9						
GW 1122397 111523 ZB 10	1/15/23	1215		GW	7						
GW 1122397 111523 ZB 11	1/15/23	1225		GW	3						
GW 1122397 111523 ZB 12	1/15/23			GW	2						



460-292923 Chain of Custody

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

Preservation Used: 1=Ice, 2=HCl, 3=HNO3, 4=H2SO4, 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-Hazardous
☐ Flammable
☐ Skin Irritant
☐ Poison B
☐ Unknown

Special Instructions/QC Requirements & Comments

Custody Seal No. _____

Relinquished by: *John S. S. S.* Date: *1/15/23*

Relinquished by: *John S. S. S.* Date: *1/15/23*

Relinquished by: *John S. S. S.* Date: *1/15/23*

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Page ____ of ____

Eurofins TestAmerica Edison

Receipt Temperature and pH Log

Job Number:

Number of Coolers:

IR Gun #



Cooler Temperatures

	DAY		CORRECTED	
Cooler #1	33	33	33	33
Cooler #2				
Cooler #3				
Cooler #4				
Cooler #5				
Cooler #6				
Cooler #7				
Cooler #8				
Cooler #9				

[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

Y
F

Date: 11/2/23

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

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 460-292923-1

Login Number: 292923

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	False	Refer to Job Narrative for details.
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 D

Data Validation Memo

Data Validation Report

February 09, 2024

To	Samantha Sasnow	Project No.	11222397
Copy to	Francis Ramacciotti; Zachary Boston	DVR No.	N/A
From	Christopher Arcuri/eew/2	Contact No.	717.585.6408
Project Name	RACER Wilmington Former Assembly Plant	Email	Christopher.Arcuri@ghd.com
Subject	Analytical Results and Full Validation Long Term Stewardship Plan – Groundwater Sampling Program RACER Trust – Former Assembly Plant Wilmington, Delaware November 2023		

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

1. Introduction

This document details a full validation of analytical results for groundwater samples collected in support of the Groundwater Sampling Program at the RACER Trust former assembly plant during November 2023. Samples were submitted to Eurofins Environment Testing, located in Edison, New Jersey. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Full Contract Laboratory Program (CLP) equivalent raw data deliverables were provided by the laboratory. Evaluation of the data was based on information obtained from the finished data sheets, raw data, chain of custody forms, calibration data, blank data, duplicate data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spike (MS) samples and field quality assurance/quality (QA/QC) samples. The assessment of analytical and in house data included checks for: data consistency (by observing comparability of duplicate analyses), adherence to accuracy and precision criteria, and transmittal errors.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

1. "Remedial Investigation Work Plan, Former GM Wilmington Assembly Plant," Wilmington, Delaware, revised August 2011, 017338 Rpt 19, Section 6
2. "National Functional Guidelines for Inorganic Superfund Methods Data Review", United States Environmental Protection Agency (US EPA) 542-R-20-006, November 2020.
3. "National Functional Guidelines for Organic Superfund Methods Data Review", USEPA 540-R-20-005, November 2020.

Items 2 and 3 will subsequently be referred to as the "Guidelines" in this report.

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Gas Chromatography/Mass Spectrometer (GC/MS) and Inductively Coupled Plasma/Mass Spectrometer (ICP/MS)– Tuning and Mass Calibration - Instrument Performance Checks

3.1 Organic Analyses

Prior to volatile organic compound (VOC) and semi-volatile organic compound (SVOC) analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, methods require the analysis of specific tuning compounds bromofluorobenzene (BFB) and decafluorotriphenylphosphine (DFTPP), respectively. The resulting spectra must meet the criteria cited in the methods before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

Tuning compounds were analyzed at the required frequency throughout VOC and SVOC analysis periods. All tuning criteria were met indicating that proper optimization of the instrumentation was achieved.

3.2 Inorganic Analyses

To ensure adequate mass resolution, identification, and to some degree, sensitivity, the performance of each ICP/MS instrument used for metals analyses is checked prior to calibration and initiating an analysis sequence through the analysis of a tuning solution.

Instrument performance check data were reviewed. The tuning solution was analyzed at the required frequency throughout the analyses. The results of all instrument performance checks were within the method acceptance criteria, indicating that proper optimization of the instrumentation was achieved.

4. Initial Calibration - Organic Analyses

To quantify VOCs and SVOCs of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity of the calibration curve and instrument sensitivity are evaluated against the following criteria:

1. All relative response factors (RRFs) must be greater than or equal to the established QAPP limits.
2. The percent relative standard deviation (%RSD) values must not exceed 20.0 percent or a minimum coefficient of determination (R^2) of 0.99 if linear and quadratic regression calibration curves are used.

The initial calibration data for VOCs and SVOCs were reviewed. All compounds met the above criteria for sensitivity and linearity.

5. Initial Calibration – Inorganic Analyses

Initial calibration of the instruments ensures that they are capable of producing satisfactory quantitative data at the beginning of a series of analyses. For ICP/MS analysis, a calibration blank and at least one standard must be analyzed at each wavelength to establish the analytical curve. For mercury atomic absorption (AA) analyses, a calibration blank and a minimum of five standards must be analyzed to establish the analytical curve and the resulting correlation coefficients (R) must be 0.995 or greater.

After the analyses of the calibration curves, an initial calibration verification (ICV) standard must be analyzed to verify the analytical accuracy of the calibration curves. All analyte recoveries from the analyses of the ICVs must be within the following control limits:

Analytical Method	Parameter	Control Limits
ICP/MS	Metals	90 - 110%
Cold Vapor AA	Mercury	85 - 115%

Upon review of the data, it was determined that the calibration curves and ICVs were analyzed at the proper frequencies and that all the above specified criteria were met. The laboratory effectively demonstrated that the instrumentation used for metals and general chemistry analyses were properly calibrated prior to sample analysis.

6. Continuing Calibration - Organic Analyses

To ensure that instrument calibration for VOC and SVOC analyses is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

1. All RRF values must be greater than or equal to the established QAPP limits.
2. Percent difference (%D) or %Drift values must not exceed 20.0 percent.

Calibration standards were analyzed at the required frequency, and most of the results met the above criteria for instrument sensitivity and stability. Sample results that were qualified due to outlying continuing calibration criteria are presented in Table 4.

7. Continuing Calibration - Inorganic Analyses

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration verification (CCV) standards are analyzed on a regular basis. Each CCV is deemed acceptable if all analyte recoveries are within the control limits specified above for the ICVs. If some of the CCV analyte recoveries are outside the control limits, samples analyzed before and after the CCV, up until the previous and proceeding CCV analyses, are affected.

For this study, CCVs were analyzed at the proper frequency. All analyte recoveries reported for the CCVs were within the specified limits.

8. Laboratory Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures. Additionally, initial and continuing calibration blanks (ICBs/CCBs) are routinely analyzed after each ICV/CCV for the inorganic parameters.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per analytical batch of 20 samples or less.

8.1 Organic Analyses

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

8.2 Inorganic Analyses

Upon review of the ICBs, CCBs, and method blanks, no metal concentrations were observed above the method detection limit (MDL).

9. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for VOC and SVOC determinations were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries were within the laboratory criteria.

10. Internal Standards (IS) Analyses

IS data were evaluated for all VOC, SVOC and ICP/MS metals sample analyses.

10.1 Organics Analyses

To ensure that changes in the GC/MS sensitivity and response do not affect sample analysis results, IS compounds are added to each sample prior to analysis. All results are then calculated as a ratio of the IS responses.

The sample IS results were evaluated against the following criteria:

1. The retention time of the IS must not vary more than ± 30 seconds (± 10 seconds for VOCs) from the associated calibration standard.
2. IS area counts must not vary by more than a factor of two (50 percent to +100 percent) from the associated calibration standard.

All organic IS recoveries and retention times met the above criteria.

10.2 Inorganic Analyses

IS elements were added to all samples prior to metals analysis by ICP/MS. Overall instrument stability and performance for metals analyses were monitored using the IS intensity data. IS recoveries were assessed using control limits of 60-125 percent.

All inorganic IS recoveries were acceptable, demonstrating adequate analytical performance.

11. Laboratory Control Sample Analyses

LCS or LCS/laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

High LCS recoveries and/or RPDs do not impact any associated non-detect sample results.

For this study, LCS or LCS/LCSD were analyzed at a minimum frequency of 1 per analytical batch of 20 samples or less.

11.1 Organic Analyses

The LCS/LCSD contained all compounds of interest. Most LCS recoveries and RPDs were within the laboratory control limits, and non-detect results associated with high LCS recoveries did not warrant qualification, demonstrating acceptable analytical accuracy and precision.

11.2 Inorganic Analyses

The LCS contained all analytes of interest. LCS recoveries were assessed per the "Guidelines" using the laboratory limits. All LCS recoveries were within the control limits, demonstrating acceptable analytical accuracy.

12. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.

If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed.

If only the MS or MSD recovery was outside of control limits, no qualification of the data was performed based on the acceptable recovery of the companion spike and RPD.

MS/MSD analyses were performed as specified in Table 1.

12.1 Organic Analyses

The MS/MSD samples were spiked with all compounds of interest. Most percent recoveries and RPD values were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision. Sample results that were qualified due to outlying MS/MSD recoveries are presented in Table 5.

12.2 Inorganic Analyses

The MS/MSD samples were spiked with the analytes of interest, and the results were evaluated per the "Guidelines" using the laboratory control limits. Most percent recoveries and RPD values were within the control limits, demonstrating acceptable analytical accuracy and precision. Sample results that were qualified due to outlying MS/MSD recoveries are presented in Table 5.

13. Duplicate Sample Analyses – Inorganic Analyses

Analytical precision is evaluated based on the analysis of laboratory duplicate samples. For this study, duplicate samples were prepared and analyzed by the laboratory as specified in Table 1. The duplicate results were evaluated per the "Guidelines" using the laboratory control limits.

All duplicate analyses met the above criteria demonstrating acceptable analytical precision.

14. ICP/MS Serial Dilution

The serial dilution determines whether significant physical or chemical interferences exist due to sample matrix. A minimum of 1 per analytical batch of 20 samples or less must be analyzed at a five-fold dilution. For samples with sufficient analyte concentrations (>50 times the method detection limit), the serial dilution results must agree within 20 percent of the original results.

A serial dilution was performed on each MS/MSD sample. All results met the criteria above.

15. ICP Interference Check Sample Analysis (ICS)

To verify that the laboratory has established proper inter-element and background correction factors, ICSs are analyzed. These samples contain high concentrations of aluminum, calcium, magnesium, and iron and are analyzed at the beginning of each sample analysis period. The ICSs are evaluated against recovery control limits of 80 to 120 percent.

ICS analysis results were evaluated for all samples using the criteria in the "Guidelines". All ICS recoveries and results were acceptable.

16. Field QA/QC Samples

The field QA/QC consisted of two trip blank samples, three rinse blank samples and three field duplicate sample sets.

16.1 Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, two trip blanks were submitted to the laboratory for VOC analysis. All results were non-detect for the compounds of interest.

16.2 Rinse Blank Sample Analysis

To assess field decontamination procedures, ambient conditions at the site, and cleanliness of sample containers, three rinse blanks were submitted for analysis, as identified in Table 1. Most results were non-detect for the analytes of interest. Sample results that were qualified as non-detect due to similar concentrations in the rinse blank are presented in Table 6.

16.3 Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, three field duplicate sample sets were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent for water samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criterion is one times the RL value.

Most field duplicate results met the above criteria demonstrating acceptable sampling and analytical precision. Sample results that were qualified due to field duplicate variability are presented in Table 7.

17. Analyte Reporting

Sample results were reported down to the laboratory's quantitation limit (QL), which is defined as the method detection limit (MDL) with sample specific adjustments for dilutions, aliquot size, volumes, etc. Positive analyte detections less than the RL but greater than the QL were reported as estimated (J) in Table 2 unless qualified otherwise in this report. Non-detect results were presented as non-detect at the QL in Table 2.

18. Total versus Dissolved Analytes

All dissolved metals results were less than the total results or were within the normal variability of the method (20%D).

19. Target Compound Identification

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound retention time and mass spectra were evaluated according to the identification criteria established by the methods. The samples identified in Table 1 were reviewed. The organic compounds reported adhered to the specified identification criteria.

20. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific qualifications noted herein.

Regards



Christopher Arcuri

Data Intelligence – Data Validator

Table 1

Sample Collection and Analysis Summary
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Sample Delivery Group	Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	<u>Parameters</u>				Comments
						VOCs	SVOCs	Metals	Mercury	
4602929231	GW-11222397-111423-ES-02	MW-36S	Groundwater	11/14/2023	13:50	X	X			
	GW-11222397-111423-ES-03	MW-36S	Groundwater	11/14/2023	14:00		X			FD(GW-11222397-111423-ES-02)
	GW-11222397-111423-ZB-04	MW-50R	Groundwater	11/14/2023	14:00	X	X			
	GW-11222397-111423-ZB-05	MW-36D	Groundwater	11/14/2023	15:00	X	X			
	GW-11222397-111523-CT-06	DA-MW40	Groundwater	11/15/2023	12:15	X	X			
	GW-11222397-111523-CT-07	DA-MW41	Groundwater	11/15/2023	10:50	X	X			MS/MSD
	GW-11222397-111523-ZB-09	MW-8R	Groundwater	11/15/2023	11:00	X				MS/MSD
	GW-11222397-111523-ZB-10	MW-19R	Groundwater	11/15/2023	12:15	X				
	GW-11222397-111523-ZB-11	MW-19R	Groundwater	11/15/2023	12:25	X				FD(GW-11222397-111523-ZB-10)
	GW-11222397-111523-ZB-12	MW-9R	Groundwater	11/15/2023	12:55	X				
	RB-11222397-111423-ZB-01	-	Water	11/14/2023	13:00		X			Rinse Blank
	RB-11222397-111523-ZB-08	-	Water	11/15/2023	9:30	X				Rinse Blank
	RB-11222397-111523-ZB-13	-	Water	11/15/2023	13:05			X	X	Rinse Blank
	TB-11222397-001	-	Water	11/15/2023	13:05	X				Trip Blank

Table 1

Sample Collection and Analysis Summary
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Sample Delivery Group	Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	<u>Parameters</u>				Comments
						VOCs	SVOCs	Metals	Mercury	
4602929241	GW-11222397-111523-ZB-14	MW-112	Groundwater	11/15/2023	14:05			X	X	MS/MSD, DUP
	GW-11222397-111623-CT-16	MW-109R	Groundwater	11/16/2023	12:10			X	X	
	GW-11222397-111623-CT-17	MW-109R	Groundwater	11/16/2023	12:25			X	X	FD(GW-11222397-111623-CT-16)
	GW-11222397-111623-ZB-15	MW-48R	Groundwater	11/16/2023	12:20	X		X	X	
	GW-11222397-111623-ZB-18	MW-113R	Groundwater	11/16/2023	13:05			X	X	
	TB-11222397-002	-	Water	11/16/2023	13:05	X				Trip Blank

Notes:

- DUP - Laboratory Duplicate
- FD - Field Duplicate Sample of sample in parenthesis
- MS/MSD - Matrix Spike/Matrix Spike Duplicate
- VOCs - Volatile Organic Compounds
- SVOCs - Semi-volatile Organic Compounds
- "-" - Not Applicable

Table 2

Analytical Results Summary
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Location ID:	DA-MW40	DA-MW41	MW-8R	MW-9R
Sample Name:	GW-11222397-111523-CT-06	GW-11222397-111523-CT-07	GW-11222397-111523-ZB-09	GW-11222397-111523-ZB-12
Sample Date:	11/15/2023	11/15/2023	11/15/2023	11/15/2023

Parameters	Unit				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.37 U	0.37 U	0.37 U	0.37 U
1,1,2-Trichloroethane	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
1,1-Dichloroethane	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
1,1-Dichloroethene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
1,2,4-Trichlorobenzene	µg/L	0.37 U	0.37 U	0.37 U	0.37 U
1,2,4-Trimethylbenzene	µg/L	300	83	0.37 U	0.37 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.38 U	0.38 U	0.38 U	0.38 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,2-Dichloroethane	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
1,2-Dichloropropane	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
1,3-Dichlorobenzene	µg/L	0.34 U	0.34 U	0.34 U	0.34 U
1,4-Dichlorobenzene	µg/L	0.33 U	0.33 U	0.33 U	0.33 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	13	21	1.9 U	1.9 U
2-Hexanone	µg/L	1.1 U	1.1 U	1.1 U	1.1 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	3.7 J	1.3 U	1.3 U	1.3 U
Acetone	µg/L	4.4 U	36	4.4 U	4.4 U
Benzene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Bromodichloromethane	µg/L	0.34 U	0.34 U	0.34 U	0.34 U
Bromoform	µg/L	0.54 U	0.54 U	0.54 U	0.54 U
Bromomethane (Methyl bromide)	µg/L	0.55 U	0.55 U	0.55 U	0.55 U
Carbon disulfide	µg/L	0.82 UJ	0.82 UJ	0.82 UJ	0.82 UJ
Carbon tetrachloride	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Chlorobenzene	µg/L	0.38 U	0.38 U	0.38 U	0.38 U
Chloroethane	µg/L	0.32 U	0.32 U	0.32 U	0.32 U

Table 2

Analytical Results Summary
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Location ID:		DA-MW40	DA-MW41	MW-8R	MW-9R
Sample Name:		GW-11222397-111523-CT-06	GW-11222397-111523-CT-07	GW-11222397-111523-ZB-09	GW-11222397-111523-ZB-12
Sample Date:		11/15/2023	11/15/2023	11/15/2023	11/15/2023
Parameters	Unit				
Volatile Organic Compounds (Continued)					
Chloroform (Trichloromethane)	µg/L	0.33 U	0.33 U	0.33 U	0.33 U
Chloromethane (Methyl chloride)	µg/L	0.40 U	0.40 UJ	0.40 UJ	0.40 UJ
cis-1,2-Dichloroethene	µg/L	0.22 U	0.22 U	0.22 U	0.22 U
cis-1,3-Dichloropropene	µg/L	0.22 U	0.22 U	0.22 U	0.22 U
Cyclohexane	µg/L	190	110	0.32 U	0.32 U
Dibromochloromethane	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Ethylbenzene	µg/L	91	81	0.30 U	0.30 U
Isopropyl benzene	µg/L	28	12	0.34 U	0.34 U
Methyl acetate	µg/L	0.79 UJ	0.79 U	0.79 U	0.79 U
Methyl cyclohexane	µg/L	88	55	0.71 U	0.71 U
Methyl tert butyl ether (MTBE)	µg/L	0.22 U	0.22 U	0.22 U	0.22 U
Methylene chloride	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
Styrene	µg/L	0.42 U	0.45 J	0.42 U	0.42 U
Tetrachloroethene	µg/L	0.25 U	0.25 U	0.64 J	0.25 U
Toluene	µg/L	0.38 U	14	0.38 U	0.38 U
trans-1,2-Dichloroethene	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
trans-1,3-Dichloropropene	µg/L	0.22 U	0.22 U	0.22 U	0.22 U
Trichloroethene	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Trichlorofluoromethane (CFC-11)	µg/L	0.32 U	0.32 U	2.2	0.32 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Vinyl chloride	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
Xylenes (total)	µg/L	420	140	0.65 U	0.65 U

Table 2

Analytical Results Summary
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Location ID:	DA-MW40	DA-MW41	MW-8R	MW-9R
Sample Name:	GW-11222397-111523-CT-06	GW-11222397-111523-CT-07	GW-11222397-111523-ZB-09	GW-11222397-111523-ZB-12
Sample Date:	11/15/2023	11/15/2023	11/15/2023	11/15/2023

Parameters	Unit				
Semi-volatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	0.63 U	0.63 U	--	--
2,4,5-Trichlorophenol	µg/L	0.88 U	0.88 U	--	--
2,4,6-Trichlorophenol	µg/L	0.86 U	0.86 U	--	--
2,4-Dichlorophenol	µg/L	1.1 U	1.1 U	--	--
2,4-Dimethylphenol	µg/L	0.62 U	0.62 U	--	--
2,4-Dinitrophenol	µg/L	2.6 UJ	2.6 UJ	--	--
2,4-Dinitrotoluene	µg/L	1.0 U	1.0 U	--	--
2,6-Dinitrotoluene	µg/L	0.83 U	0.83 U	--	--
2-Chloronaphthalene	µg/L	1.2 U	1.2 U	--	--
2-Chlorophenol	µg/L	0.38 U	0.38 U	--	--
2-Methylnaphthalene	µg/L	16	5.5 J	--	--
2-Methylphenol	µg/L	0.67 U	0.67 U	--	--
2-Nitroaniline	µg/L	0.47 U	0.47 U	--	--
2-Nitrophenol	µg/L	0.75 U	0.75 U	--	--
3,3'-Dichlorobenzidine	µg/L	1.4 U	1.4 U	--	--
3-Nitroaniline	µg/L	1.9 U	1.9 U	--	--
4,6-Dinitro-2-methylphenol	µg/L	3.0 U	3.0 U	--	--
4-Bromophenyl phenyl ether	µg/L	0.75 U	0.75 U	--	--
4-Chloro-3-methylphenol	µg/L	0.58 U	0.58 U	--	--
4-Chlorophenyl phenyl ether	µg/L	1.3 U	1.3 U	--	--
4-Methylphenol	µg/L	0.65 U	0.65 U	--	--
4-Nitroaniline	µg/L	1.2 U	1.2 U	--	--
4-Nitrophenol	µg/L	4.0 U	4.0 U	--	--
Acenaphthene	µg/L	1.1 U	1.1 U	--	--
Acenaphthylene	µg/L	0.82 U	0.82 U	--	--
Acetophenone	µg/L	2.3 U	7.4 J	--	--

Table 2

Analytical Results Summary
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Location ID:	DA-MW40	DA-MW41	MW-8R	MW-9R
Sample Name:	GW-11222397-111523-CT-06	GW-11222397-111523-CT-07	GW-11222397-111523-ZB-09	GW-11222397-111523-ZB-12
Sample Date:	11/15/2023	11/15/2023	11/15/2023	11/15/2023

Parameters	Unit				
Semi-volatile Organic Compounds (Continued)					
Anthracene	µg/L	1.3 U	1.3 U	--	--
Atrazine	µg/L	1.3 U	1.3 U	--	--
Benzaldehyde	µg/L	2.1 UJ	2.1 UJ	--	--
Benzo(a)anthracene	µg/L	0.59 U	0.59 U	--	--
Benzo(a)pyrene	µg/L	0.41 UJ	0.41 UJ	--	--
Benzo(b)fluoranthene	µg/L	0.68 U	0.68 U	--	--
Benzo(g,h,i)perylene	µg/L	0.70 U	0.70 U	--	--
Benzo(k)fluoranthene	µg/L	0.67 U	0.67 U	--	--
Biphenyl (1,1-Biphenyl)	µg/L	1.2 U	1.2 U	--	--
bis(2-Chloroethoxy)methane	µg/L	0.59 U	0.59 U	--	--
bis(2-Chloroethyl)ether	µg/L	0.63 U	0.63 U	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	0.80 UJ	0.80 UJ	--	--
Butyl benzylphthalate (BBP)	µg/L	0.85 U	0.85 U	--	--
Caprolactam	µg/L	2.2 U	2.2 U	--	--
Carbazole	µg/L	0.68 U	0.68 U	--	--
Chrysene	µg/L	0.91 U	0.91 U	--	--
Di-n-butylphthalate (DBP)	µg/L	0.84 U	0.84 U	--	--
Di-n-octyl phthalate (DnOP)	µg/L	0.75 U	0.75 U	--	--
Dibenz(a,h)anthracene	µg/L	0.72 U	0.72 U	--	--
Dibenzofuran	µg/L	1.1 U	1.1 U	--	--
Diethyl phthalate	µg/L	0.98 U	0.98 U	--	--
Dimethyl phthalate	µg/L	0.77 U	0.77 U	--	--
Fluoranthene	µg/L	0.84 U	0.84 U	--	--
Fluorene	µg/L	0.91 U	0.91 U	--	--
Hexachlorobenzene	µg/L	0.40 U	0.40 U	--	--
Hexachlorobutadiene	µg/L	0.78 U	0.78 U	--	--

Table 2

Analytical Results Summary
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Location ID:	DA-MW40	DA-MW41	MW-8R	MW-9R
Sample Name:	GW-11222397-111523-CT-06	GW-11222397-111523-CT-07	GW-11222397-111523-ZB-09	GW-11222397-111523-ZB-12
Sample Date:	11/15/2023	11/15/2023	11/15/2023	11/15/2023

Parameters	Unit				
Semi-volatile Organic Compounds (Continued)					
Hexachlorocyclopentadiene	µg/L	3.6 U	3.6 U	--	--
Hexachloroethane	µg/L	0.80 U	0.80 U	--	--
Indeno(1,2,3-cd)pyrene	µg/L	0.94 U	0.94 U	--	--
Isophorone	µg/L	0.80 U	0.80 U	--	--
N-Nitrosodi-n-propylamine	µg/L	0.43 U	0.43 U	--	--
N-Nitrosodiphenylamine	µg/L	0.89 U	0.89 U	--	--
Naphthalene	µg/L	60	31	--	--
Nitrobenzene	µg/L	0.57 U	0.57 U	--	--
Pentachlorophenol	µg/L	1.4 U	1.4 U	--	--
Phenanthrene	µg/L	1.3 U	1.3 U	--	--
Phenol	µg/L	0.29 U	0.29 U	--	--
Pyrene	µg/L	1.6 U	1.6 U	--	--
Metals					
Aluminum	µg/L	--	--	--	--
Antimony	µg/L	--	--	--	--
Arsenic	µg/L	--	--	--	--
Barium	µg/L	--	--	--	--
Beryllium	µg/L	--	--	--	--
Cadmium	µg/L	--	--	--	--
Calcium	µg/L	--	--	--	--
Chromium	µg/L	--	--	--	--
Cobalt	µg/L	--	--	--	--
Copper	µg/L	--	--	--	--
Iron	µg/L	--	--	--	--
Lead	µg/L	--	--	--	--

Table 2

Analytical Results Summary
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Location ID:	DA-MW40	DA-MW41	MW-8R	MW-9R
Sample Name:	GW-11222397-111523-CT-06	GW-11222397-111523-CT-07	GW-11222397-111523-ZB-09	GW-11222397-111523-ZB-12
Sample Date:	11/15/2023	11/15/2023	11/15/2023	11/15/2023

Parameters**Unit****Metals (Continued)**

Magnesium	µg/L	--	--	--	--
Manganese	µg/L	--	--	--	--
Manganese (dissolved)	µg/L	--	--	--	--
Mercury	µg/L	--	--	--	--
Nickel	µg/L	--	--	--	--
Potassium	µg/L	--	--	--	--
Selenium	µg/L	--	--	--	--
Silver	µg/L	--	--	--	--
Sodium	µg/L	--	--	--	--
Thallium	µg/L	--	--	--	--
Vanadium	µg/L	--	--	--	--
Zinc	µg/L	--	--	--	--

Table 2

Analytical Results Summary
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Location ID:		MW-19R	MW-19R	MW-36D	MW-36S
Sample Name:		GW-11222397-111523-ZB-10	GW-11222397-111523-ZB-11	GW-11222397-111423-ZB-05	GW-11222397-111423-ES-02
Sample Date:		11/15/2023	11/15/2023 Duplicate	11/14/2023	11/14/2023
Parameters	Unit				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.37 U	0.37 U	0.37 UJ	0.37 UJ
1,1,2-Trichloroethane	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
1,1-Dichloroethane	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
1,1-Dichloroethene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
1,2,4-Trichlorobenzene	µg/L	0.37 U	0.37 U	0.37 U	0.37 U
1,2,4-Trimethylbenzene	µg/L	5.7	5.4	69	89
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.38 U	0.38 U	0.38 U	0.38 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,2-Dichloroethane	µg/L	0.43 U	0.43 U	0.43 U	2.4
1,2-Dichloropropane	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
1,3-Dichlorobenzene	µg/L	0.34 U	0.34 U	0.34 U	0.34 U
1,4-Dichlorobenzene	µg/L	0.33 U	0.33 U	0.33 U	0.33 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.0	5.9	26	22
2-Hexanone	µg/L	1.1 U	1.1 U	1.1 U	1.1 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	1.3 J	1.5 J	1.3 U	1.3 U
Acetone	µg/L	29	28	50	47
Benzene	µg/L	0.20 U	0.20 U	20	96
Bromodichloromethane	µg/L	0.34 U	0.34 U	0.34 U	0.34 U
Bromoform	µg/L	0.54 U	0.54 U	0.54 U	0.54 U
Bromomethane (Methyl bromide)	µg/L	0.55 U	0.55 U	0.55 U	0.55 U
Carbon disulfide	µg/L	19 J	19	0.82 UJ	0.82 UJ
Carbon tetrachloride	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Chlorobenzene	µg/L	0.38 U	0.38 U	0.38 U	0.38 U
Chloroethane	µg/L	0.32 U	0.32 U	0.32 U	0.32 U

Table 2

Analytical Results Summary
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Location ID:		MW-19R	MW-19R	MW-36D	MW-36S
Sample Name:		GW-11222397-111523-ZB-10	GW-11222397-111523-ZB-11	GW-11222397-111423-ZB-05	GW-11222397-111423-ES-02
Sample Date:		11/15/2023	11/15/2023 Duplicate	11/14/2023	11/14/2023
Parameters	Unit				
Volatile Organic Compounds (Continued)					
Chloroform (Trichloromethane)	µg/L	0.33 U	0.33 U	0.33 U	0.33 U
Chloromethane (Methyl chloride)	µg/L	0.40 UJ	0.40 U	0.40 U	0.40 U
cis-1,2-Dichloroethene	µg/L	1.4	1.3	0.22 U	0.22 U
cis-1,3-Dichloropropene	µg/L	0.22 U	0.22 U	0.22 U	0.22 U
Cyclohexane	µg/L	0.32 U	0.32 U	170	120
Dibromochloromethane	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Ethylbenzene	µg/L	2.2	2.3	200	320
Isopropyl benzene	µg/L	0.34 U	0.34 U	21	8.3
Methyl acetate	µg/L	0.79 U	0.79 U	0.79 UJ	0.79 UJ
Methyl cyclohexane	µg/L	0.71 U	0.71 U	88	29
Methyl tert butyl ether (MTBE)	µg/L	0.22 U	0.22 U	0.22 U	0.22 U
Methylene chloride	µg/L	0.38 J	0.37 J	0.32 U	0.32 U
Styrene	µg/L	1.3	1.5	0.42 U	0.42 U
Tetrachloroethene	µg/L	0.40 J	0.39 J	0.25 U	0.25 U
Toluene	µg/L	1.3	1.3	28	26
trans-1,2-Dichloroethene	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
trans-1,3-Dichloropropene	µg/L	0.22 U	0.22 U	0.22 U	0.22 U
Trichloroethene	µg/L	0.31 J	0.31 U	0.31 U	0.31 U
Trichlorofluoromethane (CFC-11)	µg/L	1.8	1.6	0.32 U	0.32 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Vinyl chloride	µg/L	0.87 J	0.85 J	0.17 U	0.17 U
Xylenes (total)	µg/L	13	13	500	290

Table 2

Analytical Results Summary
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Location ID:		MW-19R	MW-19R	MW-36D	MW-36S
Sample Name:		GW-11222397-111523-ZB-10	GW-11222397-111523-ZB-11	GW-11222397-111423-ZB-05	GW-11222397-111423-ES-02
Sample Date:		11/15/2023	11/15/2023 Duplicate	11/14/2023	11/14/2023
Parameters	Unit				
Semi-volatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	0.63 U	0.63 U
2,4,5-Trichlorophenol	µg/L	--	--	0.88 U	0.88 U
2,4,6-Trichlorophenol	µg/L	--	--	0.86 U	0.86 U
2,4-Dichlorophenol	µg/L	--	--	1.1 U	1.1 U
2,4-Dimethylphenol	µg/L	--	--	3.1 J	7.8 J
2,4-Dinitrophenol	µg/L	--	--	2.6 UJ	2.6 UJ
2,4-Dinitrotoluene	µg/L	--	--	1.0 U	1.0 U
2,6-Dinitrotoluene	µg/L	--	--	0.83 U	0.83 U
2-Chloronaphthalene	µg/L	--	--	1.2 U	1.2 U
2-Chlorophenol	µg/L	--	--	0.38 U	0.38 U
2-Methylnaphthalene	µg/L	--	--	13	34
2-Methylphenol	µg/L	--	--	0.67 U	4.0 J
2-Nitroaniline	µg/L	--	--	0.47 U	0.47 U
2-Nitrophenol	µg/L	--	--	0.75 U	0.75 U
3,3'-Dichlorobenzidine	µg/L	--	--	1.4 U	1.4 U
3-Nitroaniline	µg/L	--	--	1.9 U	1.9 U
4,6-Dinitro-2-methylphenol	µg/L	--	--	3.0 U	3.0 U
4-Bromophenyl phenyl ether	µg/L	--	--	0.75 U	0.75 U
4-Chloro-3-methylphenol	µg/L	--	--	0.58 U	0.58 U
4-Chlorophenyl phenyl ether	µg/L	--	--	1.3 U	1.3 U
4-Methylphenol	µg/L	--	--	0.65 U	0.65 U
4-Nitroaniline	µg/L	--	--	1.2 U	1.2 U
4-Nitrophenol	µg/L	--	--	4.0 U	4.0 U
Acenaphthene	µg/L	--	--	1.1 U	1.1 U
Acenaphthylene	µg/L	--	--	0.82 U	0.82 U
Acetophenone	µg/L	--	--	11	2.3 U

Table 2

Analytical Results Summary
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Location ID:	MW-19R	MW-19R	MW-36D	MW-36S
Sample Name:	GW-11222397-111523-ZB-10	GW-11222397-111523-ZB-11	GW-11222397-111423-ZB-05	GW-11222397-111423-ES-02
Sample Date:	11/15/2023	11/15/2023 Duplicate	11/14/2023	11/14/2023
Parameters	Unit			
Semi-volatile Organic Compounds (Continued)				
Anthracene	µg/L	--	1.3 U	1.3 U
Atrazine	µg/L	--	1.3 U	1.3 U
Benzaldehyde	µg/L	--	2.1 UJ	2.1 UJ
Benzo(a)anthracene	µg/L	--	0.59 U	0.59 U
Benzo(a)pyrene	µg/L	--	0.41 UJ	0.41 UJ
Benzo(b)fluoranthene	µg/L	--	0.68 U	0.68 U
Benzo(g,h,i)perylene	µg/L	--	0.70 U	0.70 U
Benzo(k)fluoranthene	µg/L	--	0.67 U	0.67 U
Biphenyl (1,1-Biphenyl)	µg/L	--	1.2 U	2.4 J
bis(2-Chloroethoxy)methane	µg/L	--	0.59 U	0.59 U
bis(2-Chloroethyl)ether	µg/L	--	0.63 U	0.63 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	0.80 UJ	0.80 UJ
Butyl benzylphthalate (BBP)	µg/L	--	0.85 U	0.85 U
Caprolactam	µg/L	--	2.2 U	2.2 U
Carbazole	µg/L	--	0.68 U	0.68 U
Chrysene	µg/L	--	0.91 U	0.91 U
Di-n-butylphthalate (DBP)	µg/L	--	0.84 U	0.84 U
Di-n-octyl phthalate (DnOP)	µg/L	--	0.75 U	0.75 U
Dibenz(a,h)anthracene	µg/L	--	0.72 U	0.72 U
Dibenzofuran	µg/L	--	1.1 U	1.1 U
Diethyl phthalate	µg/L	--	0.98 U	1.2 J
Dimethyl phthalate	µg/L	--	0.77 U	0.77 U
Fluoranthene	µg/L	--	0.84 U	0.84 U
Fluorene	µg/L	--	0.91 U	1.0 J
Hexachlorobenzene	µg/L	--	0.40 U	0.40 U
Hexachlorobutadiene	µg/L	--	0.78 U	0.78 U

Table 2

Analytical Results Summary
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Location ID:		MW-19R	MW-19R	MW-36D	MW-36S
Sample Name:		GW-11222397-111523-ZB-10	GW-11222397-111523-ZB-11	GW-11222397-111423-ZB-05	GW-11222397-111423-ES-02
Sample Date:		11/15/2023	11/15/2023 Duplicate	11/14/2023	11/14/2023
Parameters	Unit				
Semi-volatile Organic Compounds (Continued)					
Hexachlorocyclopentadiene	µg/L	--	--	3.6 U	3.6 U
Hexachloroethane	µg/L	--	--	0.80 U	0.80 U
Indeno(1,2,3-cd)pyrene	µg/L	--	--	0.94 U	0.94 U
Isophorone	µg/L	--	--	0.80 U	0.80 U
N-Nitrosodi-n-propylamine	µg/L	--	--	0.43 U	0.43 U
N-Nitrosodiphenylamine	µg/L	--	--	0.89 U	0.89 U
Naphthalene	µg/L	--	--	40	77
Nitrobenzene	µg/L	--	--	0.57 U	0.57 U
Pentachlorophenol	µg/L	--	--	1.4 U	1.4 U
Phenanthrene	µg/L	--	--	1.3 U	1.3 U
Phenol	µg/L	--	--	0.29 U	0.29 U
Pyrene	µg/L	--	--	1.6 U	1.6 U
Metals					
Aluminum	µg/L	--	--	--	--
Antimony	µg/L	--	--	--	--
Arsenic	µg/L	--	--	--	--
Barium	µg/L	--	--	--	--
Beryllium	µg/L	--	--	--	--
Cadmium	µg/L	--	--	--	--
Calcium	µg/L	--	--	--	--
Chromium	µg/L	--	--	--	--
Cobalt	µg/L	--	--	--	--
Copper	µg/L	--	--	--	--
Iron	µg/L	--	--	--	--
Lead	µg/L	--	--	--	--

Table 2

Analytical Results Summary
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Location ID:	MW-19R	MW-19R	MW-36D	MW-36S
Sample Name:	GW-11222397-111523-ZB-10	GW-11222397-111523-ZB-11	GW-11222397-111423-ZB-05	GW-11222397-111423-ES-02
Sample Date:	11/15/2023	11/15/2023	11/14/2023	11/14/2023
		Duplicate		

Parameters	Unit				
Metals (Continued)					
Magnesium	µg/L	--	--	--	--
Manganese	µg/L	--	--	--	--
Manganese (dissolved)	µg/L	--	--	--	--
Mercury	µg/L	--	--	--	--
Nickel	µg/L	--	--	--	--
Potassium	µg/L	--	--	--	--
Selenium	µg/L	--	--	--	--
Silver	µg/L	--	--	--	--
Sodium	µg/L	--	--	--	--
Thallium	µg/L	--	--	--	--
Vanadium	µg/L	--	--	--	--
Zinc	µg/L	--	--	--	--

Table 2

Analytical Results Summary
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Location ID:	MW-36S	MW-48R	MW-50R	MW-109R
Sample Name:	GW-11222397-111423-ES-03	GW-11222397-111623-ZB-15	GW-11222397-111423-ZB-04	GW-11222397-111623-CT-16
Sample Date:	11/14/2023	11/16/2023	11/14/2023	11/16/2023
	Duplicate			

Parameters	Unit				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	--	--	1.2 U	--
1,1,2,2-Tetrachloroethane	µg/L	--	--	1.8 UJ	--
1,1,2-Trichloroethane	µg/L	--	--	1.0 U	--
1,1-Dichloroethane	µg/L	--	--	1.3 U	--
1,1-Dichloroethene	µg/L	--	--	1.3 U	--
1,2,4-Trichlorobenzene	µg/L	--	--	1.8 U	--
1,2,4-Trimethylbenzene	µg/L	--	--	36	--
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	--	--	1.9 U	--
1,2-Dibromoethane (Ethylene dibromide)	µg/L	--	--	2.5 U	--
1,2-Dichlorobenzene	µg/L	--	--	1.1 U	--
1,2-Dichloroethane	µg/L	--	--	20	--
1,2-Dichloropropane	µg/L	--	--	1.8 U	--
1,3-Dichlorobenzene	µg/L	--	--	1.7 U	--
1,4-Dichlorobenzene	µg/L	--	--	1.7 U	--
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	--	--	9.3 U	--
2-Hexanone	µg/L	--	--	5.7 U	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	--	--	6.5 U	--
Acetone	µg/L	--	--	22 U	--
Benzene	µg/L	--	0.20 U	970	--
Bromodichloromethane	µg/L	--	--	1.7 U	--
Bromoform	µg/L	--	--	2.7 U	--
Bromomethane (Methyl bromide)	µg/L	--	--	2.8 U	--
Carbon disulfide	µg/L	--	--	4.1 UJ	--
Carbon tetrachloride	µg/L	--	--	1.0 U	--
Chlorobenzene	µg/L	--	--	1.9 U	--
Chloroethane	µg/L	--	--	1.6 U	--

Table 2

Analytical Results Summary
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Location ID:	MW-36S	MW-48R	MW-50R	MW-109R
Sample Name:	GW-11222397-111423-ES-03	GW-11222397-111623-ZB-15	GW-11222397-111423-ZB-04	GW-11222397-111623-CT-16
Sample Date:	11/14/2023	11/16/2023	11/14/2023	11/16/2023
	Duplicate			

Parameters	Unit				
Volatile Organic Compounds (Continued)					
Chloroform (Trichloromethane)	µg/L	--	--	1.6 U	--
Chloromethane (Methyl chloride)	µg/L	--	--	2.0 U	--
cis-1,2-Dichloroethene	µg/L	--	--	1.8 J	--
cis-1,3-Dichloropropene	µg/L	--	--	1.1 U	--
Cyclohexane	µg/L	--	--	250	--
Dibromochloromethane	µg/L	--	--	1.4 U	--
Dichlorodifluoromethane (CFC-12)	µg/L	--	--	1.6 U	--
Ethylbenzene	µg/L	--	--	550	--
Isopropyl benzene	µg/L	--	--	37	--
Methyl acetate	µg/L	--	--	3.9 UJ	--
Methyl cyclohexane	µg/L	--	--	86	--
Methyl tert butyl ether (MTBE)	µg/L	--	--	1.1 U	--
Methylene chloride	µg/L	--	--	1.6 U	--
Styrene	µg/L	--	--	2.1 U	--
Tetrachloroethene	µg/L	--	--	1.2 U	--
Toluene	µg/L	--	--	210	--
trans-1,2-Dichloroethene	µg/L	--	--	1.2 U	--
trans-1,3-Dichloropropene	µg/L	--	--	1.1 U	--
Trichloroethene	µg/L	--	0.60 J	1.6 U	--
Trichlorofluoromethane (CFC-11)	µg/L	--	--	1.6 U	--
Trifluorotrichloroethane (CFC-113)	µg/L	--	--	1.6 U	--
Vinyl chloride	µg/L	--	--	0.86 U	--
Xylenes (total)	µg/L	--	--	270	--

Table 2

Analytical Results Summary
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Location ID:		MW-36S	MW-48R	MW-50R	MW-109R
Sample Name:		GW-11222397-111423-ES-03	GW-11222397-111623-ZB-15	GW-11222397-111423-ZB-04	GW-11222397-111623-CT-16
Sample Date:		11/14/2023	11/16/2023	11/14/2023	11/16/2023
		Duplicate			
Parameters	Unit				
Semi-volatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	0.63 U	--	0.63 U	--
2,4,5-Trichlorophenol	µg/L	0.88 U	--	0.88 U	--
2,4,6-Trichlorophenol	µg/L	0.86 U	--	0.86 U	--
2,4-Dichlorophenol	µg/L	1.1 U	--	1.1 U	--
2,4-Dimethylphenol	µg/L	8.2 J	--	3.0 J	--
2,4-Dinitrophenol	µg/L	2.6 U	--	2.6 UJ	--
2,4-Dinitrotoluene	µg/L	1.0 U	--	1.0 U	--
2,6-Dinitrotoluene	µg/L	0.83 U	--	0.83 U	--
2-Chloronaphthalene	µg/L	1.2 U	--	1.2 U	--
2-Chlorophenol	µg/L	0.38 U	--	0.38 U	--
2-Methylnaphthalene	µg/L	36	--	1.1 J	--
2-Methylphenol	µg/L	4.4 J	--	0.67 U	--
2-Nitroaniline	µg/L	0.47 U	--	0.47 U	--
2-Nitrophenol	µg/L	0.75 U	--	0.75 U	--
3,3'-Dichlorobenzidine	µg/L	1.4 U	--	1.4 U	--
3-Nitroaniline	µg/L	1.9 U	--	1.9 U	--
4,6-Dinitro-2-methylphenol	µg/L	3.0 U	--	3.0 U	--
4-Bromophenyl phenyl ether	µg/L	0.75 U	--	0.75 U	--
4-Chloro-3-methylphenol	µg/L	0.58 U	--	0.58 U	--
4-Chlorophenyl phenyl ether	µg/L	1.3 U	--	1.3 U	--
4-Methylphenol	µg/L	0.65 U	--	0.65 J	--
4-Nitroaniline	µg/L	1.2 U	--	1.2 U	--
4-Nitrophenol	µg/L	4.0 U	--	4.0 U	--
Acenaphthene	µg/L	1.1 U	--	1.1 U	--
Acenaphthylene	µg/L	0.82 U	--	0.82 U	--
Acetophenone	µg/L	2.3 U	--	2.3 U	--

Table 2

Analytical Results Summary
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Location ID:		MW-36S	MW-48R	MW-50R	MW-109R
Sample Name:		GW-11222397-111423-ES-03	GW-11222397-111623-ZB-15	GW-11222397-111423-ZB-04	GW-11222397-111623-CT-16
Sample Date:		11/14/2023	11/16/2023	11/14/2023	11/16/2023
		Duplicate			
Parameters	Unit				
Semi-volatile Organic Compounds (Continued)					
Anthracene	µg/L	1.3 U	--	1.3 U	--
Atrazine	µg/L	1.3 U	--	1.3 U	--
Benzaldehyde	µg/L	2.1 U	--	2.1 UJ	--
Benzo(a)anthracene	µg/L	0.59 U	--	0.59 U	--
Benzo(a)pyrene	µg/L	0.41 U	--	0.41 UJ	--
Benzo(b)fluoranthene	µg/L	0.68 U	--	0.68 U	--
Benzo(g,h,i)perylene	µg/L	0.70 U	--	0.70 U	--
Benzo(k)fluoranthene	µg/L	0.67 U	--	0.67 U	--
Biphenyl (1,1-Biphenyl)	µg/L	2.6 J	--	1.2 U	--
bis(2-Chloroethoxy)methane	µg/L	0.59 U	--	0.59 U	--
bis(2-Chloroethyl)ether	µg/L	0.63 U	--	0.63 U	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	0.80 U	--	0.80 UJ	--
Butyl benzylphthalate (BBP)	µg/L	0.85 U	--	0.85 U	--
Caprolactam	µg/L	2.2 U	--	2.2 U	--
Carbazole	µg/L	0.68 U	--	0.68 U	--
Chrysene	µg/L	0.91 U	--	0.91 U	--
Di-n-butylphthalate (DBP)	µg/L	0.84 U	--	0.84 U	--
Di-n-octyl phthalate (DnOP)	µg/L	0.75 U	--	0.75 U	--
Dibenz(a,h)anthracene	µg/L	0.72 U	--	0.72 U	--
Dibenzofuran	µg/L	1.1 U	--	1.1 U	--
Diethyl phthalate	µg/L	1.2 J	--	0.98 U	--
Dimethyl phthalate	µg/L	0.77 U	--	0.77 U	--
Fluoranthene	µg/L	0.84 U	--	0.84 U	--
Fluorene	µg/L	1.1 J	--	0.91 U	--
Hexachlorobenzene	µg/L	0.40 U	--	0.40 U	--
Hexachlorobutadiene	µg/L	0.78 U	--	0.78 U	--

Table 2

Analytical Results Summary
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Location ID:		MW-36S	MW-48R	MW-50R	MW-109R
Sample Name:		GW-11222397-111423-ES-03	GW-11222397-111623-ZB-15	GW-11222397-111423-ZB-04	GW-11222397-111623-CT-16
Sample Date:		11/14/2023	11/16/2023	11/14/2023	11/16/2023
		Duplicate			
Parameters	Unit				
Semi-volatile Organic Compounds (Continued)					
Hexachlorocyclopentadiene	µg/L	3.6 U	--	3.6 U	--
Hexachloroethane	µg/L	0.80 U	--	0.80 U	--
Indeno(1,2,3-cd)pyrene	µg/L	0.94 U	--	0.94 U	--
Isophorone	µg/L	0.80 U	--	0.80 U	--
N-Nitrosodi-n-propylamine	µg/L	0.43 U	--	0.43 U	--
N-Nitrosodiphenylamine	µg/L	0.89 U	--	0.89 U	--
Naphthalene	µg/L	81	--	30	--
Nitrobenzene	µg/L	0.57 U	--	0.57 U	--
Pentachlorophenol	µg/L	1.4 U	--	1.4 U	--
Phenanthrene	µg/L	1.3 U	--	1.3 U	--
Phenol	µg/L	0.29 U	--	4.2 J	--
Pyrene	µg/L	1.6 U	--	1.6 U	--
Metals					
Aluminum	µg/L	--	2550	--	231 J
Antimony	µg/L	--	0.92 J	--	0.82 J
Arsenic	µg/L	--	0.89 U	--	0.89 U
Barium	µg/L	--	177	--	157
Beryllium	µg/L	--	0.14 J	--	0.13 U
Cadmium	µg/L	--	0.39 U	--	0.39 U
Calcium	µg/L	--	30600	--	61800
Chromium	µg/L	--	10.7	--	2.5 UJ
Cobalt	µg/L	--	6.7	--	0.86 J
Copper	µg/L	--	2.5 U	--	2.5 U
Iron	µg/L	--	3300	--	1330 J
Lead	µg/L	--	13.7	--	0.84 UJ

Table 2

Analytical Results Summary
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Location ID:	MW-36S	MW-48R	MW-50R	MW-109R
Sample Name:	GW-11222397-111423-ES-03	GW-11222397-111623-ZB-15	GW-11222397-111423-ZB-04	GW-11222397-111623-CT-16
Sample Date:	11/14/2023	11/16/2023	11/14/2023	11/16/2023
	Duplicate			

Parameters	Unit				
Metals (Continued)					
Magnesium	µg/L	--	31500	--	16800
Manganese	µg/L	--	5410	--	21.9 J
Manganese (dissolved)	µg/L	--	5440	--	24.6
Mercury	µg/L	--	0.091 U	--	0.091 U
Nickel	µg/L	--	0.91 U	--	0.91 U
Potassium	µg/L	--	3730	--	10200
Selenium	µg/L	--	0.61 J	--	0.59 U
Silver	µg/L	--	0.29 U	--	0.29 U
Sodium	µg/L	--	120000	--	34300
Thallium	µg/L	--	0.21 U	--	0.21 U
Vanadium	µg/L	--	11.3	--	4.0 J
Zinc	µg/L	--	24.3	--	10.8 J

Table 2

Analytical Results Summary
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Location ID:		MW-109R	MW-112	MW-113R
Sample Name:		GW-11222397-111623-CT-17	GW-11222397-111523-ZB-14	GW-11222397-111623-ZB-18
Sample Date:		11/16/2023	11/15/2023	11/16/2023
		Duplicate		
Parameters	Unit			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/L	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	--	--	--
1,1,2-Trichloroethane	µg/L	--	--	--
1,1-Dichloroethane	µg/L	--	--	--
1,1-Dichloroethene	µg/L	--	--	--
1,2,4-Trichlorobenzene	µg/L	--	--	--
1,2,4-Trimethylbenzene	µg/L	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	--	--	--
1,2-Dibromoethane (Ethylene dibromide)	µg/L	--	--	--
1,2-Dichlorobenzene	µg/L	--	--	--
1,2-Dichloroethane	µg/L	--	--	--
1,2-Dichloropropane	µg/L	--	--	--
1,3-Dichlorobenzene	µg/L	--	--	--
1,4-Dichlorobenzene	µg/L	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	--	--	--
2-Hexanone	µg/L	--	--	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	--	--	--
Acetone	µg/L	--	--	--
Benzene	µg/L	--	--	--
Bromodichloromethane	µg/L	--	--	--
Bromoform	µg/L	--	--	--
Bromomethane (Methyl bromide)	µg/L	--	--	--
Carbon disulfide	µg/L	--	--	--
Carbon tetrachloride	µg/L	--	--	--
Chlorobenzene	µg/L	--	--	--
Chloroethane	µg/L	--	--	--

Table 2

Analytical Results Summary
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Location ID:		MW-109R	MW-112	MW-113R
Sample Name:		GW-11222397-111623-CT-17	GW-11222397-111523-ZB-14	GW-11222397-111623-ZB-18
Sample Date:		11/16/2023	11/15/2023	11/16/2023
		Duplicate		
Parameters	Unit			
Volatile Organic Compounds (Continued)				
Chloroform (Trichloromethane)	µg/L	--	--	--
Chloromethane (Methyl chloride)	µg/L	--	--	--
cis-1,2-Dichloroethene	µg/L	--	--	--
cis-1,3-Dichloropropene	µg/L	--	--	--
Cyclohexane	µg/L	--	--	--
Dibromochloromethane	µg/L	--	--	--
Dichlorodifluoromethane (CFC-12)	µg/L	--	--	--
Ethylbenzene	µg/L	--	--	--
Isopropyl benzene	µg/L	--	--	--
Methyl acetate	µg/L	--	--	--
Methyl cyclohexane	µg/L	--	--	--
Methyl tert butyl ether (MTBE)	µg/L	--	--	--
Methylene chloride	µg/L	--	--	--
Styrene	µg/L	--	--	--
Tetrachloroethene	µg/L	--	--	--
Toluene	µg/L	--	--	--
trans-1,2-Dichloroethene	µg/L	--	--	--
trans-1,3-Dichloropropene	µg/L	--	--	--
Trichloroethene	µg/L	--	--	--
Trichlorofluoromethane (CFC-11)	µg/L	--	--	--
Trifluorotrichloroethane (CFC-113)	µg/L	--	--	--
Vinyl chloride	µg/L	--	--	--
Xylenes (total)	µg/L	--	--	--

Table 2

Analytical Results Summary
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Location ID:		MW-109R	MW-112	MW-113R
Sample Name:		GW-11222397-111623-CT-17	GW-11222397-111523-ZB-14	GW-11222397-111623-ZB-18
Sample Date:		11/16/2023	11/15/2023	11/16/2023
		Duplicate		
Parameters	Unit			
Semi-volatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--
2-Chloronaphthalene	µg/L	--	--	--
2-Chlorophenol	µg/L	--	--	--
2-Methylnaphthalene	µg/L	--	--	--
2-Methylphenol	µg/L	--	--	--
2-Nitroaniline	µg/L	--	--	--
2-Nitrophenol	µg/L	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--
3-Nitroaniline	µg/L	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--
4-Methylphenol	µg/L	--	--	--
4-Nitroaniline	µg/L	--	--	--
4-Nitrophenol	µg/L	--	--	--
Acenaphthene	µg/L	--	--	--
Acenaphthylene	µg/L	--	--	--
Acetophenone	µg/L	--	--	--

Table 2

Analytical Results Summary
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Location ID:		MW-109R	MW-112	MW-113R
Sample Name:		GW-11222397-111623-CT-17	GW-11222397-111523-ZB-14	GW-11222397-111623-ZB-18
Sample Date:		11/16/2023	11/15/2023	11/16/2023
		Duplicate		
Parameters	Unit			
Semi-volatile Organic Compounds (Continued)				
Anthracene	µg/L	--	--	--
Atrazine	µg/L	--	--	--
Benzaldehyde	µg/L	--	--	--
Benzo(a)anthracene	µg/L	--	--	--
Benzo(a)pyrene	µg/L	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--
Biphenyl (1,1'-Biphenyl)	µg/L	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--
Caprolactam	µg/L	--	--	--
Carbazole	µg/L	--	--	--
Chrysene	µg/L	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--
Dibenzofuran	µg/L	--	--	--
Diethyl phthalate	µg/L	--	--	--
Dimethyl phthalate	µg/L	--	--	--
Fluoranthene	µg/L	--	--	--
Fluorene	µg/L	--	--	--
Hexachlorobenzene	µg/L	--	--	--
Hexachlorobutadiene	µg/L	--	--	--

Table 2

Analytical Results Summary
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Location ID:		MW-109R	MW-112	MW-113R
Sample Name:		GW-11222397-111623-CT-17	GW-11222397-111523-ZB-14	GW-11222397-111623-ZB-18
Sample Date:		11/16/2023	11/15/2023	11/16/2023
		Duplicate		
Parameters	Unit			
Semi-volatile Organic Compounds (Continued)				
Hexachlorocyclopentadiene	µg/L	--	--	--
Hexachloroethane	µg/L	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--
Isophorone	µg/L	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--
Naphthalene	µg/L	--	--	--
Nitrobenzene	µg/L	--	--	--
Pentachlorophenol	µg/L	--	--	--
Phenanthrene	µg/L	--	--	--
Phenol	µg/L	--	--	--
Pyrene	µg/L	--	--	--
Metals				
Aluminum	µg/L	2160 J	32100	539
Antimony	µg/L	1.0 J	2.4 J	0.76 U
Arsenic	µg/L	0.89 U	5.3	0.89 U
Barium	µg/L	177	337 J	221
Beryllium	µg/L	0.13 J	2.6	0.13 U
Cadmium	µg/L	0.39 U	0.39 U	0.39 U
Calcium	µg/L	63200	34900	32100
Chromium	µg/L	10.4 J	57.7	2.5 U
Cobalt	µg/L	2.5 J	22.5	12.7
Copper	µg/L	18.3 J	2.5 U	2.5 U
Iron	µg/L	4700 J	39800	406
Lead	µg/L	5.7 J	76.9 J	0.84 U

Table 2

Analytical Results Summary
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Location ID:		MW-109R	MW-112	MW-113R
Sample Name:		GW-11222397-111623-CT-17	GW-11222397-111523-ZB-14	GW-11222397-111623-ZB-18
Sample Date:		11/16/2023	11/15/2023	11/16/2023
		Duplicate		
Parameters	Unit			
Metals (Continued)				
Magnesium	µg/L	17500	24600	28400
Manganese	µg/L	73.0 J	617	3270
Manganese (dissolved)	µg/L	32.0	439	3060
Mercury	µg/L	0.091 U	0.091 U	0.091 U
Nickel	µg/L	5.8	0.91 U	0.91 U
Potassium	µg/L	10500	9200	5580
Selenium	µg/L	0.59 U	0.72 J	0.59 U
Silver	µg/L	0.29 U	1.0 J	0.29 U
Sodium	µg/L	35500	84400	70600
Thallium	µg/L	0.21 U	0.21 UJ	0.21 U
Vanadium	µg/L	11.6 J	99.7	1.9 J
Zinc	µg/L	19.1 J	196	6.5 U

Notes

"--" - Not Applicable

U - Not detected at the associated reporting limit

J - Estimated concentration

UJ - Not detected; associated reporting limit is estimated

Table 3

Analytical Methods
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Parameter	Method	Matrix	Holding Time	
			Collection to Extraction (Days)	Collection or Extraction to Analysis (Days)
VOCs	SW-846 8260B	Water	-	14
SVOCs	SW8270	Water	7	40
Metals	SW-846 6020	Water	-	180
Mercury	SW7470	Water	-	28

Notes:

- "-" - Not Applicable
VOCs - Volatile Organic Compounds
SVOCs - Semi-volatile Organic Compounds

Method References:

- SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846,
Third Edition, 1986, with subsequent revisions

Table 4

Qualified Sample Data Due to Outlying Calibration Criteria
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Parameter	Calibration		Analyte	%D	Control Limits		Associated Sample ID	Qualified	
	Date (mm/dd/yyyy)	Calibration ID (ICV or CCV)			%D			Result	Units
VOCs	11/20/2023	ICV 460-945528/18	Carbon disulfide	32.5	20	GW-11222397-111523-ZB-10	19 J	µg/L	
						GW-11222397-111523-ZB-12	1.0 UJ	µg/L	
						GW-11222397-111423-ES-02	1.0 UJ	µg/L	
						GW-11222397-111423-ZB-04	5.0 UJ	µg/L	
						GW-11222397-111423-ZB-05	1.0 UJ	µg/L	
						GW-11222397-111523-CT-06	1.0 UJ	µg/L	
						GW-11222397-111523-CT-07	1.0 UJ	µg/L	
						GW-11222397-111523-ZB-09	1.0 UJ	µg/L	
	11/27/2023	CCVIS 460-946776/4	1,1,2,2-Tetrachloroethane	26.7	20	GW-11222397-111423-ES-02	1.0 UJ	µg/L	
						GW-11222397-111423-ZB-04	5.0 UJ	µg/L	
						GW-11222397-111423-ZB-05	1.0 UJ	µg/L	
			Methyl acetate	36.9	20	GW-11222397-111423-ES-02	5.0 UJ	µg/L	
						GW-11222397-111423-ZB-04	25 UJ	µg/L	
						GW-11222397-111423-ZB-05	5.0 UJ	µg/L	
11/28/2023	CCVIS 460-946954/4	Chloromethane (Methyl chloride)	26.9	20	GW-11222397-111523-ZB-10	1.0 UJ	µg/L		
					GW-11222397-111523-ZB-12	1.0 UJ	µg/L		
VOCs	11/28/2023	CCVIS 460-946954/4	Chloromethane (Methyl chloride)	26.9	20	GW-11222397-111523-CT-07	1.0 UJ	µg/L	

Table 4

Qualified Sample Data Due to Outlying Calibration Criteria
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Parameter	Calibration	Calibration ID (ICV or CCV)	Analyte	%D	Control Limits	Associated Sample ID	Qualified	Units			
	Date (mm/dd/yyyy)				%D		Result				
SVOCs	11/29/2023	CCVIS 460-947050/5	Methyl acetate	41.9	20	GW-11222397-111523-ZB-09	1.0 UJ	µg/L			
						GW-11222397-111523-CT-06	5 UJ	µg/L			
	08/24/2023	ICV 460-928167/11	Benzo(a)pyrene	26.6	20	GW-11222397-111423-ES-02	1.0 UJ	µg/L			
						GW-11222397-111423-ZB-04	1.0 UJ	µg/L			
						GW-11222397-111423-ZB-05	1.0 UJ	µg/L			
						GW-11222397-111523-CT-06	1.0 UJ	µg/L			
						GW-11222397-111523-CT-07	1.0 UJ	µg/L			
						bis(2-Ethylhexyl)phthalate (DEHP)	24.8	20	GW-11222397-111423-ES-02	2.0 UJ	µg/L
						GW-11222397-111423-ZB-04	2.0 UJ	µg/L			
						GW-11222397-111423-ZB-05	2.0 UJ	µg/L			
						GW-11222397-111523-CT-06	2.0 UJ	µg/L			
						GW-11222397-111523-CT-07	2.0 UJ	µg/L			
SVOCs	11/20/2023	CCVIS 460-945850/2	2,4-Dinitrophenol	34.6	20	GW-11222397-111423-ES-02	40 UJ	µg/L			
						GW-11222397-111423-ZB-04	40 UJ	µg/L			
	11/20/2023	CCVIS 460-945850/2	2,4-Dinitrophenol	34.6	20	GW-11222397-111423-ZB-05	40 UJ	µg/L			
						GW-11222397-111523-CT-06	40 UJ	µg/L			

Table 4

Qualified Sample Data Due to Outlying Calibration Criteria
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Parameter	Calibration	Calibration ID (ICV or CCV)	Analyte	%D	<u>Control Limits</u>	Associated Sample ID	Qualified	Units
	Date (mm/dd/yyyy)				%D		Result	
			Benzaldehyde	56.2	20	GW-11222397-111523-CT-07	40 UJ	µg/L
						GW-11222397-111423-ES-02	10 UJ	µg/L
						GW-11222397-111423-ZB-04	10 UJ	µg/L
						GW-11222397-111423-ZB-05	10 UJ	µg/L
						GW-11222397-111523-CT-06	10 UJ	µg/L
						GW-11222397-111523-CT-07	10 UJ	µg/L

Notes:

CCV	- Continuing calibration verification
ICV	- Initial calibration verification
VOCs	- Volatile Organic Compounds
SVOCs	- Semi-volatile Organic Compounds
%D	- Percent difference
J	- Estimated concentration
UJ	- Not detected; associated reporting limit is estimated

Table 5

Qualified Sample Results Due to Outlying MS/MSD Results
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Parameter	Sample ID	Analyte	MS	MSD	RPD	Control Limits		Qualified Result	Units
			% Recovery	% Recovery		% Recovery	RPD		
					(percent)				
Metals	GW-11222397-111523-ZB-14	Antimony	65	64	2	75 - 125	20	2.4 J	µg/L
	GW-11222397-111523-ZB-14	Barium	51	57	11	75 - 125	20	337 J	µg/L
	GW-11222397-111523-ZB-14	Lead	61	62	2	75 - 125	20	76.9 J	µg/L
	GW-11222397-111523-ZB-14	Thallium	19	19	0	75 - 125	20	0.21 UJ	µg/L
SVOCs	GW-11222397-111523-CT-07	Acetophenone	123	122	1	62 - 120	30	7.4 J	µg/L

Notes:

- MS - Matrix Spike
- MSD - Matrix Spike Duplicate
- RPD - Relative Percent Difference
- SVOCs - Semi-volatile Organic Compounds
- J - Estimated concentration
- UJ - Not detected; associated reporting limit is estimated

Table 6

Qualified Sample Data Due to Analyte Concentrations in the Rinse Blanks
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Sample Delivery Group	Parameter	Rinse Blank ID	Blank Date (mm/dd/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
4602929241	Metals	RB-11222397-111523-ZB-13	11/15/2023	Copper	46.9	GW-11222397-111523-ZB-14	50.4	50.4 U	µg/L
						GW-11222397-111623-CT-16	10.2	10.2 U	µg/L
						GW-11222397-111623-ZB-15	11.3	11.3 U	µg/L
	Nickel			100	GW-11222397-111523-ZB-14	39.3	39.3 U	µg/L	
					GW-11222397-111623-CT-16	3.3 J	4.0 U	µg/L	
					GW-11222397-111623-ZB-15	8.9	8.9 U	µg/L	
					GW-11222397-111623-ZB-18	5.6	5.6 U	µg/L	

Notes:

- U - Not detected at the associated reporting limit
J - Estimated concentration

Table 7

Qualified Sample Data Due to Variability in Field Duplicate Results
Long Term Stewardship Plan - Groundwater Sampling Program
RACER Trust - Former Assembly Plant
Wilmington, Delaware
November 2023

Parameter	Analyte	RPD/Diff		Sample ID	Qualified Result	Field Duplicate Sample ID	Qualified Result	Units
Metals	Aluminum	161	1929	GW-11222397-111623-CT-16	231 J	GW-11222397-111623-CT-17	2160 J	µg/L
	Chromium	122	7.9	GW-11222397-111623-CT-16	2.5 UJ	GW-11222397-111623-CT-17	10.4 J	µg/L
	Iron	112	3370	GW-11222397-111623-CT-16	1330 J	GW-11222397-111623-CT-17	4700 J	µg/L
	Lead	149	4.86	GW-11222397-111623-CT-16	0.84 UJ	GW-11222397-111623-CT-17	5.7 J	µg/L
	Manganese	108	51.1	GW-11222397-111623-CT-16	21.9 J	GW-11222397-111623-CT-17	73.0 J	µg/L
	Vanadium	97	7.6	GW-11222397-111623-CT-16	4.0 J	GW-11222397-111623-CT-17	11.6 J	µg/L
	Zinc	56	8.3	GW-11222397-111623-CT-16	10.8 J	GW-11222397-111623-CT-17	19.1 J	µg/L

Notes:

- Diff - Difference (i.e., >1X RL for waters or >2XRL for soils)
- RPD - Relative Percent Difference
- J - Estimated concentration
- UJ - Not detected; associated reporting limit is estimated

Appendix E

Historical Groundwater Analytical Results

Historical Groundwater Analytical Results
Long-Term Stewardship Plan Groundwater Sampling Report, Year 2
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW-017338-012110-ACH-001 1/21/2010	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 GW17338082106004 8/21/2006	OU-2 MW-8 GW17338082306015 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-017338-030110-ACH-003 3/1/2010
Parameters	Units	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)																
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	1.0 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	1.0 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	1.0 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	1.0 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	1.0 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	1.0 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	1.0 U
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	1.0 U
1,2-Dichlorobenzene	ug/L	30	0.7	-	0.7 J	0.8 J ^a	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
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	1.0 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	1.0 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	1.0 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	1.0 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	10 U
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	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	R
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	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	2.2 ^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	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	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	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	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	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	1.7 ^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	1.0 U
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	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	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	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	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	2.3
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	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	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	0.31 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	3.3 ^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	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	10
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	3.1

Historical Groundwater Analytical Results
Long-Term Stewardship Plan Groundwater Sampling Report, Year 2
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW-017338-012110-ACH-001 1/21/2010	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 GW17338082106004 8/21/2006	OU-2 MW-8 GW17338082306015 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-017338-030110-ACH-003 3/1/2010
Parameters	Units	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)																
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	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	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	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	0.58 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	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 U	1.0 U	1.0 U
Trichloroethene	ug/L	0.28	21	-	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
Trichlorofluoromethane (CFC-11)	ug/L	520	--	-	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
Trifluorotrichloroethane (CFC-113)	ug/L	1000	--	-	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
Vinyl chloride	ug/L	0.019	930	-	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
Xylenes (total)	ug/L	19	13	-	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 ^b	17 ^b	17 ^b	0.82 J
Semi-Volatile Organic Compounds																			
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71	--	10 U	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	3.3 U
2,4,5-Trichlorophenol	ug/L	120	--	10 U	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	2.6 U
2,4,6-Trichlorophenol	ug/L	1.2	4.9	10 U	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	3.2 U
2,4-Dichlorophenol	ug/L	4.6	11	10 U	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	2.8 U
2,4-Dimethylphenol	ug/L	36	--	10 U	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	2.6 U
2,4-Dinitrophenol	ug/L	3.9	--	30 U	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	4.9 U
2,4-Dinitrotoluene	ug/L	0.24	44	2.0 U	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	0.44 U
2,6-Dinitrotoluene	ug/L	0.049	81	2.0 U	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	0.60 U
2-Chloronaphthalene	ug/L	75	--	10 U	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	3.8 U
2-Chlorophenol	ug/L	9.1	24	10 U	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	2.7 U
2-Methylnaphthalene	ug/L	3.6	4.7	10 U	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	3.2 U
2-Methylphenol	ug/L	93	13	10 U	0.2 J	17 U	10 U	11 U	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	1.7 U
2-Nitroaniline	ug/L	19	--	20 U	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	5.8 U
2-Nitrophenol	ug/L	--	--	10 U	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	3.5 U
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	20 U	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	7.1 U
3-Nitroaniline	ug/L	--	--	20 U	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	4.4 U
4,6-Dinitro-2-methylphenol	ug/L	0.15	--	30 U	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	5.3 U
4-Bromophenyl phenyl ether	ug/L	--	--	10 U	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	4.0 U
4-Chloro-3-methylphenol	ug/L	140	--	10 U	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	2.0 U
4-Chloroaniline	ug/L	0.37	232	10 U	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	2.1 U
4-Chlorophenyl phenyl ether	ug/L	--	--	10 U	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	4.0 U
4-Methylphenol	ug/L	37	543	10 U	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	1.6 U
4-Nitroaniline	ug/L	3.8	--	20 U	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	4.1 U
4-Nitrophenol	ug/L	--	--	30 U	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	2.4 U
Acenaphthene	ug/L	53	5.8	10 U	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	3.8 U
Acenaphthylene	ug/L	--	--	10 U	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	4.1 U
Acetophenone	ug/L	190	--	10 U	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	4.4 U
Anthracene	ug/L	180	0.012	10 U	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	3.6 U
Atrazine	ug/L	0.3	1.8	10 U	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	4.9 U
Benzaldehyde	ug/L	19	--	10 UJ	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	1.4 UJ
Benzo(a)anthracene	ug/L	0.03	0.018	1.0 U	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	0.020 U

Historical Groundwater Analytical Results
Long-Term Stewardship Plan Groundwater Sampling Report, Year 2
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW-017338-012110-ACH-001 1/21/2010	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 GW17338082106004 8/21/2006	OU-2 MW-8 GW17338082306015 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-017338-030110-ACH-003 3/1/2010
Parameters	Units	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)																
Benzo(a)pyrene	ug/L	0.025	0.015	1.0 U	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	0.031 U
Benzo(b)fluoranthene	ug/L	0.25	--	1.0 U	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	0.041 U
Benzo(g,h,i)perylene	ug/L	--	--	10 U	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	2.8 U
Benzo(k)fluoranthene	ug/L	2.5	--	1.0 U	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	0.31 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	10 U	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	5.5 U
bis(2-Chloroethoxy)methane	ug/L	5.9	--	10 U	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	3.5 U
bis(2-Chloroethyl)ether	ug/L	0.014	--	1.0 U	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	0.42 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	10 U	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	2.4 U
Butyl benzylphthalate (BBP)	ug/L	16	19	10 U	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	2.8 U
Caprolactam	ug/L	990	--	10 U	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	0.51 U
Carbazole	ug/L	--	--	10 U	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	3.1 U
Chrysene	ug/L	25	--	10 U	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	3.8 U
Dibenz(a,h)anthracene	ug/L	0.025	--	1.0 U	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	0.16 U
Dibenzofuran	ug/L	0.79	3.7	10 U	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	3.7 U
Diethyl phthalate	ug/L	1500	210	10 U	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	3.9 U
Dimethyl phthalate	ug/L	--	--	10 U	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	3.3 U
Di-n-butylphthalate (DBP)	ug/L	90	19	10 U	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	2.8 U
Di-n-octyl phthalate (DnOP)	ug/L	20	22	10 U	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	1.9 U
Fluoranthene	ug/L	80	0.04	10 U	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	2.7 U
Fluorene	ug/L	29	3	10 U	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	3.3 U
Hexachlorobenzene	ug/L	0.0098	0.0003	1.0 U	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	0.010 U
Hexachlorobutadiene	ug/L	0.14	1.3	2.0 U	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	0.96 U
Hexachlorocyclopentadiene	ug/L	0.041	--	10 U	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	4.7 U
Hexachloroethane	ug/L	0.33	12	1.0 U	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	0.51 U
Indeno(1,2,3-cd)pyrene	ug/L	0.25	--	1.0 U	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	0.12 U
Isophorone	ug/L	78	--	10 U	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	3.7 U
Naphthalene	ug/L	0.12	1.1	140 J ^{ab}	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}	100 J ^{ab}
Nitrobenzene	ug/L	0.14	--	1.0 U	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	0.42 U
N-Nitrosodi-n-propylamine	ug/L	0.011	--	1.0 U	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	0.33 U
N-Nitrosodiphenylamine	ug/L	12	210	10 U	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	3.9 U
Pentachlorophenol	ug/L	0.041	0.5	30 U	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	0.14 U
Phenanthrene	ug/L	12	0.4	10 U	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	3.6 U
Phenol	ug/L	580	4	10 U	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	0.91 U
Pyrene	ug/L	12	0.025	10 U	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	4.4 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}	1050 ^b
Aluminum (dissolved)	ug/L	2000	87	-	-	-	-	-	160 U	200 U	-	-	-	-	-	-	-	-	-
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	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	5.0 U
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}	427 ^{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	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	5.0 U

Historical Groundwater Analytical Results
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Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW-017338-012110-ACH-001	OU-2 MW-8 MW8-060205EAP001	OU-2 MW-8 MW8-060205EAP002	OU-2 MW-8 WG-17338-111405-RR-015	OU-2 MW-8 GW17338082106004	OU-2 MW-8 GW17338082306015	OU-2 MW-8 GW-17338-121406-MJW-10	OU-2 MW-8 GW-17338-080408-02	OU-2 MW-8 GW-17338-112008-01	OU-2 MW-8 GW-017338-022409-009	OU-2 MW-8 GW-017338-050809-ACH-003	OU-2 MW-8 GW-017338-050809-ACH-004	OU-2 MW-8 GW-017338-081809-ACH-05	OU-2 MW-8 GW-017338-111209-ACH-03	OU-2 MW-8 GW-017338-111209-ACH-04	OU-2 MW-8 GW-017338-030110-ACH-003
				1/21/2010	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)	3/1/2010
Parameters	Units	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)																
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	49400
Calcium (dissolved)	ug/L	--	--	-	-	-	-	-	48700	51100	-	-	-	-	-	-	-	-	-
Chromium	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	10.0 U
Chromium (dissolved)	ug/L	10	85	-	-	-	-	-	5.7 U	10 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	18.1 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	-	-	20 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	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}	62000 ^{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	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	30600
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}	1690 ^{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	0.20 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	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	3230 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	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	1.6 J
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	86700
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	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	50.0 U
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	30.0 U
Zinc (dissolved)	ug/L	600	120	-	-	-	-	-	30 U	12.5 J	-	-	-	-	-	-	-	-	-

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan Groundwater Sampling Report, Year 2
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW-017338-051810-ACH-02 5/18/2010	OU-2 MW-8 WG-17338-110617-SG-044 11/6/2017	OU-2 MW-8 WG-17338-062618-AM-003 6/26/2018	OU-2 MW-8R GW-11222397-011123-ZB-07 1/11/2023	OU-2 MW-8R GW-11222397-111523-ZB-09 11/15/2023	OU-2 MW-9 MW9-060205EAP003 6/2/2005	OU-2 MW-9 MW9A060205EA P004 6/2/2005 (Duplicate)	OU-2 MW-9 WG-17338-111405-RR-016 11/14/2005	OU-2 MW-9 GW17338082106 003 8/21/2006	OU-2 MW-9 GW-17338-121206-MJW-05 12/12/2006	OU-2 MW-9 GW-17338-121206-MJW-06 12/12/2006 (Duplicate)	OU-2 MW-9 GW-17338-080408-03 8/4/2008	OU-2 MW-9 GW-17338-112008-03 11/20/2008	OU-2 MW-9 GW-17338-112008-04 11/20/2008 (Duplicate)	OU-2 MW-9 GW-017338-022309-001 2/23/2009	OU-2 MW-9 GW-017338-050809-ACH-001 5/8/2009
Parameters	Units	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)																
Volatile Organic Compounds																			
1,1,1-Trichloroethane	ug/L	200	11	0.25 U	1.0 U	1.0 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	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	0.076	610	0.090 U	1.0 U	1.0 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	1.0 U
1,1,2-Trichloroethane	ug/L	0.041	1200	0.10 U	1.0 U	1.0 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	1.0 U
1,1-Dichloroethane	ug/L	2.8	47	0.10 U	1.0 U	1.0 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	1.0 U
1,1-Dichloroethene	ug/L	7	25	0.14 U	1.0 U	1.0 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	1.0 U
1,2,3-Trichlorobenzene	ug/L	0.7	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	0.4	24	0.44 U	1.0 U	1.0 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	1.0 U
1,2,4-Trimethylbenzene	ug/L	5.6	--	-	1.0 U	1.0 U	0.37 U	0.37 U	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.00033	--	0.15 U	1.0 U	1.0 U	0.38 UJ	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	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	--	0.090 U	1.0 U	1.0 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	1.0 U
1,2-Dichlorobenzene	ug/L	30	0.7	0.27 J	1.0 U	1.0 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	1.0 U
1,2-Dichloroethane	ug/L	0.17	100	0.24 U	1.0 U	1.0 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	1.0 U
1,2-Dichloropropane	ug/L	0.82	--	0.090 U	1.0 U	1.0 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	1.0 U
1,3,5-Trimethylbenzene	ug/L	6	71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	--	--	0.22 U	1.0 U	1.0 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	1.0 U
1,4-Dichlorobenzene	ug/L	0.48	26	0.28 J	1.0 U	1.0 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	1.0 U
1,4-Dioxane	ug/L	0.46	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2,4-Trimethylpentane	ug/L	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	0.82 U	5.0 U	5.0 U	1.9 U	1.9 U	R	R	R	5.0 U	R	R	R	5.0 U	5.0 U	5.0 U	10 U
2-Hexanone	ug/L	3.8	99	0.55 U	5.0 U	5.0 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	5.0 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	170	0.68 U	5.0 U	5.0 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	5.0 U	10 U
Acetone	ug/L	1800	1500	2.5 U	5.0 U	5.0 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	10 UJ
Benzene	ug/L	0.46	370	4.5 ^a	1.0 U	1.0 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	1.0 U
Bromodichloromethane	ug/L	0.13	--	0.093 U	1.0 U	1.0 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	1.0 U
Bromoform	ug/L	3.3	320	0.10 U	1.0 U	1.0 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	1.0 U
Bromomethane (Methyl bromide)	ug/L	0.75	--	0.31 U	1.0 U	1.0 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	1.0 U
Carbon disulfide	ug/L	81	0.92	0.15 U	1.0 U	1.0 U	0.82 U	0.82 UJ	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
Carbon tetrachloride	ug/L	0.46	13.3	0.19 U	1.0 U	1.0 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	1.0 U
Chlorobenzene	ug/L	7.8	1.3	2.9 ^b	1.0 U	1.0 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	1.0 U
Chlorobromomethane	ug/L	8.3	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	ug/L	830	--	0.45 U	1.0 U	1.0 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	1.0 U
Chloroform (Trichloromethane)	ug/L	0.22	1.8	0.15 U	1.0 U	1.0 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	1.0 U
Chloromethane (Methyl chloride)	ug/L	19	--	0.21 U	1.0 U	1.0 U	0.40 U	0.40 UJ	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
cis-1,2-Dichloroethene	ug/L	2.5	--	0.20 U	1.0 U	1.0 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	1.0 U
cis-1,3-Dichloropropene	ug/L	--	--	0.11 U	1.0 U	1.0 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	1.0 U
Cyclohexane	ug/L	1300	--	2.8	1.0 U	1.0 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	1.0 U
Dibromochloromethane	ug/L	0.87	--	0.11 U	1.0 U	1.0 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	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	20	--	0.29 U	1.0 U	1.0 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	1.0 U
Ethylbenzene	ug/L	1.5	90	0.33 J	1.0 U	1.0 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	1.0 U
Hexane	ug/L	150	0.58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyl benzene	ug/L	45	2.6	6.0 ^b	1.0 U	1.0 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	1.0 U
m&p-Xylenes	ug/L	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	2000	--	0.33 U	5.0 U	5.0 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	-	-	1.0 U	2.0 U
Methyl cyclohexane	ug/L	--	--	11	1.0 U	1.0 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	-	-	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	10	11070	4.6	0.33 J	1.0 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

Historical Groundwater Analytical Results
Long-Term Stewardship Plan Groundwater Sampling Report, Year 2
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-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-017338-051810-ACH-02	WG-17338-110617-SG-044	WG-17338-062618-AM-003	GW-11222397-011123-ZB-07	GW-11222397-111523-ZB-09	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:	5/18/2010	11/6/2017	6/26/2018	1/11/2023	11/15/2023	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	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)																
Methylene chloride	ug/L	5	98.1	0.19 U	1.0 U	1.0 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	3.0 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	0.13 U	1.0 U	1.0 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	5.0 U	1.0 U
Tetrachloroethene	ug/L	1	111	0.20 U	1.0 U	1.0 U	0.42 J	0.64 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	1.0 U	1.0 U	1.0 U
Toluene	ug/L	110	2	0.090 U	1.0 U	1.0 U	0.38 U	0.38 U	23 J ^b	9.6 UJ	12 ^b	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.5 J
trans-1,2-Dichloroethene	ug/L	6.8	970	0.14 U	1.0 U	1.0 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	5.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	--	--	0.12 U	1.0 U	1.0 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	5.0 U	1.0 U
Trichloroethene	ug/L	0.28	21	0.18 U	1.0 U	1.0 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	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	520	--	0.16 U	1.0 U	1.0 U	2.1	2.2	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
Trifluorotrichloroethane (CFC-113)	ug/L	1000	--	0.28 U	1.0 U	1.0 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	5.0 U	-	-	1.0 U
Vinyl chloride	ug/L	0.019	930	0.13 U	1.0 U	1.0 U	0.17 U	0.17 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	5.0 U	1.0 U
Xylenes (total)	ug/L	19	13	1.2 J	2.0 U	2.0 U	0.65 U	0.65 U	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	5.0 U	3.0 U
Semi-Volatile Organic Compounds																			
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71	--	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	10 U
2,4,5-Trichlorophenol	ug/L	120	--	-	10 U	10 U	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	ug/L	1.2	4.9	-	10 U	10 U	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	ug/L	4.6	11	-	10 U	10 U	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	ug/L	36	--	-	10 U	10 U	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	ug/L	3.9	--	-	20 U	20 U	-	-	41 U	40 U	43 U	32 UJ	32 U	31 U	30 U	30 U	30 U	30 U	30 U
2,4-Dinitrotoluene	ug/L	0.24	44	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	2.0 U
2,6-Dinitrotoluene	ug/L	0.049	81	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	2.0 U
2-Chloronaphthalene	ug/L	75	--	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	10 U
2-Chlorophenol	ug/L	9.1	24	-	10 U	10 U	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	ug/L	3.6	4.7	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	10 U
2-Methylphenol	ug/L	93	13	-	10 U	10 U	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	ug/L	19	--	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	20 U
2-Nitrophenol	ug/L	--	--	-	10 U	10 U	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	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	20 U
3-Nitroaniline	ug/L	--	--	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	20 U
4,6-Dinitro-2-methylphenol	ug/L	0.15	--	-	20 U	20 U	-	-	41 U	40 U	43 U	32 UJ	32 U	31 U	30 U	30 U	30 U	30 U	30 U
4-Bromophenyl phenyl ether	ug/L	--	--	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	10 U
4-Chloro-3-methylphenol	ug/L	140	--	-	10 U	10 U	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	ug/L	0.37	232	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	10 U
4-Chlorophenyl phenyl ether	ug/L	--	--	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	10 U
4-Methylphenol	ug/L	37	543	-	10 U	10 U	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	-	-	10 U
4-Nitroaniline	ug/L	3.8	--	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	20 U
4-Nitrophenol	ug/L	--	--	-	20 U	20 U	-	-	41 U	40 U	43 U	32 U	32 U	31 U	30 U	30 U	30 U	30 U	30 U
Acenaphthene	ug/L	53	5.8	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	10 U
Acenaphthylene	ug/L	--	--	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	10 U
Acetophenone	ug/L	190	--	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	10 U
Anthracene	ug/L	180	0.012	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	10 U
Atrazine	ug/L	0.3	1.8	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	10 U
Benzaldehyde	ug/L	19	--	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	10 U
Benzo(a)anthracene	ug/L	0.03	0.018	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	1.0 U

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Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW-017338-051810-ACH-02 5/18/2010	OU-2 MW-8 WG-17338-110617-SG-044 11/6/2017	OU-2 MW-8 WG-17338-062618-AM-003 6/26/2018	OU-2 MW-8R GW-11222397-011123-ZB-07 1/11/2023	OU-2 MW-8R GW-11222397-111523-ZB-09 11/15/2023	OU-2 MW-9 MW9-060205EAP003 6/2/2005	OU-2 MW-9 MW9A060205EA P004 6/2/2005 (Duplicate)	OU-2 MW-9 WG-17338-111405-RR-016 11/14/2005	OU-2 MW-9 GW17338082106 003 8/21/2006	OU-2 MW-9 GW-17338-121206-MJW-05 12/12/2006	OU-2 MW-9 GW-17338-121206-MJW-06 12/12/2006 (Duplicate)	OU-2 MW-9 GW-17338-080408-03 8/4/2008	OU-2 MW-9 GW-17338-112008-03 11/20/2008	OU-2 MW-9 GW-17338-112008-04 11/20/2008 (Duplicate)	OU-2 MW-9 GW-017338-022309-001 2/23/2009	OU-2 MW-9 GW-017338-050809-ACH-001 5/8/2009
Parameters	Units	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)																
Benzo(a)pyrene	ug/L	0.025	0.015	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	1.0 U
Benzo(b)fluoranthene	ug/L	0.25	--	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	1.0 U
Benzo(g,h,i)perylene	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	10 U
Benzo(k)fluoranthene	ug/L	2.5	--	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	1.0 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	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	10 U
bis(2-Chloroethoxy)methane	ug/L	5.9	--	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	10 U
bis(2-Chloroethyl)ether	ug/L	0.014	--	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	1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	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	10 UJ
Butyl benzylphthalate (BBP)	ug/L	16	19	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	10 U
Caprolactam	ug/L	990	--	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	10 U
Carbazole	ug/L	--	--	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	10 U
Chrysene	ug/L	25	--	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	10 U
Dibenz(a,h)anthracene	ug/L	0.025	--	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	1.0 U
Dibenzofuran	ug/L	0.79	3.7	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	10 U
Diethyl phthalate	ug/L	1500	210	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	10 U
Dimethyl phthalate	ug/L	--	--	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	10 U
Di-n-butylphthalate (DBP)	ug/L	90	19	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	10 U
Di-n-octyl phthalate (DnOP)	ug/L	20	22	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	10 U
Fluoranthene	ug/L	80	0.04	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	10 U
Fluorene	ug/L	29	3	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	10 U
Hexachlorobenzene	ug/L	0.0098	0.0003	0.010 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	1.0 U
Hexachlorobutadiene	ug/L	0.14	1.3	0.95 UJ	1.0 U	1.0 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	2.0 U
Hexachlorocyclopentadiene	ug/L	0.041	--	4.6 U	10 U	10 U	-	-	10 U	10 U	11 U	10 UJ	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	ug/L	0.33	12	0.51 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	1.0 U
Indeno(1,2,3-cd)pyrene	ug/L	0.25	--	0.12 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	1.0 U
Isophorone	ug/L	78	--	3.6 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	10 U
Naphthalene	ug/L	0.12	1.1	110 ^{ab}	10 UJ	10 U	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	ug/L	0.14	--	0.41 U	1.0 UJ	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	1.0 U
N-Nitrosodi-n-propylamine	ug/L	0.011	--	0.32 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	1.0 U
N-Nitrosodiphenylamine	ug/L	12	210	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	10 U
Pentachlorophenol	ug/L	0.041	0.5	-	20 U	20 U	-	-	41 U	40 U	43 U	32 UJ	32 U	31 U	30 U	30 U	30 U	30 U	30 U
Phenanthrene	ug/L	12	0.4	3.6 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	10 U
Phenol	ug/L	580	4	-	10 U	10 U	-	-	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	ug/L	12	0.025	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	10 U
Metals																			
Aluminum	ug/L	2000	87	5190 J ^{ab}	214 ^b	845 ^b	-	-	2860 ^{ab}	1930 ^b	-	395 ^b	541 ^b	328 U	1000 ^b	1460 ^b	1470 ^b	3670 ^{ab}	6220 ^{ab}
Aluminum (dissolved)	ug/L	2000	87	-	-	-	-	-	-	-	-	200 U	200 U	200 U	-	-	-	-	-
Antimony	ug/L	0.78	30	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	10 U	10.0 U
Antimony (dissolved)	ug/L	0.78	30	-	-	-	-	-	-	-	-	10 U	10 U	10 U	-	-	-	-	-
Arsenic	ug/L	0.052	5	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	4.2 U	5.0 U
Arsenic (dissolved)	ug/L	0.052	5	-	-	-	-	-	-	-	-	5 U	4.2 U	4.2 U	-	-	-	-	-
Barium	ug/L	380	4	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	275 ^b	278 ^b
Barium (dissolved)	ug/L	380	4	-	-	-	-	-	-	-	-	170 J ^b	174 J ^b	176 J ^b	-	-	-	-	-
Beryllium	ug/L	2.5	0.66	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	2 U	2.0 U
Beryllium (dissolved)	ug/L	2.5	0.66	-	-	-	-	-	-	-	-	2 U	2 U	2 U	-	-	-	-	-
Cadmium	ug/L	0.18	0.25	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	4 U	5.0 U

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Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW-017338- 051810-ACH-02 5/18/2010	OU-2 MW-8 WG-17338- 110617-SG-044 11/6/2017	OU-2 MW-8 WG-17338- 062618-AM-003 6/26/2018	OU-2 MW-8R GW-11222397- 011123-ZB-07 1/11/2023	OU-2 MW-8R GW-11222397- 111523-ZB-09 11/15/2023	OU-2 MW-9 MW9- 060205EAP003 6/2/2005	OU-2 MW-9 MW9A060205EA P004 6/2/2005 (Duplicate)	OU-2 MW-9 WG-17338- 111405-RR-016 11/14/2005	OU-2 MW-9 GW17338082106 003 8/21/2006	OU-2 MW-9 GW-17338- 121206-MJW-05 12/12/2006	OU-2 MW-9 GW-17338- 121206-MJW-06 12/12/2006 (Duplicate)	OU-2 MW-9 GW-17338- 080408-03 8/4/2008	OU-2 MW-9 GW-17338- 112008-03 11/20/2008	OU-2 MW-9 GW-17338- 112008-04 11/20/2008 (Duplicate)	OU-2 MW-9 GW-017338- 022309-001 2/23/2009	OU-2 MW-9 GW-017338- 050809-ACH-001 5/8/2009
Parameters	Units	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)																
Cadmium (dissolved)	ug/L	0.18	0.25	-	-	-	-	-	-	-	-	4 U	4 U	4 U	-	-	-	-	-
Calcium	ug/L	--	--	58900	18400	18700	-	-	29800	28000	-	30400	30100	29700	52100	58500	58300	61200	51400
Calcium (dissolved)	ug/L	--	--	-	-	-	-	-	-	-	-	30200	32600	32000	-	-	-	-	-
Chromium	ug/L	10	85	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	3.6 J	6.9 J	10.6 ^a
Chromium (dissolved)	ug/L	10	85	-	-	-	-	-	-	-	-	10 U	10 U	10 U	-	-	-	-	-
Chromium VI (hexavalent)	ug/L	0.035	11	-	-	-	-	-	-	-	10 U	10.0 U	-	-	-	-	-	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-	-	-	-	-	-	-	-	10.0 U	-	-	-	-	-	-	-
Cobalt	ug/L	0.6	23	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	3.9 J ^a	4.8 J ^a
Cobalt (dissolved)	ug/L	0.6	23	-	-	-	-	-	-	-	-	50 U	50 U	50 U	-	-	-	-	-
Copper	ug/L	80	9	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	25.6 ^b	26.6 ^b
Copper (dissolved)	ug/L	80	9	-	-	-	-	-	-	-	-	25 U	25 U	25 U	-	-	-	-	-
Iron	ug/L	1400	300	74500 ^{ab}	27000 ^{ab}	34700 ^{ab}	-	-	12200 ^{ab}	8170 ^{ab}	-	1450 ^{ab}	1250 ^b	1280 ^b	3940 ^{ab}	5030 ^{ab}	5570 ^{ab}	14300 ^{ab}	22900 ^{ab}
Iron (dissolved)	ug/L	1400	300	-	-	-	-	-	-	-	-	150 U	150 U	150 U	-	-	-	-	-
Lead	ug/L	15	2.5	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	3 U	4.5 J ^b
Lead (dissolved)	ug/L	15	2.5	-	-	-	-	-	-	-	-	3 U	3 U	3 U	-	-	-	-	-
Magnesium	ug/L	--	--	36200	14700	18500	-	-	12400	11600	-	13100	13400	13100	26000	28200	28200	30100	25600
Magnesium (dissolved)	ug/L	--	--	-	-	-	-	-	-	-	-	13100	14400	14300	-	-	-	-	-
Manganese	ug/L	43	120	1990 ^{ab}	524 ^{ab}	596 ^{ab}	-	-	276 ^{ab}	236 ^{ab}	-	222 ^{ab}	238 ^{ab}	227 ^{ab}	682 ^{ab}	627 ^{ab}	619 ^{ab}	607 ^{ab}	531 ^{ab}
Manganese (dissolved)	ug/L	43	120	-	-	-	-	-	-	-	-	211 ^{ab}	258 ^{ab}	285 ^{ab}	-	-	-	-	-
Mercury	ug/L	0.063	0.026	0.18 U	0.20 U	0.20 U	-	-	0.20 U	0.20 U	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Mercury (dissolved)	ug/L	0.063	0.026	-	-	-	-	-	-	-	-	0.20 U	0.20 U	0.20 U	-	-	-	-	-
Nickel	ug/L	39	52	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	4.3 J	6.2 J	6.9 J
Nickel (dissolved)	ug/L	39	52	-	-	-	-	-	-	-	-	40 U	2.6 J	40 U	-	-	-	-	-
Potassium	ug/L	--	--	3600 J	2600	2180	-	-	4100	3860	-	4450 J	5380	5180	8580	9190	9150	9270	8570
Potassium (dissolved)	ug/L	--	--	-	-	-	-	-	-	-	-	4510 J	5600	5580	-	-	-	-	-
Selenium	ug/L	10	1	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	5 U	10.0 U
Selenium (dissolved)	ug/L	10	1	-	-	-	-	-	-	-	-	5 U	5 U	5 U	-	-	-	-	-
Silver	ug/L	9.4	3.2	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	10 U	1.7 J
Silver (dissolved)	ug/L	9.4	3.2	-	-	-	-	-	-	-	-	10 U	10 U	10 U	-	-	-	-	-
Sodium	ug/L	--	--	93900	46800	49300	-	-	46200	43600	-	52100	42100	40900	117000	153000	152000	140000	133000
Sodium (dissolved)	ug/L	--	--	-	-	-	-	-	-	-	-	52500	44600	44900	-	-	-	-	-
Thallium	ug/L	0.02	0.8	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	9.5 U	10.0 U
Thallium (dissolved)	ug/L	0.02	0.8	-	-	-	-	-	-	-	-	10 U	9.5 U	9.5 U	-	-	-	-	-
Vanadium	ug/L	8.6	20	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	50 U	50.0 U
Vanadium (dissolved)	ug/L	8.6	20	-	-	-	-	-	-	-	-	50 U	50 U	50 U	-	-	-	-	-
Zinc	ug/L	600	120	10.5 J	16.0 U	16.0 U	-	-	13.6	11.6	-	30 U	30 U	30 U	8.2 J	30 U	30 U	16.7 J	19.1 J
Zinc (dissolved)	ug/L	600	120	-	-	-	-	-	-	-	-	30 U	30 U	30 U	-	-	-	-	-

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Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 GW-017338-081709-ACH-01 8/17/2009	OU-2 MW-9 GW-017338-111209-ACH-02 11/12/2009	OU-2 MW-9 GW-017338-030110-ACH-001 3/1/2010	OU-2 MW-9 GW-017338-051810-ACH-03 5/18/2010	OU-2 MW-9 GW-017338-051810-ACH-04 5/18/2010 (Duplicate)	OU-2 MW-9 WG-17338-110417-SG-024 11/4/2017	OU-2 MW-9 WG-17338-062618-AM-004 6/26/2018	OU-2 MW-9R GW-11222397-011123-ZB-10 1/11/2023	OU-2 MW-9R GW-11222397-111523-ZB-12 11/15/2023	OU-2 MW-19 GW1733809070609 9/7/2006	OU-2 MW-19 GW-17338-121206-MJW-03 12/12/2006	OU-2 MW-19 GW-17338-080508-16 8/5/2008	OU-2 MW-19 GW-17338-112008-05 11/20/2008	OU-2 MW-19 GW-017338-022309-002 2/23/2009	OU-2 MW-19 GW-017338-050809-ACH-002 5/8/2009	OU-2 MW-19 GW-017338-081709-ACH-02 8/17/2009
Parameters	Units	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)																
Volatile Organic Compounds																			
1,1,1-Trichloroethane	ug/L	200	11	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	5.0 U	5.0 U	5.0 U	5.0 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	0.090 U	0.090 U	1.0 U	1.0 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
1,1,2-Trichloroethane	ug/L	0.041	1200	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	3.0 U	3.0 U	3.0 U	3.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	2.8	47	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	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	7	25	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	2.0 U	2.0 U	2.0 U	2.0 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	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	5.0 U	0.7 J ^a	5.0 U	-	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	ug/L	5.6	--	-	-	-	-	-	1.0 U	1.0 U	0.37 U	0.37 U	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.00033	--	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	5.0 U	5.0 U	5.0 U	-	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	--	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	5.0 U	5.0 U	5.0 U	-	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	30	0.7	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	5.1 ^b	4.8 J ^b	5.0 U	-	0.2 J	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	0.17	100	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	2.0 U	2.0 U	2.0 U	2.0 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	0.090 U	0.090 U	1.0 U	1.0 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
1,3,5-Trimethylbenzene	ug/L	6	71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	--	--	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	0.6 J	1.0 J	5.0 U	-	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	0.48	26	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	9.3 ^a	4.1 J ^a	0.4 J	-	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	10 UJ	10 U	0.82 U	0.82 U	5.0 U	5.0 U	1.9 U	1.9 U	R	R	5.0 U	5.0 U	10 U	10 U	R
2-Hexanone	ug/L	3.8	99	10 U	10 U	10 U	0.55 U	0.55 U	5.0 U	5.0 U	1.1 U	1.1 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	170	10 U	10 U	R	0.68 U	0.68 U	5.0 U	5.0 U	1.3 U	1.3 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
Acetone	ug/L	1800	1500	R	R	R	2.5 U	2.5 U	7.1 U	5.0 U	4.4 U	4.4 U	R	R	R	5.0 U	10 U	10 UJ	R
Benzene	ug/L	0.46	370	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	0.13	--	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	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	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	4.0 U	4.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	0.75	--	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	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ
Carbon disulfide	ug/L	81	0.92	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	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	0.29 J
Carbon tetrachloride	ug/L	0.46	13.3	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	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	7.8	1.3	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	9.1 ^{ab}	1.0 J	0.8 J	5.0 U	0.3 J	1.0 U	1.0 U
Chlorobromomethane	ug/L	8.3	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	ug/L	830	--	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	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	0.22	1.8	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	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	19	--	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	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	2.5	--	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	5.0 U	5.0 U	5.0 U	5.0 U	0.3 J	1.0 U	0.54 J
cis-1,3-Dichloropropene	ug/L	--	--	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	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1300	--	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	5.0 U	5.0 U	5.0 U	-	1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L	0.87	--	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	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	20	--	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	5.0 U	5.0 U	5.0 U	-	1.0 U	1.0 U	1.0 U
Ethylbenzene	ug/L	1.5	90	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	1.4 J	4.0 U	23 ^a	4.0 U	0.2 J	1.0 U	1.0 U
Hexane	ug/L	150	0.58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyl benzene	ug/L	45	2.6	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	1.0 J	5.0 U	5.0 U	-	1.0 U	1.0 U	1.0 U
m&p-Xylenes	ug/L	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	2000	--	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	5.0 U	5.0 U	5.0 U	-	1.0 U	2.0 U	2.0 U
Methyl cyclohexane	ug/L	--	--	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	5.0 U	5.0 U	5.0 U	-	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	10	11070	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	5.0 U	0.5 J	5.0 U	-	1.0 U	1.0 U	1.0 U

Historical Groundwater Analytical Results
Long-Term Stewardship Plan Groundwater Sampling Report, Year 2
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 GW-017338-081709-ACH-01 8/17/2009	OU-2 MW-9 GW-017338-111209-ACH-02 11/12/2009	OU-2 MW-9 GW-017338-030110-ACH-001 3/1/2010	OU-2 MW-9 GW-017338-051810-ACH-03 5/18/2010	OU-2 MW-9 GW-017338-051810-ACH-04 5/18/2010 (Duplicate)	OU-2 MW-9 WG-17338-110417-SG-024 11/4/2017	OU-2 MW-9 WG-17338-062618-AM-004 6/26/2018	OU-2 MW-9R GW-11222397-011123-ZB-10 1/11/2023	OU-2 MW-9R GW-11222397-111523-ZB-12 11/15/2023	OU-2 MW-19 GW1733809070609 9/7/2006	OU-2 MW-19 GW-17338-121206-MJW-03 12/12/2006	OU-2 MW-19 GW-17338-080508-16 8/5/2008	OU-2 MW-19 GW-17338-112008-05 11/20/2008	OU-2 MW-19 GW-017338-022309-002 2/23/2009	OU-2 MW-19 GW-017338-050809-ACH-002 5/8/2009	OU-2 MW-19 GW-017338-081709-ACH-02 8/17/2009
Parameters	Units	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)																
Methylene chloride	ug/L	5	98.1	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	3.0 U	3.0 U	3.0 U	3.0 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	1.0 U	1.0 U	1.0 U	0.13 U	0.13 U	1.0 U	1.0 U	0.42 U	0.42 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1	111	0.32 J	0.53 J	0.41 J	0.51 J	0.41 J	0.30 J	0.68 J	0.25 U	0.25 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	1.0 U	1.0 U	1.0 U	0.090 U	0.090 U	1.0 U	1.0 U	0.38 U	0.38 U	1.2 J	5.0 U	100 ^b	5.0 U	0.8 J	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	6.8	970	1.0 U	1.0 U	1.0 U	0.14 U	0.14 U	1.0 U	1.0 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	1.0 U
trans-1,3-Dichloropropene	ug/L	--	--	1.0 U	1.0 U	1.0 U	0.12 U	0.12 U	1.0 U	1.0 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	1.0 U
Trichloroethene	ug/L	0.28	21	1.0 U	1.0 U	1.0 U	0.18 U	0.18 U	1.0 U	1.0 U	0.31 U	0.31 U	1.0 U	1.8 ^a	1.0 U	1.0 U	1.0 U	0.57 J ^a	0.38 J ^a
Trichlorofluoromethane (CFC-11)	ug/L	520	--	1.0 U	1.0 U	1.0 U	0.16 U	0.16 U	1.0 U	1.0 U	0.33 J	0.32 U	5.0 UJ	5.0 U	5.0 U	-	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	1000	--	1.0 U	1.0 U	1.0 U	0.28 U	0.28 U	1.0 U	1.0 U	0.31 U	0.31 U	5.0 U	5.0 U	5.0 U	-	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	0.019	930	1.0 U	1.0 U	1.0 U	0.13 U	0.13 U	1.0 U	1.0 U	0.17 U	0.17 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L	19	13	3.0 U	3.0 U	3.0 U	0.43 U	0.43 U	2.0 U	2.0 U	0.65 U	0.65 U	4.5 J	5.0 U	41 ^{ab}	5.0 U	0.3 J	3.0 U	3.0 U
Semi-Volatile Organic Compounds																			
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71	--	10 U	5.6 U	3.3 U	3.3 U	3.3 U	10 U	10 U	-	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U
2,4,5-Trichlorophenol	ug/L	120	--	10 U	5.6 U	2.6 U	-	-	10 U	10 U	-	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U
2,4,6-Trichlorophenol	ug/L	1.2	4.9	10 U	5.6 U	3.2 U	-	-	10 U	10 U	-	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U
2,4-Dichlorophenol	ug/L	4.6	11	10 U	5.6 U	2.8 U	-	-	10 U	10 U	-	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U
2,4-Dimethylphenol	ug/L	36	--	10 U	5.6 U	2.6 U	-	-	10 U	10 U	-	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U
2,4-Dinitrophenol	ug/L	3.9	--	31 UJ	17 UJ	4.9 U	-	-	20 U	20 U	-	-	31 U	32 U	31 U	30 U	30 U	30 U	32 UJ
2,4-Dinitrotoluene	ug/L	0.24	44	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	2.1 U
2,6-Dinitrotoluene	ug/L	0.049	81	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	2.1 U
2-Chloronaphthalene	ug/L	75	--	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	11 U
2-Chlorophenol	ug/L	9.1	24	10 U	5.6 U	2.7 U	-	-	10 U	10 U	-	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U
2-Methylnaphthalene	ug/L	3.6	4.7	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	11 U
2-Methylphenol	ug/L	93	13	10 U	5.6 U	1.7 U	-	-	10 U	10 U	-	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U
2-Nitroaniline	ug/L	19	--	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	21 U
2-Nitrophenol	ug/L	--	--	10 U	5.6 U	3.5 U	-	-	10 U	10 U	-	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	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	21 U
3-Nitroaniline	ug/L	--	--	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	21 U
4,6-Dinitro-2-methylphenol	ug/L	0.15	--	31 U	17 U	5.3 U	-	-	20 U	20 U	-	-	31 U	32 U	31 U	30 U	30 U	30 U	32 U
4-Bromophenyl phenyl ether	ug/L	--	--	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	11 U
4-Chloro-3-methylphenol	ug/L	140	--	10 U	5.6 U	2.0 U	-	-	10 U	10 U	-	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U
4-Chloroaniline	ug/L	0.37	232	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	11 U
4-Chlorophenyl phenyl ether	ug/L	--	--	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	11 U
4-Methylphenol	ug/L	37	543	10 U	5.6 U	1.6 U	-	-	10 U	10 U	-	-	10 U	10 U	10 U	-	10 U	10 U	11 U
4-Nitroaniline	ug/L	3.8	--	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	21 U
4-Nitrophenol	ug/L	--	--	31 U	17 U	2.4 U	-	-	20 U	20 U	-	-	31 U	32 U	31 U	30 U	30 U	30 U	32 U
Acenaphthene	ug/L	53	5.8	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	11 U
Acenaphthylene	ug/L	--	--	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	11 U
Acetophenone	ug/L	190	--	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	11 U
Anthracene	ug/L	180	0.012	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	11 U
Atrazine	ug/L	0.3	1.8	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	11 U
Benzaldehyde	ug/L	19	--	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	11 U
Benzo(a)anthracene	ug/L	0.03	0.018	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	1.1 U

Historical Groundwater Analytical Results
Long-Term Stewardship Plan Groundwater Sampling Report, Year 2
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 GW-017338-081709-ACH-01 8/17/2009	OU-2 MW-9 GW-017338-111209-ACH-02 11/12/2009	OU-2 MW-9 GW-017338-030110-ACH-001 3/1/2010	OU-2 MW-9 GW-017338-051810-ACH-03 5/18/2010	OU-2 MW-9 GW-017338-051810-ACH-04 5/18/2010 (Duplicate)	OU-2 MW-9 WG-17338-110417-SG-024 11/4/2017	OU-2 MW-9 WG-17338-062618-AM-004 6/26/2018	OU-2 MW-9R GW-11222397-011123-ZB-10 1/11/2023	OU-2 MW-9R GW-11222397-111523-ZB-12 11/15/2023	OU-2 MW-19 GW17338090706 09 9/7/2006	OU-2 MW-19 GW-17338-121206-MJW-03 12/12/2006	OU-2 MW-19 GW-17338-080508-16 8/5/2008	OU-2 MW-19 GW-17338-112008-05 11/20/2008	OU-2 MW-19 GW-017338-022309-002 2/23/2009	OU-2 MW-19 GW-017338-050809-ACH-002 5/8/2009	OU-2 MW-19 GW-017338-081709-ACH-02 8/17/2009
Parameters	Units	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)																
Benzo(a)pyrene	ug/L	0.025	0.015	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	1.1 U
Benzo(b)fluoranthene	ug/L	0.25	--	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	1.1 U
Benzo(g,h,i)perylene	ug/L	--	--	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	11 U
Benzo(k)fluoranthene	ug/L	2.5	--	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	1.1 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	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	11 U
bis(2-Chloroethoxy)methane	ug/L	5.9	--	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	11 U
bis(2-Chloroethyl)ether	ug/L	0.014	--	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	1.1 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	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	11 U
Butyl benzylphthalate (BBP)	ug/L	16	19	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	11 U
Caprolactam	ug/L	990	--	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	11 U
Carbazole	ug/L	--	--	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	11 U
Chrysene	ug/L	25	--	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	11 U
Dibenz(a,h)anthracene	ug/L	0.025	--	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	1.1 U
Dibenzofuran	ug/L	0.79	3.7	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	11 U
Diethyl phthalate	ug/L	1500	210	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	11 U
Dimethyl phthalate	ug/L	--	--	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	11 U
Di-n-butylphthalate (DBP)	ug/L	90	19	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	11 U
Di-n-octyl phthalate (DnOP)	ug/L	20	22	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	11 U
Fluoranthene	ug/L	80	0.04	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	11 U
Fluorene	ug/L	29	3	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	11 U
Hexachlorobenzene	ug/L	0.0098	0.0003	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	1.1 U
Hexachlorobutadiene	ug/L	0.14	1.3	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	2.1 U
Hexachlorocyclopentadiene	ug/L	0.041	--	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	11 U
Hexachloroethane	ug/L	0.33	12	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	1.1 U
Indeno(1,2,3-cd)pyrene	ug/L	0.25	--	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	1.1 U
Isophorone	ug/L	78	--	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	11 U
Naphthalene	ug/L	0.12	1.1	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	11 U
Nitrobenzene	ug/L	0.14	--	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	1.1 U
N-Nitrosodi-n-propylamine	ug/L	0.011	--	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	1.1 U
N-Nitrosodiphenylamine	ug/L	12	210	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	11 U
Pentachlorophenol	ug/L	0.041	0.5	31 U	17 U	0.14 U	-	-	20 U	20 U	-	-	31 U	32 U	31 U	30 U	30 U	30 U	32 U
Phenanthrene	ug/L	12	0.4	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	11 U
Phenol	ug/L	580	4	10 U	5.6 UJ	0.91 U	-	-	10 U	10 U	-	-	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Pyrene	ug/L	12	0.025	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	11 U
Metals																			
Aluminum	ug/L	2000	87	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	12500 ^{ab}
Aluminum (dissolved)	ug/L	2000	87	-	-	-	-	-	-	-	-	-	200 U	200 U	-	-	-	-	-
Antimony	ug/L	0.78	30	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	10.0 U
Antimony (dissolved)	ug/L	0.78	30	-	-	-	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
Arsenic	ug/L	0.052	5	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	5.0 U
Arsenic (dissolved)	ug/L	0.052	5	-	-	-	-	-	-	-	-	-	5 U	3.2 J ^a	-	-	-	-	-
Barium	ug/L	380	4	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	176 J ^b
Barium (dissolved)	ug/L	380	4	-	-	-	-	-	-	-	-	-	118 J ^b	188 J ^b	-	-	-	-	-
Beryllium	ug/L	2.5	0.66	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	2.0 U
Beryllium (dissolved)	ug/L	2.5	0.66	-	-	-	-	-	-	-	-	-	2 U	2 U	-	-	-	-	-
Cadmium	ug/L	0.18	0.25	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	5.0 U

Historical Groundwater Analytical Results
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Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 GW-017338- 081709-ACH-01 8/17/2009	OU-2 MW-9 GW-017338- 111209-ACH-02 11/12/2009	OU-2 MW-9 GW-017338- 030110-ACH-001 3/1/2010	OU-2 MW-9 GW-017338- 051810-ACH-03 5/18/2010	OU-2 MW-9 GW-017338- 051810-ACH-04 5/18/2010 (Duplicate)	OU-2 MW-9 WG-17338- 110417-SG-024 11/4/2017	OU-2 MW-9 WG-17338- 062618-AM-004 6/26/2018	OU-2 MW-9R GW-11222397- 011123-ZB-10 1/11/2023	OU-2 MW-9R GW-11222397- 111523-ZB-12 11/15/2023	OU-2 MW-19 GW17338090706 09 9/7/2006	OU-2 MW-19 GW-17338- 121206-MJW-03 12/12/2006	OU-2 MW-19 GW-17338- 080508-16 8/5/2008	OU-2 MW-19 GW-17338- 112008-05 11/20/2008	OU-2 MW-19 GW-017338- 022309-002 2/23/2009	OU-2 MW-19 GW-017338- 050809-ACH-002 5/8/2009	OU-2 MW-19 GW-017338- 081709-ACH-02 8/17/2009
Parameters	Units	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)																
Cadmium (dissolved)	ug/L	0.18	0.25	-	-	-	-	-	-	-	-	-	4 U	4 U	-	-	-	-	-
Calcium	ug/L	--	--	55100	53900	54700	48400	48300	11800	11900	-	-	28200	44300	42900	40900	81800	44700	32100
Calcium (dissolved)	ug/L	--	--	-	-	-	-	-	-	-	-	-	30200	44600	-	-	-	-	-
Chromium	ug/L	10	85	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	14.5 ^a
Chromium (dissolved)	ug/L	10	85	-	-	-	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
Chromium VI (hexavalent)	ug/L	0.035	11	-	-	-	-	-	-	-	-	-	20.0 U	-	-	-	-	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-	-	-	-	-	-	-	-	-	10.0 U	-	-	-	-	-	-
Cobalt	ug/L	0.6	23	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	3.1 J ^a
Cobalt (dissolved)	ug/L	0.6	23	-	-	-	-	-	-	-	-	-	50 U	50 U	-	-	-	-	-
Copper	ug/L	80	9	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	31.2 ^b
Copper (dissolved)	ug/L	80	9	-	-	-	-	-	-	-	-	-	25 U	25 U	-	-	-	-	-
Iron	ug/L	1400	300	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}	8460 ^{ab}
Iron (dissolved)	ug/L	1400	300	-	-	-	-	-	-	-	-	-	864 ^b	3020 ^{ab}	-	-	-	-	-
Lead	ug/L	15	2.5	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	7.7 ^b
Lead (dissolved)	ug/L	15	2.5	-	-	-	-	-	-	-	-	-	3 U	3 U	-	-	-	-	-
Magnesium	ug/L	--	--	27500	26500	27400	22700	22700	7780	9700	-	-	7620	12300	12100	11800	22700	12100	8880
Magnesium (dissolved)	ug/L	--	--	-	-	-	-	-	-	-	-	-	7780	11600	-	-	-	-	-
Manganese	ug/L	43	120	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}	264 ^{ab}
Manganese (dissolved)	ug/L	43	120	-	-	-	-	-	-	-	-	-	250 ^{ab}	422 ^{ab}	-	-	-	-	-
Mercury	ug/L	0.063	0.026	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	0.22 ^{ab}
Mercury (dissolved)	ug/L	0.063	0.026	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-	-	-	-
Nickel	ug/L	39	52	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	7.8 J
Nickel (dissolved)	ug/L	39	52	-	-	-	-	-	-	-	-	-	40 U	40 U	-	-	-	-	-
Potassium	ug/L	--	--	8400	8960	8520	7620	7610	2850	2420	-	-	4530 J	6020	6640	4950 J	8040	6310	4830 J
Potassium (dissolved)	ug/L	--	--	-	-	-	-	-	-	-	-	-	4400 J	5140	-	-	-	-	-
Selenium	ug/L	10	1	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	10.0 U
Selenium (dissolved)	ug/L	10	1	-	-	-	-	-	-	-	-	-	5 U	5 U	-	-	-	-	-
Silver	ug/L	9.4	3.2	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	1.1 J
Silver (dissolved)	ug/L	9.4	3.2	-	-	-	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
Sodium	ug/L	--	--	145000	146000	148000	126000	124000	26300	36000	-	-	47100	59100	107000	80600	272000	193000	66600
Sodium (dissolved)	ug/L	--	--	-	-	-	-	-	-	-	-	-	51200	56800	-	-	-	-	-
Thallium	ug/L	0.02	0.8	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	10.0 U
Thallium (dissolved)	ug/L	0.02	0.8	-	-	-	-	-	-	-	-	-	10 U	9.5 U	-	-	-	-	-
Vanadium	ug/L	8.6	20	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	26.5 J ^{ab}
Vanadium (dissolved)	ug/L	8.6	20	-	-	-	-	-	-	-	-	-	50 U	50 U	-	-	-	-	-
Zinc	ug/L	600	120	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	30.3
Zinc (dissolved)	ug/L	600	120	-	-	-	-	-	-	-	-	-	30 U	30 U	-	-	-	-	-

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Parameters	Units	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)																
Volatile Organic Compounds																			
1,1,1-Trichloroethane	ug/L	200	11	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	1.0 U	1.0 U	1.0 U	1.0 U	0.24 U	2.0 U
1,1,2,2-Tetrachloroethane	ug/L	0.076	610	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	1.0 U	1.0 U	1.0 U	1.0 U	0.37 U	2.0 U
1,1,2-Trichloroethane	ug/L	0.041	1200	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	1.0 U	1.0 U	1.0 U	1.0 U	0.20 U	2.0 U
1,1-Dichloroethane	ug/L	2.8	47	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	1.0 U	1.0 U	1.0 U	1.0 U	0.26 U	2.0 U
1,1-Dichloroethene	ug/L	7	25	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	1.0 U	1.0 U	1.0 U	1.0 U	0.26 U	2.0 U
1,2,3-Trichlorobenzene	ug/L	0.7	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	0.4	24	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	1.0 U	1.0 U	1.0 U	1.0 U	0.37 U	2.0 U
1,2,4-Trimethylbenzene	ug/L	5.6	--	-	-	-	1.0 U	1.0 U	1.0 U	7.1 ^a	7.4 ^a	5.7 ^a	5.4	480 ^a	1.0 U	1.0 U	430 ^a	300 ^a	43 ^a
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.00033	--	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	1.0 U	1.0 U	1.0 U	1.0 U	0.38 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	--	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	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U	2.0 U
1,2-Dichlorobenzene	ug/L	30	0.7	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	1.0 U	1.0 U	1.0 U	1.0 U	0.21 U	2.0 U
1,2-Dichloroethane	ug/L	0.17	100	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	1.0 U	1.0 U	1.0 U	1.0 U	0.43 U	2.0 U
1,2-Dichloropropane	ug/L	0.82	--	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	1.0 U	1.0 U	1.0 U	1.0 U	0.35 U	2.0 U
1,3,5-Trimethylbenzene	ug/L	6	71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	--	--	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	1.0 U	1.0 U	1.0 U	1.0 U	0.34 U	2.0 U
1,4-Dichlorobenzene	ug/L	0.48	26	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	1.0 U	1.0 U	1.0 U	1.0 U	0.33 U	2.0 U
1,4-Dioxane	ug/L	0.46	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2,4-Trimethylpentane	ug/L	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	10 UJ	10 U	0.82 U	5.0 U	5.0 U	5.0 U	15	14	5.0	5.9	5.0 U	5.0 U	5.0 U	5.0 U	13	10 U
2-Hexanone	ug/L	3.8	99	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	5.0 U	5.0 U	5.0 U	5.0 U	1.1 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	170	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	1.9 J	5.0 U	5.0 U	5.0 U	3.7 J	10 U
Acetone	ug/L	1800	1500	R	R	2.5 U	5.0 U	5.0 U	11 U	70	74	29	28	5.0 U	5.0 U	5.0 U	5.0 U	4.4 U	10 U
Benzene	ug/L	0.46	370	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	1.0 U	1.0 U	1.0 U	1.0 U	0.20 U	2.0 U
Bromodichloromethane	ug/L	0.13	--	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	1.0 U	1.0 U	1.0 U	1.0 U	0.34 U	2.0 U
Bromoform	ug/L	3.3	320	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	1.0 U	1.0 U	1.0 U	1.0 U	0.54 U	2.0 U
Bromomethane (Methyl bromide)	ug/L	0.75	--	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	1.0 U	1.0 U	1.0 U	1.0 U	0.55 U	2.0 U
Carbon disulfide	ug/L	81	0.92	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	1.0 U	1.0 U	1.0 U	1.0 U	0.82 UJ	2.0 U
Carbon tetrachloride	ug/L	0.46	13.3	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	1.0 U	1.0 U	1.0 U	1.0 U	0.21 U	2.0 U
Chlorobenzene	ug/L	7.8	1.3	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	1.0 U	1.0 U	1.0 U	1.0 U	0.38 U	2.0 U
Chlorobromomethane	ug/L	8.3	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	ug/L	830	--	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	1.0 U	1.0 U	1.0 U	1.0 U	0.32 U	2.0 U
Chloroform (Trichloromethane)	ug/L	0.22	1.8	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	1.0 U	2.7 ^{ab}	1.6 ^a	1.0 U	0.33 U	2.0 U
Chloromethane (Methyl chloride)	ug/L	19	--	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	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	2.0 U
cis-1,2-Dichloroethene	ug/L	2.5	--	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	1.0 U	1.0 U	1.0 U	1.0 U	0.22 U	2.0 U
cis-1,3-Dichloropropene	ug/L	--	--	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	1.0 U	1.0 U	1.0 U	1.0 U	0.22 U	2.0 U
Cyclohexane	ug/L	1300	--	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	200	1.0 U	1.0 U	300	190	130
Dibromochloromethane	ug/L	0.87	--	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	1.0 U	1.0 U	1.0 U	1.0 U	0.28 U	2.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	20	--	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	1.0 U	1.0 U	1.0 U	1.0 U	0.31 U	2.0 U
Ethylbenzene	ug/L	1.5	90	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	150 ^{ab}	1.0 U	1.0 U	140 ^{ab}	91 ^{ab}	560 ^{ab}
Hexane	ug/L	150	0.58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyl benzene	ug/L	45	2.6	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	22 ^b	1.0 U	1.0 U	33 ^b	28 ^b	34 ^b
m&p-Xylenes	ug/L	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	2000	--	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	2.0 U	2.0 U	5.0 U	5.0 U	0.79 UJ	4.0 U
Methyl cyclohexane	ug/L	--	--	1.0 U	1.0 U	0.090 U	1.0 U	1.0 U	1.0 U	0.71 U	0.71 U	0.71 U	0.71 U	82	1.0 U	1.0 U	130	88	75
Methyl tert butyl ether (MTBE)	ug/L	10	11070	1.0 U	1.0 U	0.27 J	1.0 U	1.0 U	1.0 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	0.22 U	2.0 U

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Operable Unit: Sample Location:				OU-2 MW-19 GW-017338- 111209-ACH-05	OU-2 MW-19 GW-017338- 030110-ACH-004	OU-2 MW-19 GW-017338- 051810-ACH-05	OU-2 MW-19 WG-17338- 110517-SG-032	OU-2 MW-19 WG-17338- 062618-AM-001	OU-2 MW-19 WG-17338- 062618-AM-002	OU-2 MW-19R GW-11222397- 011123-MA-08	OU-2 MW-19R GW-11222397- 011123-MA-09	OU-2 MW-19R GW-11222397- 111523-ZB-10	OU-2 MW-19R GW-11222397- 111523-ZB-11	OU-4 DA-MW40 DA-MW-40-W001	OU-4 DA-MW40 DA-MW40-W002	OU-4 DA-MW40 DA-MW40-W003	OU-4 DA-MW40 DA-MW40-W004	OU-4 DA-MW40 GW-11222397- 111523-CT-06	OU-4 DA-MW41 DA-MW-41-W001	
Sample ID:				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)	10/22/2012	6/28/2013	9/18/2013	10/14/2015	11/15/2023	10/22/2012	
Sample Date:																				
Parameters	Units	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)																	
Methylene chloride	ug/L	5	98.1	1.0 U	1.0 U	0.19 U	1.0 U	1.0 U	1.0 U	0.35 J	0.32 U	0.38 J	0.37 J	1.0 U	1.0 U	1.0 U	1.0 U	0.32 U	2.0 U	
Naphthalene	ug/L	0.12	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N-Heptane	ug/L	0.6	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
o-Xylene	ug/L	19	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	ug/L	100	72	1.0 U	1.0 U	0.13 U	1.0 U	1.0 U	1.0 U	1.6	1.8	1.3	1.5	2.4	1.0 U	1.0 U	1.0 U	1.6	0.42 U	13
Tetrachloroethene	ug/L	1	111	1.0 U	1.0 U	0.20 U	1.0 U	1.0 U	1.0 U	0.25 U	0.25 U	0.40 J	0.39 J	1.0 U	1.0 U	1.0 U	1.0 U	0.25 U	2.0 U	
Toluene	ug/L	110	2	1.0 U	0.31 J	0.090 U	1.0 U	1.0 U	1.0 U	2.0	2.0	1.3	1.3	2.2 ^b	1.0 U	1.0 U	1.0 U	0.64 J	0.38 U	250 ^{ab}
trans-1,2-Dichloroethene	ug/L	6.8	970	1.0 U	1.0 U	0.14 U	1.0 U	1.0 U	1.0 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	0.24 U	2.0 U	
trans-1,3-Dichloropropene	ug/L	--	--	1.0 U	1.0 U	0.12 U	1.0 U	1.0 U	1.0 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	0.22 U	2.0 U	
Trichloroethene	ug/L	0.28	21	1.0 U	1.0 U	0.44 J ^a	0.48 J ^a	1.0 U	1.0 U	0.31 U	0.31 U	0.31 J ^a	0.31 U	1.0 U	1.0 U	1.0 U	1.0 U	0.31 U	2.0 U	
Trichlorofluoromethane (CFC-11)	ug/L	520	--	1.0 U	1.0 U	0.16 U	1.0 U	1.0 U	1.0 U	3.4	3.1	1.8	1.6	1.0 U	1.0 U	1.0 U	1.0 U	0.32 U	2.0 U	
Trifluorotrichloroethane (CFC-113)	ug/L	1000	--	1.0 U	1.0 U	0.28 U	1.0 U	1.0 U	1.0 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	0.31 U	2.0 U	
Vinyl chloride	ug/L	0.019	930	1.0 U	1.0 U	0.13 U	1.0 U	1.0 U	1.0 U	0.45 J ^a	0.39 J ^a	0.87 J ^a	0.85 J ^a	1.0 U	1.0 U	1.0 U	1.0 U	0.17 U	2.0 U	
Xylenes (total)	ug/L	19	13	3.0 U	3.0 U	0.43 U	2.0 U	2.0 U	2.0 U	17 ^b	19 ^b	13	13	720 ^{ab}	3.0 U	3.0 U	3.0 U	790 ^{ab}	420 ^{ab}	300 ^{ab}
Semi-Volatile Organic Compounds																				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71	--	5.1 U	3.3 U	3.4 U	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	0.63 U	10 U	
2,4,5-Trichlorophenol	ug/L	120	--	5.1 U	2.6 U	-	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	0.88 U	10 U	
2,4,6-Trichlorophenol	ug/L	1.2	4.9	5.1 U	3.2 U	-	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	0.86 U	10 U	
2,4-Dichlorophenol	ug/L	4.6	11	5.1 U	2.8 U	-	10 U	1.1 J	0.92 J	-	-	-	-	10 U	10 U	10 U	10 U	1.1 U	10 U	
2,4-Dimethylphenol	ug/L	36	--	5.1 U	2.6 U	-	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	0.62 U	10 U	
2,4-Dinitrophenol	ug/L	3.9	--	15 UJ	4.9 U	-	20 U	20 U	20 U	-	-	-	-	31 U	31 U	31 U	20 U	2.6 UJ	31 U	
2,4-Dinitrotoluene	ug/L	0.24	44	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	1.0 U	2.1 U	
2,6-Dinitrotoluene	ug/L	0.049	81	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	0.83 U	2.1 U	
2-Chloronaphthalene	ug/L	75	--	5.1 U	3.8 U	4.0 U	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	1.2 U	10 U	
2-Chlorophenol	ug/L	9.1	24	5.1 U	2.7 U	-	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	0.38 U	10 U	
2-Methylnaphthalene	ug/L	3.6	4.7	5.1 U	3.2 U	3.3 U	10 U	10 U	10 U	-	-	-	-	18 ^{ab}	10 U	10 U	10 U	16 ^{ab}	11 ^{ab}	
2-Methylphenol	ug/L	93	13	5.1 U	1.7 U	-	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	0.67 U	10 U	
2-Nitroaniline	ug/L	19	--	10 U	5.8 U	6.1 U	10 U	10 U	10 U	-	-	-	-	21 U	20 U	20 U	10 U	0.47 U	21 U	
2-Nitrophenol	ug/L	--	--	5.1 U	3.5 U	-	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	0.75 U	10 U	
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	10 U	7.1 U	7.4 U	10 U	10 U	10 U	-	-	-	-	21 U	20 U	20 U	10 U	1.4 U	21 U	
3-Nitroaniline	ug/L	--	--	10 U	4.4 U	4.6 U	10 U	10 U	10 U	-	-	-	-	21 U	20 U	20 U	10 U	1.9 U	21 U	
4,6-Dinitro-2-methylphenol	ug/L	0.15	--	15 U	5.3 U	-	20 U	20 U	20 U	-	-	-	-	31 U	31 U	31 U	20 U	3.0 U	31 U	
4-Bromophenyl phenyl ether	ug/L	--	--	5.1 U	4.0 U	4.2 U	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	0.75 U	10 U	
4-Chloro-3-methylphenol	ug/L	140	--	5.1 U	2.0 U	-	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	0.58 U	10 U	
4-Chloroaniline	ug/L	0.37	232	5.1 U	2.1 U	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	--	--	5.1 U	4.0 U	4.2 U	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	1.3 U	10 U	
4-Methylphenol	ug/L	37	543	5.1 U	1.6 U	-	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	0.65 U	2.7 J	
4-Nitroaniline	ug/L	3.8	--	10 U	4.1 U	4.2 U	10 U	10 U	10 U	-	-	-	-	21 U	20 U	20 U	10 U	1.2 U	21 U	
4-Nitrophenol	ug/L	--	--	15 U	2.4 U	-	20 U	20 U	20 U	-	-	-	-	31 U	31 U	31 U	20 U	4.0 U	31 U	
Acenaphthene	ug/L	53	5.8	5.1 U	3.8 U	4.0 U	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	1.1 U	10 U	
Acenaphthylene	ug/L	--	--	5.1 U	4.1 U	4.3 U	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	0.82 U	10 U	
Acetophenone	ug/L	190	--	5.1 U	4.4 U	4.6 U	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	2.3 U	10 U	
Anthracene	ug/L	180	0.012	5.1 U	3.6 U	3.8 U	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	1.3 U	10 U	
Atrazine	ug/L	0.3	1.8	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	1.3 U	10 U*	
Benzaldehyde	ug/L	19	--	5.1 UJ	1.4 UJ	1.4 UJ	10 U	10 U	10 U	-	-	-	-	10 U*	10 U*	10 UJ	10 U	2.1 UJ	10 U*	
Benzo(a)anthracene	ug/L	0.03	0.018	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	0.59 U	1.0 U	

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Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-19 GW-017338- 111209-ACH-05 11/12/2009	OU-2 MW-19 GW-017338- 030110-ACH-004 3/1/2010	OU-2 MW-19 GW-017338- 051810-ACH-05 5/18/2010	OU-2 MW-19 WG-17338- 110517-SG-032 11/5/2017	OU-2 MW-19 WG-17338- 062618-AM-001 6/26/2018	OU-2 MW-19 WG-17338- 062618-AM-002 6/26/2018 (Duplicate)	OU-2 MW-19R GW-11222397- 011123-MA-08 1/11/2023	OU-2 MW-19R GW-11222397- 011123-MA-09 1/11/2023 (Duplicate)	OU-2 MW-19R GW-11222397- 111523-ZB-10 11/15/2023	OU-2 MW-19R GW-11222397- 111523-ZB-11 11/15/2023 (Duplicate)	OU-4 DA-MW40 DA-MW-40-W001 10/22/2012	OU-4 DA-MW40 DA-MW40-W002 6/28/2013	OU-4 DA-MW40 DA-MW40-W003 9/18/2013	OU-4 DA-MW40 DA-MW40-W004 10/14/2015	OU-4 DA-MW40 GW-11222397- 111523-CT-06 11/15/2023	OU-4 DA-MW41 DA-MW-41-W001 10/22/2012
Parameters	Units	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)																
Benzo(a)pyrene	ug/L	0.025	0.015	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	0.41 UJ	1.0 U
Benzo(b)fluoranthene	ug/L	0.25	--	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	0.68 U	1.0 U
Benzo(g,h,i)perylene	ug/L	--	--	5.1 U	2.8 U	2.9 U	10 U	10 UJ	10 UJ	-	-	-	-	10 U	10 U	10 U	10 U	0.70 U	10 U
Benzo(k)fluoranthene	ug/L	2.5	--	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	0.67 U	1.0 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	5.1 U	5.5 U	5.8 U	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	1.2 U	10 U
bis(2-Chloroethoxy)methane	ug/L	5.9	--	5.1 U	3.5 U	3.7 U	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	0.59 U	10 U
bis(2-Chloroethyl)ether	ug/L	0.014	--	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	0.63 U	1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	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	0.80 UJ	10 U
Butyl benzylphthalate (BBP)	ug/L	16	19	5.1 U	2.8 U	3.0 U	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	0.85 U	10 U
Caprolactam	ug/L	990	--	5.1 U	0.51 U	R	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	2.2 U	10 U
Carbazole	ug/L	--	--	5.1 U	3.1 U	3.3 U	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	0.68 U	10 U
Chrysene	ug/L	25	--	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	0.91 U	10 U
Dibenz(a,h)anthracene	ug/L	0.025	--	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	0.72 U	1.0 U
Dibenzofuran	ug/L	0.79	3.7	5.1 U	3.7 U	3.8 U	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	1.1 U	10 U
Diethyl phthalate	ug/L	1500	210	5.1 U	3.9 U	4.1 U	10 U	10 U	10 U	-	-	-	-	10 U	10 U	140	10 U	0.98 U	10 U
Dimethyl phthalate	ug/L	--	--	5.1 U	3.3 U	3.5 U	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	0.77 U	10 U
Di-n-butylphthalate (DBP)	ug/L	90	19	5.1 U	2.8 U	2.9 U	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	0.84 U	10 U
Di-n-octyl phthalate (DnOP)	ug/L	20	22	5.1 U	1.9 U	2.0 U	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	0.75 U	10 U
Fluoranthene	ug/L	80	0.04	5.1 U	2.7 U	2.8 U	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	0.84 U	10 U
Fluorene	ug/L	29	3	5.1 U	3.3 U	3.5 U	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	0.91 U	10 U
Hexachlorobenzene	ug/L	0.0098	0.0003	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	0.40 U	1.0 U
Hexachlorobutadiene	ug/L	0.14	1.3	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	0.78 U	2.1 U
Hexachlorocyclopentadiene	ug/L	0.041	--	5.1 U	4.7 U	4.9 U	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	3.6 U	10 U
Hexachloroethane	ug/L	0.33	12	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	0.80 U	1.0 U
Indeno(1,2,3-cd)pyrene	ug/L	0.25	--	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	0.94 U	1.0 U
Isophorone	ug/L	78	--	5.1 U	3.7 U	3.8 U	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	0.80 U	10 U
Naphthalene	ug/L	0.12	1.1	5.1 U	3.7 U	3.9 U	10 U	10 U	10 U	-	-	-	-	82 ^{ab}	10 U	10 U	10 U	60 ^{ab}	150 ^{ab}
Nitrobenzene	ug/L	0.14	--	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	0.57 U	1.0 U
N-Nitrosodi-n-propylamine	ug/L	0.011	--	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	0.43 U	1.0 U
N-Nitrosodiphenylamine	ug/L	12	210	5.1 U	3.9 U	4.1 U	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	0.89 U	10 U
Pentachlorophenol	ug/L	0.041	0.5	15 U	0.14 U	-	20 U	20 U	20 U	-	-	-	-	31 U	31 U	31 U	20 U	1.4 U	31 U
Phenanthrene	ug/L	12	0.4	5.1 U	3.6 U	3.8 U	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	1.3 U	10 U
Phenol	ug/L	580	4	5.1 UJ	0.91 U	-	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	0.29 U	10 U
Pyrene	ug/L	12	0.025	5.1 U	4.4 U	4.5 U	10 U	10 U	10 U	-	-	-	-	10 U	10 U	10 U	10 U	1.6 U	10 U
Metals																			
Aluminum	ug/L	2000	87	2250 J ^{ab}	1010 ^b	4460 J ^{ab}	232 ^b	946 ^b	778 ^b	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	ug/L	2000	87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	ug/L	0.78	30	10.0 U	10.0 U	4.6 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	ug/L	0.78	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	0.052	5	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	0.052	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	ug/L	380	4	198 J ^b	251 ^b	219 ^b	136 ^b	128 ^b	137 ^b	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	380	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	ug/L	2.5	0.66	2.0 U	2.0 U	0.94 U	0.80 U	0.80 U	0.80 U	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	ug/L	2.5	0.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	0.18	0.25	5.0 U	5.0 U	0.92 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-

Historical Groundwater Analytical Results
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Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-19 GW-017338- 111209-ACH-05 11/12/2009	OU-2 MW-19 GW-017338- 030110-ACH-004 3/1/2010	OU-2 MW-19 GW-017338- 051810-ACH-05 5/18/2010	OU-2 MW-19 WG-17338- 110517-SG-032 11/5/2017	OU-2 MW-19 WG-17338- 062618-AM-001 6/26/2018	OU-2 MW-19 WG-17338- 062618-AM-002 6/26/2018 (Duplicate)	OU-2 MW-19R GW-11222397- 011123-MA-08 1/11/2023	OU-2 MW-19R GW-11222397- 011123-MA-09 1/11/2023 (Duplicate)	OU-2 MW-19R GW-11222397- 111523-ZB-10 11/15/2023	OU-2 MW-19R GW-11222397- 111523-ZB-11 11/15/2023 (Duplicate)	OU-4 DA-MW40 DA-MW-40-W001 10/22/2012	OU-4 DA-MW40 DA-MW40-W002 6/28/2013	OU-4 DA-MW40 DA-MW40-W003 9/18/2013	OU-4 DA-MW40 DA-MW40-W004 10/14/2015	OU-4 DA-MW40 GW-11222397- 111523-CT-06 11/15/2023	OU-4 DA-MW41 DA-MW-41-W001 10/22/2012
Parameters	Units	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)																
Cadmium (dissolved)	ug/L	0.18	0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	ug/L	--	--	40500	43400	41700	33600	29400	31100	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	ug/L	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	ug/L	10	85	10.0 U	10.0 U	5.2 J	4.0 U	1.7 J	1.4 J	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	10	85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent)	ug/L	0.035	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	0.6	23	50.0 U	50.0 U	3.1 J ^a	4.0 U	4.0 U	4.0 U	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	0.6	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	ug/L	80	9	25.0 U	25.0 U	13.3 J ^b	4.0 U	4.0 U	4.0 U	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	ug/L	80	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	1400	300	5240 ^{ab}	6530 ^{ab}	8700 ^{ab}	1250 ^b	2140 ^{ab}	2170 ^{ab}	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	1400	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	15	2.5	5.0 U	5.0 U	6.3 ^b	1.2 U	1.3	1.2	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	ug/L	15	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	ug/L	--	--	11500	13700	12400	9070	7740	8080	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	ug/L	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	43	120	390 ^{ab}	487 ^{ab}	454 ^{ab}	208 ^{ab}	206 ^{ab}	214 ^{ab}	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	43	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	0.063	0.026	0.20 U	0.20 U	0.18 U	0.20 U	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	0.063	0.026	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	39	52	40.0 U	40.0 U	3.5 J	5.6 U	1.4 J	1.6 J	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	39	52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	ug/L	--	--	4640 J	4510 J	4470 J	4170	4080	4280	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	ug/L	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	10	1	10.0 U	10.0 U	4.8 U	10.0 U	10.0 U	10.0 U	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	10	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	9.4	3.2	1.3 J	10.0 U	0.97 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	ug/L	9.4	3.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	ug/L	--	--	73800	108000	73800	27500	34100	38100	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	ug/L	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	0.02	0.8	10.0 U	10.0 U	4.6 U	0.80 U	0.80 U	0.80 U	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	ug/L	0.02	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	ug/L	8.6	20	4.9 J	2.4 J	8.4 J	4.0 U	3.0 J	2.9 J	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	8.6	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	ug/L	600	120	30.0 U	6.2 J	10.0 J	16.0 U	16.0 U	16.0 U	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	600	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Historical Groundwater Analytical Results
Long-Term Stewardship Plan Groundwater Sampling Report, Year 2
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location:				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 WG-17338- 102312-MW36D- MM-266 10/23/2012	OU-4 MW-36D DA-MW36D- W001	OU-4 MW-36D DA-MW36D- W002	OU-4 MW-36D WG-17338- 110417-DT-025	OU-4 MW-36D GW-11222397- 011023-ZB-02	OU-4 MW-36D GW-11222397- 111423-ZB-05	OU-4 MW-36S WG-17338- 102212-MW36S- MM-265 10/22/2012	OU-4 MW-36S DA-MW36S- W001	OU-4 MW-36S DA-MW36S- W101 (Duplicate)	OU-4 MW-36S DA-MW36S- W002
Sample ID:				DA-MW-41-W101	DA-MW-41-W301	DA-MW41-W002	DA-MW41-W003	DA-MW41-W004	GW-11222397- 111523-CT-07										
Sample Date:				10/22/2012	10/22/2012	6/28/2013	9/18/2013	10/14/2015	11/15/2023										
Parameters	Units	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)																
Volatile Organic Compounds																			
1,1,1-Trichloroethane	ug/L	200	11	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.24 U	1.0 U	5.0 U	2.0 U	1.0 U	0.24 U	0.24 U	1.0 U	5.0 U	5.0 U	2.0 U
1,1,2,2-Tetrachloroethane	ug/L	0.076	610	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.37 U	1.0 U	5.0 U	2.0 U	1.0 U	0.37 U	0.37 UJ	1.0 U	5.0 U	5.0 U	2.0 U
1,1,2-Trichloroethane	ug/L	0.041	1200	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.20 U	1.0 U	5.0 U	2.0 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	5.0 U	2.0 U
1,1-Dichloroethane	ug/L	2.8	47	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 U	1.0 U	5.0 U	2.0 U	1.0 U	0.26 U	0.26 U	1.0 U	5.0 U	5.0 U	2.0 U
1,1-Dichloroethene	ug/L	7	25	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 U	1.0 U	5.0 U	2.0 U	1.0 U	0.26 U	0.26 U	1.0 U	5.0 U	5.0 U	2.0 U
1,2,3-Trichlorobenzene	ug/L	0.7	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	0.4	24	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.37 U	1.0 U	5.0 U	2.0 U	1.0 U	0.37 U	0.37 U	1.0 U	5.0 U	5.0 U	2.0 U
1,2,4-Trimethylbenzene	ug/L	5.6	--	40 ^a	1.0 U	1.0 U	1.0 U	50 ^a	83 ^a	13 ^a	5.7 ^a	290 ^a	1.0 U	65 ^a	69 ^a	550 D ^a	300 ^a	280 ^a	2.3
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.00033	--	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.38 U	1.0 U	5.0 U	2.0 U	1.0 U	0.38 UJ	0.38 U	1.0 U	5.0 U	5.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	--	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U	1.0 U	5.0 U	2.0 U	1.0 U	0.50 U	0.50 U	1.0 U	1.6 J ^a	1.8 J ^a	2.0 U
1,2-Dichlorobenzene	ug/L	30	0.7	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.21 U	1.0 U	5.0 U	2.0 U	1.0 U	0.21 U	0.21 U	1.0 U	5.0 U	5.0 U	2.0 U
1,2-Dichloroethane	ug/L	0.17	100	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.43 U	31 ^a	29 ^a	9.5 ^a	15 ^a	0.43 U	0.43 U	3.8 ^a	10 ^a	11 ^a	15 ^a
1,2-Dichloropropane	ug/L	0.82	--	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.35 U	1.0 U	5.0 U	2.0 U	1.0 U	0.35 U	0.35 U	1.0 U	5.0 U	5.0 U	2.0 U
1,3,5-Trimethylbenzene	ug/L	6	71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	--	--	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.34 U	1.0 U	5.0 U	2.0 U	1.0 U	0.34 U	0.34 U	1.0 U	5.0 U	5.0 U	2.0 U
1,4-Dichlorobenzene	ug/L	0.48	26	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.33 U	1.0 U	5.0 U	2.0 U	1.0 U	0.33 U	0.33 U	1.0 U	5.0 U	5.0 U	2.0 U
1,4-Dioxane	ug/L	0.46	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2,4-Trimethylpentane	ug/L	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	10 U	5.0 U	5.0 U	5.0 U	5.0 U	21	5.0 U	25 U	12	5.0 U	1.9 U	26	17	44	79	10 U
2-Hexanone	ug/L	3.8	99	10 U	5.0 U	5.0 U	5.0 U	5.0 U	1.1 U	5.0 U	25 U	5.0 J ^a	5.0 U	1.1 U	1.1 U	6.7 ^a	19 J ^a	25 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	170	10 U	5.0 U	5.0 U	5.0 U	5.0 U	1.3 U	1.8 J	25 U	5.8 J	5.0 U	1.3 U	1.3 U	16	25 U	25 U	10 U
Acetone	ug/L	1800	1500	10 U	5.0 U	5.0 U	5.0 U	5.0 U	36	R	25 U	20	5.0 U	9.7	50	R	25 U	25 U	10 U
Benzene	ug/L	0.46	370	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.20 U	830 ^{ab}	850 ^{ab}	720 ^{ab}	220 ^a	37 ^a	20 ^a	500 ^{ab}	800 ^{ab}	860 ^{ab}	500 ^{ab}
Bromodichloromethane	ug/L	0.13	--	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.34 U	1.0 U	5.0 U	2.0 U	1.0 U	0.34 U	0.34 U	1.0 U	5.0 U	5.0 U	2.0 U
Bromoform	ug/L	3.3	320	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.54 U	1.0 U	5.0 U	2.0 U	1.0 U	0.54 U	0.54 U	1.0 U	5.0 U	5.0 U	2.0 U
Bromomethane (Methyl bromide)	ug/L	0.75	--	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.55 U	1.0 U	5.0 U	2.0 U	1.0 UJ	0.55 U	0.55 U	1.0 U	5.0 U	5.0 U	2.0 U
Carbon disulfide	ug/L	81	0.92	2.0 U	1.0 U	0.19 J	1.0 U	1.0 U	0.82 UJ	1.0 U	5.0 U	2.0 U	1.0 U	0.82 U	0.82 UJ	0.28 J	5.0 U	5.0 U	2.0 U
Carbon tetrachloride	ug/L	0.46	13.3	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.21 U	1.0 U	5.0 U	2.0 U	1.0 U	0.21 U	0.21 U	1.0 U	5.0 U	5.0 U	2.0 U
Chlorobenzene	ug/L	7.8	1.3	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.38 U	1.0 U	5.0 U	2.0 U	1.0 U	0.38 U	0.38 U	1.0 U	5.0 U	5.0 U	2.0 U
Chlorobromomethane	ug/L	8.3	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	ug/L	830	--	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.32 U	1.0 U	5.0 U	2.0 U	1.0 U	0.32 U	0.32 U	1.0 U	5.0 U	5.0 U	2.0 U
Chloroform (Trichloromethane)	ug/L	0.22	1.8	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.33 U	2.0 ^{ab}	1.4 J ^a	2.0 U	1.0 U	0.33 U	0.33 U	10 ^{ab}	7.2 ^{ab}	7.9 ^{ab}	2.0 U
Chloromethane (Methyl chloride)	ug/L	19	--	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 UJ	1.0 U	5.0 U	2.0 U	1.0 U	7.9	0.40 U	1.0 U	5.0 U	5.0 U	2.0 U
cis-1,2-Dichloroethene	ug/L	2.5	--	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.22 U	1.0 U	5.0 U	2.0 U	0.38 J	0.22 U	0.22 U	1.0 U	5.0 U	5.0 U	2.0 U
cis-1,3-Dichloropropene	ug/L	--	--	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.22 U	1.0 U	5.0 U	2.0 U	1.0 U	0.22 U	0.22 U	1.0 U	5.0 U	5.0 U	2.0 U
Cyclohexane	ug/L	1300	--	140	1.0 U	6.6	1.0 U	93	110	86	120	200	22	100	170	280	280	250	39
Dibromochloromethane	ug/L	0.87	--	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.28 U	1.0 U	5.0 U	2.0 U	1.0 U	0.28 U	0.28 U	1.0 U	5.0 U	5.0 U	2.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	20	--	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.31 U	1.0 U	5.0 U	2.0 U	1.0 U	0.31 U	0.31 U	1.0 U	5.0 U	5.0 U	2.0 U
Ethylbenzene	ug/L	1.5	90	620 ^{ab}	1.0 U	1.9 ^a	0.63 J	110 ^{ab}	81 ^a	9.7 ^a	5.6 ^a	490 ^{ab}	0.46 J	210 ^{ab}	200 ^{ab}	1000 ^{ab}	480 ^{ab}	460 ^{ab}	3.5 ^a
Hexane	ug/L	150	0.58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyl benzene	ug/L	45	2.6	38 ^b	1.0 U	0.52 J	0.24 J	16 ^b	12 ^b	16 ^b	20 ^b	15 ^b	10 ^b	17 ^b	21 ^b	29 ^b	15 ^b	14 ^b	14 ^b
m&p-Xylenes	ug/L	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	2000	--	4.0 U	2.0 U	2.0 U	5.0 U	5.0 U	0.79 U	2.0 U	25 U	10 U	5.0 U	0.79 U	0.79 UJ	2.0 U	25 U	25 U	10 U
Methyl cyclohexane	ug/L	--	--	83	1.0 U	5.3	3.3	64	55	31	48 J	65	20	52	88	75	73 J	68 J	16
Methyl tert butyl ether (MTBE)	ug/L	10	11070	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.22 U	0.21 J	5.0 U	1.2 J	1.0 U	0.22 U	0.22 U	0.56 J	5.0 U	5.0 U	2.0 U

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Former GM Wilmington Assembly Plant
Wilmington, Delaware

				Operable Unit: Sample Location:	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 WG-17338- 102312-MW36D- MM-266 10/23/2012	OU-4 MW-36D DA-MW36D- W001	OU-4 MW-36D DA-MW36D- W002	OU-4 MW-36D WG-17338- 110417-DT-025	OU-4 MW-36D GW-11222397- 011023-ZB-02	OU-4 MW-36D GW-11222397- 111423-ZB-05	OU-4 MW-36S WG-17338- 102212-MW36S- MM-265 10/22/2012	OU-4 MW-36S DA-MW36S- W001	OU-4 MW-36S DA-MW36S- W101 (Duplicate)	OU-4 MW-36S DA-MW36S- W002
				Sample ID:	DA-MW-41-W101	DA-MW-41-W301	DA-MW41-W002	DA-MW41-W003	DA-MW41-W004	GW-11222397- 111523-CT-07										
				Sample Date:	10/22/2012	10/22/2012	6/28/2013	9/18/2013	10/14/2015	11/15/2023										
Parameters	Units	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)																	
Methylene chloride	ug/L	5	98.1	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.32 U	1.0 U	5.0 U	2.0 U	1.0 U	0.32 U	0.32 U	1.0 U	5.0 U	5.0 U	2.0 U	
Naphthalene	ug/L	0.12	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N-Heptane	ug/L	0.6	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
o-Xylene	ug/L	19	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	ug/L	100	72	14	1.0 U	1.0 U	1.0 U	3.0	0.45 J	0.31 J	5.0 U	5.1	1.0 U	0.42 U	0.42 U	17	5.0 U	5.0 U	2.0 U	
Tetrachloroethene	ug/L	1	111	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.25 U	1.0 U	5.0 U	2.0 U	1.0 U	0.25 U	0.25 U	1.0 U	5.0 U	5.0 U	2.0 U	
Toluene	ug/L	110	2	280 ^{ab}	1.0 U	1.7	0.55 J	44 ^b	14 ^b	20 ^b	6.1 ^b	130 ^{ab}	1.6	130 ^{ab}	28 ^b	1600 ^{ab}	440 ^{ab}	360 ^{ab}	2.7 ^b	
trans-1,2-Dichloroethene	ug/L	6.8	970	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.24 U	1.0 U	5.0 U	2.0 U	1.0 U	0.24 U	0.24 U	1.0 U	5.0 U	5.0 U	2.0 U	
trans-1,3-Dichloropropene	ug/L	--	--	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.22 U	1.0 U	5.0 U	2.0 U	1.0 U	0.22 U	0.22 U	1.0 U	5.0 U	5.0 U	2.0 U	
Trichloroethene	ug/L	0.28	21	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.31 U	0.16 J	5.0 U	2.0 U	1.0 U	0.31 U	0.31 U	1.0 U	5.0 U	5.0 U	2.0 U	
Trichlorofluoromethane (CFC-11)	ug/L	520	--	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.32 U	1.0 U	5.0 U	2.0 U	1.0 U	0.32 UJ	0.32 U	1.0 U	5.0 U	5.0 U	2.0 U	
Trifluorotrichloroethane (CFC-113)	ug/L	1000	--	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.31 U	1.0 U	5.0 U	2.0 U	1.0 U	0.31 U	0.31 U	1.0 U	5.0 U	5.0 U	2.0 U	
Vinyl chloride	ug/L	0.019	930	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.17 U	1.0 U	5.0 U	2.0 U	1.0 U	0.17 U	0.17 U	1.0 U	5.0 U	5.0 U	2.0 U	
Xylenes (total)	ug/L	19	13	330 ^{ab}	3.0 U	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}	1700 ^{ab}	1500 ^{ab}	10
Semi-Volatile Organic Compounds																				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71	--	11 U	-	10 U	10 U	10 U	0.63 U	10 U	10 U	10 U	10 U	0.63 U	0.63 U	10 U	10 U	10 U	10 U	
2,4,5-Trichlorophenol	ug/L	120	--	11 U	-	10 U	10 U	10 U	0.88 U	10 U	10 U	10 U	10 U	0.88 U	0.88 U	10 U	10 U	10 U	10 U	
2,4,6-Trichlorophenol	ug/L	1.2	4.9	11 U	-	10 U	10 U	10 U	0.86 U	10 U	10 U	10 U	10 U	0.86 U	0.86 U	10 U	10 U	10 U	10 U	
2,4-Dichlorophenol	ug/L	4.6	11	11 U	-	10 U	10 U	10 U	1.1 U	10 U	10 U	10 U	10 U	1.1 U	1.1 U	10 U	10 U	10 U	10 U	
2,4-Dimethylphenol	ug/L	36	--	11 U	-	10 U	10 U	10 U	0.62 U	10 U	10 U	10 U	10 U	1.7 J	3.1 J	5.0 J	10 U	10 U	10 U	
2,4-Dinitrophenol	ug/L	3.9	--	32 U	-	31 U	31 U	20 U	2.6 UJ	31 U	31 U	20 U	20 U	2.6 UJ	2.6 UJ	31 U	31 U	31 U	20 U	
2,4-Dinitrotoluene	ug/L	0.24	44	2.1 U	-	2.0 U	2.0 U	2.0 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	2.0 U	2.0 U	2.0 U	
2,6-Dinitrotoluene	ug/L	0.049	81	2.1 U	-	2.0 U	2.0 U	2.0 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	2.0 U	2.0 U	2.0 U	
2-Chloronaphthalene	ug/L	75	--	11 U	-	10 U	10 U	10 U	1.2 U	10 U	10 U	10 U	10 U	1.2 U	1.2 U	10 U	10 U	10 U	10 U	
2-Chlorophenol	ug/L	9.1	24	11 U	-	10 U	10 U	10 U	0.38 U	10 U	10 U	10 U	10 U	0.38 U	0.38 U	10 U	10 U	10 U	10 U	
2-Methylnaphthalene	ug/L	3.6	4.7	7.6 J ^{ab}	-	10 U	10 U	4.1 J ^a	5.5 J ^{ab}	10 U	3.6 J	150 ^{ab}	10 U	7.3 J ^{ab}	13 ^{ab}	130 ^{ab}	180 ^{ab}	170 ^{ab}	10 U	
2-Methylphenol	ug/L	93	13	11 U	-	10 U	10 U	10 U	0.67 U	10 U	10 U	10 U	10 U	0.67 U	0.67 U	3.2 J	10 U	10 U	10 U	
2-Nitroaniline	ug/L	19	--	21 U	-	20 U	20 U	10 U	0.47 U	21 U	20 U	10 U	10 U	0.47 U	0.47 U	21 U	20 U	20 U	10 U	
2-Nitrophenol	ug/L	--	--	11 U	-	10 U	10 U	10 U	0.75 U	10 U	10 U	10 U	10 U	0.75 U	0.75 U	10 U	10 U	10 U	10 U	
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	21 U	-	20 U	20 U	10 U	1.4 U	21 U	20 U	10 U	10 U	1.4 U	1.4 U	21 U	20 U	20 U	10 U	
3-Nitroaniline	ug/L	--	--	21 U	-	20 U	20 U	10 U	1.9 U	21 U	20 U	10 U	10 U	1.9 U	1.9 U	21 U	20 U	20 U	10 U	
4,6-Dinitro-2-methylphenol	ug/L	0.15	--	32 U	-	31 U	31 U	20 U	3.0 U	31 U	31 U	20 U	20 U	3.0 UJ	3.0 U	31 U	31 U	31 U	20 U	
4-Bromophenyl phenyl ether	ug/L	--	--	11 U	-	10 U	10 U	10 U	0.75 U	10 U	10 U	10 U	10 U	0.75 U	0.75 U	10 U	10 U	10 U	10 U	
4-Chloro-3-methylphenol	ug/L	140	--	11 U	-	10 U	10 U	10 U	0.58 U	10 U	10 U	10 U	10 U	0.58 U	0.58 U	10 U	10 U	10 U	10 U	
4-Chloroaniline	ug/L	0.37	232	11 U	-	10 U	10 U	10 U	-	10 U	10 U	10 U	10 U	1.9 U	-	10 U	10 U	10 U	10 U	
4-Chlorophenyl phenyl ether	ug/L	--	--	11 U	-	10 U	10 U	10 U	1.3 U	10 U	10 U	10 U	10 U	1.3 U	1.3 U	10 U	10 U	10 U	10 U	
4-Methylphenol	ug/L	37	543	5.8 J	-	10 U	10 U	10 U	0.65 U	10 U	10 U	10 U	10 U	0.75 J	0.65 U	4.9 J	2.4 J	2.4 J	10 U	
4-Nitroaniline	ug/L	3.8	--	21 U	-	20 U	20 U	10 U	1.2 U	21 U	20 U	10 U	10 U	1.2 U	1.2 U	21 U	20 U	20 U	10 U	
4-Nitrophenol	ug/L	--	--	32 U	-	31 U	31 U	20 U	4.0 U	31 U	31 U	20 U	20 U	4.0 U	4.0 U	31 U	31 U	31 U	20 U	
Acenaphthene	ug/L	53	5.8	11 U	-	10 U	10 U	10 U	1.1 U	10 U	10 U	2.4 J	10 U	1.1 U	1.1 U	10 U	10 U	10 U	10 U	
Acenaphthylene	ug/L	--	--	11 U	-	10 U	10 U	10 U	0.82 U	10 U	10 U	10 U	10 U	0.82 U	0.82 U	10 U	10 U	10 U	10 U	
Acetophenone	ug/L	190	--	11 U	-	10 U	10 U	10 U	7.4 J	10 U	10 U	26	10 U	2.3 U	11	10 U	28	10 U	10 U	
Anthracene	ug/L	180	0.012	11 U	-	10 U	10 U	10 U	1.3 U	10 U	10 U	10 U	10 U	1.3 U	1.3 U	10 U	10 U	10 U	10 U	
Atrazine	ug/L	0.3	1.8	11 U*	-	10 U	10 U	2.0 U	1.3 U	10 U	10 U	2.0 U	2.0 U	1.3 U	1.3 U	10 U	10 U	10 U	2.0 U	
Benzaldehyde	ug/L	19	--	11 U*	-	10 U*	10 UJ	10 U	2.1 UJ	10 UJ	10 UJ	10 U	10 U	2.1 UJ	2.1 UJ	10 UJ	10 UJ	10 UJ	10 U	
Benzo(a)anthracene	ug/L	0.03	0.018	1.1 U	-	1.0 U	1.0 U	1.0 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	1.0 U	1.0 U	1.0 U	

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Operable Unit: Sample Location: Sample ID: Sample Date:				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 WG-17338- 102312-MW36D- MM-266 10/23/2012	OU-4 MW-36D DA-MW36D- W001	OU-4 MW-36D DA-MW36D- W002	OU-4 MW-36D WG-17338- 110417-DT-025	OU-4 MW-36D GW-11222397- 011023-ZB-02	OU-4 MW-36D GW-11222397- 111423-ZB-05	OU-4 MW-36S WG-17338- 102212-MW36S- MM-265 10/22/2012	OU-4 MW-36S DA-MW36S- W001	OU-4 MW-36S DA-MW36S- W101 (Duplicate)	OU-4 MW-36S DA-MW36S- W002
Parameters	Units	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)																
Benzo(a)pyrene	ug/L	0.025	0.015	1.1 U	-	1.0 U	1.0 U	1.0 U	0.41 UJ	0.052 U	1.0 U	1.0 U	1.0 U	0.41 U	0.41 UJ	0.052 U	1.0 U	1.0 U	1.0 U
Benzo(b)fluoranthene	ug/L	0.25	--	1.1 U	-	1.0 U	1.0 U	1.0 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	1.0 U	1.0 U	1.0 U
Benzo(g,h,i)perylene	ug/L	--	--	11 U	-	10 U	10 U	10 U	0.70 U	10 U	10 U	10 U	10 U	0.70 U	0.70 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	ug/L	2.5	--	1.1 U	-	1.0 U	1.0 U	1.0 U	0.67 U	1.0 U	1.0 U	1.0 U	1.0 U	0.67 U	0.67 U	1.0	1.0 U	1.0 U	1.0 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	11 U	-	10 U	10 U	10 U	1.2 U	10 U	10 U	12 ^a	0.74 J ^a	1.2 U	1.2 U	8.6 J ^a	11 ^a	10 ^a	10 U
bis(2-Chloroethoxy)methane	ug/L	5.9	--	11 U	-	10 U	10 U	10 U	0.59 U	10 U	10 U	10 U	10 U	0.59 U	0.59 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	ug/L	0.014	--	1.1 U	-	1.0 U	1.0 U	1.0 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	1.0 U	1.0 U	1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	11 U	-	10 U	10 U	4.6 B	0.80 UJ	10 U	10 U	8.3 B ^a	2.0 U	0.80 U	0.80 UJ	10 U	10 U	10 U	8.7 B ^a
Butyl benzylphthalate (BBP)	ug/L	16	19	11 U	-	10 U	10 U	10 U	0.85 U	10 U	10 U	10 U	10 U	0.85 U	0.85 U	10 U	10 U	10 U	10 U
Caprolactam	ug/L	990	--	11 U	-	10 U	10 U	10 U	2.2 U	10 U	R	10 U	10 U	2.2 U	2.2 U	10 U	R	R	10 U
Carbazole	ug/L	--	--	11 U	-	10 U	10 U	10 U	0.68 U	10 U	10 U	10 U	10 U	0.68 U	0.68 U	10 U	10 U	10 U	10 U
Chrysene	ug/L	25	--	11 U	-	10 U	10 U	2.0 U	0.91 U	10 U	10 U	2.0 U	2.0 U	0.91 U	0.91 U	10 U	10 U	10 U	2.0 U
Dibenz(a,h)anthracene	ug/L	0.025	--	1.1 U	-	1.0 U	1.0 U	1.0 U	0.72 U	1.0 U	1.0 U	1.0 U	1.0 U	0.72 U	0.72 U	0.30 J ^a	1.0 U	1.0 U	1.0 U
Dibenzofuran	ug/L	0.79	3.7	11 U	-	10 U	10 U	10 U	1.1 U	10 U	10 U	3.7 J ^a	10 U	1.1 U	1.1 U	3.0 J ^a	3.8 J ^{ab}	3.6 J ^a	10 U
Diethyl phthalate	ug/L	1500	210	11 U	-	10 U	10 U	10 U	0.98 U	10 U	10 U	10 U	10 U	0.98 U	0.98 U	10 U	10 U	10 U	10 U
Dimethyl phthalate	ug/L	--	--	11 U	-	10 U	10 U	10 U	0.77 U	10 U	10 U	10 U	10 U	0.77 U	0.77 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate (DBP)	ug/L	90	19	11 U	-	10 U	10 U	10 U	0.84 U	10 U	10 U	10 U	10 U	0.84 U	0.84 U	10 U	10 U	10 U	10 U
Di-n-octyl phthalate (DnOP)	ug/L	20	22	11 U	-	10 U	10 U	10 U	0.75 U	10 U	10 U	10 U	10 U	0.75 U	0.75 U	10 U	10 U	10 U	10 U
Fluoranthene	ug/L	80	0.04	11 U	-	10 U	10 U	10 U	0.84 U	10 U	10 U	10 U	10 U	0.84 U	0.84 U	10 U	10 U	10 U	10 U
Fluorene	ug/L	29	3	11 U	-	10 U	10 U	10 U	0.91 U	10 U	10 U	5.1 J ^b	10 U	0.91 U	0.91 U	3.3 J ^b	4.0 J ^b	3.6 J ^b	10 U
Hexachlorobenzene	ug/L	0.0098	0.0003	1.1 U	-	1.0 U	1.0 U	1.0 U	0.40 U	0.021 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	0.021 U	1.0 U	1.0 U	1.0 U
Hexachlorobutadiene	ug/L	0.14	1.3	2.1 U	-	2.0 U	2.0 U	1.0 U	0.78 U	2.1 U	2.0 U	1.0 U	1.0 U	0.78 U	0.78 U	2.1 U	2.0 U	2.0 U	1.0 U
Hexachlorocyclopentadiene	ug/L	0.041	--	11 U	-	10 U	10 U	10 U	3.6 U	10 U	10 U	10 U	10 U	3.6 U	3.6 U	10 U	10 U	10 U	10 U
Hexachloroethane	ug/L	0.33	12	1.1 U	-	1.0 U	1.0 U	1.0 U	0.80 U	1.0 U	1.0 U	1.0 U	1.0 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	0.25	--	1.1 U	-	1.0 U	1.0 U	1.0 U	0.94 U	1.0 U	1.0 U	1.0 U	1.0 U	0.94 U	0.94 U	0.58 J ^a	1.0 U	1.0 U	1.0 U
Isophorone	ug/L	78	--	11 U	-	10 U	10 U	10 U	0.80 U	10 U	10 U	10 U	10 U	0.80 U	0.80 U	10 U	10 U	10 U	10 U
Naphthalene	ug/L	0.12	1.1	120 ^{ab}	-	26 ^{ab}	10 U	69 ^{ab}	31 ^{ab}	17 ^{ab}	22 ^{ab}	180 ^{ab}	10 U	57 ^{ab}	40 ^{ab}	270 ^{ab}	240 ^{ab}	240 ^{ab}	10 ^{ab}
Nitrobenzene	ug/L	0.14	--	1.1 U	-	1.0 U	1.0 UJ	1.0 U	0.57 U	1.0 U	1.0 UJ	1.0 U	1.0 U	0.57 U	0.57 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U
N-Nitrosodi-n-propylamine	ug/L	0.011	--	1.1 U	-	1.0 U	1.0 U	1.0 U	0.43 U	1.0 U	1.0 U	1.0 U	1.0 U	0.43 U	0.43 U	1.0 U	1.0 U	1.0 U	1.0 U
N-Nitrosodiphenylamine	ug/L	12	210	11 U	-	10 U	10 U	10 U	0.89 U	10 U	10 U	10 U	10 U	0.89 U	0.89 U	10 U	10 U	10 U	10 U
Pentachlorophenol	ug/L	0.041	0.5	32 U	-	31 U	31 U	20 U	1.4 U	0.21 U	31 U	20 U	20 U	1.4 U	1.4 U	0.21 U	31 U	31 U	20 U
Phenanthrene	ug/L	12	0.4	11 U	-	10 U	10 U	10 U	1.3 U	10 U	10 U	3.5 J ^b	10 U	1.3 U	1.3 U	10 U	3.4 J ^b	3.3 J ^b	10 U
Phenol	ug/L	580	4	11 U	-	10 U	10 U	10 U	0.29 U	10 U	1.5 J	3.4 J	10 U	0.29 U	0.29 U	10 U	10 U	10 U	10 U
Pyrene	ug/L	12	0.025	11 U	-	10 U	10 U	10 U	1.6 U	10 U	10 U	10 U	10 U	1.6 U	1.6 U	10 U	10 U	10 U	10 U
Metals																			
Aluminum	ug/L	2000	87	-	-	-	-	-	-	274 ^b	-	-	63.2	-	-	3140 ^{ab}	-	-	-
Aluminum (dissolved)	ug/L	2000	87	-	-	-	-	-	-	200 U	-	-	-	-	-	200 U	-	-	-
Antimony	ug/L	0.78	30	-	-	-	-	-	-	10.0 U	-	-	2.0 U	-	-	10.0 U	-	-	-
Antimony (dissolved)	ug/L	0.78	30	-	-	-	-	-	-	10.0 U	-	-	-	-	-	10.0 U	-	-	-
Arsenic	ug/L	0.052	5	-	-	-	-	-	-	5.0 U	-	-	0.75 J ^a	-	-	4.4 J ^a	-	-	-
Arsenic (dissolved)	ug/L	0.052	5	-	-	-	-	-	-	5.0 U	-	-	-	-	-	5.0 U	-	-	-
Barium	ug/L	380	4	-	-	-	-	-	-	259 ^b	-	-	601 ^{ab}	-	-	278 ^b	-	-	-
Barium (dissolved)	ug/L	380	4	-	-	-	-	-	-	256 ^b	-	-	-	-	-	227 ^b	-	-	-
Beryllium	ug/L	2.5	0.66	-	-	-	-	-	-	2.0 U	-	-	0.80 U	-	-	2.0 U	-	-	-
Beryllium (dissolved)	ug/L	2.5	0.66	-	-	-	-	-	-	2.0 U	-	-	-	-	-	2.0 U	-	-	-
Cadmium	ug/L	0.18	0.25	-	-	-	-	-	-	5.0 U	-	-	2.0 U	-	-	5.0 U	-	-	-

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Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				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 WG-17338- 102312-MW36D- MM-266 10/23/2012	OU-4 MW-36D DA-MW36D- W001	OU-4 MW-36D DA-MW36D- W002	OU-4 MW-36D WG-17338- 110417-DT-025	OU-4 MW-36D GW-11222397- 011023-ZB-02	OU-4 MW-36D GW-11222397- 111423-ZB-05	OU-4 MW-36S WG-17338- 102212-MW36S- MM-265 10/22/2012	OU-4 MW-36S DA-MW36S- W001	OU-4 MW-36S DA-MW36S- W101 9/18/2013 (Duplicate)	OU-4 MW-36S DA-MW36S- W002 10/14/2015
Parameters	Units	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)																	
Cadmium (dissolved)	ug/L	0.18	0.25	-	-	-	-	-	-	-	5.0 U	-	-	-	-	-	5.0 U	-	-	-
Calcium	ug/L	--	--	-	-	-	-	-	-	-	18700	-	-	24300	-	-	24500	-	-	-
Calcium (dissolved)	ug/L	--	--	-	-	-	-	-	-	-	18500	-	-	-	-	-	23500	-	-	-
Chromium	ug/L	10	85	-	-	-	-	-	-	-	10.0 U	-	-	4.0 U	-	-	10.0 U	-	-	-
Chromium (dissolved)	ug/L	10	85	-	-	-	-	-	-	-	10.0 U	-	-	-	-	-	10.0 U	-	-	-
Chromium VI (hexavalent)	ug/L	0.035	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	0.6	23	-	-	-	-	-	-	-	22.1 J ^a	-	-	38.0 ^{ab}	-	-	139 ^{ab}	-	-	-
Cobalt (dissolved)	ug/L	0.6	23	-	-	-	-	-	-	-	21.4 J ^a	-	-	-	-	-	124 ^{ab}	-	-	-
Copper	ug/L	80	9	-	-	-	-	-	-	-	25.0 U	-	-	4.0 U	-	-	25.0 U	-	-	-
Copper (dissolved)	ug/L	80	9	-	-	-	-	-	-	-	25.0 U	-	-	-	-	-	25.0 U	-	-	-
Iron	ug/L	1400	300	-	-	-	-	-	-	-	1590 ^{ab}	-	-	6760 ^{ab}	-	-	66200 ^{ab}	-	-	-
Iron (dissolved)	ug/L	1400	300	-	-	-	-	-	-	-	1200 ^b	-	-	-	-	-	2390 ^{ab}	-	-	-
Lead	ug/L	15	2.5	-	-	-	-	-	-	-	5.0 U	-	-	1.2 U	-	-	5.0 U	-	-	-
Lead (dissolved)	ug/L	15	2.5	-	-	-	-	-	-	-	5.0 U	-	-	-	-	-	5.0 U	-	-	-
Magnesium	ug/L	--	--	-	-	-	-	-	-	-	6660	-	-	9590	-	-	16600	-	-	-
Magnesium (dissolved)	ug/L	--	--	-	-	-	-	-	-	-	6590	-	-	-	-	-	16000	-	-	-
Manganese	ug/L	43	120	-	-	-	-	-	-	-	2120 ^{ab}	-	-	8480 ^{ab}	-	-	29300 ^{ab}	-	-	-
Manganese (dissolved)	ug/L	43	120	-	-	-	-	-	-	-	2080 ^{ab}	-	-	-	-	-	29100 ^{ab}	-	-	-
Mercury	ug/L	0.063	0.026	-	-	-	-	-	-	-	0.20 U	-	-	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	-	-	-	-	-	-	-	6.0 J	-	-	5.6 U	-	-	40.0 U	-	-	-
Nickel (dissolved)	ug/L	39	52	-	-	-	-	-	-	-	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	1	-	-	-	-	-	-	-	10.0 U	-	-	10.0 U	-	-	10.0 U	-	-	-
Selenium (dissolved)	ug/L	10	1	-	-	-	-	-	-	-	6.5 J ^b	-	-	-	-	-	30.0 U	-	-	-
Silver	ug/L	9.4	3.2	-	-	-	-	-	-	-	10.0 U	-	-	2.0 U	-	-	7.0 J ^b	-	-	-
Silver (dissolved)	ug/L	9.4	3.2	-	-	-	-	-	-	-	10.0 U	-	-	-	-	-	6.6 J ^b	-	-	-
Sodium	ug/L	--	--	-	-	-	-	-	-	-	21700	-	-	22900	-	-	43900	-	-	-
Sodium (dissolved)	ug/L	--	--	-	-	-	-	-	-	-	21300	-	-	-	-	-	42400	-	-	-
Thallium	ug/L	0.02	0.8	-	-	-	-	-	-	-	10.0 U	-	-	0.80 U	-	-	27.4 J ^{ab}	-	-	-
Thallium (dissolved)	ug/L	0.02	0.8	-	-	-	-	-	-	-	10.0 U	-	-	-	-	-	30.0 U	-	-	-
Vanadium	ug/L	8.6	20	-	-	-	-	-	-	-	50.0 U	-	-	4.0 U	-	-	7.3 J	-	-	-
Vanadium (dissolved)	ug/L	8.6	20	-	-	-	-	-	-	-	50.0 U	-	-	-	-	-	50.0 U	-	-	-
Zinc	ug/L	600	120	-	-	-	-	-	-	-	9.4 J	-	-	16.0 U	-	-	30.0 U	-	-	-
Zinc (dissolved)	ug/L	600	120	-	-	-	-	-	-	-	9.4 J	-	-	-	-	-	30.0 U	-	-	-

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Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-36S WG-17338- 110417-DT-023 11/4/2017	OU-4 MW-36S DA-MW36S- W003 8/28/2018	OU-4 DA-MW36S DA-36S-W004 12/18/2018	OU-4 MW-36S GW-11222397- 011023-MA-03 1/10/2023	OU-4 MW-36S GW-11222397- 011023-MA-04 1/10/2023 (Duplicate)	OU-4 MW-36S GW-11222397- 111423-ES-02 11/14/2023	OU-4 MW-36S GW-11222397- 111423-ES-03 11/14/2023 (Duplicate)	OU-4 MW-50 DA-MW50-W001 10/14/2015	OU-4 MW-50 WG-17338- 110717-DT-051 11/7/2017	OU-4 MW-50 WG-17338- 110717-DT-054 11/7/2017 (Duplicate)	OU-4 MW-50 DA-MW50-W002 8/28/2018	OU-4 DA-MW50 DA-W50-W003 12/18/2018	OU-4 MW-50R GW-11222397- 011023-ZB-05 1/10/2023	OU-4 MW-50R GW-11222397- 111423-ZB-04 11/14/2023	OU-5 MW-28 WG-17338- 111214-RR-003 11/12/2014	OU-5 MW-28 WG-17338- 111214-RR-004 11/12/2014 (Duplicate)
Parameters	Units	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)																
Volatile Organic Compounds																			
1,1,1-Trichloroethane	ug/L	200	11	2.0 U	1.0 U	1.0 U	0.24 U	-	0.24 U	-	5.0 U	5.0 U	10 U	1.0 U	2.0 U	0.24 U	1.2 U	-	-
1,1,2,2-Tetrachloroethane	ug/L	0.076	610	2.0 U	1.0 U	1.0 U	0.37 U	-	0.37 UJ	-	5.0 U	5.0 U	10 U	1.0 U	2.0 U	0.37 U	1.8 UJ	-	-
1,1,2-Trichloroethane	ug/L	0.041	1200	2.0 U	1.0 U	1.0 U	0.20 U	-	0.20 U	-	5.0 U	5.0 U	10 U	1.0 U	2.0 U	0.20 U	1.0 U	-	-
1,1-Dichloroethane	ug/L	2.8	47	2.0 U	1.0 U	1.0 U	0.26 U	-	0.26 U	-	5.0 U	5.0 U	10 U	1.0 U	2.0 U	0.26 U	1.3 U	-	-
1,1-Dichloroethene	ug/L	7	25	2.0 U	1.0 U	1.0 U	0.26 U	-	0.26 U	-	5.0 U	5.0 U	10 U	1.0 U	2.0 U	0.26 U	1.3 U	-	-
1,2,3-Trichlorobenzene	ug/L	0.7	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	0.4	24	2.0 U	1.0 U	1.0 U	0.37 U	-	0.37 U	-	5.0 U	5.0 U	10 U	1.0 U	2.0 U	0.37 U	1.8 U	-	-
1,2,4-Trimethylbenzene	ug/L	5.6	--	270 ^a	53 ^a	11 ^a	160 ^a	-	89 ^a	-	65 ^a	130 ^a	140 ^a	23 ^a	35 ^a	0.37 U	36 ^a	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.00033	--	2.0 U	1.0 U	1.0 U	0.38 UJ	-	0.38 U	-	5.0 U	5.0 U	10 U	1.0 U	2.0 U	0.38 UJ	1.9 U	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	--	2.0 U	1.0 U	1.0 U	0.50 U	-	0.50 U	-	5.0 U	5.0 U	10 U	1.0 U	2.0 U	0.50 U	2.5 U	-	-
1,2-Dichlorobenzene	ug/L	30	0.7	2.0 U	1.0 U	1.0 U	0.21 U	-	0.21 U	-	1.2 J ^b	5.0 U	10 U	1.4 ^b	1.1 J ^b	0.21 U	1.1 U	-	-
1,2-Dichloroethane	ug/L	0.17	100	30 ^a	1.0 U	0.73 J ^a	0.43 U	-	2.4 ^a	-	3.3 J ^a	24 ^a	27 ^a	1.0 U	1.2 J ^a	0.43 U	20 ^a	-	-
1,2-Dichloropropane	ug/L	0.82	--	2.0 U	1.0 U	1.0 U	0.35 U	-	0.35 U	-	5.0 U	5.0 U	10 U	1.0 U	2.0 U	0.35 U	1.8 U	-	-
1,3,5-Trimethylbenzene	ug/L	6	71	-	18 ^a	4.4	-	-	-	-	-	-	-	18 ^a	30 ^a	-	-	-	-
1,3-Dichlorobenzene	ug/L	--	--	2.0 U	1.0 U	1.0 U	0.34 U	-	0.34 U	-	5.0 U	5.0 U	10 U	0.78 J	2.0 U	0.34 U	1.7 U	-	-
1,4-Dichlorobenzene	ug/L	0.48	26	2.0 U	1.0 U	1.0 U	0.33 U	-	0.33 U	-	5.0 U	5.0 U	10 U	1.1 ^a	2.0 U	0.33 U	1.7 U	-	-
1,4-Dioxane	ug/L	0.46	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2,4-Trimethylpentane	ug/L	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	20	14	5.9	7.9	-	22	-	25 U	25 U	50 U	5.0 U	10 U	1.9 U	9.3 U	-	-
2-Hexanone	ug/L	3.8	99	10 U	23 ^a	23 ^a	1.1 U	-	1.1 U	-	25 U	25 U	50 U	5.0 U	10 U	1.1 U	5.7 U	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	170	17	30	19	1.3 U	-	1.3 U	-	25 U	25 U	50 U	5.0 U	10 U	1.3 U	6.5 U	-	-
Acetone	ug/L	1800	1500	58	28	12 U	15	-	47	-	25 U	25 U	50 U	5.0 U	15 U	4.4 U	22 U	-	-
Benzene	ug/L	0.46	370	750 ^{ab}	52 ^a	32 ^a	140 ^a	-	96 ^a	-	110 ^a	450 ^{ab}	420 ^{ab}	84 ^a	79 ^a	0.20 U	970 ^{ab}	-	-
Bromodichloromethane	ug/L	0.13	--	2.0 U	1.0 U	1.0 U	0.34 U	-	0.34 U	-	5.0 U	5.0 U	10 U	1.0 U	2.0 U	0.34 U	1.7 U	-	-
Bromoform	ug/L	3.3	320	2.0 U	1.0 U	1.0 U	0.54 U	-	0.54 U	-	5.0 U	5.0 U	10 U	1.0 U	2.0 U	0.54 U	2.7 U	-	-
Bromomethane (Methyl bromide)	ug/L	0.75	--	2.0 UJ	1.0 U	1.0 UJ	0.55 U	-	0.55 U	-	5.0 U	5.0 UJ	10 U	1.0 U	2.0 UJ	0.55 U	2.8 U	-	-
Carbon disulfide	ug/L	81	0.92	2.0 U	1.0 U	1.0 U	0.82 U	-	0.82 UJ	-	5.0 U	5.0 U	10 U	1.0 U	2.0 U	0.82 U	4.1 UJ	-	-
Carbon tetrachloride	ug/L	0.46	13.3	2.0 U	1.0 U	1.0 U	0.21 U	-	0.21 U	-	5.0 U	5.0 U	10 U	1.0 U	2.0 U	0.21 U	1.0 U	-	-
Chlorobenzene	ug/L	7.8	1.3	2.0 U	1.0 U	1.0 U	0.38 U	-	0.38 U	-	5.0 U	5.0 U	10 U	1.0 U	2.0 U	0.38 U	1.9 U	-	-
Chlorobromomethane	ug/L	8.3	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	ug/L	830	--	2.0 U	1.0 U	1.0 U	0.32 U	-	0.32 U	-	5.0 U	5.0 U	10 U	1.0 U	2.0 U	0.32 U	1.6 U	-	-
Chloroform (Trichloromethane)	ug/L	0.22	1.8	2.0 U	1.0 U	1.0 U	0.33 U	-	0.33 U	-	5.0 U	5.0 U	10 U	1.0 U	2.0 U	0.33 U	1.6 U	-	-
Chloromethane (Methyl chloride)	ug/L	19	--	2.0 U	1.0 U	1.0 U	0.40 U	-	0.40 U	-	5.0 U	5.0 U	10 U	1.0 U	2.0 U	0.40 U	2.0 U	-	-
cis-1,2-Dichloroethene	ug/L	2.5	--	2.0 U	1.0 U	1.0 U	0.22 U	-	0.22 U	-	5.0 U	5.0 U	10 U	1.0 U	2.0 U	0.22 U	1.8 J	-	-
cis-1,3-Dichloropropene	ug/L	--	--	2.0 U	1.0 U	1.0 U	0.22 U	-	0.22 U	-	5.0 U	5.0 U	10 U	1.0 U	2.0 U	0.22 U	1.1 U	-	-
Cyclohexane	ug/L	1300	--	250	33	10	110	-	120	-	270	340	330	160	120	0.32 U	250	-	-
Dibromochloromethane	ug/L	0.87	--	2.0 U	1.0 U	1.0 U	0.28 U	-	0.28 U	-	5.0 U	5.0 U	10 U	1.0 U	2.0 U	0.28 U	1.4 U	-	-
Dichlorodifluoromethane (CFC-12)	ug/L	20	--	2.0 U	1.0 U	1.0 U	0.31 U	-	0.31 U	-	5.0 U	5.0 U	10 U	1.0 U	2.0 U	0.31 U	1.6 U	-	-
Ethylbenzene	ug/L	1.5	90	510 ^{ab}	70 ^a	20 ^a	340 ^{ab}	-	320 ^{ab}	-	640 ^{ab}	690 ^{ab}	720 ^{ab}	230 ^{ab}	350 ^{ab}	0.30 U	550 ^{ab}	-	-
Hexane	ug/L	150	0.58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyl benzene	ug/L	45	2.6	16 ^b	2.9 ^b	0.85 J	11 ^b	-	8.3 ^b	-	37 ^b	51 ^{ab}	47 ^{ab}	30 ^b	25 ^b	0.34 U	37 ^b	-	-
m&p-Xylenes	ug/L	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	2000	--	10 U	5.0 U	5.0 U	0.79 U	-	0.79 UJ	-	25 U	25 U	50 U	5.0 U	10 U	0.79 U	3.9 UJ	-	-
Methyl cyclohexane	ug/L	--	--	87	14	5.0	36	-	29	-	100	130	150	61	43	0.71 U	86	-	-
Methyl tert butyl ether (MTBE)	ug/L	10	11070	2.0 U	1.0 U	1.0 U	0.28 J	-	0.22 U	-	5.0 U	5.0 U	10 U	1.0 U	2.0 U	0.22 U	1.1 U	-	-

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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-36S WG-17338- 110417-DT-023 11/4/2017	OU-4 MW-36S DA-MW36S- W003 8/28/2018	OU-4 DA-MW36S DA-36S-W004 12/18/2018	OU-4 MW-36S GW-11222397- 011023-MA-03 1/10/2023	OU-4 MW-36S GW-11222397- 011023-MA-04 1/10/2023 (Duplicate)	OU-4 MW-36S GW-11222397- 111423-ES-02 11/14/2023	OU-4 MW-36S GW-11222397- 111423-ES-03 11/14/2023 (Duplicate)	OU-4 MW-50 DA-MW50-W001 10/14/2015	OU-4 MW-50 WG-17338- 110717-DT-051 11/7/2017	OU-4 MW-50 WG-17338- 110717-DT-054 11/7/2017 (Duplicate)	OU-4 MW-50 DA-MW50-W002 8/28/2018	OU-4 DA-MW50 DA-W50-W003 12/18/2018	OU-4 MW-50R GW-11222397- 011023-ZB-05 1/10/2023	OU-4 MW-50R GW-11222397- 111423-ZB-04 11/14/2023	OU-5 MW-28 WG-17338- 111214-RR-003 11/12/2014	OU-5 MW-28 WG-17338- 111214-RR-004 11/12/2014 (Duplicate)
Parameters	Units	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)																
Methylene chloride	ug/L	5	98.1	2.0 U	1.0 U	1.0 U	0.32 U	-	0.32 U	-	5.0 U	5.0 U	10 U	1.0 U	2.0 U	0.32 U	1.6 U	-	-
Naphthalene	ug/L	0.12	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Heptane	ug/L	0.6	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	ug/L	19	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	100	72	2.0 U	1.0 U	1.0 U	0.42 U	-	0.42 U	-	13	5.0 U	10 U	1.0 U	3.1	0.42 U	2.1 U	-	-
Tetrachloroethene	ug/L	1	111	2.0 U	1.0 U	1.0 U	0.25 U	-	0.25 U	-	5.0 U	5.0 U	10 U	1.0 U	2.0 U	0.25 U	1.2 U	-	-
Toluene	ug/L	110	2	78 ^b	9.9 ^b	4.9 ^b	49 ^b	-	26 ^b	-	760 ^{ab}	630 ^{ab}	680 ^{ab}	110 ^b	170 ^{ab}	0.38 U	210 ^{ab}	-	-
trans-1,2-Dichloroethene	ug/L	6.8	970	2.0 U	1.0 U	1.0 U	0.24 U	-	0.24 U	-	5.0 U	5.0 U	10 U	1.0 U	2.0 U	0.24 U	1.2 U	-	-
trans-1,3-Dichloropropene	ug/L	--	--	2.0 U	1.0 U	1.0 U	0.22 U	-	0.22 U	-	5.0 U	5.0 U	10 U	1.0 U	2.0 U	0.22 U	1.1 U	-	-
Trichloroethene	ug/L	0.28	21	2.0 U	1.0 U	1.0 U	0.31 U	-	0.31 U	-	5.0 U	5.0 U	10 U	1.0 U	2.0 U	0.31 U	1.6 U	-	-
Trichlorofluoromethane (CFC-11)	ug/L	520	--	2.0 U	1.0 U	1.0 U	0.32 UJ	-	0.32 U	-	5.0 U	5.0 U	10 U	1.0 U	2.0 U	0.32 U	1.6 U	-	-
Trifluorotrichloroethane (CFC-113)	ug/L	1000	--	2.0 U	1.0 U	1.0 U	0.31 U	-	0.31 U	-	5.0 U	5.0 U	10 U	1.0 U	2.0 U	0.31 U	1.6 U	-	-
Vinyl chloride	ug/L	0.019	930	2.0 U	1.0 U	1.0 U	0.17 U	-	0.17 U	-	5.0 U	5.0 U	10 U	1.0 U	2.0 U	0.17 U	0.86 U	-	-
Xylenes (total)	ug/L	19	13	780 ^{ab}	190 ^{ab}	21 ^{ab}	480 ^{ab}	-	290 ^{ab}	-	1200 ^{ab}	1700 ^{ab}	1800 ^{ab}	310 ^{ab}	610 ^{ab}	0.65 U	270 ^{ab}	-	-
Semi-Volatile Organic Compounds																			
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71	--	20 U	10 U	10 U	0.63 U	0.63 U	0.63 U	0.63 U	10 U	10 U	10 U	10 U	10 U	0.63 U	0.63 U	-	-
2,4,5-Trichlorophenol	ug/L	120	--	20 U	10 U	10 U	0.88 U	0.88 U	0.88 U	0.88 U	10 U	10 U	10 U	10 U	10 U	0.88 U	0.88 U	-	-
2,4,6-Trichlorophenol	ug/L	1.2	4.9	20 U	10 U	10 U	0.86 U	0.86 U	0.86 U	0.86 U	10 U	10 U	10 U	10 U	10 U	0.86 U	0.86 U	-	-
2,4-Dichlorophenol	ug/L	4.6	11	20 U	10 U	10 U	1.1 U	1.1 U	1.1 U	1.1 U	10 U	10 U	10 U	10 U	10 U	1.1 U	1.1 U	-	-
2,4-Dimethylphenol	ug/L	36	--	33	10 U	3.8 J	19	16	7.8 J	8.2 J	4.5 J	20	21	5.2 J	2.4 J	0.62 U	3.0 J	-	-
2,4-Dinitrophenol	ug/L	3.9	--	40 U	20 U	20 U	2.6 UJ	2.6 UJ	2.6 UJ	2.6 U	20 U	20 U	20 U	20 U	20 U	2.6 UJ	2.6 UJ	-	-
2,4-Dinitrotoluene	ug/L	0.24	44	4.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	-	-
2,6-Dinitrotoluene	ug/L	0.049	81	4.0 U	2.0 U	2.0 U	0.83 U	0.83 U	0.83 U	0.83 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.83 U	0.83 U	-	-
2-Chloronaphthalene	ug/L	75	--	20 U	10 U	10 U	1.2 U	1.2 U	1.2 U	1.2 U	10 U	10 U	10 U	10 U	10 U	1.2 U	1.2 U	-	-
2-Chlorophenol	ug/L	9.1	24	20 U	10 U	10 U	0.38 U	0.38 U	0.38 U	0.38 U	10 U	10 U	10 U	10 U	10 U	0.38 U	0.38 U	-	-
2-Methylnaphthalene	ug/L	3.6	4.7	120 ^{ab}	9.2 J ^{ab}	3.3 J	64 ^{ab}	63 ^{ab}	34 ^{ab}	36 ^{ab}	100 ^{ab}	89 J ^{ab}	100 J ^{ab}	87 ^{ab}	99 ^{ab}	0.53 U	1.1 J	-	-
2-Methylphenol	ug/L	93	13	18 J ^b	2.7 J	7.8 J	9.6 J	7.8 J	4.0 J	4.4 J	2.6 J	6.4 J	6.7 J	2.1 J	10 U	0.67 U	0.67 U	-	-
2-Nitroaniline	ug/L	19	--	20 U	10 U	10 U	0.47 U	0.47 U	0.47 U	0.47 U	10 U	10 U	10 U	10 U	10 U	0.47 U	0.47 U	-	-
2-Nitrophenol	ug/L	--	--	20 U	10 U	10 U	0.75 U	0.75 U	0.75 U	0.75 U	10 U	10 U	10 U	10 U	10 U	0.75 U	0.75 U	-	-
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	20 U	10 U	10 U	1.4 U	1.4 U	1.4 U	1.4 U	10 U	10 U	10 U	10 U	10 U	1.4 U	1.4 U	-	-
3-Nitroaniline	ug/L	--	--	20 U	10 U	10 U	1.9 U	1.9 U	1.9 U	1.9 U	10 U	10 U	10 U	10 U	10 U	1.9 U	1.9 U	-	-
4,6-Dinitro-2-methylphenol	ug/L	0.15	--	40 U	20 U	20 U	3.0 UJ	3.0 UJ	3.0 U	3.0 U	20 U	20 U	20 U	20 U	20 U	3.0 UJ	3.0 U	-	-
4-Bromophenyl phenyl ether	ug/L	--	--	20 U	10 U	10 U	0.75 U	0.75 U	0.75 U	0.75 U	10 U	10 U	10 U	10 U	10 U	0.75 U	0.75 U	-	-
4-Chloro-3-methylphenol	ug/L	140	--	20 U	10 U	10 U	0.58 U	0.58 U	0.58 U	0.58 U	10 U	10 U	10 U	10 U	10 U	0.58 U	0.58 U	-	-
4-Chloroaniline	ug/L	0.37	232	20 U	10 U	10 U	1.9 U	1.9 U	-	-	10 U	10 U	10 U	10 U	10 U	1.9 U	-	-	-
4-Chlorophenyl phenyl ether	ug/L	--	--	20 U	10 U	10 U	1.3 U	1.3 U	1.3 U	1.3 U	10 U	10 U	10 U	10 U	10 U	1.3 U	1.3 U	-	-
4-Methylphenol	ug/L	37	543	10 J	38 ^a	26	0.65 U	0.65 U	0.65 U	0.65 U	3.9 J	5.0 J	10 U	1.7 J	1.4 J	0.65 U	0.65 J	-	-
4-Nitroaniline	ug/L	3.8	--	20 U	10 U	10 U	1.2 U	1.2 U	1.2 U	1.2 U	10 U	10 U	10 U	10 U	10 U	1.2 U	1.2 U	-	-
4-Nitrophenol	ug/L	--	--	40 U	20 U	20 U	4.0 U	4.0 U	4.0 U	4.0 U	20 U	20 U	20 U	20 U	20 U	4.0 U	4.0 U	-	-
Acenaphthene	ug/L	53	5.8	2.6 J	10 U	10 U	1.1 U	1.3 J	1.1 U	1.1 U	2.1 J	3.3 J	10 U	2.7 J	2.4 J	1.1 U	1.1 U	-	-
Acenaphthylene	ug/L	--	--	20 U	10 U	10 U	0.82 U	0.82 U	0.82 U	0.82 U	10 U	10 U	10 U	10 U	10 U	0.82 U	0.82 U	-	-
Acetophenone	ug/L	190	--	48	6.5 J	17	2.3 U	2.3 U	2.3 U	2.3 U	25	37	39	10 U	10 U	2.3 U	2.3 U	-	-
Anthracene	ug/L	180	0.012	20 U	10 U	10 U	1.3 U	1.3 U	1.3 U	1.3 U	10 U	10 UJ	10 UJ	10 U	10 U	1.3 U	1.3 U	-	-
Atrazine	ug/L	0.3	1.8	4.0 U	2.0 U	2.0 U	1.3 U	1.3 U	1.3 U	1.3 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.3 U	1.3 U	-	-
Benzaldehyde	ug/L	19	--	20 U	10 U	10 U	2.1 UJ	2.1 UJ	2.1 UJ	2.1 U	10 U	10 U	10 U	10 U	10 U	2.1 UJ	2.1 UJ	-	-
Benzo(a)anthracene	ug/L	0.03	0.018	2.0 U	1.0 U	1.0 U	0.59 U	0.59 U	0.59 U	0.59 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.59 U	0.59 U	-	-

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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-36S WG-17338- 110417-DT-023 11/4/2017	OU-4 MW-36S DA-MW36S- W003 8/28/2018	OU-4 DA-MW36S DA-36S-W004 12/18/2018	OU-4 MW-36S GW-11222397- 011023-MA-03 1/10/2023	OU-4 MW-36S GW-11222397- 011023-MA-04 1/10/2023 (Duplicate)	OU-4 MW-36S GW-11222397- 111423-ES-02 11/14/2023	OU-4 MW-36S GW-11222397- 111423-ES-03 11/14/2023 (Duplicate)	OU-4 MW-50 DA-MW50-W001 10/14/2015	OU-4 MW-50 WG-17338- 110717-DT-051 11/7/2017	OU-4 MW-50 WG-17338- 110717-DT-054 11/7/2017 (Duplicate)	OU-4 MW-50 DA-MW50-W002 8/28/2018	OU-4 DA-MW50 DA-W50-W003 12/18/2018	OU-4 MW-50R GW-11222397- 011023-ZB-05 1/10/2023	OU-4 MW-50R GW-11222397- 111423-ZB-04 11/14/2023	OU-5 MW-28 WG-17338- 111214-RR-003 11/12/2014	OU-5 MW-28 WG-17338- 111214-RR-004 11/12/2014 (Duplicate)
Parameters	Units	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)																
Benzo(a)pyrene	ug/L	0.025	0.015	2.0 U	1.0 U	1.0 U	0.41 U	0.41 U	0.41 UJ	0.41 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.41 U	0.41 UJ	-	-
Benzo(b)fluoranthene	ug/L	0.25	--	2.0 U	2.0 U	2.0 U	0.68 U	0.68 U	0.68 U	0.68 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	0.68 U	0.68 U	-	-
Benzo(g,h,i)perylene	ug/L	--	--	20 U	10 U	10 U	0.70 U	0.70 U	0.70 U	0.70 U	10 U	10 U	10 U	10 U	10 U	0.70 U	0.70 U	-	-
Benzo(k)fluoranthene	ug/L	2.5	--	2.0 U	1.0 U	1.0 U	0.67 U	0.67 U	0.67 U	0.67 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.67 U	0.67 U	-	-
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	10 J ^a	10 U	10 U	5.0 J ^a	4.6 J ^a	2.4 J ^a	2.6 J ^a	2.2 J ^a	2.0 J ^a	2.1 J ^a	10 U	10 U	1.2 U	1.2 U	-	-
bis(2-Chloroethoxy)methane	ug/L	5.9	--	20 U	10 U	10 U	0.59 U	0.59 U	0.59 U	0.59 U	10 U	10 U	10 U	10 U	10 U	0.59 U	0.59 U	-	-
bis(2-Chloroethyl)ether	ug/L	0.014	--	2.0 U	1.0 U	1.0 U	0.63 U	0.63 U	0.63 U	0.63 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.63 U	0.63 U	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	4.0 U	2.0 U	3.2	0.80 U	0.80 U	0.80 UJ	0.80 U	7.2 B ^a	2.0 U	2.0 U	2.0 U	2.0 U	0.80 U	0.80 UJ	-	-
Butyl benzylphthalate (BBP)	ug/L	16	19	20 U	10 U	10 U	0.85 U	0.85 U	0.85 U	0.85 U	10 U	10 U	10 U	10 U	10 U	0.85 U	0.85 U	-	-
Caprolactam	ug/L	990	--	20 U	120	10 U	2.2 U	2.2 U	2.2 U	2.2 U	10 U	10 U	10 U	10 U	10 U	2.2 U	2.2 U	-	-
Carbazole	ug/L	--	--	20 U	10 U	10 U	0.68 U	0.68 U	0.68 U	0.68 U	10 U	1.5 J	1.8 J	1.6 J	1.3 J	0.68 U	0.68 U	-	-
Chrysene	ug/L	25	--	4.0 U	2.0 U	2.0 U	0.91 U	0.91 U	0.91 U	0.91 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.91 U	0.91 U	-	-
Dibenz(a,h)anthracene	ug/L	0.025	--	2.0 U	1.0 U	1.0 U	0.72 U	0.72 U	0.72 U	0.72 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.72 U	0.72 U	-	-
Dibenzofuran	ug/L	0.79	3.7	3.6 J ^a	10 U	10 U	1.8 J ^a	1.9 J ^a	1.1 U	1.1 U	1.6 J ^a	2.6 J ^a	2.9 J ^a	1.7 J ^a	1.5 J ^a	1.1 U	1.1 U	-	-
Diethyl phthalate	ug/L	1500	210	20 U	10 U	10 U	0.98 U	0.98 U	1.2 J	1.2 J	10 U	10 U	10 U	10 U	10 U	0.98 U	0.98 U	-	-
Dimethyl phthalate	ug/L	--	--	20 U	10 U	10 U	0.77 U	0.77 U	0.77 U	0.77 U	10 U	10 U	10 U	10 U	10 U	0.77 U	0.77 U	-	-
Di-n-butylphthalate (DBP)	ug/L	90	19	20 U	10 U	10 U	0.84 U	0.84 U	0.84 U	0.84 U	10 U	10 U	10 U	10 U	10 U	0.84 U	0.84 U	-	-
Di-n-octyl phthalate (DnOP)	ug/L	20	22	20 U	10 U	10 U	0.75 U	0.75 U	0.75 U	0.75 U	10 U	10 U	10 U	10 U	10 U	0.75 U	0.75 U	-	-
Fluoranthene	ug/L	80	0.04	20 U	10 U	10 U	0.84 U	0.84 U	0.84 U	0.84 U	10 U	10 U	10 U	10 U	10 U	0.84 U	0.84 U	-	-
Fluorene	ug/L	29	3	5.3 J ^b	10 U	10 U	2.2 J	2.2 J	1.0 J	1.1 J	2.8 J	5.4 J ^b	6.2 J ^b	3.2 J ^b	3.2 J ^b	0.91 U	0.91 U	-	-
Hexachlorobenzene	ug/L	0.0098	0.0003	2.0 U	1.0 U	1.0 U	0.40 U	0.40 U	0.40 U	0.40 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	-	-
Hexachlorobutadiene	ug/L	0.14	1.3	2.0 U	1.0 U	1.0 U	0.78 U	0.78 U	0.78 U	0.78 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.78 U	0.78 U	-	-
Hexachlorocyclopentadiene	ug/L	0.041	--	20 U	10 U*	10 U	3.6 U	3.6 U	3.6 U	3.6 U	10 U	10 U	10 U	10 U*	10 U	3.6 U	3.6 U	-	-
Hexachloroethane	ug/L	0.33	12	2.0 U	2.0 U	2.0 U	0.80 U	0.80 U	0.80 U	0.80 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	0.80 U	0.80 U	-	-
Indeno(1,2,3-cd)pyrene	ug/L	0.25	--	2.0 U	2.0 U	2.0 U	0.94 U	0.94 U	0.94 U	0.94 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	0.94 U	0.94 U	-	-
Isophorone	ug/L	78	--	20 U	10 U	10 U	0.80 U	0.80 U	0.80 U	0.80 U	10 U	10 U	10 U	10 U	10 U	0.80 U	0.80 U	-	-
Naphthalene	ug/L	0.12	1.1	180 ^{ab}	12 ^{ab}	4.4 J ^{ab}	92 ^{ab}	91 ^{ab}	77 ^{ab}	81 ^{ab}	180 ^{ab}	130 J ^{ab}	140 J ^{ab}	100 ^{ab}	71 ^{ab}	0.54 U	30 ^{ab}	-	-
Nitrobenzene	ug/L	0.14	--	2.0 U	1.0 U	1.0 U	0.57 U	0.57 U	0.57 U	0.57 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U	0.57 U	0.57 U	-	-
N-Nitrosodi-n-propylamine	ug/L	0.011	--	2.0 U	1.0 U	1.0 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	1.0 U	0.43 U	0.43 U	-	-
N-Nitrosodiphenylamine	ug/L	12	210	20 U	10 U	10 U	0.89 U	0.89 U	0.89 U	0.89 U	10 U	10 U	10 U	10 U	10 U	0.89 U	0.89 U	-	-
Pentachlorophenol	ug/L	0.041	0.5	40 U	20 U	20 U	1.4 U	1.4 U	1.4 U	1.4 U	20 U	20 U	20 U	20 U	20 U	1.4 U	1.4 U	-	-
Phenanthrene	ug/L	12	0.4	3.1 J ^b	10 U	10 U	1.6 J ^b	1.5 J ^b	1.3 U	1.3 U	4.1 J ^b	9.3 J ^b	9.9 J ^b	3.2 J ^b	3.6 J ^b	1.3 U	1.3 U	-	-
Phenol	ug/L	580	4	20 U	3.7 J	3.3 J	0.29 U	0.29 U	0.29 U	0.29 U	10 U	10 U	10 U	10 U	10 U	0.29 U	4.2 J ^b	-	-
Pyrene	ug/L	12	0.025	20 U	10 U	10 U	1.6 U	1.6 U	1.6 U	1.6 U	10 U	10 U	10 U	10 U	10 U	1.6 U	1.6 U	-	-
Metals																			
Aluminum	ug/L	2000	87	34.3 J	-	-	-	-	-	-	-	196 ^b	233 ^b	-	-	-	-	-	-
Aluminum (dissolved)	ug/L	2000	87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	560 ^b	508 ^b
Antimony	ug/L	0.78	30	0.65 J	-	-	-	-	-	-	-	2.0 U	0.62 J	-	-	-	-	-	-
Antimony (dissolved)	ug/L	0.78	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.0 U	20.0 U
Arsenic	ug/L	0.052	5	2.4 ^a	-	-	-	-	-	-	-	3.4 ^a	3.4 ^a	-	-	-	-	-	-
Arsenic (dissolved)	ug/L	0.052	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.3 J ^{ab}	6.1 J ^{ab}
Barium	ug/L	380	4	324 ^b	-	-	-	-	-	-	-	249 ^b	253 ^b	-	-	-	-	-	-
Barium (dissolved)	ug/L	380	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	655 ^{ab}	652 ^{ab}
Beryllium	ug/L	2.5	0.66	0.80 U	-	-	-	-	-	-	-	0.80 U	0.80 U	-	-	-	-	-	-
Beryllium (dissolved)	ug/L	2.5	0.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U
Cadmium	ug/L	0.18	0.25	2.0 U	-	-	-	-	-	-	-	2.0 U	2.0 U	-	-	-	-	-	-

Historical Groundwater Analytical Results
Long-Term Stewardship Plan Groundwater Sampling Report, Year 2
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-36S WG-17338- 110417-DT-023 11/4/2017	OU-4 MW-36S DA-MW36S- W003 8/28/2018	OU-4 DA-MW36S DA-36S-W004 12/18/2018	OU-4 MW-36S GW-11222397- 011023-MA-03 1/10/2023	OU-4 MW-36S GW-11222397- 011023-MA-04 1/10/2023 (Duplicate)	OU-4 MW-36S GW-11222397- 111423-ES-02 11/14/2023	OU-4 MW-36S GW-11222397- 111423-ES-03 11/14/2023 (Duplicate)	OU-4 MW-50 DA-MW50-W001 10/14/2015	OU-4 MW-50 WG-17338- 110717-DT-051 11/7/2017	OU-4 MW-50 WG-17338- 110717-DT-054 11/7/2017 (Duplicate)	OU-4 MW-50 DA-MW50-W002 8/28/2018	OU-4 DA-MW50 DA-W50-W003 12/18/2018	OU-4 MW-50R GW-11222397- 011023-ZB-05 1/10/2023	OU-4 MW-50R GW-11222397- 111423-ZB-04 11/14/2023	OU-5 MW-28 WG-17338- 111214-RR-003 11/12/2014	OU-5 MW-28 WG-17338- 111214-RR-004 11/12/2014 (Duplicate)
Parameters	Units	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)																
Cadmium (dissolved)	ug/L	0.18	0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0 U	4.0 U
Calcium	ug/L	--	--	22900	-	-	-	-	-	-	-	50900	52000	-	-	-	-	-	-
Calcium (dissolved)	ug/L	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26100	25500
Chromium	ug/L	10	85	4.0 U	-	-	-	-	-	-	-	4.0 U	4.0 U	-	-	-	-	-	-
Chromium (dissolved)	ug/L	10	85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.0 U	10.0 U
Chromium VI (hexavalent)	ug/L	0.035	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	0.6	23	111 ^{ab}	-	-	-	-	-	-	-	9.2 ^a	9.2 ^a	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	0.6	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50.9 ^{ab}	49.8 J ^{ab}
Copper	ug/L	80	9	71.3 U	-	-	-	-	-	-	-	4.0 U	4.0 U	-	-	-	-	-	-
Copper (dissolved)	ug/L	80	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.0 U	25.0 U
Iron	ug/L	1400	300	89300 ^{ab}	-	-	-	-	-	-	-	46700 ^{ab}	47500 ^{ab}	-	-	-	-	-	-
Iron (dissolved)	ug/L	1400	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32500 ^{ab}	31600 ^{ab}
Lead	ug/L	15	2.5	0.86 J	-	-	-	-	-	-	-	1.1 J	1.2	-	-	-	-	-	-
Lead (dissolved)	ug/L	15	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.0 U	10.0 U
Magnesium	ug/L	--	--	19700	-	-	-	-	-	-	-	14800	15200	-	-	-	-	-	-
Magnesium (dissolved)	ug/L	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46000	44100
Manganese	ug/L	43	120	32400 ^{ab}	-	-	-	-	-	-	-	4340 ^{ab}	4440 ^{ab}	-	-	-	-	-	-
Manganese (dissolved)	ug/L	43	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5750 ^{ab}	5500 ^{ab}
Mercury	ug/L	0.063	0.026	0.20 U	-	-	-	-	-	-	-	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	5.6 U	-	-	-	-	-	-	-	4.0 U	4.0 U	-	-	-	-	-	-
Nickel (dissolved)	ug/L	39	52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40.0 U	40.0 U
Potassium	ug/L	--	--	1820	-	-	-	-	-	-	-	3210	3280	-	-	-	-	-	-
Potassium (dissolved)	ug/L	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4420 J	4210 J
Selenium	ug/L	10	1	1.2 J ^b	-	-	-	-	-	-	-	10.0 U	10.0 U	-	-	-	-	-	-
Selenium (dissolved)	ug/L	10	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.0 U	20.0 U
Silver	ug/L	9.4	3.2	2.0 U	-	-	-	-	-	-	-	2.0 U	2.0 U	-	-	-	-	-	-
Silver (dissolved)	ug/L	9.4	3.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.1 J ^b	3.9 J ^b
Sodium	ug/L	--	--	62600	-	-	-	-	-	-	-	59200	60800	-	-	-	-	-	-
Sodium (dissolved)	ug/L	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	159000	151000
Thallium	ug/L	0.02	0.8	0.80 U	-	-	-	-	-	-	-	0.80 U	0.80 U	-	-	-	-	-	-
Thallium (dissolved)	ug/L	0.02	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.0 U	20.0 U
Vanadium	ug/L	8.6	20	4.0 U	-	-	-	-	-	-	-	4.0 U	4.0 U	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	8.6	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50.0 U	50.0 U
Zinc	ug/L	600	120	16.0 U	-	-	-	-	-	-	-	16.0 U	16.0 U	-	-	-	-	-	-
Zinc (dissolved)	ug/L	600	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.0 J	23.2 J

Historical Groundwater Analytical Results
Long-Term Stewardship Plan Groundwater Sampling Report, Year 2
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Wilmington, Delaware

Operable Unit: Sample Location:				OU-5 MW-28	OU-5 MW-28 WG-17338- 101812-MW28- MM-260	OU-5 MW-28 WG-17338- 110417-SG-022	OU-5 MW-28 WG-17338- 062618-AM-005	OU-5 MW-48 WG-17338- 111214-RR-001	OU-5 MW-48 WG-17338- 110417-DT-021	OU-5 MW-48 GW-11210099- 081820-ST-002	OU-5 MW-48 GW-11210099- 081820-ST-003	OU-5 MW-48R GW-11222397- 011123-MA-13	OU-5 MW-48R GW-11222397- 011123-MA-14	OU-5 MW-48R GW-11222397- 111623-ZB-15	OU-5 MW-109 DA-MW109- W002	OU-5 MW-109 WG-17338- 111214-RR-006	OU-5 MW-109 WG-17338- 110417-SG-018	OU-5 MW-109 WG-17338- 110417-SG-020	OU-5 MW-109 GW-11210099- 081920-ST-007
Sample ID:				110211-MW28-12	101812-MW28- MM-260	110417-SG-022	062618-AM-005	111214-RR-001	110417-DT-021	8/18/2020	8/18/2020 (Duplicate)	1/11/2023	1/11/2023 (Duplicate)	11/16/2023	9/17/2013	11/12/2014	11/4/2017	11/4/2017 (Duplicate)	8/19/2020
Sample Date:				11/2/2011	10/18/2012	11/4/2017	6/26/2018	11/12/2014	11/4/2017	8/18/2020	8/18/2020 (Duplicate)	1/11/2023	1/11/2023 (Duplicate)	11/16/2023	9/17/2013	11/12/2014	11/4/2017	11/4/2017 (Duplicate)	8/19/2020
Parameters		Units	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)															
Volatile Organic Compounds																			
1,1,1-Trichloroethane	ug/L	200	11	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-
1,1,2,2-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	-
1,1,2-Trichloroethane	ug/L	0.041	1200	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-Dichloroethane	ug/L	2.8	47	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-Dichloroethene	ug/L	7	25	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-
1,2,3-Trichlorobenzene	ug/L	0.7	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	0.4	24	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-
1,2,4-Trimethylbenzene	ug/L	5.6	--	-	-	1.0 U	1.0 U	-	1.0 U	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.00033	--	1.0 UJ	1.0 U	1.0 U	1.0 U	-	1.0 U	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	--	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-
1,2-Dichlorobenzene	ug/L	30	0.7	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-
1,2-Dichloroethane	ug/L	0.17	100	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-
1,2-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	-
1,3,5-Trimethylbenzene	ug/L	6	71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	--	--	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-
1,4-Dichlorobenzene	ug/L	0.48	26	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-
1,4-Dioxane	ug/L	0.46	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2,4-Trimethylpentane	ug/L	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	R	R	5.0 U	5.0 U	-	5.0 U	-	-	-	-	-	5.0 U	-	5.0 U	5.0 U	-
2-Hexanone	ug/L	3.8	99	10 U	5.0 U	5.0 U	5.0 U	-	5.0 U	-	-	-	-	-	5.0 U	-	5.0 U	5.0 U	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	170	10 U	5.0 U	5.0 U	5.0 U	-	5.0 U	-	-	-	-	-	5.0 U	-	5.0 U	5.0 U	-
Acetone	ug/L	1800	1500	R	R	5.0 U	11 U	-	5.0 U	-	-	-	-	-	5.0 U	-	5.0 U	5.0 U	-
Benzene	ug/L	0.46	370	1.0 U	0.12 J	1.0 U	1.0 U	-	1.0 U	-	-	0.20 U	-	0.20 U	1.0 U	-	1.0 U	1.0 U	-
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	-
Bromoform	ug/L	3.3	320	1.0 U	1.0 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	--	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 UJ	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-
Carbon disulfide	ug/L	81	0.92	1.0 U	1.0 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	1.0 U	1.0 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	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-
Chlorobromomethane	ug/L	8.3	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	ug/L	830	--	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-
Chloroform (Trichloromethane)	ug/L	0.22	1.8	1.0 U	1.0 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	--	1.0 U	1.0 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	--	1.0 U	1.0 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	--	--	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-
Cyclohexane	ug/L	1300	--	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-
Dibromochloromethane	ug/L	0.87	--	1.0 U	1.0 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	--	1.0 U	1.0 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	1.0 U	0.37 J	1.0 U	1.0 U	-	1.0 U	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-
Hexane	ug/L	150	0.58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyl benzene	ug/L	45	2.6	1.0 U	0.097 J	1.0 U	1.0 U	-	1.0 U	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-
m&p-Xylenes	ug/L	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	2000	--	2.0 U	R	5.0 U	5.0 U	-	5.0 U	-	-	-	-	-	5.0 U	-	5.0 U	5.0 U	-
Methyl cyclohexane	ug/L	--	--	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-
Methyl tert butyl ether (MTBE)	ug/L	10	11070	0.32 J	1.0 U	1.0 U	1.0 U	-	1.0 U	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-

Historical Groundwater Analytical Results
Long-Term Stewardship Plan Groundwater Sampling Report, Year 2
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-28 GW-17338- 110211-MW28-12	OU-5 MW-28 WG-17338- 101812-MW28- MM-260 10/18/2012	OU-5 MW-28 WG-17338- 110417-SG-022	OU-5 MW-28 WG-17338- 062618-AM-005	OU-5 MW-48 WG-17338- 111214-RR-001	OU-5 MW-48 WG-17338- 110417-DT-021	OU-5 MW-48 GW-11210099- 081820-ST-002	OU-5 MW-48 GW-11210099- 081820-ST-003	OU-5 MW-48R GW-11222397- 011123-MA-13	OU-5 MW-48R GW-11222397- 011123-MA-14	OU-5 MW-48R GW-11222397- 111623-ZB-15	OU-5 MW-109 DA-MW109- W002	OU-5 MW-109 WG-17338- 111214-RR-006	OU-5 MW-109 WG-17338- 110417-SG-018	OU-5 MW-109 WG-17338- 110417-SG-020	OU-5 MW-109 GW-11210099- 081920-ST-007
				11/2/2011	10/18/2012	11/4/2017	6/26/2018	11/12/2014	11/4/2017	8/18/2020	8/18/2020 (Duplicate)	1/11/2023	1/11/2023 (Duplicate)	11/16/2023	9/17/2013	11/12/2014	11/4/2017	11/4/2017 (Duplicate)	8/19/2020
Parameters	Units	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)																
Methylene chloride	ug/L	5	98.1	1.0 U	1.0 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	1.0 U	1.0 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	-
Toluene	ug/L	110	2	1.0 U	1.0 U	0.35 J	1.0 U	-	1.0 U	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-
trans-1,2-Dichloroethene	ug/L	6.8	970	1.0 U	1.0 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	--	--	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-
Trichloroethene	ug/L	0.28	21	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	-	-	3.8 ^a	-	0.60 J ^a	1.0 U	-	1.0 U	1.0 U	-
Trichlorofluoromethane (CFC-11)	ug/L	520	--	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-
Trifluorotrichloroethane (CFC-113)	ug/L	1000	--	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-
Vinyl chloride	ug/L	0.019	930	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-
Xylenes (total)	ug/L	19	13	3.0 U	1.5 J	2.0 U	2.0 U	-	2.0 U	-	-	-	-	-	3.0 U	-	2.0 U	2.0 U	-
Semi-Volatile Organic Compounds																			
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71	--	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
2,4,5-Trichlorophenol	ug/L	120	--	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
2,4,6-Trichlorophenol	ug/L	1.2	4.9	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
2,4-Dichlorophenol	ug/L	4.6	11	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
2,4-Dimethylphenol	ug/L	36	--	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
2,4-Dinitrophenol	ug/L	3.9	--	30 U	-	20 U	20 U	-	20 U	-	-	-	-	-	30 U	-	20 U	20 U	-
2,4-Dinitrotoluene	ug/L	0.24	44	2.0 U	-	2.0 U	2.0 U	-	2.0 U	-	-	-	-	-	2.0 U	-	2.0 U	2.0 U	-
2,6-Dinitrotoluene	ug/L	0.049	81	2.0 U	-	2.0 U	2.0 U	-	2.0 U	-	-	-	-	-	2.0 U	-	2.0 U	2.0 U	-
2-Chloronaphthalene	ug/L	75	--	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
2-Chlorophenol	ug/L	9.1	24	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
2-Methylnaphthalene	ug/L	3.6	4.7	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
2-Methylphenol	ug/L	93	13	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
2-Nitroaniline	ug/L	19	--	20 U	-	10 U	10 U	-	10 U	-	-	-	-	-	20 U	-	10 U	10 U	-
2-Nitrophenol	ug/L	--	--	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	20 U	-	10 U	10 U	-	10 U	-	-	-	-	-	20 U	-	10 U	10 U	-
3-Nitroaniline	ug/L	--	--	20 U	-	10 U	10 U	-	10 U	-	-	-	-	-	20 U	-	10 U	10 U	-
4,6-Dinitro-2-methylphenol	ug/L	0.15	--	30 U	-	20 U	20 U	-	20 U	-	-	-	-	-	30 U	-	20 U	20 U	-
4-Bromophenyl phenyl ether	ug/L	--	--	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
4-Chloro-3-methylphenol	ug/L	140	--	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
4-Chloroaniline	ug/L	0.37	232	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
4-Chlorophenyl phenyl ether	ug/L	--	--	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
4-Methylphenol	ug/L	37	543	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
4-Nitroaniline	ug/L	3.8	--	20 U	-	10 U	10 U	-	10 U	-	-	-	-	-	20 U	-	10 U	10 U	-
4-Nitrophenol	ug/L	--	--	30 U	-	20 U	20 U	-	20 U	-	-	-	-	-	30 U	-	20 U	20 U	-
Acenaphthene	ug/L	53	5.8	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
Acenaphthylene	ug/L	--	--	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
Acetophenone	ug/L	190	--	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
Anthracene	ug/L	180	0.012	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
Atrazine	ug/L	0.3	1.8	10 U	-	2.0 U	2.0 U	-	2.0 U	-	-	-	-	-	10 U	-	2.0 U	2.0 U	-
Benzaldehyde	ug/L	19	--	10 UJ	-	10 U	10 U	-	10 U	-	-	-	-	-	10 UJ	-	10 U	10 U	-
Benzo(a)anthracene	ug/L	0.03	0.018	0.051 U	-	1.0 U	1.0 U	-	1.0 U	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-

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Parameters	Units	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)																
Benzo(a)pyrene	ug/L	0.025	0.015	0.051 U	-	1.0 U	1.0 U	-	1.0 U	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-
Benzo(b)fluoranthene	ug/L	0.25	--	0.051 U	-	1.0 U	2.0 U	-	1.0 U	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-
Benzo(g,h,i)perylene	ug/L	--	--	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
Benzo(k)fluoranthene	ug/L	2.5	--	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	0.083	14	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
bis(2-Chloroethoxy)methane	ug/L	5.9	--	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
bis(2-Chloroethyl)ether	ug/L	0.014	--	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	5.6	16	10 U	-	2.0 U	2.0 U	-	2.0 U	-	-	-	-	-	10 U	-	2.0 U	2.0 U	-
Butyl benzylphthalate (BBP)	ug/L	16	19	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
Caprolactam	ug/L	990	--	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
Carbazole	ug/L	--	--	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
Chrysene	ug/L	25	--	10 U	-	2.0 U	2.0 U	-	2.0 U	-	-	-	-	-	10 U	-	2.0 U	2.0 U	-
Dibenz(a,h)anthracene	ug/L	0.025	--	1.0 U	-	1.0 U	1.0 U	-	1.0 U	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-
Dibenzofuran	ug/L	0.79	3.7	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
Diethyl phthalate	ug/L	1500	210	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
Dimethyl phthalate	ug/L	--	--	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
Di-n-butylphthalate (DBP)	ug/L	90	19	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
Di-n-octyl phthalate (DnOP)	ug/L	20	22	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
Fluoranthene	ug/L	80	0.04	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
Fluorene	ug/L	29	3	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
Hexachlorobenzene	ug/L	0.0098	0.0003	0.020 U	-	1.0 U	1.0 U	-	1.0 U	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-
Hexachlorobutadiene	ug/L	0.14	1.3	2.0 U	-	1.0 U	1.0 U	-	1.0 U	-	-	-	-	-	2.0 U	-	1.0 U	1.0 U	-
Hexachlorocyclopentadiene	ug/L	0.041	--	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
Hexachloroethane	ug/L	0.33	12	1.0 U	-	1.0 U	2.0 U	-	1.0 U	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-
Indeno(1,2,3-cd)pyrene	ug/L	0.25	--	1.0 U	-	1.0 U	2.0 U	-	1.0 U	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	-
Isophorone	ug/L	78	--	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
Naphthalene	ug/L	0.12	1.1	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
Nitrobenzene	ug/L	0.14	--	1.0 U	-	1.0 U	1.0 U	-	1.0 U	-	-	-	-	-	1.0 UJ	-	1.0 U	1.0 U	-
N-Nitrosodi-n-propylamine	ug/L	0.011	--	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	12	210	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
Pentachlorophenol	ug/L	0.041	0.5	0.20 U	-	20 U	20 U	-	20 U	-	-	-	-	-	30 U	-	20 U	20 U	-
Phenanthrene	ug/L	12	0.4	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
Phenol	ug/L	580	4	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
Pyrene	ug/L	12	0.025	10 U	-	10 U	10 U	-	10 U	-	-	-	-	-	10 U	-	10 U	10 U	-
Metals																			
Aluminum	ug/L	2000	87	200 U	558 ^b	21.9 J	29.6 J	-	22.6 J	100 J ^b	163 J ^b	94.4 J ^b	1290 J ^b	2550 ^{ab}	-	-	33.2 J	47.2	156 J ^b
Aluminum (dissolved)	ug/L	2000	87	200 U	200 U	-	-	290 ^b	-	-	-	-	-	-	-	200 U	-	-	-
Antimony	ug/L	0.78	30	10.0 U	10.0 U	0.79 J ^a	2.0 U	-	2.0 U	3.7 U	3.7 U	0.76 U	0.76 U	0.92 J ^a	-	-	2.0 U	2.0 U	3.7 U
Antimony (dissolved)	ug/L	0.78	30	10.0 U	10.0 U	-	-	20.0 U	-	-	-	-	-	-	-	20.0 U	-	-	-
Arsenic	ug/L	0.052	5	7.9 ^{ab}	6.4 ^{ab}	9.6 ^{ab}	7.5 ^{ab}	-	2.0 U	3.3 U	3.3 U	0.89 U	0.89 U	0.89 U	-	-	2.0 U	2.0 U	3.3 U
Arsenic (dissolved)	ug/L	0.052	5	5.0 U	5.0 U	-	-	15.0 U	-	-	-	-	-	-	-	15.0 U	-	-	-
Barium	ug/L	380	4	557 ^{ab}	474 ^{ab}	204 ^b	182 ^b	-	193 ^b	160 J ^b	172 J ^b	271 ^b	290 ^b	177 ^b	-	-	72.4 ^b	73.1 ^b	81.9 J ^b
Barium (dissolved)	ug/L	380	4	491 ^{ab}	433 ^{ab}	-	-	258 ^b	-	-	-	-	-	-	-	85.2 J ^b	-	-	-
Beryllium	ug/L	2.5	0.66	2.0 U	2.0 U	0.80 U	0.80 U	-	0.80 U	0.17 U	0.17 U	0.13 U	0.13 U	0.14 J	-	-	0.80 U	0.80 U	0.17 U
Beryllium (dissolved)	ug/L	2.5	0.66	2.0 U	2.0 U	-	-	2.0 U	-	-	-	-	-	-	-	2.0 U	-	-	-
Cadmium	ug/L	0.18	0.25	5.0 U	5.0 U	2.0 U	2.0 U	-	2.0 U	0.33 U	0.33 U	0.39 U	0.39 U	0.39 U	-	-	2.0 U	2.0 U	0.33 U

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Parameters	Units	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)																
Cadmium (dissolved)	ug/L	0.18	0.25	5.0 U	5.0 U	-	-	4.0 U	-	-	-	-	-	-	-	4.0 U	-	-	-
Calcium	ug/L	--	--	36100	29200	13400	13500	-	27800	29400 J	31500 J	35200	38100	30600	-	-	26100	26300	28400 J
Calcium (dissolved)	ug/L	--	--	38100	30400	-	-	26600	-	-	-	-	-	-	-	26100	-	-	-
Chromium	ug/L	10	85	10.0 U	10.0 U	4.0 U	4.0 U	-	4.0 U	5.0 U	5.0 U	2.5 UJ	8.7 J	10.7 ^a	-	-	4.0 U	4.0 U	5.0 U
Chromium (dissolved)	ug/L	10	85	10.0 U	10.0 U	-	-	10.0 U	-	-	-	-	-	-	-	10.0 U	-	-	-
Chromium VI (hexavalent)	ug/L	0.035	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	0.6	23	50.0 ^{ab}	53.4 ^{ab}	21.1 ^a	26.8 ^{ab}	-	3.6 J ^a	2.8 J ^a	3.8 J ^a	6.0 ^a	7.3 ^a	6.7 ^a	-	-	4.0 U	4.0 U	2.0 U
Cobalt (dissolved)	ug/L	0.6	23	50.4 ^{ab}	54.9 ^{ab}	-	-	8.1 J ^a	-	-	-	-	-	-	-	50.0 U	-	-	-
Copper	ug/L	80	9	25.0 U	25.0 U	4.0 U	4.0 U	-	4.0 U	6.9 U	6.9 U	2.5 U	3.6 U	2.5 U	-	-	4.0 U	4.0 U	6.9 U
Copper (dissolved)	ug/L	80	9	25.0 U	25.0 U	-	-	25.0 U	-	-	-	-	-	-	-	25.0 U	-	-	-
Iron	ug/L	1400	300	42000 ^{ab}	37100 ^{ab}	19200 ^{ab}	23400 ^{ab}	-	64.7 J	2840 J ^{ab}	3750 J ^{ab}	90.3 J	1950 J ^{ab}	3300 ^{ab}	-	-	54.9 J	86.8 J	139 J
Iron (dissolved)	ug/L	1400	300	19500 ^{ab}	13100 ^{ab}	-	-	3610 ^{ab}	-	-	-	-	-	-	-	150 U	-	-	-
Lead	ug/L	15	2.5	5.0 U	5.0 U	1.2 U	1.2 U	-	1.2 U	2.5 J	3.1 J ^b	0.84 UJ	8.7 J ^b	13.7 ^b	-	-	1.2 U	1.2 U	2.5 J
Lead (dissolved)	ug/L	15	2.5	5.0 U	5.0 U	-	-	10.0 U	-	-	-	-	-	-	-	10.0 U	-	-	-
Magnesium	ug/L	--	--	60800	56100	21000	21500	-	28200	22000	23500	37600	41200	31500	-	-	16600	16500	19700
Magnesium (dissolved)	ug/L	--	--	62200	58100	-	-	28400	-	-	-	-	-	-	-	17400	-	-	-
Manganese	ug/L	43	120	6390 ^{ab}	5930 ^{ab}	3040 ^{ab}	3290 ^{ab}	-	6050 ^{ab}	833 J ^{ab}	927 J ^{ab}	6780 ^{ab}	7170 ^{ab}	5410 ^{ab}	-	-	29.2	31.2	50.4 J ^a
Manganese (dissolved)	ug/L	43	120	6510 ^{ab}	6020 ^{ab}	-	-	6370 ^{ab}	-	-	-	7910 ^{ab}	7890 ^{ab}	5440 ^{ab}	-	30.2	-	-	-
Mercury	ug/L	0.063	0.026	0.20 U	0.20 U	0.20 U	0.20 U	-	0.20 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
Mercury (dissolved)	ug/L	0.063	0.026	0.20 U	0.20 U	-	-	0.20 U	-	-	-	-	-	-	-	0.20 U	-	-	-
Nickel	ug/L	39	52	6.5 J	6.3 J	5.6 U	3.3 J	-	5.6 U	4.1 U	4.1 U	5.1 U	5.5 U	0.91 U	-	-	5.6 U	5.6 U	5.2 J
Nickel (dissolved)	ug/L	39	52	7.5 J	6.4 J	-	-	40.0 U	-	-	-	-	-	-	-	40.0 U	-	-	-
Potassium	ug/L	--	--	6050	5050	3400	2820	-	3360	6970	7370	3370	3520	3730	-	-	2390	2440	2790 J
Potassium (dissolved)	ug/L	--	--	5850	5240	-	-	3730 J	-	-	-	-	-	-	-	2400 J	-	-	-
Selenium	ug/L	10	1	10.0 U	10.0 U	10.0 U	10.0 U	-	10.0 U	5.9 U	5.9 U	0.59 U	0.59 U	0.61 J	-	-	10.0 U	10.0 U	5.9 U
Selenium (dissolved)	ug/L	10	1	10.0 U	10.0 U	-	-	20.0 U	-	-	-	-	-	-	-	20.0 U	-	-	-
Silver	ug/L	9.4	3.2	10.0 U	10.0 U	2.0 U	2.0 U	-	2.0 U	5.8 U	5.8 U	0.29 U	0.29 U	0.29 U	-	-	2.0 U	2.0 U	5.8 U
Silver (dissolved)	ug/L	9.4	3.2	10.0 U	10.0 U	-	-	3.7 J ^b	-	-	-	-	-	-	-	10.0 U	-	-	-
Sodium	ug/L	--	--	175000	197000	114000	122000	-	64800	27900 J	30600 J	106000	105000	120000	-	-	20900	20500	24400 J
Sodium (dissolved)	ug/L	--	--	170000	206000	-	-	92300	-	-	-	-	-	-	-	32200	-	-	-
Thallium	ug/L	0.02	0.8	10.0 U	10.0 U	0.80 U	0.80 U	-	0.80 U	4.1 U	4.1 U	0.21 U	0.21 U	0.21 U	-	-	0.80 U	0.80 U	4.1 U
Thallium (dissolved)	ug/L	0.02	0.8	10.0 U	10.0 U	-	-	20.0 U	-	-	-	-	-	-	-	20.0 U	-	-	-
Vanadium	ug/L	8.6	20	50.0 U	50.0 U	4.0 U	4.0 U	-	4.0 U	7.2 U	7.2 U	0.76 J	5.6 J	11.3 ^a	-	-	4.0 U	4.0 U	7.2 U
Vanadium (dissolved)	ug/L	8.6	20	50.0 U	50.0 U	-	-	50.0 U	-	-	-	-	-	-	-	50.0 U	-	-	-
Zinc	ug/L	600	120	101	35.7	16.0 U	16.0 U	-	38.5 U	1.2 U	1.2 U	10 J	17.7	24.3	-	-	16.0 U	38.5 U	7.3 J
Zinc (dissolved)	ug/L	600	120	88.5	22.6 J	-	-	10.5 J	-	-	-	-	-	-	-	6.9 J	-	-	-

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan Groundwater Sampling Report, Year 2
Former GM Wilmington Assembly Plant
Wilmington, Delaware

				Operable Unit: Sample Location:	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-113	OU-5 MW-113	OU-5 MW-113	OU-5 MW-113R	OU-5 MW-113R
				Sample ID:	GW - 11222397- 011223-MA-16	GW-11222397- 111623-CT-16	GW-11222397- 111623-CT-17	GW-01733818- 0713-RM-01	GW-11210099- 081820-ST-005	GW-11222397- 011123-ZB-12	GW-11222397- 111523-ZB-14	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
				Sample Date:	1/12/2023	11/16/2023	11/16/2023 (Duplicate)	7/13/2018	8/18/2020	1/11/2023	11/15/2023	7/13/2018	7/13/2018 (Duplicate)	8/18/2020	1/12/2023	11/16/2023
Parameters		Units	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)												
Volatile Organic Compounds																
1,1,1-Trichloroethane	ug/L	200	11	-	-	-	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	-	-	-	-
1,1,2-Trichloroethane	ug/L	0.041	1200	-	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-	-
1,1-Dichloroethane	ug/L	2.8	47	-	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-	-
1,1-Dichloroethene	ug/L	7	25	-	-	-	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	-	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-	-
1,2,4-Trimethylbenzene	ug/L	5.6	--	-	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.00033	--	-	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	--	-	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-	-
1,2-Dichlorobenzene	ug/L	30	0.7	-	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-	-
1,2-Dichloroethane	ug/L	0.17	100	-	-	-	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	-	-	-	-
1,3,5-Trimethylbenzene	ug/L	6	71	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	--	--	-	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-	-
1,4-Dichlorobenzene	ug/L	0.48	26	-	-	-	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	-	-	-	5.0 U	-	-	-	5.0 U	5.0 U	-	-	-	-
2-Hexanone	ug/L	3.8	99	-	-	-	5.0 U	-	-	-	5.0 U	5.0 U	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	170	-	-	-	5.0 U	-	-	-	5.0 U	5.0 U	-	-	-	-
Acetone	ug/L	1800	1500	-	-	-	5.0 U	-	-	-	5.0 U	5.0 U	-	-	-	-
Benzene	ug/L	0.46	370	-	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-	-
Bromodichloromethane	ug/L	0.13	--	-	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-	-
Bromoform	ug/L	3.3	320	-	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-	-
Bromomethane (Methyl bromide)	ug/L	0.75	--	-	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-	-
Carbon disulfide	ug/L	81	0.92	-	-	-	0.27 J	-	-	-	1.0 U	1.0 U	-	-	-	-
Carbon tetrachloride	ug/L	0.46	13.3	-	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-	-
Chlorobenzene	ug/L	7.8	1.3	-	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-	-
Chlorobromomethane	ug/L	8.3	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	ug/L	830	--	-	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-	-
Chloroform (Trichloromethane)	ug/L	0.22	1.8	-	-	-	1.5 ^a	-	-	-	1.0 U	1.0 U	-	-	-	-
Chloromethane (Methyl chloride)	ug/L	19	--	-	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-	-
cis-1,2-Dichloroethene	ug/L	2.5	--	-	-	-	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	1300	--	-	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-	-
Dibromochloromethane	ug/L	0.87	--	-	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/L	20	--	-	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-	-
Ethylbenzene	ug/L	1.5	90	-	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-	-
Hexane	ug/L	150	0.58	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyl benzene	ug/L	45	2.6	-	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-	-
m&p-Xylenes	ug/L	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	2000	--	-	-	-	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	10	11070	-	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-	-

Historical Groundwater Analytical Results
Long-Term Stewardship Plan Groundwater Sampling Report, Year 2
Former GM Wilmington Assembly Plant
Wilmington, Delaware

				Operable Unit: Sample Location:	OU-5 MW-109R GW - 11222397- 011223-MA-16 Sample Date: 1/12/2023	OU-5 MW-109R GW-11222397- 111623-CT-16 11/16/2023	OU-5 MW-109R GW-11222397- 111623-CT-17 11/16/2023 (Duplicate)	OU-5 MW-112 GW-01733818- 0713-RM-01 7/13/2018	OU-5 MW-112 GW-11210099- 081820-ST-005 8/18/2020	OU-5 MW-112 GW-11222397- 011123-ZB-12 1/11/2023	OU-5 MW-112 GW-11222397- 111523-ZB-14 11/15/2023	OU-5 MW-113 GW-01733818- 0713-RM-02 7/13/2018	OU-5 MW-113 GW-01733818- 0713-RM-03 7/13/2018 (Duplicate)	OU-5 MW-113 GW-11210099- 081820-ST-004 8/18/2020	OU-5 MW-113R GW - 11222397- 011223-MA-15 1/12/2023	OU-5 MW-113R GW-11222397- 111623-ZB-18 11/16/2023
Parameters	Units	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)													
Methylene chloride	ug/L	5	98.1	-	-	-	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	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-
Tetrachloroethene	ug/L	1	111	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-
Toluene	ug/L	110	2	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-
trans-1,2-Dichloroethene	ug/L	6.8	970	-	-	-	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	0.28	21	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-
Trichlorofluoromethane (CFC-11)	ug/L	520	--	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-
Trifluorotrichloroethane (CFC-113)	ug/L	1000	--	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-
Vinyl chloride	ug/L	0.019	930	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-
Xylenes (total)	ug/L	19	13	-	-	-	2.0 U	-	-	-	-	2.0 U	2.0 U	-	-	-
Semi-Volatile Organic Compounds																
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71	--	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-
2,4,5-Trichlorophenol	ug/L	120	--	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-
2,4,6-Trichlorophenol	ug/L	1.2	4.9	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-
2,4-Dichlorophenol	ug/L	4.6	11	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-
2,4-Dimethylphenol	ug/L	36	--	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-
2,4-Dinitrophenol	ug/L	3.9	--	-	-	-	20 U	-	-	-	-	20 U	20 U	-	-	-
2,4-Dinitrotoluene	ug/L	0.24	44	-	-	-	2.0 U	-	-	-	-	2.0 U	2.0 U	-	-	-
2,6-Dinitrotoluene	ug/L	0.049	81	-	-	-	2.0 U	-	-	-	-	2.0 U	2.0 U	-	-	-
2-Chloronaphthalene	ug/L	75	--	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-
2-Chlorophenol	ug/L	9.1	24	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-
2-Methylnaphthalene	ug/L	3.6	4.7	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-
2-Methylphenol	ug/L	93	13	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-
2-Nitroaniline	ug/L	19	--	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-
2-Nitrophenol	ug/L	--	--	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-
3-Nitroaniline	ug/L	--	--	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	0.15	--	-	-	-	20 U	-	-	-	-	20 U	20 U	-	-	-
4-Bromophenyl phenyl ether	ug/L	--	--	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-
4-Chloro-3-methylphenol	ug/L	140	--	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-
4-Chloroaniline	ug/L	0.37	232	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-
4-Chlorophenyl phenyl ether	ug/L	--	--	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-
4-Methylphenol	ug/L	37	543	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-
4-Nitroaniline	ug/L	3.8	--	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-
4-Nitrophenol	ug/L	--	--	-	-	-	20 U	-	-	-	-	20 U	20 U	-	-	-
Acenaphthene	ug/L	53	5.8	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-
Acenaphthylene	ug/L	--	--	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-
Acetophenone	ug/L	190	--	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-
Anthracene	ug/L	180	0.012	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-
Atrazine	ug/L	0.3	1.8	-	-	-	2.0 U	-	-	-	-	2.0 U	2.0 U	-	-	-
Benzaldehyde	ug/L	19	--	-	-	-	10 U	-	-	-	-	10 U	10 U	-	-	-
Benzo(a)anthracene	ug/L	0.03	0.018	-	-	-	1.0 U	-	-	-	-	1.0 U	1.0 U	-	-	-

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan Groundwater Sampling Report, Year 2
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location:				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-113	OU-5 MW-113	OU-5 MW-113	OU-5 MW-113R	OU-5 MW-113R
Sample ID:				GW - 11222397- 011223-MA-16	GW-11222397- 111623-CT-16	GW-11222397- 111623-CT-17	GW-01733818- 0713-RM-01	GW-11210099- 081820-ST-005	GW-11222397- 011123-ZB-12	GW-11222397- 111523-ZB-14	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
Sample Date:				1/12/2023	11/16/2023	11/16/2023 (Duplicate)	7/13/2018	8/18/2020	1/11/2023	11/15/2023	7/13/2018	7/13/2018 (Duplicate)	8/18/2020	1/12/2023	11/16/2023
Parameters	Units	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)												
Benzo(a)pyrene	ug/L	0.025	0.015	-	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-
Benzo(b)fluoranthene	ug/L	0.25	--	-	-	-	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	2.5	--	-	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	-	-	-	10 U	-	-	-	10 U	10 U	-	-	-
bis(2-Chloroethoxy)methane	ug/L	5.9	--	-	-	-	10 U	-	-	-	10 U	10 U	-	-	-
bis(2-Chloroethyl)ether	ug/L	0.014	--	-	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	-	-	-	2.0 U	-	-	-	2.0 U	2.0 U	-	-	-
Butyl benzylphthalate (BBP)	ug/L	16	19	-	-	-	10 U	-	-	-	10 U	10 U	-	-	-
Caprolactam	ug/L	990	--	-	-	-	10 U	-	-	-	10 U	10 U	-	-	-
Carbazole	ug/L	--	--	-	-	-	10 U	-	-	-	10 U	10 U	-	-	-
Chrysene	ug/L	25	--	-	-	-	2.0 U	-	-	-	2.0 U	2.0 U	-	-	-
Dibenz(a,h)anthracene	ug/L	0.025	--	-	-	-	1.0 UJ	-	-	-	1.0 UJ	1.0 UJ	-	-	-
Dibenzofuran	ug/L	0.79	3.7	-	-	-	10 U	-	-	-	10 U	10 U	-	-	-
Diethyl phthalate	ug/L	1500	210	-	-	-	10 U	-	-	-	10 U	10 U	-	-	-
Dimethyl phthalate	ug/L	--	--	-	-	-	10 U	-	-	-	10 U	10 U	-	-	-
Di-n-butylphthalate (DBP)	ug/L	90	19	-	-	-	10 U	-	-	-	10 U	10 U	-	-	-
Di-n-octyl phthalate (DnOP)	ug/L	20	22	-	-	-	10 U	-	-	-	10 U	10 U	-	-	-
Fluoranthene	ug/L	80	0.04	-	-	-	10 U	-	-	-	10 U	10 U	-	-	-
Fluorene	ug/L	29	3	-	-	-	10 U	-	-	-	10 U	10 U	-	-	-
Hexachlorobenzene	ug/L	0.0098	0.0003	-	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-
Hexachlorobutadiene	ug/L	0.14	1.3	-	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-
Hexachlorocyclopentadiene	ug/L	0.041	--	-	-	-	10 U	-	-	-	10 U	10 U	-	-	-
Hexachloroethane	ug/L	0.33	12	-	-	-	2.0 U	-	-	-	2.0 U	2.0 U	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	0.25	--	-	-	-	2.0 U	-	-	-	2.0 U	2.0 U	-	-	-
Isophorone	ug/L	78	--	-	-	-	10 U	-	-	-	10 U	10 U	-	-	-
Naphthalene	ug/L	0.12	1.1	-	-	-	10 U	-	-	-	10 U	10 U	-	-	-
Nitrobenzene	ug/L	0.14	--	-	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-
N-Nitrosodi-n-propylamine	ug/L	0.011	--	-	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-
N-Nitrosodiphenylamine	ug/L	12	210	-	-	-	10 U	-	-	-	10 U	10 U	-	-	-
Pentachlorophenol	ug/L	0.041	0.5	-	-	-	20 U	-	-	-	20 U	20 U	-	-	-
Phenanthrene	ug/L	12	0.4	-	-	-	10 U	-	-	-	10 U	10 U	-	-	-
Phenol	ug/L	580	4	-	-	-	10 U	-	-	-	10 U	10 U	-	-	-
Pyrene	ug/L	12	0.025	-	-	-	10 U	-	-	-	10 U	10 U	-	-	-
Metals															
Aluminum	ug/L	2000	87	1200 ^b	231 J ^b	2160 J ^{ab}	39.5 J	76.9 U	1920 ^b	32100 ^{ab}	22.4 J	40.0 U	107 J ^b	1040 ^b	539 ^b
Aluminum (dissolved)	ug/L	2000	87	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	ug/L	0.78	30	1.9 J ^a	0.82 J ^a	1.0 J ^a	2.0 U	49.4 ^{ab}	0.76 U	2.4 J ^a	2.0 U	2.0 U	15.2 J ^a	0.76 U	0.76 U
Antimony (dissolved)	ug/L	0.78	30	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	0.052	5	1.6 J ^a	0.89 U	0.89 U	2.2 ^a	3.3 U	1.0 J ^a	5.3 ^{ab}	0.77 J ^a	0.86 J ^a	3.3 U	0.89 U	0.89 U
Arsenic (dissolved)	ug/L	0.052	5	-	-	-	-	-	-	-	-	-	-	-	-
Barium	ug/L	380	4	55.0 ^b	157 ^b	177 ^b	156 ^b	247 ^b	327 ^b	337 J ^b	226 ^b	224 ^b	162 J ^b	264 ^b	221 ^b
Barium (dissolved)	ug/L	380	4	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	ug/L	2.5	0.66	0.13 U	0.13 U	0.13 J	0.80 U	0.17 U	0.13 U	2.6 ^{ab}	0.80 U	0.80 U	0.17 U	0.13 U	0.13 U
Beryllium (dissolved)	ug/L	2.5	0.66	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	0.18	0.25	0.39 U	0.39 U	0.39 U	2.0 U	0.36 J ^{ab}	0.39 U	0.39 U	2.0 U	2.0 U	0.33 U	0.39 U	0.39 U

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan Groundwater Sampling Report, Year 2
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-109R GW - 11222397- 011223-MA-16 1/12/2023	OU-5 MW-109R GW-11222397- 111623-CT-16 11/16/2023	OU-5 MW-109R GW-11222397- 111623-CT-17 11/16/2023 (Duplicate)	OU-5 MW-112 GW-01733818- 0713-RM-01 7/13/2018	OU-5 MW-112 GW-11210099- 081820-ST-005 8/18/2020	OU-5 MW-112 GW-11222397- 011123-ZB-12 1/11/2023	OU-5 MW-112 GW-11222397- 111523-ZB-14 11/15/2023	OU-5 MW-113 GW-01733818- 0713-RM-02 7/13/2018	OU-5 MW-113 GW-01733818- 0713-RM-03 7/13/2018 (Duplicate)	OU-5 MW-113 GW-11210099- 081820-ST-004 8/18/2020	OU-5 MW-113R GW - 11222397- 011223-MA-15 1/12/2023	OU-5 MW-113R GW-11222397- 111623-ZB-18 11/16/2023
Parameters	Units	HSCA Groundwater Screening Levels (November 2023) (a)	HSCA Ecological Surface Water Fresh Screening Levels (November 2023) (b)												
Cadmium (dissolved)	ug/L	0.18	0.25	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	ug/L	--	--	90800	61800	63200	37800	40400 J	74300	34900	35100	34400	24600 J	36600	32100
Calcium (dissolved)	ug/L	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	ug/L	10	85	7.3	2.5 UJ	10.4 J ^a	4.0 U	5.0 U	3.4 J	57.7 ^a	4.0 U	4.0 U	5.0 U	2.6 J	2.5 U
Chromium (dissolved)	ug/L	10	85	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent)	ug/L	0.035	11	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	0.6	23	2.8 J ^a	0.86 J ^a	2.5 J ^a	10.8 ^a	5.4 J ^a	7.4 ^a	22.5 ^a	9.2 ^a	8.8 ^a	14.6 J ^a	17.7 ^a	12.7 ^a
Cobalt (dissolved)	ug/L	0.6	23	-	-	-	-	-	-	-	-	-	-	-	-
Copper	ug/L	80	9	16.9 ^b	2.5 U	18.3 J ^b	4.0 U	6.9 U	5.1 U	2.5 U	4.0 U	4.0 U	6.9 U	2.5 U	2.5 U
Copper (dissolved)	ug/L	80	9	-	-	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	1400	300	4170 ^{ab}	1330 J ^b	4700 J ^{ab}	1330 ^b	80.8 U	3500 ^{ab}	39800 ^{ab}	4680 ^{ab}	4570 ^{ab}	1100 J ^b	833 ^b	406 ^b
Iron (dissolved)	ug/L	1400	300	-	-	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	15	2.5	11.9 ^b	0.84 UJ	5.7 J ^b	1.2 U	5.2 J ^b	2.7 ^b	76.9 J ^{ab}	1.2 U	1.2 U	3.3 J ^b	0.84 J	0.84 U
Lead (dissolved)	ug/L	15	2.5	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	ug/L	--	--	33800	16800	17500	20900	46000	52700	24600	26100	25100	22700	31400	28400
Magnesium (dissolved)	ug/L	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	43	120	125 ^{ab}	21.9 J	73.0 J ^a	3840 ^{ab}	12200 J ^{ab}	1270 ^{ab}	617 ^{ab}	2400 ^{ab}	2330 ^{ab}	4140 J ^{ab}	4720 ^{ab}	3270 ^{ab}
Manganese (dissolved)	ug/L	43	120	67.0 ^a	24.6	32.0	-	-	1170 ^{ab}	439 ^{ab}	-	-	-	4850 ^{ab}	3060 ^{ab}
Mercury	ug/L	0.063	0.026	0.10 J ^{ab}	0.091 U	0.091 U	0.20 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
Mercury (dissolved)	ug/L	0.063	0.026	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	39	52	6.0	0.91 U	5.8	3.7 J	4.3 J	9.3 U	0.91 U	1.5 J	1.9 J	4.1 U	3.4 J	0.91 U
Nickel (dissolved)	ug/L	39	52	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	ug/L	--	--	35100	10200	10500	7050	3660 J	8730	9200	7000	6820	4510 J	4550	5580
Potassium (dissolved)	ug/L	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	10	1	0.59 U	0.59 U	0.59 U	10.0 U	7.6 J ^b	0.59 U	0.72 J	10.0 U	10.0 U	5.9 U	0.59 U	0.59 U
Selenium (dissolved)	ug/L	10	1	-	-	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	9.4	3.2	0.29 U	0.29 U	0.29 U	2.0 U	5.8 U	0.29 U	1.0 J	2.0 U	2.0 U	5.8 U	0.29 U	0.29 U
Silver (dissolved)	ug/L	9.4	3.2	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	ug/L	--	--	49900	34300	35500	41600	80500 J	84800	84400	61800	59500	69900 J	74300	70600
Sodium (dissolved)	ug/L	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	0.02	0.8	0.21 U	0.21 U	0.21 U	0.80 U	11.4 J ^{ab}	0.21 U	0.21 UJ	0.80 U	0.80 U	4.7 J ^{ab}	0.21 U	0.21 U
Thallium (dissolved)	ug/L	0.02	0.8	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	ug/L	8.6	20	6.7	4.0 J	11.6 J ^a	4.0 U	7.2 U	5.3	99.7 ^{ab}	4.0 U	4.0 U	7.2 U	3.8 J	1.9 J
Vanadium (dissolved)	ug/L	8.6	20	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	ug/L	600	120	20.8	10.8 J	19.1 J	16.0 U	1.2 U	20.5	196 ^b	16.0 U	16.0 U	1.2 U	6.5 U	6.5 U
Zinc (dissolved)	ug/L	600	120	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

U Not detected at the associated reporting limit.
J Estimated concentration.
UJ Not detected; associated reporting limit is estimated.
R Rejected.
ug/L micrograms per liter
DNREC Department of Natural Resources and Environmnetal Control
HSCA Hazardous Substance Cleanup Act

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Concentration exceeds the DNREC HSCA Screening Levels, updated November 2023
(a) Concentration exceeds the DNREC HSCA Groundwater Screening Levels, updated November 2023
(b) Concentration exceeds the DNREC HSCA Ecological Surface Water Fresh Screening Levels, updated November 2023

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW-017338-012110-ACH-001 01/21/2010	OU-2 MW-8 MW8-060205EAP001 06/02/2005	OU-2 MW-8 MW8-060205EAP002 06/02/2005 (Duplicate)	OU-2 MW-8 WG-17338-111405-RR-015 11/14/2005	OU-2 MW-8 GW17338082106004 08/21/2006
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	ug/L	200	11	-	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	ug/L	0.076	610	-	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	0.041	1200	-	3.0 U	3.0 U	3.0 U	3.0 U
1,1-Dichloroethane	ug/L	2.8	47	-	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	ug/L	7	25	-	2.0 U	2.0 U	2.0 U	2.0 U
1,2,4-Trichlorobenzene	ug/L	0.4	24	-	5.0 U	5.0 U	5.0 U	5.0 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
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	-	-	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	ug/L	30	0.7	-	0.7 J	0.8 J ^b	5.0 U	5.0 U
1,2-Dichloroethane	ug/L	0.17	100	-	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichloropropane	ug/L	0.82	-	-	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
1,4-Dichlorobenzene	ug/L	0.48	26	-	3.7 J ^a	3.8 J ^a	1.3 J ^a	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	-	R	R	R	5.0 U
2-Hexanone	ug/L	3.8	99	-	5.0 U	5.0 U	5.0 U	5.0 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
Acetone	ug/L	1800	1500	-	5.0 U	5.0 U	5.0 U	R
Benzene	ug/L	0.46	370	-	4.7 ^a	4.9 ^a	7.6 ^a	7.2 ^a
Bromodichloromethane	ug/L	0.13	-	-	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
Bromomethane (Methyl bromide)	ug/L	0.75	-	-	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L	81	0.92	-	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L	0.46	13.3	-	2.0 U	2.0 U	2.0 U	2.0 U
Chlorobenzene	ug/L	7.8	1.3	-	810 ^{ab}	710 ^{ab}	250 ^{ab}	60 ^{ab}
Chloroethane	ug/L	830	-	-	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	ug/L	0.22	1.8	-	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	ug/L	19	-	-	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	2.5	-	-	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	ug/L	-	-	-	5.0 U	5.0 U	5.0 U	5.0 U
Cyclohexane	ug/L	1300	-	-	0.6 J	0.7 J	1.7 J	1.1 J
Dibromochloromethane	ug/L	0.87	-	-	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	20	-	-	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L	1.5	90	-	6.5 ^a	7.3 ^a	0.9 J	4.0 U
Isopropyl benzene	ug/L	45	2.6	-	2.5 J	2.7 J ^b	7.8 ^b	2.8 J ^b
Methyl acetate	ug/L	2000	-	-	5.0 U	5.0 U	5.0 U	5.0 U
Methyl cyclohexane	ug/L	-	-	-	5.0 U	5.0 U	1.9 J	0.8 J
Methyl tert butyl ether (MTBE)	ug/L	10	11070	-	1.3 J	1.4 J	2.2 J	16 ^a
Methylene chloride	ug/L	5	98.1	-	3.0 U	3.0 U	3.0 U	3.0 U
Styrene	ug/L	100	72	-	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	ug/L	1	111	-	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
trans-1,2-Dichloroethene	ug/L	6.8	970	-	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	ug/L	-	-	-	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	ug/L	0.28	21	-	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	520	-	-	5.0 U	5.0 U	5.0 U	5.0 U
Trifluorotrchloroethane (CFC-113)	ug/L	1000	-	-	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	ug/L	0.019	930	-	5.0 U	5.0 U	5.0 U	5.0 U

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW-017338-012110-ACH-001 01/21/2010	OU-2 MW-8 MW8-060205EAP001 06/02/2005	OU-2 MW-8 MW8-060205EAP002 06/02/2005 (Duplicate)	OU-2 MW-8 WG-17338-111405-RR-015 11/14/2005	OU-2 MW-8 GW17338082106004 08/21/2006
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Xylenes (total)	ug/L	19	13	-	9.1	9.6	1.6 J	5.0 U

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW-017338-012110-ACH-001 01/21/2010	OU-2 MW-8 MW8-060205EAP001 06/02/2005	OU-2 MW-8 MW8-060205EAP002 06/02/2005 (Duplicate)	OU-2 MW-8 WG-17338-111405-RR-015 11/14/2005	OU-2 MW-8 GW17338082106004 08/21/2006
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Semi-Volatile Organic Compounds								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71		10 U	10 U	17 U	10 U	11 UJ
2,4,5-Trichlorophenol	ug/L	120		10 U	10 U	17 U	10 U	11 U
2,4,6-Trichlorophenol	ug/L	1.2	4.9	10 U	10 U	17 U	10 U	11 U
2,4-Dichlorophenol	ug/L	4.6	11	10 U	10 U	17 U	10 U	11 U
2,4-Dimethylphenol	ug/L	36		10 U	10 U	17 U	5.6 J	11 U
2,4-Dinitrophenol	ug/L	3.9		30 U	42 U	67 U	41 U	33 UJ
2,4-Dinitrotoluene	ug/L	0.24	44	2.0 U	2.1 U	3.3 U	2.1 U	2.2 UJ
2,6-Dinitrotoluene	ug/L	0.049	81	2.0 U	2.1 U	3.3 U	0.4 J ^a	2.2 UJ
2-Chloronaphthalene	ug/L	75		10 U	10 U	17 U	10 U	11 UJ
2-Chlorophenol	ug/L	9.1	24	10 U	4.4 J	4.8 J	1.0 J	11 U
2-Methylnaphthalene	ug/L	3.6	4.7	10 U	10 U	17 U	10 U	11 UJ
2-Methylphenol	ug/L	93	13	10 U	0.2 J	17 U	10 U	11 U
2-Nitroaniline	ug/L	19		20 U	21 U	33 U	21 U	22 UJ
2-Nitrophenol	ug/L			10 U	10 U	17 U	10 U	11 U
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	20 U	21 U	33 U	21 U	22 UJ
3-Nitroaniline	ug/L			20 U	21 U	33 U	21 U	22 UJ
4,6-Dinitro-2-methylphenol	ug/L	0.15		30 U	42 U	67 U	41 U	33 UJ
4-Bromophenyl phenyl ether	ug/L			10 U	10 U	17 U	10 U	11 UJ
4-Chloro-3-methylphenol	ug/L	140		10 U	10 U	17 U	10 U	11 U
4-Chloroaniline	ug/L	0.37	232	10 U	10 U	17 U	10 U	11 UJ
4-Chlorophenyl phenyl ether	ug/L			10 U	10 U	17 U	10 U	11 UJ
4-Methylphenol	ug/L	37	543	10 U	10 U	0.4 J	10 U	11 U
4-Nitroaniline	ug/L	3.8		20 U	21 U	33 U	21 U	22 UJ
4-Nitrophenol	ug/L			30 U	42 U	67 U	41 U	33 U
Acenaphthene	ug/L	53	5.8	10 U	10 U	17 U	0.4 J	11 UJ
Acenaphthylene	ug/L			10 U	10 U	17 U	10 U	11 UJ
Acetophenone	ug/L	190		10 U	10 U	17 U	10 U	11 UJ
Anthracene	ug/L	180	0.012	10 U	10 U	17 U	10 U	11 UJ
Atrazine	ug/L	0.3	1.8	10 U	10 UJ	17 UJ	10 UJ	11 UJ
Benzaldehyde	ug/L	19		10 UJ	10 UJ	17 UJ	10 UJ	11 UJ
Benzo(a)anthracene	ug/L	0.03	0.018	1.0 U	1.0 U	1.7 U	1.0 U	1.1 UJ
Benzo(a)pyrene	ug/L	0.025	0.015	1.0 U	1.0 U	1.7 U	1.0 U	1.1 UJ
Benzo(b)fluoranthene	ug/L	0.25		1.0 U	1.0 U	1.7 U	1.0 U	1.1 UJ
Benzo(g,h,i)perylene	ug/L			1.0 U	1.0 U	1.7 U	1.0 U	1.1 UJ
Benzo(k)fluoranthene	ug/L	2.5		1.0 U	1.0 U	1.7 U	1.0 U	1.1 UJ
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	10 U	10 U	17 U	10 U	11 UJ
bis(2-Chloroethoxy)methane	ug/L	5.9		10 U	10 U	17 U	10 U	11 UJ
bis(2-Chloroethyl)ether	ug/L	0.014		1.0 U	1.0 U	1.7 U	1.0 U	1.1 UJ
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	10 U	10 U	17 U	10 U	11 UJ
Butyl benzylphthalate (BBP)	ug/L	16	19	10 U	10 U	17 U	10 U	11 UJ
Caprolactam	ug/L	990		10 U	10 U	17 U	10 U	11 UJ
Carbazole	ug/L			10 U	10 U	17 U	10 U	11 UJ
Chrysene	ug/L	25		10 U	10 U	17 U	10 U	11 UJ
Dibenz(a,h)anthracene	ug/L	0.025		1.0 U	1.0 U	1.7 U	1.0 U	1.1 UJ
Dibenzofuran	ug/L	0.79	3.7	10 U	10 U	17 U	0.3 J	11 UJ
Diethyl phthalate	ug/L	1500	210	10 U	10 U	17 U	10 U	11 UJ
Dimethyl phthalate	ug/L			10 U	10 U	17 U	10 U	11 UJ
Di-n-butylphthalate (DBP)	ug/L	90	19	10 U	10 U	17 U	10 U	11 UJ
Di-n-octyl phthalate (DnOP)	ug/L	20	22	10 U	10 U	17 U	10 U	11 UJ
Fluoranthene	ug/L	80	0.04	10 U	10 U	17 U	0.4 J ^b	11 UJ

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW-017338-012110-ACH-001 01/21/2010	OU-2 MW-8 MW8-060205EAP001 06/02/2005	OU-2 MW-8 MW8-060205EAP002 06/02/2005 (Duplicate)	OU-2 MW-8 WG-17338-111405-RR-015 11/14/2005	OU-2 MW-8 GW17338082106004 08/21/2006
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Fluorene	ug/L	29	3	10 U	10 U	17 U	0.5 J	11 UJ
Hexachlorobenzene	ug/L	0.0098	0.0003	1.0 U	1.0 U	1.7 U	1.0 U	1.1 UJ
Hexachlorobutadiene	ug/L	0.14	1.3	2.0 U	2.1 U	3.3 U	2.1 U	2.2 UJ
Hexachlorocyclopentadiene	ug/L	0.041		10 U	10 U	17 U	10 U	11 UJ
Hexachloroethane	ug/L	0.33	12	1.0 U	1.0 U	1.7 U	1.0 U	1.1 UJ
Indeno(1,2,3-cd)pyrene	ug/L	0.25		1.0 U	1.0 U	1.7 U	1.0 U	1.1 UJ
Isophorone	ug/L	78		10 U	10 U	17 U	10 U	11 UJ
Naphthalene	ug/L	0.12	1.1	140 J ^{ab}	0.8 J ^a	0.8 J ^a	0.4 J ^a	0.5 J ^a
Nitrobenzene	ug/L	0.14		1.0 U	1.0 U	1.7 U	1.0 U	1.1 UJ
N-Nitrosodi-n-propylamine	ug/L	0.011		1.0 U	1.0 U	1.7 U	1.0 U	1.1 UJ
N-Nitrosodiphenylamine	ug/L	12	210	10 U	10 U	17 U	10 U	11 UJ
Pentachlorophenol	ug/L	0.041	0.5	30 U	42 U	67 U	41 U	33 UJ
Phenanthrene	ug/L	12	0.4	10 U	10 U	17 U	10 U	11 UJ
Phenol	ug/L	580	4	10 U	10 U	17 U	10 U	11 U
Pyrene	ug/L	12	0.025	10 U	10 U	17 U	10 U	11 UJ

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Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW-017338-012110-ACH-001 01/21/2010	OU-2 MW-8 MW8-060205EAP001 06/02/2005	OU-2 MW-8 MW8-060205EAP002 06/02/2005 (Duplicate)	OU-2 MW-8 WG-17338-111405-RR-015 11/14/2005	OU-2 MW-8 GW17338082106004 08/21/2006
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Metals								
		a	b					
Aluminum	ug/L	2000	87	-	7060 ^{ab}	2310 ^{ab}	-	-
Aluminum (dissolved)	ug/L	2000	87	-	-	-	-	-
Antimony	ug/L	0.78	30	-	12 U	12 U	-	-
Antimony (dissolved)	ug/L	0.78	30	-	-	-	-	-
Arsenic	ug/L	0.052	5	-	6.4 U	6.4 U	-	-
Arsenic (dissolved)	ug/L	0.052	5	-	-	-	-	-
Barium	ug/L	380	4	-	276 ^b	285 ^b	-	-
Barium (dissolved)	ug/L	380	4	-	-	-	-	-
Beryllium	ug/L	2.5	0.66	-	0.21	2 U	-	-
Beryllium (dissolved)	ug/L	2.5	0.66	-	-	-	-	-
Cadmium	ug/L	0.18	0.25	-	5 U	5 U	-	-
Cadmium (dissolved)	ug/L	0.18	0.25	-	-	-	-	-
Calcium	ug/L	-	-	-	41700	43000	-	-
Calcium (dissolved)	ug/L	-	-	-	-	-	-	-
Chromium	ug/L	10	85	-	11.1 ^a	3.0	-	-
Chromium (dissolved)	ug/L	10	85	-	-	-	-	-
Chromium VI (hexavalent)	ug/L	0.035	11	-	-	-	10 U	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-	-	-	-	-
Cobalt	ug/L	0.6	23	-	24.5 ^{ab}	21.7 ^a	-	-
Cobalt (dissolved)	ug/L	0.6	23	-	-	-	-	-
Copper	ug/L	80	9	-	9.3 ^b	25 U	-	-
Copper (dissolved)	ug/L	80	9	-	-	-	-	-
Iron	ug/L	1400	300	-	41300 ^{ab}	43700 ^{ab}	-	-
Iron (dissolved)	ug/L	1400	300	-	-	-	-	-
Lead	ug/L	15	2.5	-	4.0 ^b	3 U	-	-
Lead (dissolved)	ug/L	15	2.5	-	-	-	-	-
Magnesium	ug/L	-	-	-	27600	29100	-	-
Magnesium (dissolved)	ug/L	-	-	-	-	-	-	-
Manganese	ug/L	43	120	-	2120 ^{ab}	2270 ^{ab}	-	-
Manganese (dissolved)	ug/L	43	120	-	-	-	-	-
Mercury	ug/L	0.063	0.026	-	0.20 U	0.20 U	-	-
Mercury (dissolved)	ug/L	0.063	0.026	-	-	-	-	-
Nickel	ug/L	39	52	-	7.3	40 U	-	-
Nickel (dissolved)	ug/L	39	52	-	-	-	-	-
Potassium	ug/L	-	-	-	2780	2610	-	-
Potassium (dissolved)	ug/L	-	-	-	-	-	-	-
Selenium	ug/L	10	1	-	5.1 U	5.1 U	-	-
Selenium (dissolved)	ug/L	10	1	-	-	-	-	-
Silver	ug/L	9.4	3.2	-	15 U	15 U	-	-
Silver (dissolved)	ug/L	9.4	3.2	-	-	-	-	-
Sodium	ug/L	-	-	-	48900	51900	-	-
Sodium (dissolved)	ug/L	-	-	-	-	-	-	-
Thallium	ug/L	0.02	0.8	-	11 U	11 U	-	-
Thallium (dissolved)	ug/L	0.02	0.8	-	-	-	-	-
Vanadium	ug/L	8.6	20	-	18.1 ^a	4.8	-	-
Vanadium (dissolved)	ug/L	8.6	20	-	-	-	-	-
Zinc	ug/L	600	120	-	18.6	9.6	-	-
Zinc (dissolved)	ug/L	600	120	-	-	-	-	-

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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW-017338-012110-ACH-001 01/21/2010	OU-2 MW-8 MW8-060205EAP001 06/02/2005	OU-2 MW-8 MW8-060205EAP002 06/02/2005 (Duplicate)	OU-2 MW-8 WG-17338-111405-RR-015 11/14/2005	OU-2 MW-8 GW17338082106004 08/21/2006
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW17338082306015 08/23/2006	OU-2 MW-8 GW-17338-121406-MJW-10 12/14/2006	OU-2 MW-8 GW-17338-080408-02 08/04/2008	OU-2 MW-8 GW-17338-112008-01 11/20/2008	OU-2 MW-8 GW-017338-022409-009 02/24/2009
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	ug/L	200	11	-	5.0 U	5.0 U	5.0 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
1,1,2-Trichloroethane	ug/L	0.041	1200	-	3.0 U	3.0 U	3.0 U	1.0 U
1,1-Dichloroethane	ug/L	2.8	47	-	5.0 U	5.0 U	5.0 U	1.0 U
1,1-Dichloroethene	ug/L	7	25	-	2.0 U	2.0 U	2.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	0.4	24	-	5.0 U	5.0 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	-	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075		-	5.0 U	5.0 U	-	1.0 U
1,2-Dichlorobenzene	ug/L	30	0.7	-	5.0 U	5.0 U	-	1.0 U
1,2-Dichloroethane	ug/L	0.17	100	-	2.0 U	2.0 U	2.0 U	1.0 U
1,2-Dichloropropane	ug/L	0.82		-	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene	ug/L	6	71	-	-	-	-	-
1,3-Dichlorobenzene	ug/L			-	5.0 U	5.0 U	-	1.0 U
1,4-Dichlorobenzene	ug/L	0.48	26	-	5.0 U	5.0 U	-	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	-	R	5.0 U	5.0 U	10 U
2-Hexanone	ug/L	3.8	99	-	5.0 U	5.0 U	5.0 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	170	-	5.0 U	5.0 U	5.0 U	10 U
Acetone	ug/L	1800	1500	-	R	5.0 U	5.0 U	10 U
Benzene	ug/L	0.46	370	-	6.6 ^a	1.2 ^a	3.9 ^a	2.9 ^a
Bromodichloromethane	ug/L	0.13		-	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	1.0 U
Bromomethane (Methyl bromide)	ug/L	0.75		-	5.0 U	5.0 U	5.0 U	1.0 U
Carbon disulfide	ug/L	81	0.92	-	5.0 U	5.0 U	5.0 U	1.0 U
Carbon tetrachloride	ug/L	0.46	13.3	-	2.0 U	2.0 U	2.0 U	1.0 U
Chlorobenzene	ug/L	7.8	1.3	-	49 ^{ab}	4.6 J ^b	3.3 J ^b	2.9 ^b
Chloroethane	ug/L	830		-	5.0 U	5.0 U	5.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	0.22	1.8	-	5.0 U	5.0 U	5.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	19		-	5.0 U	5.0 U	5.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	2.5		-	5.0 U	5.0 U	5.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L			-	5.0 U	5.0 U	5.0 U	1.0 U
Cyclohexane	ug/L	1300		-	1.6 J	0.9 J	-	3.1
Dibromochloromethane	ug/L	0.87		-	5.0 U	5.0 U	5.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	20		-	5.0 U	5.0 U	-	1.0 U
Ethylbenzene	ug/L	1.5	90	-	4.0 U	4.0 U	4.0 U	1.0 U
Isopropyl benzene	ug/L	45	2.6	-	0.9 J	0.6 J	-	5.9 ^b
Methyl acetate	ug/L	2000		-	5.0 U	5.0 U	-	1.0 U
Methyl cyclohexane	ug/L			-	1.8 J	2.4 J	-	11
Methyl tert butyl ether (MTBE)	ug/L	10	11070	-	17 ^a	4.5 J	-	6.3
Methylene chloride	ug/L	5	98.1	-	3.0 U	3.0 U	3.0 U	1.0 U
Styrene	ug/L	100	72	-	5.0 U	5.0 U	5.0 U	1.0 U
Tetrachloroethene	ug/L	1	111	-	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	110	2	-	5.0 U	5.0 U	0.4 J	1.0 U
trans-1,2-Dichloroethene	ug/L	6.8	970	-	5.0 U	5.0 U	5.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L			-	5.0 U	5.0 U	5.0 U	1.0 U
Trichloroethene	ug/L	0.28	21	-	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	520		-	5.0 U	5.0 U	-	1.0 U
Trifluorotrchloroethane (CFC-113)	ug/L	1000		-	5.0 U	5.0 U	-	1.0 U
Vinyl chloride	ug/L	0.019	930	-	5.0 U	5.0 U	5.0 U	1.0 U

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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW17338082306015 08/23/2006	OU-2 MW-8 GW-17338-121406-MJW-10 12/14/2006	OU-2 MW-8 GW-17338-080408-02 08/04/2008	OU-2 MW-8 GW-17338-112008-01 11/20/2008	OU-2 MW-8 GW-017338-022409-009 02/24/2009
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Xylenes (total)	ug/L	19	13	-	5.0 U	5.0 U	5.0 U	0.5 J

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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW17338082306015 08/23/2006	OU-2 MW-8 GW-17338-121406-MJW-10 12/14/2006	OU-2 MW-8 GW-17338-080408-02 08/04/2008	OU-2 MW-8 GW-17338-112008-01 11/20/2008	OU-2 MW-8 GW-017338-022409-009 02/24/2009
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Semi-Volatile Organic Compounds								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71		-	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	ug/L	120		-	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	ug/L	1.2	4.9	-	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	ug/L	4.6	11	-	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	ug/L	36		-	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	ug/L	3.9		-	31 U	30 U	31 U	32 U
2,4-Dinitrotoluene	ug/L	0.24	44	-	2.1 U	2.0 U	2.0 U	2.1 U
2,6-Dinitrotoluene	ug/L	0.049	81	-	2.1 U	2.0 U	2.0 U	2.1 U
2-Chloronaphthalene	ug/L	75		-	10 U	10 U	10 U	10 U
2-Chlorophenol	ug/L	9.1	24	-	10 U	10 U	10 U	10 U
2-Methylnaphthalene	ug/L	3.6	4.7	-	10 U	10 U	0.4 J	10 U
2-Methylphenol	ug/L	93	13	-	10 U	10 U	10 U	10 U
2-Nitroaniline	ug/L	19		-	21 U	20 U	20 U	21 U
2-Nitrophenol	ug/L			-	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	-	21 U	20 U	20 U	21 U
3-Nitroaniline	ug/L			-	21 U	20 U	20 U	21 U
4,6-Dinitro-2-methylphenol	ug/L	0.15		-	31 U	30 U	31 U	32 U
4-Bromophenyl phenyl ether	ug/L			-	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	ug/L	140		-	10 U	10 U	10 U	10 U
4-Chloroaniline	ug/L	0.37	232	-	10 U	10 U	10 U	10 U
4-Chlorophenyl phenyl ether	ug/L			-	10 U	10 U	10 U	10 U
4-Methylphenol	ug/L	37	543	-	10 U	10 U	-	10 U
4-Nitroaniline	ug/L	3.8		-	21 U	20 U	20 U	21 U
4-Nitrophenol	ug/L			-	31 U	30 U	31 U	32 U
Acenaphthene	ug/L	53	5.8	-	0.6 J	0.3 J	0.8 J	0.8 J
Acenaphthylene	ug/L			-	10 U	10 U	10 U	10 U
Acetophenone	ug/L	190		-	10 U	10 U	10 U	10 U
Anthracene	ug/L	180	0.012	-	10 U	10 U	10 U	10 U
Atrazine	ug/L	0.3	1.8	-	10 U	10 U	10 U	10 U
Benzaldehyde	ug/L	19		-	10 UJ	10 UJ	10 UJ	10 UJ
Benzo(a)anthracene	ug/L	0.03	0.018	-	1.0 U	1.0 U	1.0 U	1.0 U
Benzo(a)pyrene	ug/L	0.025	0.015	-	1.0 U	1.0 U	1.0 U	1.0 U
Benzo(b)fluoranthene	ug/L	0.25		-	1.0 U	1.0 U	1.0 U	1.0 U
Benzo(g,h,i)perylene	ug/L			-	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	ug/L	2.5		-	1.0 U	1.0 U	1.0 U	1.0 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	-	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	ug/L	5.9		-	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	ug/L	0.014		-	1.0 U	1.0 U	1.0 U	1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	-	10 U	10 U	10 U	10 U
Butyl benzylphthalate (BBP)	ug/L	16	19	-	10 U	10 U	10 U	10 U
Caprolactam	ug/L	990		-	10 U	10 U	10 U	10 U
Carbazole	ug/L			-	10 U	10 U	10 U	10 U
Chrysene	ug/L	25		-	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	ug/L	0.025		-	1.0 U	1.0 U	1.0 U	1.0 U
Dibenzofuran	ug/L	0.79	3.7	-	0.3 J	10 U	0.3 J	10 U
Diethyl phthalate	ug/L	1500	210	-	10 U	10 U	10 U	10 U
Dimethyl phthalate	ug/L			-	10 U	10 U	10 U	10 U
Di-n-butylphthalate (DBP)	ug/L	90	19	-	10 U	10 U	10 U	10 U
Di-n-octyl phthalate (DnOP)	ug/L	20	22	-	10 U	10 U	10 U	10 U
Fluoranthene	ug/L	80	0.04	-	0.3 J ^b	10 U	10 U	0.3 J ^b

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Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW17338082306015 08/23/2006	OU-2 MW-8 GW-17338-121406-MJW-10 12/14/2006	OU-2 MW-8 GW-17338-080408-02 08/04/2008	OU-2 MW-8 GW-17338-112008-01 11/20/2008	OU-2 MW-8 GW-017338-022409-009 02/24/2009
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Fluorene	ug/L	29	3	-	0.6 J	10 U	0.4 J	10 U
Hexachlorobenzene	ug/L	0.0098	0.0003	-	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobutadiene	ug/L	0.14	1.3	-	2.1 U	2.0 U	2.0 U	2.1 U
Hexachlorocyclopentadiene	ug/L	0.041		-	10 U	10 U	10 U	10 U
Hexachloroethane	ug/L	0.33	12	-	1.0 U	1.0 U	1.0 U	1.0 U
Indeno(1,2,3-cd)pyrene	ug/L	0.25		-	1.0 U	1.0 U	1.0 U	1.0 U
Isophorone	ug/L	78		-	10 U	10 U	10 U	10 U
Naphthalene	ug/L	0.12	1.1	-	5.2 J ^{ab}	10 U	43 ^{ab}	32 ^{ab}
Nitrobenzene	ug/L	0.14		-	1.0 U	1.0 U	1.0 U	1.0 U
N-Nitrosodi-n-propylamine	ug/L	0.011		-	1.0 U	1.0 U	1.0 U	1.0 U
N-Nitrosodiphenylamine	ug/L	12	210	-	10 U	10 U	10 U	10 U
Pentachlorophenol	ug/L	0.041	0.5	-	31 U	30 U	31 U	32 U
Phenanthrene	ug/L	12	0.4	-	10 U	10 U	10 U	10 U
Phenol	ug/L	580	4	-	10 U	10 U	10 U	10 U
Pyrene	ug/L	12	0.025	-	10 U	10 U	10 U	10 U

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW17338082306015 08/23/2006	OU-2 MW-8 GW-17338-121406-MJW-10 12/14/2006	OU-2 MW-8 GW-17338-080408-02 08/04/2008	OU-2 MW-8 GW-17338-112008-01 11/20/2008	OU-2 MW-8 GW-017338-022409-009 02/24/2009
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Metals				a	b			
Aluminum	ug/L	2000	87	257 ^b	293 ^b	387 ^b	946 ^b	477 ^b
Aluminum (dissolved)	ug/L	2000	87	160 U	200 U	-	-	-
Antimony	ug/L	0.78	30	12 U	10 U	8.4 U	10 U	10 U
Antimony (dissolved)	ug/L	0.78	30	12 U	10 U	-	-	-
Arsenic	ug/L	0.052	5	3.6 U	4.2 U	5.9 U	4.2 U	4.2 U
Arsenic (dissolved)	ug/L	0.052	5	3.6 U	4.2 U	-	-	-
Barium	ug/L	380	4	296 ^b	302 ^b	410 ^{ab}	529 ^{ab}	462 ^{ab}
Barium (dissolved)	ug/L	380	4	305 ^b	305 ^b	-	-	-
Beryllium	ug/L	2.5	0.66	6 U	2 U	0.67 U	2 U	2 U
Beryllium (dissolved)	ug/L	2.5	0.66	6 U	2 U	-	-	-
Cadmium	ug/L	0.18	0.25	3.2 U	4 U	0.59 J ^{ab}	4 U	4 U
Cadmium (dissolved)	ug/L	0.18	0.25	3.2 U	4 U	-	-	-
Calcium	ug/L			47300	51400	53500	53800	58000
Calcium (dissolved)	ug/L			48700	51100	-	-	-
Chromium	ug/L	10	85	5.7 U	10 U	18 U	10 U	10 U
Chromium (dissolved)	ug/L	10	85	5.7 U	10 U	-	-	-
Chromium VI (hexavalent)	ug/L	0.035	11	40.0 U	-	-	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	50.0 U	-	-	-	-
Cobalt	ug/L	0.6	23	22.2 J ^a	21.6 J ^a	19.0 J ^a	17.8 J ^a	19.5 J ^a
Cobalt (dissolved)	ug/L	0.6	23	22.4 J ^a	21.4 J ^a	-	-	-
Copper	ug/L	80	9	30 U	25 U	3.3 J	25 U	25 U
Copper (dissolved)	ug/L	80	9	30 U	25 U	-	-	-
Iron	ug/L	1400	300	54600 ^{ab}	56700 ^{ab}	67800 ^{ab}	72700 ^{ab}	75500 ^{ab}
Iron (dissolved)	ug/L	1400	300	56600 ^{ab}	56600 ^{ab}	-	-	-
Lead	ug/L	15	2.5	3.7 U	3 U	13.7 ^b	3 U	3 U
Lead (dissolved)	ug/L	15	2.5	3.7 U	3 U	-	-	-
Magnesium	ug/L			31800	32900	35300	37500	37100
Magnesium (dissolved)	ug/L			33100	33100	-	-	-
Manganese	ug/L	43	120	1980 ^{ab}	1980 ^{ab}	1900 ^{ab}	1870 ^{ab}	1990 ^{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
Mercury (dissolved)	ug/L	0.063	0.026	0.20 U	0.20 U	-	-	-
Nickel	ug/L	39	52	25 U	40 U	65 U	40 U	40 U
Nickel (dissolved)	ug/L	39	52	25 U	4.6 J	-	-	-
Potassium	ug/L			2790 J	3150 J	3220 J	3780 J	3370 J
Potassium (dissolved)	ug/L			2850 J	3140 J	-	-	-
Selenium	ug/L	10	1	4.4 U	5 U	5.7 U	5 U	5 U
Selenium (dissolved)	ug/L	10	1	4.4 U	5 U	-	-	-
Silver	ug/L	9.4	3.2	12 U	10 U	8.6 U	10 U	10 U
Silver (dissolved)	ug/L	9.4	3.2	12 U	10 U	-	-	-
Sodium	ug/L			60000	55100	78500	101000	85400
Sodium (dissolved)	ug/L			61700	56000	-	-	-
Thallium	ug/L	0.02	0.8	9.8 U	9.5 U	9.7 U	9.5 U	9.5 U
Thallium (dissolved)	ug/L	0.02	0.8	9.8 U	9.5 U	-	-	-
Vanadium	ug/L	8.6	20	160 U	50 U	16 U	50 U	50 U
Vanadium (dissolved)	ug/L	8.6	20	160 U	50 U	-	-	-
Zinc	ug/L	600	120	30 U	30 U	30 U	30 U	30 U
Zinc (dissolved)	ug/L	600	120	30 U	12.5 J	-	-	-

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW17338082306015 08/23/2006	OU-2 MW-8 GW-17338-121406-MJW-10 12/14/2006	OU-2 MW-8 GW-17338-080408-02 08/04/2008	OU-2 MW-8 GW-17338-112008-01 11/20/2008	OU-2 MW-8 GW-017338-022409-009 02/24/2009
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW-017338-050809-ACH-003 05/08/2009
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	
Volatile Organic Compounds				
1,1,1-Trichloroethane	ug/L	200	11	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	0.076	610	1.0 U
1,1,2-Trichloroethane	ug/L	0.041	1200	1.0 U
1,1-Dichloroethane	ug/L	2.8	47	1.0 U
1,1-Dichloroethene	ug/L	7	25	1.0 U
1,2,4-Trichlorobenzene	ug/L	0.4	24	1.0 U
1,2,4-Trimethylbenzene	ug/L	5.6		-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.00033		1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075		1.0 U
1,2-Dichlorobenzene	ug/L	30	0.7	1.0 U
1,2-Dichloroethane	ug/L	0.17	100	1.0 U
1,2-Dichloropropane	ug/L	0.82		1.0 U
1,3,5-Trimethylbenzene	ug/L	6	71	-
1,3-Dichlorobenzene	ug/L			1.0 U
1,4-Dichlorobenzene	ug/L	0.48	26	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	10 U
2-Hexanone	ug/L	3.8	99	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	170	10 U
Acetone	ug/L	1800	1500	10 UJ
Benzene	ug/L	0.46	370	1.9 ^a
Bromodichloromethane	ug/L	0.13		1.0 U
Bromoform	ug/L	3.3	320	1.0 U
Bromomethane (Methyl bromide)	ug/L	0.75		1.0 U
Carbon disulfide	ug/L	81	0.92	1.0 U
Carbon tetrachloride	ug/L	0.46	13.3	1.0 U
Chlorobenzene	ug/L	7.8	1.3	1.6 ^b
Chloroethane	ug/L	830		1.0 U
Chloroform (Trichloromethane)	ug/L	0.22	1.8	1.0 U
Chloromethane (Methyl chloride)	ug/L	19		1.0 U
cis-1,2-Dichloroethene	ug/L	2.5		1.0 U
cis-1,3-Dichloropropene	ug/L			1.0 U
Cyclohexane	ug/L	1300		3.1
Dibromochloromethane	ug/L	0.87		1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	20		1.0 U
Ethylbenzene	ug/L	1.5	90	1.0 U
Isopropyl benzene	ug/L	45	2.6	2.9 ^b
Methyl acetate	ug/L	2000		2.0 U
Methyl cyclohexane	ug/L			16
Methyl tert butyl ether (MTBE)	ug/L	10	11070	5.0
Methylene chloride	ug/L	5	98.1	1.0 U
Styrene	ug/L	100	72	1.0 U
Tetrachloroethene	ug/L	1	111	1.0 U
Toluene	ug/L	110	2	1.0 U
trans-1,2-Dichloroethene	ug/L	6.8	970	1.0 U
trans-1,3-Dichloropropene	ug/L			1.0 U
Trichloroethene	ug/L	0.28	21	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	520		1.0 U
Trifluorotrchloroethane (CFC-113)	ug/L	1000		1.0 U
Vinyl chloride	ug/L	0.019	930	1.0 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW-017338-050809-ACH-003 05/08/2009
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	
Xylenes (total)	ug/L	19	13	3.0 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW-017338-050809-ACH-003 05/08/2009
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	
Semi-Volatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71		10 U
2,4,5-Trichlorophenol	ug/L	120		10 U
2,4,6-Trichlorophenol	ug/L	1.2	4.9	10 U
2,4-Dichlorophenol	ug/L	4.6	11	10 U
2,4-Dimethylphenol	ug/L	36		10 U
2,4-Dinitrophenol	ug/L	3.9		30 U
2,4-Dinitrotoluene	ug/L	0.24	44	2.0 U
2,6-Dinitrotoluene	ug/L	0.049	81	2.0 U
2-Chloronaphthalene	ug/L	75		10 U
2-Chlorophenol	ug/L	9.1	24	10 U
2-Methylnaphthalene	ug/L	3.6	4.7	10 U
2-Methylphenol	ug/L	93	13	10 U
2-Nitroaniline	ug/L	19		20 U
2-Nitrophenol	ug/L			10 U
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	20 U
3-Nitroaniline	ug/L			20 U
4,6-Dinitro-2-methylphenol	ug/L	0.15		30 U
4-Bromophenyl phenyl ether	ug/L			10 U
4-Chloro-3-methylphenol	ug/L	140		10 U
4-Chloroaniline	ug/L	0.37	232	10 U
4-Chlorophenyl phenyl ether	ug/L			10 U
4-Methylphenol	ug/L	37	543	10 U
4-Nitroaniline	ug/L	3.8		20 U
4-Nitrophenol	ug/L			30 U
Acenaphthene	ug/L	53	5.8	10 U
Acenaphthylene	ug/L			10 U
Acetophenone	ug/L	190		10 U
Anthracene	ug/L	180	0.012	10 U
Atrazine	ug/L	0.3	1.8	10 U
Benzaldehyde	ug/L	19		10 U
Benzo(a)anthracene	ug/L	0.03	0.018	1.0 U
Benzo(a)pyrene	ug/L	0.025	0.015	1.0 U
Benzo(b)fluoranthene	ug/L	0.25		1.0 U
Benzo(g,h,i)perylene	ug/L			10 U
Benzo(k)fluoranthene	ug/L	2.5		1.0 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	10 U
bis(2-Chloroethoxy)methane	ug/L	5.9		10 U
bis(2-Chloroethyl)ether	ug/L	0.014		1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	10 U
Butyl benzylphthalate (BBP)	ug/L	16	19	10 U
Caprolactam	ug/L	990		10 U
Carbazole	ug/L			10 U
Chrysene	ug/L	25		10 U
Dibenz(a,h)anthracene	ug/L	0.025		1.0 U
Dibenzofuran	ug/L	0.79	3.7	10 U
Diethyl phthalate	ug/L	1500	210	10 U
Dimethyl phthalate	ug/L			10 U
Di-n-butylphthalate (DBP)	ug/L	90	19	10 U
Di-n-octyl phthalate (DnOP)	ug/L	20	22	10 U
Fluoranthene	ug/L	80	0.04	10 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW-017338-050809-ACH-003 05/08/2009
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	
Fluorene	ug/L	29	3	10 U
Hexachlorobenzene	ug/L	0.0098	0.0003	1.0 U
Hexachlorobutadiene	ug/L	0.14	1.3	2.0 U
Hexachlorocyclopentadiene	ug/L	0.041		10 U
Hexachloroethane	ug/L	0.33	12	1.0 U
Indeno(1,2,3-cd)pyrene	ug/L	0.25		1.0 U
Isophorone	ug/L	78		10 U
Naphthalene	ug/L	0.12	1.1	10 U
Nitrobenzene	ug/L	0.14		1.0 U
N-Nitrosodi-n-propylamine	ug/L	0.011		1.0 U
N-Nitrosodiphenylamine	ug/L	12	210	10 U
Pentachlorophenol	ug/L	0.041	0.5	30 U
Phenanthrene	ug/L	12	0.4	10 U
Phenol	ug/L	580	4	10 U
Pyrene	ug/L	12	0.025	10 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW-017338-050809-ACH-003 05/08/2009
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	
Metals				
		a	b	
Aluminum	ug/L	2000	87	1180 ^b
Aluminum (dissolved)	ug/L	2000	87	-
Antimony	ug/L	0.78	30	10.0 U
Antimony (dissolved)	ug/L	0.78	30	-
Arsenic	ug/L	0.052	5	5.0 U
Arsenic (dissolved)	ug/L	0.052	5	-
Barium	ug/L	380	4	491 ^{ab}
Barium (dissolved)	ug/L	380	4	-
Beryllium	ug/L	2.5	0.66	2.0 U
Beryllium (dissolved)	ug/L	2.5	0.66	-
Cadmium	ug/L	0.18	0.25	5.0 U
Cadmium (dissolved)	ug/L	0.18	0.25	-
Calcium	ug/L			49900
Calcium (dissolved)	ug/L			-
Chromium	ug/L	10	85	10.0 U
Chromium (dissolved)	ug/L	10	85	-
Chromium VI (hexavalent)	ug/L	0.035	11	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-
Cobalt	ug/L	0.6	23	17.8 J ^a
Cobalt (dissolved)	ug/L	0.6	23	-
Copper	ug/L	80	9	25.0 U
Copper (dissolved)	ug/L	80	9	-
Iron	ug/L	1400	300	67100 ^{ab}
Iron (dissolved)	ug/L	1400	300	-
Lead	ug/L	15	2.5	3.4 J ^b
Lead (dissolved)	ug/L	15	2.5	-
Magnesium	ug/L			32900
Magnesium (dissolved)	ug/L			-
Manganese	ug/L	43	120	1710 ^{ab}
Manganese (dissolved)	ug/L	43	120	-
Mercury	ug/L	0.063	0.026	0.20 U
Mercury (dissolved)	ug/L	0.063	0.026	-
Nickel	ug/L	39	52	40.0 U
Nickel (dissolved)	ug/L	39	52	-
Potassium	ug/L			3620 J
Potassium (dissolved)	ug/L			-
Selenium	ug/L	10	1	10.0 U
Selenium (dissolved)	ug/L	10	1	-
Silver	ug/L	9.4	3.2	10.0 U
Silver (dissolved)	ug/L	9.4	3.2	-
Sodium	ug/L			102000
Sodium (dissolved)	ug/L			-
Thallium	ug/L	0.02	0.8	10.0 U
Thallium (dissolved)	ug/L	0.02	0.8	-
Vanadium	ug/L	8.6	20	50.0 U
Vanadium (dissolved)	ug/L	8.6	20	-
Zinc	ug/L	600	120	30.0 U
Zinc (dissolved)	ug/L	600	120	-

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW-017338-050809-ACH-003 05/08/2009
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

		Operable Unit: Sample Location: Sample ID: Sample Date:		OU-2 MW-8 GW-017338-050809-ACH-004 05/08/2009 (Duplicate)	OU-2 MW-8 GW-017338-081809-ACH-05 08/18/2009	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)
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Volatile Organic Compounds							
1,1,1-Trichloroethane	ug/L	200	11	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
1,1,2-Trichloroethane	ug/L	0.041	1200	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	2.8	47	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	7	25	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	0.4	24	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	-	1.0 U	1.0 U	1.0 UJ	1.0 UJ
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	-	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	30	0.7	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	0.17	100	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
1,3,5-Trimethylbenzene	ug/L	6	71	-	-	-	-
1,3-Dichlorobenzene	ug/L	-	-	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	0.48	26	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	10 U	R	10 UJ	10 UJ
2-Hexanone	ug/L	3.8	99	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	170	10 U	10 U	10 U	10 U
Acetone	ug/L	1800	1500	10 UJ	R	R	R
Benzene	ug/L	0.46	370	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
Bromoform	ug/L	3.3	320	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	0.75	-	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	ug/L	81	0.92	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	ug/L	0.46	13.3	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	7.8	1.3	1.7 ^b	2.0 ^b	2.8 ^b	2.8 ^b
Chloroethane	ug/L	830	-	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Chloroform (Trichloromethane)	ug/L	0.22	1.8	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	19	-	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	2.5	-	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	1.0 U
Cyclohexane	ug/L	1300	-	2.9	2.1	5.3	5.1
Dibromochloromethane	ug/L	0.87	-	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	20	-	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	ug/L	1.5	90	1.0 U	0.43 J	0.80 J	0.79 J
Isopropyl benzene	ug/L	45	2.6	3.2 ^b	7.1 ^b	24 ^b	24 ^b
Methyl acetate	ug/L	2000	-	2.0 U	2.0 U	2.0 U	2.0 U
Methyl cyclohexane	ug/L	-	-	18	7.2	18	18
Methyl tert butyl ether (MTBE)	ug/L	10	11070	5.3	7.1	8.9	9.1
Methylene chloride	ug/L	5	98.1	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	ug/L	100	72	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
Toluene	ug/L	110	2	1.0 U	0.30 J	0.25 J	0.28 J
trans-1,2-Dichloroethene	ug/L	6.8	970	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	-	-	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	0.28	21	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	520	-	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	1000	-	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	0.019	930	1.0 U	1.0 U	1.0 U	1.0 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW-017338-050809-ACH-004 05/08/2009 (Duplicate)	OU-2 MW-8 GW-017338-081809-ACH-05 08/18/2009	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)
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Xylenes (total)	ug/L	19	13	3.0 U	18 ^b	17 ^b	17 ^b

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW-017338-050809-ACH-004 05/08/2009 (Duplicate)	OU-2 MW-8 GW-017338-081809-ACH-05 08/18/2009	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)
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Semi-Volatile Organic Compounds							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71		10 U	11 U	10 U	10 U
2,4,5-Trichlorophenol	ug/L	120		10 U	11 U	10 U	10 U
2,4,6-Trichlorophenol	ug/L	1.2	4.9	10 U	11 U	10 U	10 U
2,4-Dichlorophenol	ug/L	4.6	11	10 U	11 U	10 U	10 U
2,4-Dimethylphenol	ug/L	36		10 U	11 U	10 U	10 U
2,4-Dinitrophenol	ug/L	3.9		30 U	32 UJ	31 UJ	31 UJ
2,4-Dinitrotoluene	ug/L	0.24	44	2.0 U	2.1 U	2.1 U	2.0 U
2,6-Dinitrotoluene	ug/L	0.049	81	2.0 U	2.1 U	2.1 U	2.0 U
2-Chloronaphthalene	ug/L	75		10 U	11 U	10 U	10 U
2-Chlorophenol	ug/L	9.1	24	10 U	11 U	10 U	10 U
2-Methylnaphthalene	ug/L	3.6	4.7	10 U	11 U	10 U	10 U
2-Methylphenol	ug/L	93	13	10 U	11 U	10 U	10 U
2-Nitroaniline	ug/L	19		20 U	21 U	21 U	20 U
2-Nitrophenol	ug/L			10 U	11 U	10 U	10 U
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	20 U	21 U	21 U	20 U
3-Nitroaniline	ug/L			20 U	21 U	21 U	20 U
4,6-Dinitro-2-methylphenol	ug/L	0.15		30 U	32 U	31 U	31 U
4-Bromophenyl phenyl ether	ug/L			10 U	11 U	10 U	10 U
4-Chloro-3-methylphenol	ug/L	140		10 U	11 U	10 U	10 U
4-Chloroaniline	ug/L	0.37	232	10 U	11 U	10 U	10 U
4-Chlorophenyl phenyl ether	ug/L			10 U	11 U	10 U	10 U
4-Methylphenol	ug/L	37	543	10 U	11 U	10 U	10 U
4-Nitroaniline	ug/L	3.8		20 U	21 U	21 U	20 U
4-Nitrophenol	ug/L			30 U	32 U	31 U	31 U
Acenaphthene	ug/L	53	5.8	10 U	11 U	10 U	10 U
Acenaphthylene	ug/L			10 U	11 U	10 U	10 U
Acetophenone	ug/L	190		10 U	11 U	10 U	10 U
Anthracene	ug/L	180	0.012	10 U	11 U	10 U	10 U
Atrazine	ug/L	0.3	1.8	10 U	11 U	10 U	10 U
Benzaldehyde	ug/L	19		10 U	11 U	10 UJ	10 UJ
Benzo(a)anthracene	ug/L	0.03	0.018	1.0 U	1.1 U	1.0 U	1.0 U
Benzo(a)pyrene	ug/L	0.025	0.015	1.0 U	1.1 U	1.0 U	1.0 U
Benzo(b)fluoranthene	ug/L	0.25		1.0 U	1.1 U	1.0 U	1.0 U
Benzo(g,h,i)perylene	ug/L			10 U	11 U	10 U	10 U
Benzo(k)fluoranthene	ug/L	2.5		1.0 U	1.1 U	1.0 U	1.0 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	10 U	11 U	10 U	10 U
bis(2-Chloroethoxy)methane	ug/L	5.9		10 U	11 U	10 U	10 U
bis(2-Chloroethyl)ether	ug/L	0.014		1.0 U	1.1 U	1.0 U	1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	10 UJ	11 U	10 U	10 U
Butyl benzylphthalate (BBP)	ug/L	16	19	10 U	11 U	10 U	10 U
Caprolactam	ug/L	990		10 U	11 U	10 U	10 U
Carbazole	ug/L			10 U	11 U	10 U	10 U
Chrysene	ug/L	25		10 U	11 U	10 U	10 U
Dibenz(a,h)anthracene	ug/L	0.025		1.0 U	1.1 U	1.0 U	1.0 U
Dibenzofuran	ug/L	0.79	3.7	10 U	11 U	10 U	10 U
Diethyl phthalate	ug/L	1500	210	10 U	11 U	10 U	10 U
Dimethyl phthalate	ug/L			10 U	11 U	10 U	10 U
Di-n-butylphthalate (DBP)	ug/L	90	19	10 U	11 U	10 U	10 U
Di-n-octyl phthalate (DnOP)	ug/L	20	22	10 U	11 U	10 U	10 U
Fluoranthene	ug/L	80	0.04	10 U	11 U	10 U	10 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW-017338-050809-ACH-004 05/08/2009 (Duplicate)	OU-2 MW-8 GW-017338-081809-ACH-05 08/18/2009	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)
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Fluorene	ug/L	29	3	10 U	11 U	10 U	10 U
Hexachlorobenzene	ug/L	0.0098	0.0003	1.0 U	1.1 U	1.0 U	1.0 U
Hexachlorobutadiene	ug/L	0.14	1.3	2.0 U	2.1 U	2.1 U	2.0 U
Hexachlorocyclopentadiene	ug/L	0.041		10 U	11 U	10 U	10 U
Hexachloroethane	ug/L	0.33	12	1.0 U	1.1 U	1.0 U	1.0 U
Indeno(1,2,3-cd)pyrene	ug/L	0.25		1.0 U	1.1 U	1.0 U	1.0 U
Isophorone	ug/L	78		10 U	11 U	10 U	10 U
Naphthalene	ug/L	0.12	1.1	18 ^{ab}	83 ^{ab}	220 ^{ab}	220 ^{ab}
Nitrobenzene	ug/L	0.14		1.0 U	1.1 U	1.0 U	1.0 U
N-Nitrosodi-n-propylamine	ug/L	0.011		1.0 U	1.1 U	1.0 U	1.0 U
N-Nitrosodiphenylamine	ug/L	12	210	10 U	11 U	10 U	10 U
Pentachlorophenol	ug/L	0.041	0.5	30 U	32 U	31 U	31 U
Phenanthrene	ug/L	12	0.4	10 U	11 U	10 U	10 U
Phenol	ug/L	580	4	10 U	11 U	10 UJ	10 UJ
Pyrene	ug/L	12	0.025	10 U	11 U	10 U	10 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

		Operable Unit: Sample Location: Sample ID: Sample Date:		OU-2 MW-8 GW-017338-050809-ACH-004 05/08/2009 (Duplicate)	OU-2 MW-8 GW-017338-081809-ACH-05 08/18/2009	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)
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Metals							
		a	b				
Aluminum	ug/L	2000	87	1050 ^b	6530 ^{ab}	2530 J ^{ab}	2410 J ^{ab}
Aluminum (dissolved)	ug/L	2000	87	-	-	-	-
Antimony	ug/L	0.78	30	10.0 U	10.0 U	10.0 U	10.0 U
Antimony (dissolved)	ug/L	0.78	30	-	-	-	-
Arsenic	ug/L	0.052	5	5.0 U	5.0 U	3.9 J ^a	4.4 J ^a
Arsenic (dissolved)	ug/L	0.052	5	-	-	-	-
Barium	ug/L	380	4	465 ^{ab}	614 ^{ab}	613 ^{ab}	618 ^{ab}
Barium (dissolved)	ug/L	380	4	-	-	-	-
Beryllium	ug/L	2.5	0.66	2.0 U	2.0 U	2.0 U	2.0 U
Beryllium (dissolved)	ug/L	2.5	0.66	-	-	-	-
Cadmium	ug/L	0.18	0.25	5.0 U	5.0 U	5.0 U	5.0 U
Cadmium (dissolved)	ug/L	0.18	0.25	-	-	-	-
Calcium	ug/L			46600	61300	60100	60100
Calcium (dissolved)	ug/L			-	-	-	-
Chromium	ug/L	10	85	10.0 U	5.8 J	10.0 U	10.0 U
Chromium (dissolved)	ug/L	10	85	-	-	-	-
Chromium VI (hexavalent)	ug/L	0.035	11	-	-	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-	-	-	-
Cobalt	ug/L	0.6	23	16.1 J ^a	21.5 J ^a	21.8 J ^a	21.4 J ^a
Cobalt (dissolved)	ug/L	0.6	23	-	-	-	-
Copper	ug/L	80	9	25.0 U	31.3 ^b	25.0 U	25.0 U
Copper (dissolved)	ug/L	80	9	-	-	-	-
Iron	ug/L	1400	300	63800 ^{ab}	87500 ^{ab}	85100 ^{ab}	85100 ^{ab}
Iron (dissolved)	ug/L	1400	300	-	-	-	-
Lead	ug/L	15	2.5	3.4 J ^b	5.0 U	5.0 U	5.0 U
Lead (dissolved)	ug/L	15	2.5	-	-	-	-
Magnesium	ug/L			31300	42000	40800	40800
Magnesium (dissolved)	ug/L			-	-	-	-
Manganese	ug/L	43	120	1620 ^{ab}	2070 ^{ab}	1980 ^{ab}	1980 ^{ab}
Manganese (dissolved)	ug/L	43	120	-	-	-	-
Mercury	ug/L	0.063	0.026	0.20 U	0.33 ^{ab}	0.20 U	0.20 U
Mercury (dissolved)	ug/L	0.063	0.026	-	-	-	-
Nickel	ug/L	39	52	40.0 U	5.5 J	40.0 U	40.0 U
Nickel (dissolved)	ug/L	39	52	-	-	-	-
Potassium	ug/L			3390 J	3760 J	4020 J	4110 J
Potassium (dissolved)	ug/L			-	-	-	-
Selenium	ug/L	10	1	10.0 U	10.0 U	10.0 U	10.0 U
Selenium (dissolved)	ug/L	10	1	-	-	-	-
Silver	ug/L	9.4	3.2	10.0 U	10.0 U	10.0 U	10.0 U
Silver (dissolved)	ug/L	9.4	3.2	-	-	-	-
Sodium	ug/L			98500	101000	109000	109000
Sodium (dissolved)	ug/L			-	-	-	-
Thallium	ug/L	0.02	0.8	10.0 U	10.0 U	10.0 U	10.0 U
Thallium (dissolved)	ug/L	0.02	0.8	-	-	-	-
Vanadium	ug/L	8.6	20	50.0 U	8.5 J	3.0 J	3.1 J
Vanadium (dissolved)	ug/L	8.6	20	-	-	-	-
Zinc	ug/L	600	120	30.0 U	8.9 J	30.0 U	30.0 U
Zinc (dissolved)	ug/L	600	120	-	-	-	-

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW-017338-050809-ACH-004 05/08/2009 (Duplicate)	OU-2 MW-8 GW-017338-081809-ACH-05 08/18/2009	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)
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW-017338-030110-ACH-003 03/01/2010	OU-2 MW-8 GW-017338-051810-ACH-02 05/18/2010	OU-2 MW-8 WG-17338-110617-SG-044 11/06/2017	OU-2 MW-8 WG-17338-062618-AM-003 06/26/2018
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Volatile Organic Compounds							
1,1,1-Trichloroethane	ug/L	200	11	1.0 U	0.25 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	0.076	610	1.0 U	0.090 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	0.041	1200	1.0 U	0.10 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	2.8	47	1.0 U	0.10 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	7	25	1.0 U	0.14 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	0.4	24	1.0 U	0.44 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	ug/L	5.6	-	-	-	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.00033	-	1.0 U	0.15 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	-	1.0 U	0.090 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	30	0.7	1.0 U	0.27 J	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	0.17	100	1.0 U	0.24 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	0.82	-	1.0 U	0.090 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene	ug/L	6	71	-	-	-	-
1,3-Dichlorobenzene	ug/L	-	-	1.0 U	0.22 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	0.48	26	1.0 U	0.28 J	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	10 U	0.82 U	5.0 U	5.0 U
2-Hexanone	ug/L	3.8	99	10 U	0.55 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	170	R	0.68 U	5.0 U	5.0 U
Acetone	ug/L	1800	1500	R	2.5 U	5.0 U	5.0 U
Benzene	ug/L	0.46	370	2.2 ^a	4.5 ^a	1.0 U	1.0 U
Bromodichloromethane	ug/L	0.13	-	1.0 U	0.093 U	1.0 U	1.0 U
Bromoform	ug/L	3.3	320	1.0 U	0.10 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	0.75	-	1.0 U	0.31 U	1.0 U	1.0 U
Carbon disulfide	ug/L	81	0.92	1.0 U	0.15 U	1.0 U	1.0 U
Carbon tetrachloride	ug/L	0.46	13.3	1.0 U	0.19 U	1.0 U	1.0 U
Chlorobenzene	ug/L	7.8	1.3	1.7 ^b	2.9 ^b	1.0 U	1.0 U
Chloroethane	ug/L	830	-	1.0 U	0.45 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	0.22	1.8	1.0 U	0.15 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	19	-	1.0 U	0.21 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	2.5	-	1.0 U	0.20 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	-	-	1.0 U	0.11 U	1.0 U	1.0 U
Cyclohexane	ug/L	1300	-	2.3	2.8	1.0 U	1.0 U
Dibromochloromethane	ug/L	0.87	-	1.0 U	0.11 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	20	-	1.0 U	0.29 U	1.0 U	1.0 U
Ethylbenzene	ug/L	1.5	90	0.31 J	0.33 J	1.0 U	1.0 U
Isopropyl benzene	ug/L	45	2.6	3.3 ^b	6.0 ^b	1.0 U	1.0 U
Methyl acetate	ug/L	2000	-	2.0 U	0.33 U	5.0 U	5.0 U
Methyl cyclohexane	ug/L	-	-	10	11	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	10	11070	3.1	4.6	0.33 J	1.0 U
Methylene chloride	ug/L	5	98.1	1.0 U	0.19 U	1.0 U	1.0 U
Styrene	ug/L	100	72	1.0 U	0.13 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1	111	1.0 U	0.20 U	1.0 U	1.0 U
Toluene	ug/L	110	2	0.58 J	0.090 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	6.8	970	1.0 U	0.14 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	-	-	1.0 U	0.12 U	1.0 U	1.0 U
Trichloroethene	ug/L	0.28	21	1.0 U	0.18 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	520	-	1.0 U	0.16 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	1000	-	1.0 U	0.28 U	1.0 U	1.0 U
Vinyl chloride	ug/L	0.019	930	1.0 U	0.13 U	1.0 U	1.0 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW-017338-030110-ACH-003 03/01/2010	OU-2 MW-8 GW-017338-051810-ACH-02 05/18/2010	OU-2 MW-8 WG-17338-110617-SG-044 11/06/2017	OU-2 MW-8 WG-17338-062618-AM-003 06/26/2018
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Xylenes (total)	ug/L	19	13	0.82 J	1.2 J	2.0 U	2.0 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW-017338-030110-ACH-003 03/01/2010	OU-2 MW-8 GW-017338-051810-ACH-02 05/18/2010	OU-2 MW-8 WG-17338-110617-SG-044 11/06/2017	OU-2 MW-8 WG-17338-062618-AM-003 06/26/2018
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Semi-Volatile Organic Compounds							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71		3.3 U	3.2 U	10 U	10 U
2,4,5-Trichlorophenol	ug/L	120		2.6 U	-	10 U	10 U
2,4,6-Trichlorophenol	ug/L	1.2	4.9	3.2 U	-	10 U	10 U
2,4-Dichlorophenol	ug/L	4.6	11	2.8 U	-	10 U	10 U
2,4-Dimethylphenol	ug/L	36		2.6 U	-	10 U	10 U
2,4-Dinitrophenol	ug/L	3.9		4.9 U	-	20 U	20 U
2,4-Dinitrotoluene	ug/L	0.24	44	0.44 U	0.43 U	2.0 U	2.0 U
2,6-Dinitrotoluene	ug/L	0.049	81	0.60 U	0.60 U	2.0 U	2.0 U
2-Chloronaphthalene	ug/L	75		3.8 U	3.8 U	10 U	10 U
2-Chlorophenol	ug/L	9.1	24	2.7 U	-	10 U	10 U
2-Methylnaphthalene	ug/L	3.6	4.7	3.2 U	3.1 U	10 U	10 U
2-Methylphenol	ug/L	93	13	1.7 U	-	10 U	10 U
2-Nitroaniline	ug/L	19		5.8 U	5.8 U	10 U	10 U
2-Nitrophenol	ug/L			3.5 U	-	10 U	10 U
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	7.1 U	7.0 U	10 U	10 U
3-Nitroaniline	ug/L			4.4 U	4.4 U	10 U	10 U
4,6-Dinitro-2-methylphenol	ug/L	0.15		5.3 U	-	20 U	20 U
4-Bromophenyl phenyl ether	ug/L			4.0 U	4.0 U	10 U	10 U
4-Chloro-3-methylphenol	ug/L	140		2.0 U	-	10 U	10 U
4-Chloroaniline	ug/L	0.37	232	2.1 U	2.1 U	10 U	10 U
4-Chlorophenyl phenyl ether	ug/L			4.0 U	4.0 U	10 U	10 U
4-Methylphenol	ug/L	37	543	1.6 U	-	10 U	10 U
4-Nitroaniline	ug/L	3.8		4.1 U	4.0 U	10 U	10 U
4-Nitrophenol	ug/L			2.4 U	-	20 U	20 U
Acenaphthene	ug/L	53	5.8	3.8 U	3.8 U	10 U	10 U
Acenaphthylene	ug/L			4.1 U	4.1 U	10 U	10 U
Acetophenone	ug/L	190		4.4 U	4.3 U	10 U	10 U
Anthracene	ug/L	180	0.012	3.6 U	3.6 U	10 U	10 U
Atrazine	ug/L	0.3	1.8	4.9 U	4.8 U	2.0 U	2.0 U
Benzaldehyde	ug/L	19		1.4 U	1.4 U	10 U	10 U
Benzo(a)anthracene	ug/L	0.03	0.018	0.020 U	0.020 U	1.0 U	1.0 U
Benzo(a)pyrene	ug/L	0.025	0.015	0.031 U	0.030 U	1.0 U	1.0 U
Benzo(b)fluoranthene	ug/L	0.25		0.041 U	0.040 U	1.0 U	2.0 U
Benzo(g,h,i)perylene	ug/L			2.8 U	2.7 U	10 U	10 U
Benzo(k)fluoranthene	ug/L	2.5		0.31 U	0.30 U	1.0 U	1.0 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	5.5 U	5.5 U	10 U	10 U
bis(2-Chloroethoxy)methane	ug/L	5.9		3.5 U	3.5 U	10 U	10 U
bis(2-Chloroethyl)ether	ug/L	0.014		0.42 U	0.41 U	1.0 U	1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	2.4 U	2.4 U	2.0 U	2.0 U
Butyl benzylphthalate (BBP)	ug/L	16	19	2.8 U	2.8 U	10 U	10 U
Caprolactam	ug/L	990		0.51 U	R	10 U	10 U
Carbazole	ug/L			3.1 U	3.1 U	10 U	10 U
Chrysene	ug/L	25		3.8 U	3.8 U	2.0 U	2.0 U
Dibenz(a,h)anthracene	ug/L	0.025		0.16 U	0.16 U	1.0 U	1.0 U
Dibenzofuran	ug/L	0.79	3.7	3.7 U	3.6 U	10 U	10 U
Diethyl phthalate	ug/L	1500	210	3.9 U	3.9 U	10 U	10 U
Dimethyl phthalate	ug/L			3.3 U	3.3 U	10 U	10 U
Di-n-butylphthalate (DBP)	ug/L	90	19	2.8 U	2.8 U	10 U	10 U
Di-n-octyl phthalate (DnOP)	ug/L	20	22	1.9 U	1.9 U	10 U	10 U
Fluoranthene	ug/L	80	0.04	2.7 U	2.7 U	10 U	10 U

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW-017338-030110-ACH-003 03/01/2010	OU-2 MW-8 GW-017338-051810-ACH-02 05/18/2010	OU-2 MW-8 WG-17338-110617-SG-044 11/06/2017	OU-2 MW-8 WG-17338-062618-AM-003 06/26/2018
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Fluorene	ug/L	29	3	3.3 U	3.3 U	10 U	10 U
Hexachlorobenzene	ug/L	0.0098	0.0003	0.010 U	0.010 U	1.0 U	1.0 U
Hexachlorobutadiene	ug/L	0.14	1.3	0.96 U	0.95 UJ	1.0 U	1.0 U
Hexachlorocyclopentadiene	ug/L	0.041		4.7 U	4.6 U	10 U	10 U
Hexachloroethane	ug/L	0.33	12	0.51 U	0.51 U	1.0 U	2.0 U
Indeno(1,2,3-cd)pyrene	ug/L	0.25		0.12 U	0.12 U	1.0 U	2.0 U
Isophorone	ug/L	78		3.7 U	3.6 U	10 U	10 U
Naphthalene	ug/L	0.12	1.1	100 J ^{ab}	110 ^{ab}	10 UJ	10 U
Nitrobenzene	ug/L	0.14		0.42 U	0.41 U	1.0 UJ	1.0 U
N-Nitrosodi-n-propylamine	ug/L	0.011		0.33 U	0.32 U	1.0 U	1.0 U
N-Nitrosodiphenylamine	ug/L	12	210	3.9 U	3.9 U	10 U	10 U
Pentachlorophenol	ug/L	0.041	0.5	0.14 U	-	20 U	20 U
Phenanthrene	ug/L	12	0.4	3.6 U	3.6 U	10 U	10 U
Phenol	ug/L	580	4	0.91 U	-	10 U	10 U
Pyrene	ug/L	12	0.025	4.4 U	4.3 U	10 U	10 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW-017338-030110-ACH-003 03/01/2010	OU-2 MW-8 GW-017338-051810-ACH-02 05/18/2010	OU-2 MW-8 WG-17338-110617-SG-044 11/06/2017	OU-2 MW-8 WG-17338-062618-AM-003 06/26/2018
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Metals							
		a	b				
Aluminum	ug/L	2000	87	1050 ^b	5190 J ^{ab}	214 ^b	845 ^b
Aluminum (dissolved)	ug/L	2000	87	-	-	-	-
Antimony	ug/L	0.78	30	10.0 U	4.6 U	2.0 U	2.0 U
Antimony (dissolved)	ug/L	0.78	30	-	-	-	-
Arsenic	ug/L	0.052	5	5.0 U	3.8 U	6.1 ^{ab}	7.9 ^{ab}
Arsenic (dissolved)	ug/L	0.052	5	-	-	-	-
Barium	ug/L	380	4	427 ^{ab}	474 ^{ab}	184 ^b	170 ^b
Barium (dissolved)	ug/L	380	4	-	-	-	-
Beryllium	ug/L	2.5	0.66	2.0 U	0.94 U	0.80 U	0.80 U
Beryllium (dissolved)	ug/L	2.5	0.66	-	-	-	-
Cadmium	ug/L	0.18	0.25	5.0 U	0.92 U	2.0 U	2.0 U
Cadmium (dissolved)	ug/L	0.18	0.25	-	-	-	-
Calcium	ug/L			49400	58900	18400	18700
Calcium (dissolved)	ug/L			-	-	-	-
Chromium	ug/L	10	85	10.0 U	3.2 J	4.0 U	1.3 J
Chromium (dissolved)	ug/L	10	85	-	-	-	-
Chromium VI (hexavalent)	ug/L	0.035	11	-	-	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-	-	-	-
Cobalt	ug/L	0.6	23	18.1 J ^a	20.3 J ^a	5.4 ^a	10.9 ^a
Cobalt (dissolved)	ug/L	0.6	23	-	-	-	-
Copper	ug/L	80	9	25.0 U	3.6 U	4.0 U	4.0 U
Copper (dissolved)	ug/L	80	9	-	-	-	-
Iron	ug/L	1400	300	62000 ^{ab}	74500 ^{ab}	27000 ^{ab}	34700 ^{ab}
Iron (dissolved)	ug/L	1400	300	-	-	-	-
Lead	ug/L	15	2.5	5.0 U	7.0 ^b	1.2 U	0.74 J
Lead (dissolved)	ug/L	15	2.5	-	-	-	-
Magnesium	ug/L			30600	36200	14700	18500
Magnesium (dissolved)	ug/L			-	-	-	-
Manganese	ug/L	43	120	1690 ^{ab}	1990 ^{ab}	524 ^{ab}	598 ^{ab}
Manganese (dissolved)	ug/L	43	120	-	-	-	-
Mercury	ug/L	0.063	0.026	0.20 U	0.18 U	0.20 U	0.20 U
Mercury (dissolved)	ug/L	0.063	0.026	-	-	-	-
Nickel	ug/L	39	52	40.0 U	5.0 J	4.0 U	1.6 J
Nickel (dissolved)	ug/L	39	52	-	-	-	-
Potassium	ug/L			3230 J	3600 J	2600	2180
Potassium (dissolved)	ug/L			-	-	-	-
Selenium	ug/L	10	1	10.0 U	4.8 U	10.0 U	10.0 U
Selenium (dissolved)	ug/L	10	1	-	-	-	-
Silver	ug/L	9.4	3.2	1.6 J	0.97 U	2.0 U	2.0 U
Silver (dissolved)	ug/L	9.4	3.2	-	-	-	-
Sodium	ug/L			86700	93900	46800	49300
Sodium (dissolved)	ug/L			-	-	-	-
Thallium	ug/L	0.02	0.8	10.0 U	4.6 U	0.80 U	0.80 U
Thallium (dissolved)	ug/L	0.02	0.8	-	-	-	-
Vanadium	ug/L	8.6	20	50.0 U	5.8 J	4.0 U	1.2 J
Vanadium (dissolved)	ug/L	8.6	20	-	-	-	-
Zinc	ug/L	600	120	30.0 U	10.5 J	16.0 U	16.0 U
Zinc (dissolved)	ug/L	600	120	-	-	-	-

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8 GW-017338-030110-ACH-003 03/01/2010	OU-2 MW-8 GW-017338-051810-ACH-02 05/18/2010	OU-2 MW-8 WG-17338-110617-SG-044 11/06/2017	OU-2 MW-8 WG-17338-062618-AM-003 06/26/2018
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8R GW-11222397-011123-ZB-07 01/11/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	
Volatile Organic Compounds				
1,1,1-Trichloroethane	ug/L	200	11	0.24 U
1,1,2,2-Tetrachloroethane	ug/L	0.076	610	0.37 U
1,1,2-Trichloroethane	ug/L	0.041	1200	0.20 U
1,1-Dichloroethane	ug/L	2.8	47	0.26 U
1,1-Dichloroethene	ug/L	7	25	0.26 U
1,2,4-Trichlorobenzene	ug/L	0.4	24	0.37 U
1,2,4-Trimethylbenzene	ug/L	5.6		0.37 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.00033		0.38 UJ
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075		0.50 U
1,2-Dichlorobenzene	ug/L	30	0.7	0.21 U
1,2-Dichloroethane	ug/L	0.17	100	0.43 U
1,2-Dichloropropane	ug/L	0.82		0.35 U
1,3,5-Trimethylbenzene	ug/L	6	71	-
1,3-Dichlorobenzene	ug/L			0.34 U
1,4-Dichlorobenzene	ug/L	0.48	26	0.33 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	1.9 U
2-Hexanone	ug/L	3.8	99	1.1 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	170	1.3 U
Acetone	ug/L	1800	1500	4.4 U
Benzene	ug/L	0.46	370	0.20 U
Bromodichloromethane	ug/L	0.13		0.34 U
Bromoform	ug/L	3.3	320	0.54 U
Bromomethane (Methyl bromide)	ug/L	0.75		0.55 U
Carbon disulfide	ug/L	81	0.92	0.82 U
Carbon tetrachloride	ug/L	0.46	13.3	0.21 U
Chlorobenzene	ug/L	7.8	1.3	0.38 U
Chloroethane	ug/L	830		0.32 U
Chloroform (Trichloromethane)	ug/L	0.22	1.8	0.33 U
Chloromethane (Methyl chloride)	ug/L	19		0.40 U
cis-1,2-Dichloroethene	ug/L	2.5		0.22 U
cis-1,3-Dichloropropene	ug/L			0.22 U
Cyclohexane	ug/L	1300		0.32 U
Dibromochloromethane	ug/L	0.87		0.28 U
Dichlorodifluoromethane (CFC-12)	ug/L	20		0.31 U
Ethylbenzene	ug/L	1.5	90	0.30 U
Isopropyl benzene	ug/L	45	2.6	0.34 U
Methyl acetate	ug/L	2000		0.79 U
Methyl cyclohexane	ug/L			0.71 U
Methyl tert butyl ether (MTBE)	ug/L	10	11070	0.22 U
Methylene chloride	ug/L	5	98.1	0.32 U
Styrene	ug/L	100	72	0.42 U
Tetrachloroethene	ug/L	1	111	0.42 J
Toluene	ug/L	110	2	0.38 U
trans-1,2-Dichloroethene	ug/L	6.8	970	0.24 U
trans-1,3-Dichloropropene	ug/L			0.22 U
Trichloroethene	ug/L	0.28	21	0.31 U
Trichlorofluoromethane (CFC-11)	ug/L	520		2.1
Trifluorotrchloroethane (CFC-113)	ug/L	1000		0.31 U
Vinyl chloride	ug/L	0.019	930	0.17 U

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Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: GW-11222397-011123-ZB-07 Sample Date:				OU-2 MW-8R
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	
Xylenes (total)	ug/L	19	13	0.65 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: GW-11222397-011123-ZB-07 Sample Date: 01/11/2023				OU-2 MW-8R
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	
Semi-Volatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71		-
2,4,5-Trichlorophenol	ug/L	120		-
2,4,6-Trichlorophenol	ug/L	1.2	4.9	-
2,4-Dichlorophenol	ug/L	4.6	11	-
2,4-Dimethylphenol	ug/L	36		-
2,4-Dinitrophenol	ug/L	3.9		-
2,4-Dinitrotoluene	ug/L	0.24	44	-
2,6-Dinitrotoluene	ug/L	0.049	81	-
2-Chloronaphthalene	ug/L	75		-
2-Chlorophenol	ug/L	9.1	24	-
2-Methylnaphthalene	ug/L	3.6	4.7	-
2-Methylphenol	ug/L	93	13	-
2-Nitroaniline	ug/L	19		-
2-Nitrophenol	ug/L			-
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	-
3-Nitroaniline	ug/L			-
4,6-Dinitro-2-methylphenol	ug/L	0.15		-
4-Bromophenyl phenyl ether	ug/L			-
4-Chloro-3-methylphenol	ug/L	140		-
4-Chloroaniline	ug/L	0.37	232	-
4-Chlorophenyl phenyl ether	ug/L			-
4-Methylphenol	ug/L	37	543	-
4-Nitroaniline	ug/L	3.8		-
4-Nitrophenol	ug/L			-
Acenaphthene	ug/L	53	5.8	-
Acenaphthylene	ug/L			-
Acetophenone	ug/L	190		-
Anthracene	ug/L	180	0.012	-
Atrazine	ug/L	0.3	1.8	-
Benzaldehyde	ug/L	19		-
Benzo(a)anthracene	ug/L	0.03	0.018	-
Benzo(a)pyrene	ug/L	0.025	0.015	-
Benzo(b)fluoranthene	ug/L	0.25		-
Benzo(g,h,i)perylene	ug/L			-
Benzo(k)fluoranthene	ug/L	2.5		-
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	-
bis(2-Chloroethoxy)methane	ug/L	5.9		-
bis(2-Chloroethyl)ether	ug/L	0.014		-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	-
Butyl benzylphthalate (BBP)	ug/L	16	19	-
Caprolactam	ug/L	990		-
Carbazole	ug/L			-
Chrysene	ug/L	25		-
Dibenz(a,h)anthracene	ug/L	0.025		-
Dibenzofuran	ug/L	0.79	3.7	-
Diethyl phthalate	ug/L	1500	210	-
Dimethyl phthalate	ug/L			-
Di-n-butylphthalate (DBP)	ug/L	90	19	-
Di-n-octyl phthalate (DnOP)	ug/L	20	22	-
Fluoranthene	ug/L	80	0.04	-

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Long-Term Stewardship Plan
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Operable Unit: Sample Location: Sample ID: GW-11222397-011123-ZB-07 Sample Date:				OU-2 MW-8R 01/11/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	
Fluorene	ug/L	29	3	-
Hexachlorobenzene	ug/L	0.0098	0.0003	-
Hexachlorobutadiene	ug/L	0.14	1.3	-
Hexachlorocyclopentadiene	ug/L	0.041		-
Hexachloroethane	ug/L	0.33	12	-
Indeno(1,2,3-cd)pyrene	ug/L	0.25		-
Isophorone	ug/L	78		-
Naphthalene	ug/L	0.12	1.1	-
Nitrobenzene	ug/L	0.14		-
N-Nitrosodi-n-propylamine	ug/L	0.011		-
N-Nitrosodiphenylamine	ug/L	12	210	-
Pentachlorophenol	ug/L	0.041	0.5	-
Phenanthrene	ug/L	12	0.4	-
Phenol	ug/L	580	4	-
Pyrene	ug/L	12	0.025	-

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8R GW-11222397-011123-ZB-07 01/11/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	
Metals		a	b	
Aluminum	ug/L	2000	87	-
Aluminum (dissolved)	ug/L	2000	87	-
Antimony	ug/L	0.78	30	-
Antimony (dissolved)	ug/L	0.78	30	-
Arsenic	ug/L	0.052	5	-
Arsenic (dissolved)	ug/L	0.052	5	-
Barium	ug/L	380	4	-
Barium (dissolved)	ug/L	380	4	-
Beryllium	ug/L	2.5	0.66	-
Beryllium (dissolved)	ug/L	2.5	0.66	-
Cadmium	ug/L	0.18	0.25	-
Cadmium (dissolved)	ug/L	0.18	0.25	-
Calcium	ug/L			-
Calcium (dissolved)	ug/L			-
Chromium	ug/L	10	85	-
Chromium (dissolved)	ug/L	10	85	-
Chromium VI (hexavalent)	ug/L	0.035	11	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-
Cobalt	ug/L	0.6	23	-
Cobalt (dissolved)	ug/L	0.6	23	-
Copper	ug/L	80	9	-
Copper (dissolved)	ug/L	80	9	-
Iron	ug/L	1400	300	-
Iron (dissolved)	ug/L	1400	300	-
Lead	ug/L	15	2.5	-
Lead (dissolved)	ug/L	15	2.5	-
Magnesium	ug/L			-
Magnesium (dissolved)	ug/L			-
Manganese	ug/L	43	120	-
Manganese (dissolved)	ug/L	43	120	-
Mercury	ug/L	0.063	0.026	-
Mercury (dissolved)	ug/L	0.063	0.026	-
Nickel	ug/L	39	52	-
Nickel (dissolved)	ug/L	39	52	-
Potassium	ug/L			-
Potassium (dissolved)	ug/L			-
Selenium	ug/L	10	1	-
Selenium (dissolved)	ug/L	10	1	-
Silver	ug/L	9.4	3.2	-
Silver (dissolved)	ug/L	9.4	3.2	-
Sodium	ug/L			-
Sodium (dissolved)	ug/L			-
Thallium	ug/L	0.02	0.8	-
Thallium (dissolved)	ug/L	0.02	0.8	-
Vanadium	ug/L	8.6	20	-
Vanadium (dissolved)	ug/L	8.6	20	-
Zinc	ug/L	600	120	-
Zinc (dissolved)	ug/L	600	120	-

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-8R GW-11222397-011123-ZB-07 01/11/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 MW9-060205EAP003 06/02/2005	OU-2 MW-9 MW9A060205EAP004 06/02/2005 (Duplicate)	OU-2 MW-9 WG-17338-111405-RR-016 11/14/2005	OU-2 MW-9 GW17338082106003 08/21/2006	OU-2 MW-9 GW-17338-121206-MJW-05 12/12/2006
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
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
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
1,1,2-Trichloroethane	ug/L	0.041	1200	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
1,1-Dichloroethane	ug/L	2.8	47	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	ug/L	7	25	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2,4-Trichlorobenzene	ug/L	0.4	24	5.0 U	5.0 U	5.0 U	5.0 U	5.0 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
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	ug/L	30	0.7	5.0 U	0.2 J	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	ug/L	0.17	100	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichloropropane	ug/L	0.82	-	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	-	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	ug/L	0.48	26	5.0 U	0.5 J ^a	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	R	R	R	5.0 U	R
2-Hexanone	ug/L	3.8	99	5.0 U	5.0 U	5.0 U	5.0 U	5.0 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
Acetone	ug/L	1800	1500	5.0 U	5.0 U	5.0 U	R	R
Benzene	ug/L	0.46	370	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	0.13	-	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
Bromomethane (Methyl bromide)	ug/L	0.75	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L	81	0.92	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L	0.46	13.3	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chlorobenzene	ug/L	7.8	1.3	1.3 J	0.6 J	5.0 U	5.0 U	5.0 U
Chloroethane	ug/L	830	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	ug/L	0.22	1.8	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	ug/L	19	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	2.5	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	ug/L	-	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cyclohexane	ug/L	1300	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	0.87	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	20	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L	1.5	90	2.8 J ^a	1.0 J	8.0 ^a	4.0 U	4.0 U
Isopropyl benzene	ug/L	45	2.6	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	ug/L	2000	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl cyclohexane	ug/L	-	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert butyl ether (MTBE)	ug/L	10	11070	5.0 U	5.0 U	5.0 U	5.0 U	0.4 J
Methylene chloride	ug/L	5	98.1	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Styrene	ug/L	100	72	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	ug/L	1	111	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	110	2	23 J ^b	9.6 UJ	12 ^b	5.0 U	5.0 U
trans-1,2-Dichloroethene	ug/L	6.8	970	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	ug/L	-	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	ug/L	0.28	21	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	520	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	1000	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	ug/L	0.019	930	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 MW9-060205EAP003 06/02/2005	OU-2 MW-9 MW9A060205EAP004 06/02/2005 (Duplicate)	OU-2 MW-9 WG-17338-111405-RR-016 11/14/2005	OU-2 MW-9 GW17338082106003 08/21/2006	OU-2 MW-9 GW-17338-121206-MJW-05 12/12/2006
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Xylenes (total)	ug/L	19	13	3.8 J	1.3 J	11	5.0 U	5.0 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 MW9-060205EAP003 06/02/2005	OU-2 MW-9 MW9A060205EAP004 06/02/2005 (Duplicate)	OU-2 MW-9 WG-17338-111405-RR-016 11/14/2005	OU-2 MW-9 GW17338082106003 08/21/2006	OU-2 MW-9 GW-17338-121206-MJW-05 12/12/2006
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Semi-Volatile Organic Compounds								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71		10 U	10 U	11 U	10 U	11 U
2,4,5-Trichlorophenol	ug/L	120		10 U	10 U	11 U	10 U	11 U
2,4,6-Trichlorophenol	ug/L	1.2	4.9	10 U	10 U	11 U	10 U	11 U
2,4-Dichlorophenol	ug/L	4.6	11	10 U	10 U	11 U	10 U	11 U
2,4-Dimethylphenol	ug/L	36		10 U	10 U	11 U	10 U	11 U
2,4-Dinitrophenol	ug/L	3.9		41 U	40 U	43 U	32 UJ	32 U
2,4-Dinitrotoluene	ug/L	0.24	44	2.0 U	2.0 U	2.2 U	2.1 U	2.2 U
2,6-Dinitrotoluene	ug/L	0.049	81	2.0 U	2.0 U	2.2 U	2.1 U	2.2 U
2-Chloronaphthalene	ug/L	75		10 U	10 U	11 U	10 U	11 U
2-Chlorophenol	ug/L	9.1	24	10 U	10 U	11 U	10 U	11 U
2-Methylnaphthalene	ug/L	3.6	4.7	10 U	10 U	11 U	10 U	11 U
2-Methylphenol	ug/L	93	13	10 U	10 U	11 U	10 U	11 U
2-Nitroaniline	ug/L	19		20 U	20 U	22 U	21 U	22 U
2-Nitrophenol	ug/L			10 U	10 U	11 U	10 U	11 U
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	20 U	20 U	22 U	21 U	22 U
3-Nitroaniline	ug/L			20 U	20 U	22 U	21 U	22 U
4,6-Dinitro-2-methylphenol	ug/L	0.15		41 U	40 U	43 U	32 UJ	32 U
4-Bromophenyl phenyl ether	ug/L			10 U	10 U	11 U	10 U	11 U
4-Chloro-3-methylphenol	ug/L	140		10 U	10 U	11 U	10 U	11 U
4-Chloroaniline	ug/L	0.37	232	10 U	10 U	11 U	10 U	11 U
4-Chlorophenyl phenyl ether	ug/L			10 U	10 U	11 U	10 U	11 U
4-Methylphenol	ug/L	37	543	10 U	10 U	11 U	10 U	11 U
4-Nitroaniline	ug/L	3.8		20 U	20 U	22 U	21 U	22 U
4-Nitrophenol	ug/L			41 U	40 U	43 U	32 U	32 U
Acenaphthene	ug/L	53	5.8	10 U	10 U	11 U	10 U	11 U
Acenaphthylene	ug/L			10 U	10 U	11 U	10 U	11 U
Acetophenone	ug/L	190		10 U	10 U	11 U	10 U	11 U
Anthracene	ug/L	180	0.012	10 U	10 U	11 U	10 U	11 U
Atrazine	ug/L	0.3	1.8	10 UJ	10 UJ	11 UJ	10 U	11 U
Benzaldehyde	ug/L	19		10 UJ	10 UJ	11 UJ	10 UJ	11 UJ
Benzo(a)anthracene	ug/L	0.03	0.018	1.0 U	1.0 U	1.1 U	1.0 U	1.1 U
Benzo(a)pyrene	ug/L	0.025	0.015	1.0 U	1.0 U	1.1 U	1.0 U	1.1 U
Benzo(b)fluoranthene	ug/L	0.25		1.0 U	1.0 U	1.1 U	1.0 U	1.1 U
Benzo(g,h,i)perylene	ug/L			10 U	10 U	11 U	10 U	11 U
Benzo(k)fluoranthene	ug/L	2.5		1.0 U	1.0 U	1.1 U	1.0 U	1.1 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	10 U	10 U	11 U	10 U	11 U
bis(2-Chloroethoxy)methane	ug/L	5.9		10 U	10 U	11 U	10 U	11 U
bis(2-Chloroethyl)ether	ug/L	0.014		1.0 U	1.0 U	1.1 U	1.0 U	1.1 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	10 U	10 U	11 U	10 U	11 U
Butyl benzylphthalate (BBP)	ug/L	16	19	10 U	10 U	11 U	10 U	11 U
Caprolactam	ug/L	990		10 U	10 U	11 U	10 U	11 U
Carbazole	ug/L			10 U	10 U	11 U	10 U	11 U
Chrysene	ug/L	25		10 U	10 U	11 U	10 U	11 U
Dibenz(a,h)anthracene	ug/L	0.025		1.0 U	1.0 U	1.1 U	1.0 U	1.1 U
Dibenzofuran	ug/L	0.79	3.7	10 U	10 U	11 U	10 U	11 U
Diethyl phthalate	ug/L	1500	210	10 U	10 U	11 U	10 U	11 U
Dimethyl phthalate	ug/L			10 U	10 U	11 U	10 U	11 U
Di-n-butylphthalate (DBP)	ug/L	90	19	10 U	10 U	11 U	10 U	11 U
Di-n-octyl phthalate (DnOP)	ug/L	20	22	10 U	10 U	11 U	10 U	11 U
Fluoranthene	ug/L	80	0.04	10 U	10 U	11 U	10 U	11 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 MW9-060205EAP003 06/02/2005	OU-2 MW-9 MW9A060205EAP004 06/02/2005 (Duplicate)	OU-2 MW-9 WG-17338-111405-RR-016 11/14/2005	OU-2 MW-9 GW17338082106003 08/21/2006	OU-2 MW-9 GW-17338-121206-MJW-05 12/12/2006
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Fluorene	ug/L	29	3	10 U	10 U	11 U	10 U	11 U
Hexachlorobenzene	ug/L	0.0098	0.0003	1.0 U	1.0 U	1.1 U	1.0 U	1.1 U
Hexachlorobutadiene	ug/L	0.14	1.3	2.0 U	2.0 U	2.2 U	2.1 U	2.2 U
Hexachlorocyclopentadiene	ug/L	0.041		10 U	10 U	11 U	10 UJ	11 U
Hexachloroethane	ug/L	0.33	12	1.0 U	1.0 U	1.1 U	1.0 U	1.1 U
Indeno(1,2,3-cd)pyrene	ug/L	0.25		1.0 U	1.0 U	1.1 U	1.0 U	1.1 U
Isophorone	ug/L	78		10 U	10 U	11 U	10 U	11 U
Naphthalene	ug/L	0.12	1.1	10 U	10 U	11 U	10 U	11 U
Nitrobenzene	ug/L	0.14		1.0 U	1.0 U	1.1 U	1.0 U	1.1 U
N-Nitrosodi-n-propylamine	ug/L	0.011		1.0 U	1.0 U	1.1 U	1.0 U	1.1 U
N-Nitrosodiphenylamine	ug/L	12	210	10 U	10 U	11 U	10 U	11 U
Pentachlorophenol	ug/L	0.041	0.5	41 U	40 U	43 U	32 UJ	32 U
Phenanthrene	ug/L	12	0.4	10 U	10 U	11 U	10 U	11 U
Phenol	ug/L	580	4	10 U	10 U	11 U	10 U	11 U
Pyrene	ug/L	12	0.025	10 U	10 U	11 U	10 U	11 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 MW9-060205EAP003 06/02/2005	OU-2 MW-9 MW9A060205EAP004 06/02/2005 (Duplicate)	OU-2 MW-9 WG-17338-111405-RR-016 11/14/2005	OU-2 MW-9 GW17338082106003 08/21/2006	OU-2 MW-9 GW-17338-121206-MJW-05 12/12/2006
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Metals								
		a	b					
Aluminum	ug/L	2000	87	2860 ^{ab}	1930 ^b	-	395 ^b	541 ^b
Aluminum (dissolved)	ug/L	2000	87	-	-	-	200 U	200 U
Antimony	ug/L	0.78	30	12 U	12 U	-	10 U	10 U
Antimony (dissolved)	ug/L	0.78	30	-	-	-	10 U	10 U
Arsenic	ug/L	0.052	5	6.4 U	6.4 U	-	5 U	4.2 U
Arsenic (dissolved)	ug/L	0.052	5	-	-	-	5 U	4.2 U
Barium	ug/L	380	4	193 ^b	180 ^b	-	172 J ^b	163 J ^b
Barium (dissolved)	ug/L	380	4	-	-	-	170 J ^b	174 J ^b
Beryllium	ug/L	2.5	0.66	0.33	0.23	-	2 U	2 U
Beryllium (dissolved)	ug/L	2.5	0.66	-	-	-	2 U	2 U
Cadmium	ug/L	0.18	0.25	5 U	5 U	-	4 U	4 U
Cadmium (dissolved)	ug/L	0.18	0.25	-	-	-	4 U	4 U
Calcium	ug/L	-	-	29800	28000	-	30400	30100
Calcium (dissolved)	ug/L	-	-	-	-	-	30200	32600
Chromium	ug/L	10	85	6.1	5.1	-	10 U	10 U
Chromium (dissolved)	ug/L	10	85	-	-	-	10 U	10 U
Chromium VI (hexavalent)	ug/L	0.035	11	-	-	10 U	10.0 U	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-	-	-	10.0 U	-
Cobalt	ug/L	0.6	23	4.2 ^a	3.6 ^a	-	50 U	50 U
Cobalt (dissolved)	ug/L	0.6	23	-	-	-	50 U	50 U
Copper	ug/L	80	9	5.2	5.3	-	25 U	25 U
Copper (dissolved)	ug/L	80	9	-	-	-	25 U	25 U
Iron	ug/L	1400	300	12200 ^{ab}	8170 ^{ab}	-	1450 ^{ab}	1250 ^b
Iron (dissolved)	ug/L	1400	300	-	-	-	150 U	150 U
Lead	ug/L	15	2.5	3 U	3 U	-	3.2 U	3 U
Lead (dissolved)	ug/L	15	2.5	-	-	-	3 U	3 U
Magnesium	ug/L	-	-	12400	11600	-	13100	13400
Magnesium (dissolved)	ug/L	-	-	-	-	-	13100	14400
Manganese	ug/L	43	120	276 ^{ab}	236 ^{ab}	-	222 ^{ab}	238 ^{ab}
Manganese (dissolved)	ug/L	43	120	-	-	-	211 ^{ab}	258 ^{ab}
Mercury	ug/L	0.063	0.026	0.20 U	0.20 U	-	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	4.8	40 U	-	40 U	3.2 J
Nickel (dissolved)	ug/L	39	52	-	-	-	40 U	2.6 J
Potassium	ug/L	-	-	4100	3860	-	4450 J	5380
Potassium (dissolved)	ug/L	-	-	-	-	-	4510 J	5600
Selenium	ug/L	10	1	5.1 U	5.1 U	-	5 U	5 U
Selenium (dissolved)	ug/L	10	1	-	-	-	5 U	5 U
Silver	ug/L	9.4	3.2	15 U	15 U	-	10 U	10 U
Silver (dissolved)	ug/L	9.4	3.2	-	-	-	10 U	10 U
Sodium	ug/L	-	-	46200	43600	-	52100	42100
Sodium (dissolved)	ug/L	-	-	-	-	-	52500	44600
Thallium	ug/L	0.02	0.8	11 U	11 U	-	10 U	9.5 U
Thallium (dissolved)	ug/L	0.02	0.8	-	-	-	10 U	9.5 U
Vanadium	ug/L	8.6	20	5.5	3.9	-	50 U	50 U
Vanadium (dissolved)	ug/L	8.6	20	-	-	-	50 U	50 U
Zinc	ug/L	600	120	13.6	11.6	-	30 U	30 U
Zinc (dissolved)	ug/L	600	120	-	-	-	30 U	30 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 MW9-060205EAP003 06/02/2005	OU-2 MW-9 MW9A060205EAP004 06/02/2005 (Duplicate)	OU-2 MW-9 WG-17338-111405-RR-016 11/14/2005	OU-2 MW-9 GW17338082106003 08/21/2006	OU-2 MW-9 GW-17338-121206-MJW-05 12/12/2006
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					

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**Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware**

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 GW-17338-121206-MJW-06 12/12/2006 (Duplicate)	OU-2 MW-9 GW-17338-080408-03 08/04/2008	OU-2 MW-9 GW-17338-112008-03 11/20/2008	OU-2 MW-9 GW-17338-112008-04 11/20/2008 (Duplicate)	OU-2 MW-9 GW-017338-022309-001 02/23/2009
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	ug/L	200	11	5.0 U	5.0 U	5.0 U	5.0 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
1,1,2-Trichloroethane	ug/L	0.041	1200	3.0 U	3.0 U	3.0 U	3.0 U	1.0 U
1,1-Dichloroethane	ug/L	2.8	47	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
1,1-Dichloroethene	ug/L	7	25	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	0.4	24	5.0 U	5.0 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	-	-	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	-	5.0 U	5.0 U	-	-	1.0 U
1,2-Dichlorobenzene	ug/L	30	0.7	5.0 U	5.0 U	-	-	0.2 J
1,2-Dichloroethane	ug/L	0.17	100	2.0 U	2.0 U	2.0 U	2.0 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
1,3,5-Trimethylbenzene	ug/L	6	71	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	-	-	5.0 U	5.0 U	-	-	1.0 U
1,4-Dichlorobenzene	ug/L	0.48	26	5.0 U	5.0 U	-	-	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	R	5.0 U	5.0 U	5.0 U	10 U
2-Hexanone	ug/L	3.8	99	5.0 U	5.0 U	5.0 U	5.0 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	10 U
Acetone	ug/L	1800	1500	R	5.0 U	5.0 U	5.0 U	10 U
Benzene	ug/L	0.46	370	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	0.13	-	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	1.0 U
Bromomethane (Methyl bromide)	ug/L	0.75	-	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
Carbon disulfide	ug/L	81	0.92	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
Carbon tetrachloride	ug/L	0.46	13.3	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Chlorobenzene	ug/L	7.8	1.3	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
Chloroethane	ug/L	830	-	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	0.22	1.8	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	19	-	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	2.5	-	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	-	-	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
Cyclohexane	ug/L	1300	-	5.0 U	5.0 U	-	-	1.0 U
Dibromochloromethane	ug/L	0.87	-	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	20	-	5.0 U	5.0 U	-	-	1.0 U
Ethylbenzene	ug/L	1.5	90	4.0 U	4.0 U	4.0 U	4.0 U	1.0 U
Isopropyl benzene	ug/L	45	2.6	5.0 U	5.0 U	-	-	1.0 U
Methyl acetate	ug/L	2000	-	5.0 U	5.0 U	-	-	1.0 U
Methyl cyclohexane	ug/L	-	-	5.0 U	5.0 U	-	-	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	10	11070	0.4 J	0.2 J	-	-	1.0 U
Methylene chloride	ug/L	5	98.1	3.0 U	3.0 U	3.0 U	3.0 U	1.0 U
Styrene	ug/L	100	72	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
Tetrachloroethene	ug/L	1	111	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	110	2	5.0 U	5.0 U	5.0 U	5.0 U	0.5 J
trans-1,2-Dichloroethene	ug/L	6.8	970	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	-	-	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
Trichloroethene	ug/L	0.28	21	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	520	-	5.0 U	5.0 U	-	-	1.0 U
Trifluorotrchloroethane (CFC-113)	ug/L	1000	-	5.0 U	5.0 U	-	-	1.0 U
Vinyl chloride	ug/L	0.019	930	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 GW-17338-121206-MJW-06 12/12/2006 (Duplicate)	OU-2 MW-9 GW-17338-080408-03 08/04/2008	OU-2 MW-9 GW-17338-112008-03 11/20/2008	OU-2 MW-9 GW-17338-112008-04 11/20/2008 (Duplicate)	OU-2 MW-9 GW-017338-022309-001 02/23/2009
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Xylenes (total)	ug/L	19	13	5.0 U	5.0 U	5.0 U	5.0 U	3.0 U

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 GW-17338-121206-MJW-06 12/12/2006 (Duplicate)	OU-2 MW-9 GW-17338-080408-03 08/04/2008	OU-2 MW-9 GW-17338-112008-03 11/20/2008	OU-2 MW-9 GW-17338-112008-04 11/20/2008 (Duplicate)	OU-2 MW-9 GW-017338-022309-001 02/23/2009
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Semi-Volatile Organic Compounds								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71		10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	ug/L	120		10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	ug/L	1.2	4.9	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	ug/L	4.6	11	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	ug/L	36		10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	ug/L	3.9		31 U	30 U	30 U	30 U	30 U
2,4-Dinitrotoluene	ug/L	0.24	44	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2,6-Dinitrotoluene	ug/L	0.049	81	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Chloronaphthalene	ug/L	75		10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	ug/L	9.1	24	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	ug/L	3.6	4.7	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	ug/L	93	13	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	ug/L	19		20 U	20 U	20 U	20 U	20 U
2-Nitrophenol	ug/L			10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	20 U	20 U	20 U	20 U	20 U
3-Nitroaniline	ug/L			20 U	20 U	20 U	20 U	20 U
4,6-Dinitro-2-methylphenol	ug/L	0.15		31 U	30 U	30 U	30 U	30 U
4-Bromophenyl phenyl ether	ug/L			10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	ug/L	140		10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	ug/L	0.37	232	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl phenyl ether	ug/L			10 U	10 U	10 U	10 U	10 U
4-Methylphenol	ug/L	37	543	10 U	10 U	-	-	10 U
4-Nitroaniline	ug/L	3.8		20 U	20 U	20 U	20 U	20 U
4-Nitrophenol	ug/L			31 U	30 U	30 U	30 U	30 U
Acenaphthene	ug/L	53	5.8	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	ug/L			10 U	10 U	10 U	10 U	10 U
Acetophenone	ug/L	190		10 U	10 U	10 U	10 U	10 U
Anthracene	ug/L	180	0.012	10 U	10 U	10 U	10 U	10 U
Atrazine	ug/L	0.3	1.8	10 U	10 U	10 U	10 U	10 U
Benzaldehyde	ug/L	19		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Benzo(a)anthracene	ug/L	0.03	0.018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzo(a)pyrene	ug/L	0.025	0.015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzo(b)fluoranthene	ug/L	0.25		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	10 U	10 U	10 U
Benzo(k)fluoranthene	ug/L	2.5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	ug/L	5.9		10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	ug/L	0.014		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	10 U	10 U	10 U	10 U	10 U
Butyl benzylphthalate (BBP)	ug/L	16	19	10 U	10 U	10 U	10 U	10 U
Caprolactam	ug/L	990		10 U	10 U	10 U	0.3 J	10 U
Carbazole	ug/L			10 U	10 U	10 U	10 U	10 U
Chrysene	ug/L	25		10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	ug/L	0.025		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibenzofuran	ug/L	0.79	3.7	10 U	10 U	10 U	10 U	10 U
Diethyl phthalate	ug/L	1500	210	10 U	10 U	10 U	10 U	10 U
Dimethyl phthalate	ug/L			10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate (DBP)	ug/L	90	19	10 U	10 U	10 U	10 U	10 U
Di-n-octyl phthalate (DnOP)	ug/L	20	22	10 U	10 U	10 U	10 U	10 U
Fluoranthene	ug/L	80	0.04	10 U	10 U	10 U	10 U	10 U

Appendix E

**Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware**

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 GW-17338-121206-MJW-06 12/12/2006 (Duplicate)	OU-2 MW-9 GW-17338-080408-03 08/04/2008	OU-2 MW-9 GW-17338-112008-03 11/20/2008	OU-2 MW-9 GW-17338-112008-04 11/20/2008 (Duplicate)	OU-2 MW-9 GW-017338-022309-001 02/23/2009
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Fluorene	ug/L	29	3	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	ug/L	0.0098	0.0003	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobutadiene	ug/L	0.14	1.3	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Hexachlorocyclopentadiene	ug/L	0.041		10 U	10 U	10 U	10 U	10 U
Hexachloroethane	ug/L	0.33	12	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Indeno(1,2,3-cd)pyrene	ug/L	0.25		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isophorone	ug/L	78		10 U	10 U	10 U	10 U	10 U
Naphthalene	ug/L	0.12	1.1	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	ug/L	0.14		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
N-Nitrosodi-n-propylamine	ug/L	0.011		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
N-Nitrosodiphenylamine	ug/L	12	210	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	ug/L	0.041	0.5	31 U	30 U	30 U	30 U	30 U
Phenanthrene	ug/L	12	0.4	10 U	10 U	10 U	10 U	10 U
Phenol	ug/L	580	4	10 U	10 U	10 U	10 U	10 U
Pyrene	ug/L	12	0.025	10 U	10 U	10 U	10 U	10 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 GW-17338-121206-MJW-06 12/12/2006 (Duplicate)	OU-2 MW-9 GW-17338-080408-03 08/04/2008	OU-2 MW-9 GW-17338-112008-03 11/20/2008	OU-2 MW-9 GW-17338-112008-04 11/20/2008 (Duplicate)	OU-2 MW-9 GW-017338-022309-001 02/23/2009
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Metals								
		a	b					
Aluminum	ug/L	2000	87	328 U	1000 ^b	1460 ^b	1470 ^b	3670 ^{ab}
Aluminum (dissolved)	ug/L	2000	87	200 U	-	-	-	-
Antimony	ug/L	0.78	30	10 U	8.4 U	6.7 J ^a	10 U	10 U
Antimony (dissolved)	ug/L	0.78	30	10 U	-	-	-	-
Arsenic	ug/L	0.052	5	4.2 U	5.9 U	4.2 U	4.2 U	4.2 U
Arsenic (dissolved)	ug/L	0.052	5	4.2 U	-	-	-	-
Barium	ug/L	380	4	158 J ^b	284 ^b	287 ^b	287 ^b	275 ^b
Barium (dissolved)	ug/L	380	4	176 J ^b	-	-	-	-
Beryllium	ug/L	2.5	0.66	2 U	0.13 J	2 U	2 U	2 U
Beryllium (dissolved)	ug/L	2.5	0.66	2 U	-	-	-	-
Cadmium	ug/L	0.18	0.25	4 U	5 U	4 U	4 U	4 U
Cadmium (dissolved)	ug/L	0.18	0.25	4 U	-	-	-	-
Calcium	ug/L			29700	52100	58500	58300	61200
Calcium (dissolved)	ug/L			32000	-	-	-	-
Chromium	ug/L	10	85	10 U	3.4 J	3.3 J	3.6 J	6.9 J
Chromium (dissolved)	ug/L	10	85	10 U	-	-	-	-
Chromium VI (hexavalent)	ug/L	0.035	11	-	-	-	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-	-	-	-	-
Cobalt	ug/L	0.6	23	50 U	100 U	50 U	50 U	3.9 J ^a
Cobalt (dissolved)	ug/L	0.6	23	50 U	-	-	-	-
Copper	ug/L	80	9	25 U	21 U	25 U	25 U	25.6 ^b
Copper (dissolved)	ug/L	80	9	25 U	-	-	-	-
Iron	ug/L	1400	300	1280 ^b	3940 ^{ab}	5030 ^{ab}	5570 ^{ab}	14300 ^{ab}
Iron (dissolved)	ug/L	1400	300	150 U	-	-	-	-
Lead	ug/L	15	2.5	3 U	2.4 U	3 U	3 U	3 U
Lead (dissolved)	ug/L	15	2.5	3 U	-	-	-	-
Magnesium	ug/L			13100	26000	28200	28200	30100
Magnesium (dissolved)	ug/L			14300	-	-	-	-
Manganese	ug/L	43	120	227 ^{ab}	682 ^{ab}	627 ^{ab}	619 ^{ab}	607 ^{ab}
Manganese (dissolved)	ug/L	43	120	285 ^{ab}	-	-	-	-
Mercury	ug/L	0.063	0.026	0.20 U	0.28 ^{ab}	0.29 ^{ab}	0.28 ^{ab}	0.38 ^{ab}
Mercury (dissolved)	ug/L	0.063	0.026	0.20 U	-	-	-	-
Nickel	ug/L	39	52	3.7 J	65 U	4.6 J	4.3 J	6.2 J
Nickel (dissolved)	ug/L	39	52	40 U	-	-	-	-
Potassium	ug/L			5180	8580	9190	9150	9270
Potassium (dissolved)	ug/L			5580	-	-	-	-
Selenium	ug/L	10	1	5 U	5.7 U	5 U	5 U	5 U
Selenium (dissolved)	ug/L	10	1	5 U	-	-	-	-
Silver	ug/L	9.4	3.2	10 U	8.6 U	10 U	10 U	10 U
Silver (dissolved)	ug/L	9.4	3.2	10 U	-	-	-	-
Sodium	ug/L			40900	117000	153000	152000	140000
Sodium (dissolved)	ug/L			44900	-	-	-	-
Thallium	ug/L	0.02	0.8	9.5 U	9.7 U	9.5 U	9.5 U	9.5 U
Thallium (dissolved)	ug/L	0.02	0.8	9.5 U	-	-	-	-
Vanadium	ug/L	8.6	20	50 U	1.7 J	50 U	50 U	50 U
Vanadium (dissolved)	ug/L	8.6	20	50 U	-	-	-	-
Zinc	ug/L	600	120	30 U	8.2 J	30 U	30 U	16.7 J
Zinc (dissolved)	ug/L	600	120	30 U	-	-	-	-

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 GW-17338-121206-MJW-06 12/12/2006 (Duplicate)	OU-2 MW-9 GW-17338-080408-03 08/04/2008	OU-2 MW-9 GW-17338-112008-03 11/20/2008	OU-2 MW-9 GW-17338-112008-04 11/20/2008 (Duplicate)	OU-2 MW-9 GW-017338-022309-001 02/23/2009
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 GW-017338-050809-ACH-001 05/08/2009
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	
Volatile Organic Compounds				
1,1,1-Trichloroethane	ug/L	200	11	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	0.076	610	1.0 U
1,1,2-Trichloroethane	ug/L	0.041	1200	1.0 U
1,1-Dichloroethane	ug/L	2.8	47	1.0 U
1,1-Dichloroethene	ug/L	7	25	1.0 U
1,2,4-Trichlorobenzene	ug/L	0.4	24	1.0 U
1,2,4-Trimethylbenzene	ug/L	5.6		-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.00033		1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075		1.0 U
1,2-Dichlorobenzene	ug/L	30	0.7	1.0 U
1,2-Dichloroethane	ug/L	0.17	100	1.0 U
1,2-Dichloropropane	ug/L	0.82		1.0 U
1,3,5-Trimethylbenzene	ug/L	6	71	-
1,3-Dichlorobenzene	ug/L			1.0 U
1,4-Dichlorobenzene	ug/L	0.48	26	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	10 U
2-Hexanone	ug/L	3.8	99	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	170	10 U
Acetone	ug/L	1800	1500	10 UJ
Benzene	ug/L	0.46	370	1.0 U
Bromodichloromethane	ug/L	0.13		1.0 U
Bromoform	ug/L	3.3	320	1.0 U
Bromomethane (Methyl bromide)	ug/L	0.75		1.0 U
Carbon disulfide	ug/L	81	0.92	1.0 U
Carbon tetrachloride	ug/L	0.46	13.3	1.0 U
Chlorobenzene	ug/L	7.8	1.3	1.0 U
Chloroethane	ug/L	830		1.0 U
Chloroform (Trichloromethane)	ug/L	0.22	1.8	1.0 U
Chloromethane (Methyl chloride)	ug/L	19		1.0 U
cis-1,2-Dichloroethene	ug/L	2.5		1.0 U
cis-1,3-Dichloropropene	ug/L			1.0 U
Cyclohexane	ug/L	1300		1.0 U
Dibromochloromethane	ug/L	0.87		1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	20		1.0 U
Ethylbenzene	ug/L	1.5	90	1.0 U
Isopropyl benzene	ug/L	45	2.6	1.0 U
Methyl acetate	ug/L	2000		2.0 U
Methyl cyclohexane	ug/L			1.0 U
Methyl tert butyl ether (MTBE)	ug/L	10	11070	1.0 U
Methylene chloride	ug/L	5	98.1	1.0 U
Styrene	ug/L	100	72	1.0 U
Tetrachloroethene	ug/L	1	111	1.0 U
Toluene	ug/L	110	2	1.0 U
trans-1,2-Dichloroethene	ug/L	6.8	970	1.0 U
trans-1,3-Dichloropropene	ug/L			1.0 U
Trichloroethene	ug/L	0.28	21	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	520		1.0 U
Trifluorotrchloroethane (CFC-113)	ug/L	1000		1.0 U
Vinyl chloride	ug/L	0.019	930	1.0 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 GW-017338-050809-ACH-001 05/08/2009
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	
Xylenes (total)	ug/L	19	13	3.0 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 GW-017338-050809-ACH-001 05/08/2009
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	
Semi-Volatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71		10 U
2,4,5-Trichlorophenol	ug/L	120		10 U
2,4,6-Trichlorophenol	ug/L	1.2	4.9	10 U
2,4-Dichlorophenol	ug/L	4.6	11	10 U
2,4-Dimethylphenol	ug/L	36		10 U
2,4-Dinitrophenol	ug/L	3.9		30 U
2,4-Dinitrotoluene	ug/L	0.24	44	2.0 U
2,6-Dinitrotoluene	ug/L	0.049	81	2.0 U
2-Chloronaphthalene	ug/L	75		10 U
2-Chlorophenol	ug/L	9.1	24	10 U
2-Methylnaphthalene	ug/L	3.6	4.7	10 U
2-Methylphenol	ug/L	93	13	10 U
2-Nitroaniline	ug/L	19		20 U
2-Nitrophenol	ug/L			10 U
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	20 U
3-Nitroaniline	ug/L			20 U
4,6-Dinitro-2-methylphenol	ug/L	0.15		30 U
4-Bromophenyl phenyl ether	ug/L			10 U
4-Chloro-3-methylphenol	ug/L	140		10 U
4-Chloroaniline	ug/L	0.37	232	10 U
4-Chlorophenyl phenyl ether	ug/L			10 U
4-Methylphenol	ug/L	37	543	10 U
4-Nitroaniline	ug/L	3.8		20 U
4-Nitrophenol	ug/L			30 U
Acenaphthene	ug/L	53	5.8	10 U
Acenaphthylene	ug/L			10 U
Acetophenone	ug/L	190		10 U
Anthracene	ug/L	180	0.012	10 U
Atrazine	ug/L	0.3	1.8	10 U
Benzaldehyde	ug/L	19		10 U
Benzo(a)anthracene	ug/L	0.03	0.018	1.0 U
Benzo(a)pyrene	ug/L	0.025	0.015	1.0 U
Benzo(b)fluoranthene	ug/L	0.25		1.0 U
Benzo(g,h,i)perylene	ug/L			10 U
Benzo(k)fluoranthene	ug/L	2.5		1.0 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	10 U
bis(2-Chloroethoxy)methane	ug/L	5.9		10 U
bis(2-Chloroethyl)ether	ug/L	0.014		1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	10 U
Butyl benzylphthalate (BBP)	ug/L	16	19	10 U
Caprolactam	ug/L	990		10 U
Carbazole	ug/L			10 U
Chrysene	ug/L	25		10 U
Dibenz(a,h)anthracene	ug/L	0.025		1.0 U
Dibenzofuran	ug/L	0.79	3.7	10 U
Diethyl phthalate	ug/L	1500	210	10 U
Dimethyl phthalate	ug/L			10 U
Di-n-butylphthalate (DBP)	ug/L	90	19	10 U
Di-n-octyl phthalate (DnOP)	ug/L	20	22	10 U
Fluoranthene	ug/L	80	0.04	10 U

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 GW-017338-050809-ACH-001 05/08/2009
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	
Fluorene	ug/L	29	3	10 U
Hexachlorobenzene	ug/L	0.0098	0.0003	1.0 U
Hexachlorobutadiene	ug/L	0.14	1.3	2.0 U
Hexachlorocyclopentadiene	ug/L	0.041		10 U
Hexachloroethane	ug/L	0.33	12	1.0 U
Indeno(1,2,3-cd)pyrene	ug/L	0.25		1.0 U
Isophorone	ug/L	78		10 U
Naphthalene	ug/L	0.12	1.1	10 U
Nitrobenzene	ug/L	0.14		1.0 U
N-Nitrosodi-n-propylamine	ug/L	0.011		1.0 U
N-Nitrosodiphenylamine	ug/L	12	210	10 U
Pentachlorophenol	ug/L	0.041	0.5	30 U
Phenanthrene	ug/L	12	0.4	10 U
Phenol	ug/L	580	4	10 U
Pyrene	ug/L	12	0.025	10 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

				Operable Unit: Sample Location: Sample ID: Sample Date:	OU-2 MW-9 GW-017338-050809-ACH-001 05/08/2009
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)		
Metals					
		a	b		
Aluminum	ug/L	2000	87	6220 ^{ab}	
Aluminum (dissolved)	ug/L	2000	87	-	
Antimony	ug/L	0.78	30	10.0 U	
Antimony (dissolved)	ug/L	0.78	30	-	
Arsenic	ug/L	0.052	5	5.0 U	
Arsenic (dissolved)	ug/L	0.052	5	-	
Barium	ug/L	380	4	278 ^b	
Barium (dissolved)	ug/L	380	4	-	
Beryllium	ug/L	2.5	0.66	2.0 U	
Beryllium (dissolved)	ug/L	2.5	0.66	-	
Cadmium	ug/L	0.18	0.25	5.0 U	
Cadmium (dissolved)	ug/L	0.18	0.25	-	
Calcium	ug/L			51400	
Calcium (dissolved)	ug/L			-	
Chromium	ug/L	10	85	10.6 ^a	
Chromium (dissolved)	ug/L	10	85	-	
Chromium VI (hexavalent)	ug/L	0.035	11	-	
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-	
Cobalt	ug/L	0.6	23	4.8 J ^a	
Cobalt (dissolved)	ug/L	0.6	23	-	
Copper	ug/L	80	9	26.6 ^b	
Copper (dissolved)	ug/L	80	9	-	
Iron	ug/L	1400	300	22900 ^{ab}	
Iron (dissolved)	ug/L	1400	300	-	
Lead	ug/L	15	2.5	4.5 J ^b	
Lead (dissolved)	ug/L	15	2.5	-	
Magnesium	ug/L			25600	
Magnesium (dissolved)	ug/L			-	
Manganese	ug/L	43	120	531 ^{ab}	
Manganese (dissolved)	ug/L	43	120	-	
Mercury	ug/L	0.063	0.026	0.40 ^{ab}	
Mercury (dissolved)	ug/L	0.063	0.026	-	
Nickel	ug/L	39	52	6.9 J	
Nickel (dissolved)	ug/L	39	52	-	
Potassium	ug/L			8570	
Potassium (dissolved)	ug/L			-	
Selenium	ug/L	10	1	10.0 U	
Selenium (dissolved)	ug/L	10	1	-	
Silver	ug/L	9.4	3.2	1.7 J	
Silver (dissolved)	ug/L	9.4	3.2	-	
Sodium	ug/L			133000	
Sodium (dissolved)	ug/L			-	
Thallium	ug/L	0.02	0.8	10.0 U	
Thallium (dissolved)	ug/L	0.02	0.8	-	
Vanadium	ug/L	8.6	20	50.0 U	
Vanadium (dissolved)	ug/L	8.6	20	-	
Zinc	ug/L	600	120	19.1 J	
Zinc (dissolved)	ug/L	600	120	-	

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 GW-017338-050809-ACH-001 05/08/2009
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	

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**Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware**

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 GW-017338-081709-ACH-01 08/17/2009	OU-2 MW-9 GW-017338-111209-ACH-02 11/12/2009	OU-2 MW-9 GW-017338-030110-ACH-001 03/01/2010	OU-2 MW-9 GW-017338-051810-ACH-03 05/18/2010
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Volatile Organic Compounds							
1,1,1-Trichloroethane	ug/L	200	11	1.0 U	1.0 U	1.0 U	0.25 U
1,1,2,2-Tetrachloroethane	ug/L	0.076	610	1.0 U	1.0 U	1.0 U	0.090 U
1,1,2-Trichloroethane	ug/L	0.041	1200	1.0 U	1.0 U	1.0 U	0.10 U
1,1-Dichloroethane	ug/L	2.8	47	1.0 U	1.0 U	1.0 U	0.10 U
1,1-Dichloroethene	ug/L	7	25	1.0 U	1.0 U	1.0 U	0.14 U
1,2,4-Trichlorobenzene	ug/L	0.4	24	1.0 U	1.0 U	1.0 U	0.44 U
1,2,4-Trimethylbenzene	ug/L	5.6	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.00033	-	1.0 U	1.0 UJ	1.0 U	0.15 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	-	1.0 U	1.0 U	1.0 U	0.090 U
1,2-Dichlorobenzene	ug/L	30	0.7	1.0 U	1.0 U	1.0 U	0.16 U
1,2-Dichloroethane	ug/L	0.17	100	1.0 U	1.0 U	1.0 U	0.24 U
1,2-Dichloropropane	ug/L	0.82	-	1.0 U	1.0 U	1.0 U	0.090 U
1,3,5-Trimethylbenzene	ug/L	6	71	-	-	-	-
1,3-Dichlorobenzene	ug/L	-	-	1.0 U	1.0 U	1.0 U	0.22 U
1,4-Dichlorobenzene	ug/L	0.48	26	1.0 U	1.0 U	1.0 U	0.15 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	R	10 UJ	10 U	0.82 U
2-Hexanone	ug/L	3.8	99	10 U	10 U	10 U	0.55 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	170	10 U	10 U	R	0.68 U
Acetone	ug/L	1800	1500	R	R	R	2.5 U
Benzene	ug/L	0.46	370	1.0 U	1.0 U	1.0 U	0.13 U
Bromodichloromethane	ug/L	0.13	-	1.0 U	1.0 U	1.0 U	0.093 U
Bromoform	ug/L	3.3	320	1.0 U	1.0 U	1.0 U	0.10 U
Bromomethane (Methyl bromide)	ug/L	0.75	-	1.0 UJ	1.0 U	1.0 U	0.31 U
Carbon disulfide	ug/L	81	0.92	1.0 U	1.0 U	1.0 U	0.15 U
Carbon tetrachloride	ug/L	0.46	13.3	1.0 U	1.0 U	1.0 U	0.19 U
Chlorobenzene	ug/L	7.8	1.3	1.0 U	1.0 U	1.0 U	0.16 U
Chloroethane	ug/L	830	-	1.0 U	1.0 UJ	1.0 U	0.45 U
Chloroform (Trichloromethane)	ug/L	0.22	1.8	1.0 U	1.0 U	1.0 U	0.15 U
Chloromethane (Methyl chloride)	ug/L	19	-	1.0 U	1.0 U	1.0 U	0.21 U
cis-1,2-Dichloroethene	ug/L	2.5	-	1.0 U	1.0 U	1.0 U	0.20 U
cis-1,3-Dichloropropene	ug/L	-	-	1.0 U	1.0 U	1.0 U	0.11 U
Cyclohexane	ug/L	1300	-	1.0 U	1.0 U	1.0 U	0.13 U
Dibromochloromethane	ug/L	0.87	-	1.0 U	1.0 U	1.0 U	0.11 U
Dichlorodifluoromethane (CFC-12)	ug/L	20	-	1.0 U	1.0 U	1.0 U	0.29 U
Ethylbenzene	ug/L	1.5	90	1.0 U	1.0 U	1.0 U	0.25 U
Isopropyl benzene	ug/L	45	2.6	1.0 U	1.0 U	1.0 U	0.21 U
Methyl acetate	ug/L	2000	-	2.0 U	2.0 U	2.0 U	0.33 U
Methyl cyclohexane	ug/L	-	-	1.0 U	1.0 U	1.0 U	0.090 U
Methyl tert butyl ether (MTBE)	ug/L	10	11070	1.0 U	0.18 J	1.0 U	0.44 J
Methylene chloride	ug/L	5	98.1	1.0 U	1.0 U	1.0 U	0.19 U
Styrene	ug/L	100	72	1.0 U	1.0 U	1.0 U	0.13 U
Tetrachloroethene	ug/L	1	111	0.32 J	0.53 J	0.41 J	0.51 J
Toluene	ug/L	110	2	1.0 U	1.0 U	1.0 U	0.090 U
trans-1,2-Dichloroethene	ug/L	6.8	970	1.0 U	1.0 U	1.0 U	0.14 U
trans-1,3-Dichloropropene	ug/L	-	-	1.0 U	1.0 U	1.0 U	0.12 U
Trichloroethene	ug/L	0.28	21	1.0 U	1.0 U	1.0 U	0.18 U
Trichlorofluoromethane (CFC-11)	ug/L	520	-	1.0 U	1.0 U	1.0 U	0.16 U
Trifluorotrichloroethane (CFC-113)	ug/L	1000	-	1.0 U	1.0 U	1.0 U	0.28 U
Vinyl chloride	ug/L	0.019	930	1.0 U	1.0 U	1.0 U	0.13 U

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 GW-017338-081709-ACH-01 08/17/2009	OU-2 MW-9 GW-017338-111209-ACH-02 11/12/2009	OU-2 MW-9 GW-017338-030110-ACH-001 03/01/2010	OU-2 MW-9 GW-017338-051810-ACH-03 05/18/2010
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Xylenes (total)	ug/L	19	13	3.0 U	3.0 U	3.0 U	0.43 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 GW-017338-081709-ACH-01 08/17/2009	OU-2 MW-9 GW-017338-111209-ACH-02 11/12/2009	OU-2 MW-9 GW-017338-030110-ACH-001 03/01/2010	OU-2 MW-9 GW-017338-051810-ACH-03 05/18/2010
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Semi-Volatile Organic Compounds							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71		10 U	5.6 U	3.3 U	3.3 U
2,4,5-Trichlorophenol	ug/L	120		10 U	5.6 U	2.6 U	-
2,4,6-Trichlorophenol	ug/L	1.2	4.9	10 U	5.6 U	3.2 U	-
2,4-Dichlorophenol	ug/L	4.6	11	10 U	5.6 U	2.8 U	-
2,4-Dimethylphenol	ug/L	36		10 U	5.6 U	2.6 U	-
2,4-Dinitrophenol	ug/L	3.9		31 UJ	17 UJ	4.9 U	-
2,4-Dinitrotoluene	ug/L	0.24	44	2.0 U	1.1 U	0.44 U	0.45 U
2,6-Dinitrotoluene	ug/L	0.049	81	2.0 U	1.1 U	0.60 U	0.61 U
2-Chloronaphthalene	ug/L	75		10 U	5.6 U	3.8 U	3.9 U
2-Chlorophenol	ug/L	9.1	24	10 U	5.6 U	2.7 U	-
2-Methylnaphthalene	ug/L	3.6	4.7	10 U	5.6 U	3.2 U	3.2 U
2-Methylphenol	ug/L	93	13	10 U	5.6 U	1.7 U	-
2-Nitroaniline	ug/L	19		20 U	11 U	5.8 U	5.9 U
2-Nitrophenol	ug/L			10 U	5.6 U	3.5 U	-
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	20 U	11 U	7.1 U	7.3 U
3-Nitroaniline	ug/L			20 U	11 U	4.4 U	4.5 U
4,6-Dinitro-2-methylphenol	ug/L	0.15		31 U	17 U	5.3 U	-
4-Bromophenyl phenyl ether	ug/L			10 U	5.6 U	4.0 U	4.1 U
4-Chloro-3-methylphenol	ug/L	140		10 U	5.6 U	2.0 U	-
4-Chloroaniline	ug/L	0.37	232	10 U	5.6 U	2.1 U	2.2 UJ
4-Chlorophenyl phenyl ether	ug/L			10 U	5.6 U	4.0 U	4.1 U
4-Methylphenol	ug/L	37	543	10 U	5.6 U	1.6 U	-
4-Nitroaniline	ug/L	3.8		20 U	11 U	4.1 U	4.1 U
4-Nitrophenol	ug/L			31 U	17 U	2.4 U	-
Acenaphthene	ug/L	53	5.8	10 U	5.6 U	3.8 U	3.9 U
Acenaphthylene	ug/L			10 U	5.6 U	4.1 U	4.2 U
Acetophenone	ug/L	190		10 U	5.6 U	4.4 U	4.5 U
Anthracene	ug/L	180	0.012	10 U	5.6 U	3.6 U	3.7 U
Atrazine	ug/L	0.3	1.8	10 U	5.6 U	4.9 U	5.0 U
Benzaldehyde	ug/L	19		10 U	5.6 UJ	1.4 UJ	1.4 UJ
Benzo(a)anthracene	ug/L	0.03	0.018	1.0 U	0.56 U	0.020 U	0.021 U
Benzo(a)pyrene	ug/L	0.025	0.015	1.0 U	0.56 U	0.031 U	0.031 U
Benzo(b)fluoranthene	ug/L	0.25		1.0 U	0.56 U	0.041 U	0.042 U
Benzo(g,h,i)perylene	ug/L			10 U	5.6 U	2.8 U	2.8 U
Benzo(k)fluoranthene	ug/L	2.5		1.0 U	0.56 U	0.31 U	0.31 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	10 U	5.6 U	5.5 U	5.6 U
bis(2-Chloroethoxy)methane	ug/L	5.9		10 U	5.6 U	3.5 U	3.6 U
bis(2-Chloroethyl)ether	ug/L	0.014		1.0 U	0.56 U	0.42 U	0.43 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	10 U	5.6 U	2.4 U	2.5 U
Butyl benzylphthalate (BBP)	ug/L	16	19	10 U	5.6 U	2.8 U	2.9 U
Caprolactam	ug/L	990		10 U	5.6 UJ	0.51 U	R
Carbazole	ug/L			10 U	5.6 U	3.1 U	3.2 U
Chrysene	ug/L	25		10 U	5.6 U	3.8 U	3.9 U
Dibenz(a,h)anthracene	ug/L	0.025		1.0 U	0.56 UJ	0.16 U	0.17 U
Dibenzofuran	ug/L	0.79	3.7	10 U	5.6 U	3.7 U	3.7 U
Diethyl phthalate	ug/L	1500	210	10 U	5.6 U	3.9 U	4.0 U
Dimethyl phthalate	ug/L			10 U	5.6 U	3.3 U	3.4 U
Di-n-butylphthalate (DBP)	ug/L	90	19	10 U	5.6 U	2.8 U	2.9 U
Di-n-octyl phthalate (DnOP)	ug/L	20	22	10 U	5.6 U	1.9 U	2.0 U
Fluoranthene	ug/L	80	0.04	10 U	5.6 U	2.7 U	2.8 U

Appendix E

**Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware**

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 GW-017338-081709-ACH-01 08/17/2009	OU-2 MW-9 GW-017338-111209-ACH-02 11/12/2009	OU-2 MW-9 GW-017338-030110-ACH-001 03/01/2010	OU-2 MW-9 GW-017338-051810-ACH-03 05/18/2010
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Fluorene	ug/L	29	3	10 U	5.6 U	3.3 U	3.4 U
Hexachlorobenzene	ug/L	0.0098	0.0003	1.0 U	0.56 U	0.010 U	0.010 U
Hexachlorobutadiene	ug/L	0.14	1.3	2.0 U	1.1 U	0.96 U	0.98 UJ
Hexachlorocyclopentadiene	ug/L	0.041		10 U	5.6 U	4.7 U	4.8 U
Hexachloroethane	ug/L	0.33	12	1.0 U	0.56 U	0.51 U	0.52 U
Indeno(1,2,3-cd)pyrene	ug/L	0.25		1.0 U	0.56 U	0.12 U	0.12 U
Isophorone	ug/L	78		10 U	5.6 U	3.7 U	3.7 U
Naphthalene	ug/L	0.12	1.1	10 U	5.6 U	3.7 U	3.8 U
Nitrobenzene	ug/L	0.14		1.0 U	0.56 U	0.42 U	0.43 U
N-Nitrosodi-n-propylamine	ug/L	0.011		1.0 U	0.56 U	0.33 U	0.33 U
N-Nitrosodiphenylamine	ug/L	12	210	10 U	5.6 U	3.9 U	4.0 U
Pentachlorophenol	ug/L	0.041	0.5	31 U	17 U	0.14 U	-
Phenanthrene	ug/L	12	0.4	10 U	5.6 U	3.6 U	3.7 U
Phenol	ug/L	580	4	10 U	5.6 UJ	0.91 U	-
Pyrene	ug/L	12	0.025	10 U	5.6 U	4.4 U	4.4 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 GW-017338-081709-ACH-01 08/17/2009	OU-2 MW-9 GW-017338-111209-ACH-02 11/12/2009	OU-2 MW-9 GW-017338-030110-ACH-001 03/01/2010	OU-2 MW-9 GW-017338-051810-ACH-03 05/18/2010
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Metals							
Aluminum	ug/L	2000	87	1390 ^b	6460 J ^{ab}	6940 ^{ab}	5410 J ^{ab}
Aluminum (dissolved)	ug/L	2000	87	-	-	-	-
Antimony	ug/L	0.78	30	10.0 U	10.0 U	10.0 U	4.6 U
Antimony (dissolved)	ug/L	0.78	30	-	-	-	-
Arsenic	ug/L	0.052	5	5.0 U	5.0 U	5.0 U	3.8 U
Arsenic (dissolved)	ug/L	0.052	5	-	-	-	-
Barium	ug/L	380	4	220 ^b	283 ^b	297 ^b	222 ^b
Barium (dissolved)	ug/L	380	4	-	-	-	-
Beryllium	ug/L	2.5	0.66	2.0 U	2.0 U	2.0 U	0.94 U
Beryllium (dissolved)	ug/L	2.5	0.66	-	-	-	-
Cadmium	ug/L	0.18	0.25	5.0 U	5.0 U	5.0 U	0.92 U
Cadmium (dissolved)	ug/L	0.18	0.25	-	-	-	-
Calcium	ug/L	-	-	55100	53900	54700	48400
Calcium (dissolved)	ug/L	-	-	-	-	-	-
Chromium	ug/L	10	85	10.0 U	9.8 J	11.3 ^a	8.3 J
Chromium (dissolved)	ug/L	10	85	-	-	-	-
Chromium VI (hexavalent)	ug/L	0.035	11	-	-	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-	-	-	-
Cobalt	ug/L	0.6	23	50.0 U	4.3 J ^a	5.9 J ^a	3.9 J ^a
Cobalt (dissolved)	ug/L	0.6	23	-	-	-	-
Copper	ug/L	80	9	25.0 U	22.4 J ^b	19.8 J ^b	17.1 J ^b
Copper (dissolved)	ug/L	80	9	-	-	-	-
Iron	ug/L	1400	300	4220 ^{ab}	23100 ^{ab}	25100 ^{ab}	19000 ^{ab}
Iron (dissolved)	ug/L	1400	300	-	-	-	-
Lead	ug/L	15	2.5	5.0 U	5.0 U	8.1 U	7.6 ^b
Lead (dissolved)	ug/L	15	2.5	-	-	-	-
Magnesium	ug/L	-	-	27500	26500	27400	22700
Magnesium (dissolved)	ug/L	-	-	-	-	-	-
Manganese	ug/L	43	120	536 ^{ab}	386 ^{ab}	435 ^{ab}	296 ^{ab}
Manganese (dissolved)	ug/L	43	120	-	-	-	-
Mercury	ug/L	0.063	0.026	0.44 ^{ab}	0.36 ^{ab}	0.40 ^{ab}	0.65 ^{ab}
Mercury (dissolved)	ug/L	0.063	0.026	-	-	-	-
Nickel	ug/L	39	52	40.0 U	5.7 J	7.1 J	5.5 J
Nickel (dissolved)	ug/L	39	52	-	-	-	-
Potassium	ug/L	-	-	8400	8960	8520	7620
Potassium (dissolved)	ug/L	-	-	-	-	-	-
Selenium	ug/L	10	1	10.0 U	10.0 U	10.0 U	4.8 U
Selenium (dissolved)	ug/L	10	1	-	-	-	-
Silver	ug/L	9.4	3.2	10.0 U	1.1 J	1.9 J	1.5 J
Silver (dissolved)	ug/L	9.4	3.2	-	-	-	-
Sodium	ug/L	-	-	145000	146000	148000	126000
Sodium (dissolved)	ug/L	-	-	-	-	-	-
Thallium	ug/L	0.02	0.8	10.0 U	10.0 U	10.0 U	4.6 U
Thallium (dissolved)	ug/L	0.02	0.8	-	-	-	-
Vanadium	ug/L	8.6	20	50.0 U	10.1 J ^a	11.8 J ^a	8.4 J
Vanadium (dissolved)	ug/L	8.6	20	-	-	-	-
Zinc	ug/L	600	120	8.0 J	19.4 J	23.2 J	15.4 J
Zinc (dissolved)	ug/L	600	120	-	-	-	-

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 GW-017338-081709-ACH-01 08/17/2009	OU-2 MW-9 GW-017338-111209-ACH-02 11/12/2009	OU-2 MW-9 GW-017338-030110-ACH-001 03/01/2010	OU-2 MW-9 GW-017338-051810-ACH-03 05/18/2010
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				

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**Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware**

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 GW-017338-051810-ACH-04 05/18/2010 (Duplicate)	OU-2 MW-9 WG-17338-110417-SG-024 11/04/2017	OU-2 MW-9 WG-17338-062618-AM-004 06/26/2018	OU-2 MW-9R GW-11222397-011123-ZB-10 01/11/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Volatile Organic Compounds							
1,1,1-Trichloroethane	ug/L	200	11	0.25 U	1.0 U	1.0 U	0.24 U
1,1,2,2-Tetrachloroethane	ug/L	0.076	610	0.090 U	1.0 U	1.0 U	0.37 U
1,1,2-Trichloroethane	ug/L	0.041	1200	0.10 U	1.0 U	1.0 U	0.20 U
1,1-Dichloroethane	ug/L	2.8	47	0.10 U	1.0 U	1.0 U	0.26 U
1,1-Dichloroethene	ug/L	7	25	0.14 U	1.0 U	1.0 U	0.26 U
1,2,4-Trichlorobenzene	ug/L	0.4	24	0.44 U	1.0 U	1.0 U	0.37 U
1,2,4-Trimethylbenzene	ug/L	5.6		-	1.0 U	1.0 U	0.37 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.00033		0.15 U	1.0 U	1.0 U	0.38 UJ
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075		0.090 U	1.0 U	1.0 U	0.50 U
1,2-Dichlorobenzene	ug/L	30	0.7	0.16 U	1.0 U	1.0 U	0.21 U
1,2-Dichloroethane	ug/L	0.17	100	0.24 U	1.0 U	1.0 U	0.43 U
1,2-Dichloropropane	ug/L	0.82		0.090 U	1.0 U	1.0 U	0.35 U
1,3,5-Trimethylbenzene	ug/L	6	71	-	-	-	-
1,3-Dichlorobenzene	ug/L			0.22 U	1.0 U	1.0 U	0.34 U
1,4-Dichlorobenzene	ug/L	0.48	26	0.15 U	1.0 U	1.0 U	0.33 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	0.82 U	5.0 U	5.0 U	1.9 U
2-Hexanone	ug/L	3.8	99	0.55 U	5.0 U	5.0 U	1.1 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	170	0.68 U	5.0 U	5.0 U	1.3 U
Acetone	ug/L	1800	1500	2.5 U	7.1 U	5.0 U	4.4 U
Benzene	ug/L	0.46	370	0.13 U	1.0 U	1.0 U	0.20 U
Bromodichloromethane	ug/L	0.13		0.093 U	1.0 U	1.0 U	0.34 U
Bromoform	ug/L	3.3	320	0.10 U	1.0 U	1.0 U	0.54 U
Bromomethane (Methyl bromide)	ug/L	0.75		0.31 U	1.0 U	1.0 U	0.55 U
Carbon disulfide	ug/L	81	0.92	0.15 U	1.0 U	1.0 U	0.82 U
Carbon tetrachloride	ug/L	0.46	13.3	0.19 U	1.0 U	1.0 U	0.21 U
Chlorobenzene	ug/L	7.8	1.3	0.16 U	1.0 U	1.0 U	0.38 U
Chloroethane	ug/L	830		0.45 U	1.0 U	1.0 U	0.32 U
Chloroform (Trichloromethane)	ug/L	0.22	1.8	0.15 U	1.0 U	1.0 U	0.33 U
Chloromethane (Methyl chloride)	ug/L	19		0.21 U	1.0 U	1.0 U	0.40 U
cis-1,2-Dichloroethene	ug/L	2.5		0.20 U	1.0 U	1.0 U	0.22 U
cis-1,3-Dichloropropene	ug/L			0.11 U	1.0 U	1.0 U	0.22 U
Cyclohexane	ug/L	1300		0.13 U	1.0 U	1.0 U	0.32 U
Dibromochloromethane	ug/L	0.87		0.11 U	1.0 U	1.0 U	0.28 U
Dichlorodifluoromethane (CFC-12)	ug/L	20		0.29 U	1.0 U	1.0 U	0.31 U
Ethylbenzene	ug/L	1.5	90	0.25 U	1.0 U	1.0 U	0.30 U
Isopropyl benzene	ug/L	45	2.6	0.21 U	1.0 U	1.0 U	0.34 U
Methyl acetate	ug/L	2000		0.33 U	5.0 U	5.0 U	0.79 U
Methyl cyclohexane	ug/L			0.090 U	1.0 U	1.0 U	0.71 U
Methyl tert butyl ether (MTBE)	ug/L	10	11070	0.40 U	1.0 U	1.0 U	0.22 U
Methylene chloride	ug/L	5	98.1	0.19 U	1.0 U	1.0 U	0.32 U
Styrene	ug/L	100	72	0.13 U	1.0 U	1.0 U	0.42 U
Tetrachloroethene	ug/L	1	111	0.41 U	0.30 U	0.68 U	0.25 U
Toluene	ug/L	110	2	0.090 U	1.0 U	1.0 U	0.38 U
trans-1,2-Dichloroethene	ug/L	6.8	970	0.14 U	1.0 U	1.0 U	0.24 U
trans-1,3-Dichloropropene	ug/L			0.12 U	1.0 U	1.0 U	0.22 U
Trichloroethene	ug/L	0.28	21	0.18 U	1.0 U	1.0 U	0.31 U
Trichlorofluoromethane (CFC-11)	ug/L	520		0.16 U	1.0 U	1.0 U	0.33 U
Trifluorotrichloroethane (CFC-113)	ug/L	1000		0.28 U	1.0 U	1.0 U	0.31 U
Vinyl chloride	ug/L	0.019	930	0.13 U	1.0 U	1.0 U	0.17 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 GW-017338-051810-ACH-04 05/18/2010 (Duplicate)	OU-2 MW-9 WG-17338-110417-SG-024 11/04/2017	OU-2 MW-9 WG-17338-062618-AM-004 06/26/2018	OU-2 MW-9R GW-11222397-011123-ZB-10 01/11/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Xylenes (total)	ug/L	19	13	0.43 U	2.0 U	2.0 U	0.65 U

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 GW-017338-051810-ACH-04 05/18/2010 (Duplicate)	OU-2 MW-9 WG-17338-110417-SG-024 11/04/2017	OU-2 MW-9 WG-17338-062618-AM-004 06/26/2018	OU-2 MW-9R GW-11222397-011123-ZB-10 01/11/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Semi-Volatile Organic Compounds							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71		3.3 U	10 U	10 U	-
2,4,5-Trichlorophenol	ug/L	120		-	10 U	10 U	-
2,4,6-Trichlorophenol	ug/L	1.2	4.9	-	10 U	10 U	-
2,4-Dichlorophenol	ug/L	4.6	11	-	10 U	10 U	-
2,4-Dimethylphenol	ug/L	36		-	10 U	10 U	-
2,4-Dinitrophenol	ug/L	3.9		-	20 U	20 U	-
2,4-Dinitrotoluene	ug/L	0.24	44	0.45 U	2.0 U	2.0 U	-
2,6-Dinitrotoluene	ug/L	0.049	81	0.61 U	2.0 U	2.0 U	-
2-Chloronaphthalene	ug/L	75		3.9 U	10 U	10 U	-
2-Chlorophenol	ug/L	9.1	24	-	10 U	10 U	-
2-Methylnaphthalene	ug/L	3.6	4.7	3.2 U	10 U	10 U	-
2-Methylphenol	ug/L	93	13	-	10 U	10 U	-
2-Nitroaniline	ug/L	19		5.9 U	10 U	10 U	-
2-Nitrophenol	ug/L			-	10 U	10 U	-
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	7.3 U	10 U	10 U	-
3-Nitroaniline	ug/L			4.5 U	10 U	10 U	-
4,6-Dinitro-2-methylphenol	ug/L	0.15		-	20 U	20 U	-
4-Bromophenyl phenyl ether	ug/L			4.1 U	10 U	10 U	-
4-Chloro-3-methylphenol	ug/L	140		-	10 U	10 U	-
4-Chloroaniline	ug/L	0.37	232	2.2 UJ	10 U	10 U	-
4-Chlorophenyl phenyl ether	ug/L			4.1 U	10 U	10 U	-
4-Methylphenol	ug/L	37	543	-	10 U	10 U	-
4-Nitroaniline	ug/L	3.8		4.1 U	10 U	10 U	-
4-Nitrophenol	ug/L			-	20 U	20 U	-
Acenaphthene	ug/L	53	5.8	3.9 U	10 U	10 U	-
Acenaphthylene	ug/L			4.2 U	10 U	10 U	-
Acetophenone	ug/L	190		4.5 U	10 U	10 U	-
Anthracene	ug/L	180	0.012	3.7 U	10 U	10 U	-
Atrazine	ug/L	0.3	1.8	5.0 U	2.0 U	2.0 U	-
Benzaldehyde	ug/L	19		1.4 UJ	10 U	10 U	-
Benzo(a)anthracene	ug/L	0.03	0.018	0.021 U	1.0 U	1.0 U	-
Benzo(a)pyrene	ug/L	0.025	0.015	0.031 U	1.0 U	1.0 U	-
Benzo(b)fluoranthene	ug/L	0.25		0.042 U	1.0 U	2.0 U	-
Benzo(g,h,i)perylene	ug/L			2.8 U	10 U	10 UJ	-
Benzo(k)fluoranthene	ug/L	2.5		0.31 U	1.0 U	1.0 U	-
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	5.6 U	10 U	10 U	-
bis(2-Chloroethoxy)methane	ug/L	5.9		3.6 U	10 U	10 U	-
bis(2-Chloroethyl)ether	ug/L	0.014		0.43 U	1.0 U	1.0 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	2.5 U	2.0 U	2.0 U	-
Butyl benzylphthalate (BBP)	ug/L	16	19	2.9 U	10 U	10 U	-
Caprolactam	ug/L	990		R	10 U	10 U	-
Carbazole	ug/L			3.2 U	10 U	10 U	-
Chrysene	ug/L	25		3.9 U	2.0 U	2.0 U	-
Dibenz(a,h)anthracene	ug/L	0.025		0.17 U	1.0 U	1.0 UJ	-
Dibenzofuran	ug/L	0.79	3.7	3.7 U	10 U	10 U	-
Diethyl phthalate	ug/L	1500	210	4.0 U	10 U	10 U	-
Dimethyl phthalate	ug/L			3.4 U	10 U	10 U	-
Di-n-butylphthalate (DBP)	ug/L	90	19	2.9 U	10 U	10 U	-
Di-n-octyl phthalate (DnOP)	ug/L	20	22	2.0 U	10 U	10 U	-
Fluoranthene	ug/L	80	0.04	2.8 U	10 U	10 U	-

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**Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware**

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 GW-017338-051810-ACH-04 05/18/2010 (Duplicate)	OU-2 MW-9 WG-17338-110417-SG-024 11/04/2017	OU-2 MW-9 WG-17338-062618-AM-004 06/26/2018	OU-2 MW-9R GW-11222397-011123-ZB-10 01/11/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Fluorene	ug/L	29	3	3.4 U	10 U	10 U	-
Hexachlorobenzene	ug/L	0.0098	0.0003	0.010 U	1.0 U	1.0 U	-
Hexachlorobutadiene	ug/L	0.14	1.3	0.98 UJ	1.0 U	1.0 U	-
Hexachlorocyclopentadiene	ug/L	0.041		4.8 U	10 U	10 U	-
Hexachloroethane	ug/L	0.33	12	0.52 U	1.0 U	2.0 U	-
Indeno(1,2,3-cd)pyrene	ug/L	0.25		0.12 U	1.0 U	2.0 U	-
Isophorone	ug/L	78		3.7 U	10 U	10 U	-
Naphthalene	ug/L	0.12	1.1	3.8 U	10 U	10 U	-
Nitrobenzene	ug/L	0.14		0.43 U	1.0 U	1.0 U	-
N-Nitrosodi-n-propylamine	ug/L	0.011		0.33 U	1.0 U	1.0 U	-
N-Nitrosodiphenylamine	ug/L	12	210	4.0 U	10 U	10 U	-
Pentachlorophenol	ug/L	0.041	0.5	-	20 U	20 U	-
Phenanthrene	ug/L	12	0.4	3.7 U	10 U	10 U	-
Phenol	ug/L	580	4	-	10 U	10 U	-
Pyrene	ug/L	12	0.025	4.4 U	10 U	10 U	-

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 GW-017338-051810-ACH-04 05/18/2010 (Duplicate)	OU-2 MW-9 WG-17338-110417-SG-024 11/04/2017	OU-2 MW-9 WG-17338-062618-AM-004 06/26/2018	OU-2 MW-9R GW-11222397-011123-ZB-10 01/11/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Metals							
		a	b				
Aluminum	ug/L	2000	87	7580 J ^{ab}	233 ^b	344 ^b	-
Aluminum (dissolved)	ug/L	2000	87	-	-	-	-
Antimony	ug/L	0.78	30	4.6 U	2.0 U	2.0 U	-
Antimony (dissolved)	ug/L	0.78	30	-	-	-	-
Arsenic	ug/L	0.052	5	3.8 U	2.0 U	2.0 U	-
Arsenic (dissolved)	ug/L	0.052	5	-	-	-	-
Barium	ug/L	380	4	250 ^b	87.9 ^b	74.1 ^b	-
Barium (dissolved)	ug/L	380	4	-	-	-	-
Beryllium	ug/L	2.5	0.66	0.94 U	0.80 U	0.80 U	-
Beryllium (dissolved)	ug/L	2.5	0.66	-	-	-	-
Cadmium	ug/L	0.18	0.25	0.92 U	2.0 U	2.0 U	-
Cadmium (dissolved)	ug/L	0.18	0.25	-	-	-	-
Calcium	ug/L	-	-	48300	11800	11900	-
Calcium (dissolved)	ug/L	-	-	-	-	-	-
Chromium	ug/L	10	85	11.4 ^a	5.3	4.0	-
Chromium (dissolved)	ug/L	10	85	-	-	-	-
Chromium VI (hexavalent)	ug/L	0.035	11	-	-	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-	-	-	-
Cobalt	ug/L	0.6	23	5.7 J ^a	4.0 U	4.0 U	-
Cobalt (dissolved)	ug/L	0.6	23	-	-	-	-
Copper	ug/L	80	9	18.0 J ^b	4.0 U	4.0 U	-
Copper (dissolved)	ug/L	80	9	-	-	-	-
Iron	ug/L	1400	300	26600 ^{ab}	704 ^b	1540 ^{ab}	-
Iron (dissolved)	ug/L	1400	300	-	-	-	-
Lead	ug/L	15	2.5	9.5 ^b	1.2 U	0.84 J	-
Lead (dissolved)	ug/L	15	2.5	-	-	-	-
Magnesium	ug/L	-	-	22700	7780	9700	-
Magnesium (dissolved)	ug/L	-	-	-	-	-	-
Manganese	ug/L	43	120	278 ^{ab}	117 ^a	93.8 ^a	-
Manganese (dissolved)	ug/L	43	120	-	-	-	-
Mercury	ug/L	0.063	0.026	0.72 ^{ab}	0.20 U	0.20 U	-
Mercury (dissolved)	ug/L	0.063	0.026	-	-	-	-
Nickel	ug/L	39	52	7.3 J	5.6 U	1.7 J	-
Nickel (dissolved)	ug/L	39	52	-	-	-	-
Potassium	ug/L	-	-	7610	2850	2420	-
Potassium (dissolved)	ug/L	-	-	-	-	-	-
Selenium	ug/L	10	1	4.8 U	10.0 U	10.0 U	-
Selenium (dissolved)	ug/L	10	1	-	-	-	-
Silver	ug/L	9.4	3.2	1.1 J	2.0 U	2.0 U	-
Silver (dissolved)	ug/L	9.4	3.2	-	-	-	-
Sodium	ug/L	-	-	124000	26300	36000	-
Sodium (dissolved)	ug/L	-	-	-	-	-	-
Thallium	ug/L	0.02	0.8	4.6 U	0.80 U	0.80 U	-
Thallium (dissolved)	ug/L	0.02	0.8	-	-	-	-
Vanadium	ug/L	8.6	20	12.4 J ^a	4.0 U	4.0 U	-
Vanadium (dissolved)	ug/L	8.6	20	-	-	-	-
Zinc	ug/L	600	120	25.8 J	16.0 U	16.0 U	-
Zinc (dissolved)	ug/L	600	120	-	-	-	-

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-9 GW-017338-051810-ACH-04 05/18/2010 (Duplicate)	OU-2 MW-9 WG-17338-110417-SG-024 11/04/2017	OU-2 MW-9 WG-17338-062618-AM-004 06/26/2018	OU-2 MW-9R GW-11222397-011123-ZB-10 01/11/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-19 GW1733809070609 09/07/2006	OU-2 MW-19 GW-17338-121206-MJW-03 12/12/2006
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)		
Volatile Organic Compounds					
1,1,1-Trichloroethane	ug/L	200	11	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	ug/L	0.076	610	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	0.041	1200	3.0 U	3.0 U
1,1-Dichloroethane	ug/L	2.8	47	5.0 U	5.0 U
1,1-Dichloroethene	ug/L	7	25	2.0 U	2.0 U
1,2,4-Trichlorobenzene	ug/L	0.4	24	5.0 U	0.7 J ^a
1,2,4-Trimethylbenzene	ug/L	5.6		-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.00033		5.0 U	5.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075		5.0 U	5.0 U
1,2-Dichlorobenzene	ug/L	30	0.7	5.1 ^b	4.8 J ^b
1,2-Dichloroethane	ug/L	0.17	100	2.0 U	2.0 U
1,2-Dichloropropane	ug/L	0.82		1.0 U	1.0 U
1,3,5-Trimethylbenzene	ug/L	6	71	-	-
1,3-Dichlorobenzene	ug/L			0.6 J	1.0 J
1,4-Dichlorobenzene	ug/L	0.48	26	9.3 ^a	4.1 J ^a
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	R	R
2-Hexanone	ug/L	3.8	99	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	170	5.0 U	5.0 U
Acetone	ug/L	1800	1500	R	R
Benzene	ug/L	0.46	370	1.0 U	1.0 U
Bromodichloromethane	ug/L	0.13		1.0 U	1.0 U
Bromoform	ug/L	3.3	320	4.0 U	4.0 U
Bromomethane (Methyl bromide)	ug/L	0.75		5.0 U	5.0 U
Carbon disulfide	ug/L	81	0.92	5.0 U	5.0 U
Carbon tetrachloride	ug/L	0.46	13.3	2.0 U	2.0 U
Chlorobenzene	ug/L	7.8	1.3	9.1 ^{ab}	1.0 J
Chloroethane	ug/L	830		5.0 U	5.0 U
Chloroform (Trichloromethane)	ug/L	0.22	1.8	5.0 U	5.0 U
Chloromethane (Methyl chloride)	ug/L	19		5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	2.5		5.0 U	5.0 U
cis-1,3-Dichloropropene	ug/L			5.0 U	5.0 U
Cyclohexane	ug/L	1300		5.0 U	5.0 U
Dibromochloromethane	ug/L	0.87		5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	20		5.0 U	5.0 U
Ethylbenzene	ug/L	1.5	90	1.4 J	4.0 U
Isopropyl benzene	ug/L	45	2.6	1.0 J	5.0 U
Methyl acetate	ug/L	2000		5.0 U	5.0 U
Methyl cyclohexane	ug/L			5.0 U	5.0 U
Methyl tert butyl ether (MTBE)	ug/L	10	11070	5.0 U	0.5 J
Methylene chloride	ug/L	5	98.1	3.0 U	3.0 U
Styrene	ug/L	100	72	5.0 U	5.0 U
Tetrachloroethene	ug/L	1	111	1.0 U	1.0 U
Toluene	ug/L	110	2	1.2 J	5.0 U
trans-1,2-Dichloroethene	ug/L	6.8	970	5.0 U	5.0 U
trans-1,3-Dichloropropene	ug/L			5.0 U	5.0 U
Trichloroethene	ug/L	0.28	21	1.0 U	1.8 ^a
Trichlorofluoromethane (CFC-11)	ug/L	520		5.0 UJ	5.0 U
Trifluorotrchloroethane (CFC-113)	ug/L	1000		5.0 U	5.0 U
Vinyl chloride	ug/L	0.019	930	5.0 U	5.0 U

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

				Operable Unit: Sample Location: Sample ID: Sample Date:	OU-2 MW-19 GW1733809070609 09/07/2006	OU-2 MW-19 GW-17338-121206-MJW-03 12/12/2006
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)			
Xylenes (total)	ug/L	19	13	4.5 J	5.0 U	

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-19 GW1733809070609 09/07/2006	OU-2 MW-19 GW-17338-121206-MJW-03 12/12/2006
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)		
Semi-Volatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71		10 U	10 U
2,4,5-Trichlorophenol	ug/L	120		10 U	10 U
2,4,6-Trichlorophenol	ug/L	1.2	4.9	10 U	10 U
2,4-Dichlorophenol	ug/L	4.6	11	10 U	10 U
2,4-Dimethylphenol	ug/L	36		10 U	10 U
2,4-Dinitrophenol	ug/L	3.9		31 U	32 U
2,4-Dinitrotoluene	ug/L	0.24	44	2.1 U	2.1 U
2,6-Dinitrotoluene	ug/L	0.049	81	2.1 U	2.1 U
2-Chloronaphthalene	ug/L	75		10 U	10 U
2-Chlorophenol	ug/L	9.1	24	10 U	10 U
2-Methylnaphthalene	ug/L	3.6	4.7	10 U	10 U
2-Methylphenol	ug/L	93	13	10 U	10 U
2-Nitroaniline	ug/L	19		21 U	21 U
2-Nitrophenol	ug/L			10 U	10 U
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	21 U	21 U
3-Nitroaniline	ug/L			21 U	21 U
4,6-Dinitro-2-methylphenol	ug/L	0.15		31 U	32 U
4-Bromophenyl phenyl ether	ug/L			10 U	10 U
4-Chloro-3-methylphenol	ug/L	140		10 U	10 U
4-Chloroaniline	ug/L	0.37	232	10 U	10 U
4-Chlorophenyl phenyl ether	ug/L			10 U	10 U
4-Methylphenol	ug/L	37	543	10 U	10 U
4-Nitroaniline	ug/L	3.8		21 U	21 U
4-Nitrophenol	ug/L			31 U	32 U
Acenaphthene	ug/L	53	5.8	10 U	10 U
Acenaphthylene	ug/L			10 U	10 U
Acetophenone	ug/L	190		10 U	10 U
Anthracene	ug/L	180	0.012	10 U	10 U
Atrazine	ug/L	0.3	1.8	10 U	10 U
Benzaldehyde	ug/L	19		10 UJ	10 UJ
Benzo(a)anthracene	ug/L	0.03	0.018	1.0 U	1.0 U
Benzo(a)pyrene	ug/L	0.025	0.015	1.0 U	1.0 U
Benzo(b)fluoranthene	ug/L	0.25		1.0 U	1.0 U
Benzo(g,h,i)perylene	ug/L			10 U	10 U
Benzo(k)fluoranthene	ug/L	2.5		1.0 U	1.0 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	10 U	10 U
bis(2-Chloroethoxy)methane	ug/L	5.9		10 U	10 U
bis(2-Chloroethyl)ether	ug/L	0.014		1.0 U	1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	10 U	10 U
Butyl benzylphthalate (BBP)	ug/L	16	19	10 U	10 U
Caprolactam	ug/L	990		10 U	10 U
Carbazole	ug/L			10 U	10 U
Chrysene	ug/L	25		10 U	10 U
Dibenz(a,h)anthracene	ug/L	0.025		1.0 U	1.0 U
Dibenzofuran	ug/L	0.79	3.7	10 U	10 U
Diethyl phthalate	ug/L	1500	210	10 U	10 U
Dimethyl phthalate	ug/L			10 U	10 U
Di-n-butylphthalate (DBP)	ug/L	90	19	10 U	10 U
Di-n-octyl phthalate (DnOP)	ug/L	20	22	10 U	10 U
Fluoranthene	ug/L	80	0.04	10 U	10 U

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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-19 GW1733809070609 09/07/2006	OU-2 MW-19 GW-17338-121206-MJW-03 12/12/2006
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)		
Fluorene	ug/L	29	3	10 U	10 U
Hexachlorobenzene	ug/L	0.0098	0.0003	1.0 U	1.0 U
Hexachlorobutadiene	ug/L	0.14	1.3	2.1 U	2.1 U
Hexachlorocyclopentadiene	ug/L	0.041		10 UJ	10 U
Hexachloroethane	ug/L	0.33	12	1.0 U	1.0 U
Indeno(1,2,3-cd)pyrene	ug/L	0.25		1.0 U	1.0 U
Isophorone	ug/L	78		10 U	10 U
Naphthalene	ug/L	0.12	1.1	10 U	10 U
Nitrobenzene	ug/L	0.14		1.0 U	1.0 U
N-Nitrosodi-n-propylamine	ug/L	0.011		1.0 U	1.0 U
N-Nitrosodiphenylamine	ug/L	12	210	10 U	10 U
Pentachlorophenol	ug/L	0.041	0.5	31 U	32 U
Phenanthrene	ug/L	12	0.4	10 U	10 U
Phenol	ug/L	580	4	10 U	10 U
Pyrene	ug/L	12	0.025	10 U	10 U

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Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-19 GW1733809070609 09/07/2006	OU-2 MW-19 GW-17338-121206-MJW-03 12/12/2006
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)		
Metals					
		a	b		
Aluminum	ug/L	2000	87	13500 ^{ab}	16000 ^{ab}
Aluminum (dissolved)	ug/L	2000	87	200 U	200 U
Antimony	ug/L	0.78	30	10 U	10 U
Antimony (dissolved)	ug/L	0.78	30	10 U	10 U
Arsenic	ug/L	0.052	5	4.6 J ^a	3.8 J ^a
Arsenic (dissolved)	ug/L	0.052	5	5 U	3.2 J ^a
Barium	ug/L	380	4	166 J ^b	274 ^b
Barium (dissolved)	ug/L	380	4	118 J ^b	188 J ^b
Beryllium	ug/L	2.5	0.66	2 U	2 U
Beryllium (dissolved)	ug/L	2.5	0.66	2 U	2 U
Cadmium	ug/L	0.18	0.25	4 U	4 U
Cadmium (dissolved)	ug/L	0.18	0.25	4 U	4 U
Calcium	ug/L			28200	44300
Calcium (dissolved)	ug/L			30200	44600
Chromium	ug/L	10	85	16.4 ^a	25.4 ^a
Chromium (dissolved)	ug/L	10	85	10 U	10 U
Chromium VI (hexavalent)	ug/L	0.035	11	20.0 U	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	10.0 U	-
Cobalt	ug/L	0.6	23	50 U	50 U
Cobalt (dissolved)	ug/L	0.6	23	50 U	50 U
Copper	ug/L	80	9	9.8 J ^b	17.5 J ^b
Copper (dissolved)	ug/L	80	9	25 U	25 U
Iron	ug/L	1400	300	8570 ^{ab}	12500 ^{ab}
Iron (dissolved)	ug/L	1400	300	864 ^b	3020 ^{ab}
Lead	ug/L	15	2.5	8.6 ^b	11.2 ^b
Lead (dissolved)	ug/L	15	2.5	3 U	3 U
Magnesium	ug/L			7620	12300
Magnesium (dissolved)	ug/L			7780	11600
Manganese	ug/L	43	120	260 ^{ab}	461 ^{ab}
Manganese (dissolved)	ug/L	43	120	250 ^{ab}	422 ^{ab}
Mercury	ug/L	0.063	0.026	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	9.4 J	12.4 J
Nickel (dissolved)	ug/L	39	52	40 U	40 U
Potassium	ug/L			4530 J	6020
Potassium (dissolved)	ug/L			4400 J	5140
Selenium	ug/L	10	1	5 U	5 U
Selenium (dissolved)	ug/L	10	1	5 U	5 U
Silver	ug/L	9.4	3.2	10 U	10 U
Silver (dissolved)	ug/L	9.4	3.2	10 U	10 U
Sodium	ug/L			47100	59100
Sodium (dissolved)	ug/L			51200	56800
Thallium	ug/L	0.02	0.8	10 U	9.5 U
Thallium (dissolved)	ug/L	0.02	0.8	10 U	9.5 U
Vanadium	ug/L	8.6	20	29.8 J ^{ab}	39.6 J ^{ab}
Vanadium (dissolved)	ug/L	8.6	20	50 U	50 U
Zinc	ug/L	600	120	30 U	80.4
Zinc (dissolved)	ug/L	600	120	30 U	30 U

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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-19 GW1733809070609 09/07/2006	OU-2 MW-19 GW-17338-121206-MJW-03 12/12/2006
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)		

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-19 GW-17338-080508-16 08/05/2008	OU-2 MW-19 GW-17338-112008-05 11/20/2008	OU-2 MW-19 GW-017338-022309-002 02/23/2009	OU-2 MW-19 GW-017338-050809-ACH-002 05/08/2009	OU-2 MW-19 GW-017338-081709-ACH-02 08/17/2009
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	ug/L	200	11	5.0 U	5.0 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
1,1,2-Trichloroethane	ug/L	0.041	1200	3.0 U	3.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	2.8	47	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	7	25	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	0.4	24	5.0 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	-	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075		5.0 U	-	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	30	0.7	5.0 U	-	0.2 J	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	0.17	100	2.0 U	2.0 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
1,3,5-Trimethylbenzene	ug/L	6	71	-	-	-	-	-
1,3-Dichlorobenzene	ug/L			5.0 U	-	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	0.48	26	0.4 J	-	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	5.0 U	5.0 U	10 U	10 U	R
2-Hexanone	ug/L	3.8	99	5.0 U	5.0 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	10 U	10 U	10 U
Acetone	ug/L	1800	1500	R	5.0 U	10 U	10 UJ	R
Benzene	ug/L	0.46	370	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	0.13		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	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	0.75		5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ
Carbon disulfide	ug/L	81	0.92	5.0 U	5.0 U	1.0 U	1.0 U	0.29 J
Carbon tetrachloride	ug/L	0.46	13.3	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	7.8	1.3	0.8 J	5.0 U	0.3 J	1.0 U	1.0 U
Chloroethane	ug/L	830		5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	0.22	1.8	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	19		5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	2.5		5.0 U	5.0 U	0.3 J	1.0 U	0.54 J
cis-1,3-Dichloropropene	ug/L			5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1300		5.0 U	-	1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L	0.87		5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	20		5.0 U	-	1.0 U	1.0 U	1.0 U
Ethylbenzene	ug/L	1.5	90	23 ^a	4.0 U	0.2 J	1.0 U	1.0 U
Isopropyl benzene	ug/L	45	2.6	5.0 U	-	1.0 U	1.0 U	1.0 U
Methyl acetate	ug/L	2000		5.0 U	-	1.0 U	2.0 U	2.0 U
Methyl cyclohexane	ug/L			5.0 U	-	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	10	11070	5.0 U	-	1.0 U	1.0 U	1.0 U
Methylene chloride	ug/L	5	98.1	3.0 U	3.0 U	1.0 U	1.0 U	1.0 U
Styrene	ug/L	100	72	5.0 U	5.0 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
Toluene	ug/L	110	2	100 ^b	5.0 U	0.8 J	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	6.8	970	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L			5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	0.28	21	1.0 U	1.0 U	1.0 U	0.57 J ^a	0.38 J ^a
Trichlorofluoromethane (CFC-11)	ug/L	520		5.0 U	-	1.0 U	1.0 U	1.0 U
Trifluorotrchloroethane (CFC-113)	ug/L	1000		5.0 U	-	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	0.019	930	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U

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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-19 GW-17338-080508-16 08/05/2008	OU-2 MW-19 GW-17338-112008-05 11/20/2008	OU-2 MW-19 GW-017338-022309-002 02/23/2009	OU-2 MW-19 GW-017338-050809-ACH-002 05/08/2009	OU-2 MW-19 GW-017338-081709-ACH-02 08/17/2009
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Xylenes (total)	ug/L	19	13	41 ^{ab}	5.0 U	0.3 J	3.0 U	3.0 U

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Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-19 GW-17338-080508-16 08/05/2008	OU-2 MW-19 GW-17338-112008-05 11/20/2008	OU-2 MW-19 GW-017338-022309-002 02/23/2009	OU-2 MW-19 GW-017338-050809-ACH-002 05/08/2009	OU-2 MW-19 GW-017338-081709-ACH-02 08/17/2009
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Semi-Volatile Organic Compounds								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71		10 U	10 U	10 U	10 U	11 U
2,4,5-Trichlorophenol	ug/L	120		10 U	10 U	10 U	10 U	11 U
2,4,6-Trichlorophenol	ug/L	1.2	4.9	10 U	10 U	10 U	10 U	11 U
2,4-Dichlorophenol	ug/L	4.6	11	10 U	10 U	10 U	10 U	11 U
2,4-Dimethylphenol	ug/L	36		10 U	10 U	10 U	10 U	11 U
2,4-Dinitrophenol	ug/L	3.9		31 U	30 U	30 U	30 U	32 UJ
2,4-Dinitrotoluene	ug/L	0.24	44	2.0 U	2.0 U	2.0 U	2.0 U	2.1 U
2,6-Dinitrotoluene	ug/L	0.049	81	2.0 U	2.0 U	2.0 U	2.0 U	2.1 U
2-Chloronaphthalene	ug/L	75		10 U	10 U	10 U	10 U	11 U
2-Chlorophenol	ug/L	9.1	24	10 U	10 U	10 U	10 U	11 U
2-Methylnaphthalene	ug/L	3.6	4.7	10 U	10 U	10 U	10 U	11 U
2-Methylphenol	ug/L	93	13	10 U	10 U	10 U	10 U	11 U
2-Nitroaniline	ug/L	19		20 U	20 U	20 U	20 U	21 U
2-Nitrophenol	ug/L			10 U	10 U	10 U	10 U	11 U
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	20 U	20 U	20 U	20 U	21 U
3-Nitroaniline	ug/L			20 U	20 U	20 U	20 U	21 U
4,6-Dinitro-2-methylphenol	ug/L	0.15		31 U	30 U	30 U	30 U	32 U
4-Bromophenyl phenyl ether	ug/L			10 U	10 U	10 U	10 U	11 U
4-Chloro-3-methylphenol	ug/L	140		10 U	10 U	10 U	10 U	11 U
4-Chloroaniline	ug/L	0.37	232	10 U	10 U	10 U	10 U	11 U
4-Chlorophenyl phenyl ether	ug/L			10 U	10 U	10 U	10 U	11 U
4-Methylphenol	ug/L	37	543	10 U	-	10 U	10 U	11 U
4-Nitroaniline	ug/L	3.8		20 U	20 U	20 U	20 U	21 U
4-Nitrophenol	ug/L			31 U	30 U	30 U	30 U	32 U
Acenaphthene	ug/L	53	5.8	10 U	10 U	10 U	10 U	11 U
Acenaphthylene	ug/L			10 U	10 U	10 U	10 U	11 U
Acetophenone	ug/L	190		10 U	10 U	10 U	10 U	11 U
Anthracene	ug/L	180	0.012	10 U	10 U	10 U	10 U	11 U
Atrazine	ug/L	0.3	1.8	10 U	10 U	10 U	10 U	11 U
Benzaldehyde	ug/L	19		10 UJ	10 UJ	10 UJ	10 U	11 U
Benzo(a)anthracene	ug/L	0.03	0.018	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U
Benzo(a)pyrene	ug/L	0.025	0.015	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U
Benzo(b)fluoranthene	ug/L	0.25		1.0 U	1.0 U	1.0 U	1.0 U	1.1 U
Benzo(g,h,i)perylene	ug/L			10 U	10 U	10 U	10 U	11 U
Benzo(k)fluoranthene	ug/L	2.5		1.0 U	1.0 U	1.0 U	1.0 U	1.1 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	10 U	10 U	10 U	10 U	11 U
bis(2-Chloroethoxy)methane	ug/L	5.9		10 U	10 U	10 U	10 U	11 U
bis(2-Chloroethyl)ether	ug/L	0.014		1.0 U	1.0 U	1.0 U	1.0 U	1.1 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	10 U	10 U	10 U	10 UJ	11 U
Butyl benzylphthalate (BBP)	ug/L	16	19	10 U	10 U	10 U	10 U	11 U
Caprolactam	ug/L	990		10 U	10 U	10 U	10 U	11 U
Carbazole	ug/L			10 U	10 U	10 U	10 U	11 U
Chrysene	ug/L	25		10 U	10 U	10 U	10 U	11 U
Dibenz(a,h)anthracene	ug/L	0.025		1.0 U	1.0 U	1.0 U	1.0 U	1.1 U
Dibenzofuran	ug/L	0.79	3.7	10 U	10 U	10 U	10 U	11 U
Diethyl phthalate	ug/L	1500	210	10 U	10 U	10 U	10 U	11 U
Dimethyl phthalate	ug/L			10 U	10 U	10 U	10 U	11 U
Di-n-butylphthalate (DBP)	ug/L	90	19	10 U	10 U	10 U	10 U	11 U
Di-n-octyl phthalate (DnOP)	ug/L	20	22	10 U	10 U	10 U	10 U	11 U
Fluoranthene	ug/L	80	0.04	10 U	10 U	10 U	10 U	11 U

Appendix E

**Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware**

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-19 GW-17338-080508-16 08/05/2008	OU-2 MW-19 GW-17338-112008-05 11/20/2008	OU-2 MW-19 GW-017338-022309-002 02/23/2009	OU-2 MW-19 GW-017338-050809-ACH-002 05/08/2009	OU-2 MW-19 GW-017338-081709-ACH-02 08/17/2009
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Fluorene	ug/L	29	3	10 U	10 U	10 U	10 U	11 U
Hexachlorobenzene	ug/L	0.0098	0.0003	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U
Hexachlorobutadiene	ug/L	0.14	1.3	2.0 U	2.0 U	2.0 U	2.0 U	2.1 U
Hexachlorocyclopentadiene	ug/L	0.041		10 U	10 U	10 U	10 U	11 U
Hexachloroethane	ug/L	0.33	12	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U
Indeno(1,2,3-cd)pyrene	ug/L	0.25		1.0 U	1.0 U	1.0 U	1.0 U	1.1 U
Isophorone	ug/L	78		10 U	10 U	10 U	10 U	11 U
Naphthalene	ug/L	0.12	1.1	10 U	10 U	10 U	10 U	11 U
Nitrobenzene	ug/L	0.14		1.0 U	1.0 U	1.0 U	1.0 U	1.1 U
N-Nitrosodi-n-propylamine	ug/L	0.011		1.0 U	1.0 U	1.0 U	1.0 U	1.1 U
N-Nitrosodiphenylamine	ug/L	12	210	10 U	10 U	10 U	10 U	11 U
Pentachlorophenol	ug/L	0.041	0.5	31 U	30 U	30 U	30 U	32 U
Phenanthrene	ug/L	12	0.4	10 U	10 U	10 U	10 U	11 U
Phenol	ug/L	580	4	10 U	10 U	10 U	10 U	11 U
Pyrene	ug/L	12	0.025	10 U	10 U	10 U	10 U	11 U

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-19 GW-17338-080508-16 08/05/2008	OU-2 MW-19 GW-17338-112008-05 11/20/2008	OU-2 MW-19 GW-017338-022309-002 02/23/2009	OU-2 MW-19 GW-017338-050809-ACH-002 05/08/2009	OU-2 MW-19 GW-017338-081709-ACH-02 08/17/2009
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Metals								
		a	b					
Aluminum	ug/L	2000	87	7480 ^{ab}	1620 ^b	7330 ^{ab}	1390 ^b	12500 ^{ab}
Aluminum (dissolved)	ug/L	2000	87	-	-	-	-	-
Antimony	ug/L	0.78	30	8.4 U	10 U	5.8 J ^a	10.0 U	10.0 U
Antimony (dissolved)	ug/L	0.78	30	-	-	-	-	-
Arsenic	ug/L	0.052	5	7.1 ^{ab}	4.8 J ^a	3.5 J ^a	5.0 U	5.0 U
Arsenic (dissolved)	ug/L	0.052	5	-	-	-	-	-
Barium	ug/L	380	4	295 ^b	221 ^b	506 ^{ab}	253 ^b	176 J ^b
Barium (dissolved)	ug/L	380	4	-	-	-	-	-
Beryllium	ug/L	2.5	0.66	0.67 U	2 U	2 U	2.0 U	2.0 U
Beryllium (dissolved)	ug/L	2.5	0.66	-	-	-	-	-
Cadmium	ug/L	0.18	0.25	5 U	4 U	4 U	5.0 U	5.0 U
Cadmium (dissolved)	ug/L	0.18	0.25	-	-	-	-	-
Calcium	ug/L			42900	40900	81800	44700	32100
Calcium (dissolved)	ug/L			-	-	-	-	-
Chromium	ug/L	10	85	8.8 J	1.7 J	10.3 ^a	10.0 U	14.5 ^a
Chromium (dissolved)	ug/L	10	85	-	-	-	-	-
Chromium VI (hexavalent)	ug/L	0.035	11	-	-	-	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-	-	-	-	-
Cobalt	ug/L	0.6	23	4.7 J ^a	2.3 J ^a	5.3 J ^a	50.0 U	3.1 J ^a
Cobalt (dissolved)	ug/L	0.6	23	-	-	-	-	-
Copper	ug/L	80	9	6.9 J	25 U	28.7 ^b	25.0 U	31.2 ^b
Copper (dissolved)	ug/L	80	9	-	-	-	-	-
Iron	ug/L	1400	300	11000 ^{ab}	6850 ^{ab}	12700 ^{ab}	5680 ^{ab}	8460 ^{ab}
Iron (dissolved)	ug/L	1400	300	-	-	-	-	-
Lead	ug/L	15	2.5	5.4 ^b	3.5 J ^b	2.9 J ^b	3.3 J ^b	7.7 ^b
Lead (dissolved)	ug/L	15	2.5	-	-	-	-	-
Magnesium	ug/L			12100	11800	22700	12100	8880
Magnesium (dissolved)	ug/L			-	-	-	-	-
Manganese	ug/L	43	120	545 ^{ab}	496 ^{ab}	776 ^{ab}	420 ^{ab}	264 ^{ab}
Manganese (dissolved)	ug/L	43	120	-	-	-	-	-
Mercury	ug/L	0.063	0.026	0.20 U	0.20 U	0.20 U	0.20 U	0.22 ^{ab}
Mercury (dissolved)	ug/L	0.063	0.026	-	-	-	-	-
Nickel	ug/L	39	52	4.7 J	40 U	6.7 J	40.0 U	7.8 J
Nickel (dissolved)	ug/L	39	52	-	-	-	-	-
Potassium	ug/L			6640	4950 J	8040	6310	4830 J
Potassium (dissolved)	ug/L			-	-	-	-	-
Selenium	ug/L	10	1	5.7 U	5 U	5 U	10.0 U	10.0 U
Selenium (dissolved)	ug/L	10	1	-	-	-	-	-
Silver	ug/L	9.4	3.2	2.3 J	10 U	4.5 J ^b	1.2 J	1.1 J
Silver (dissolved)	ug/L	9.4	3.2	-	-	-	-	-
Sodium	ug/L			107000	80600	272000	193000	66600
Sodium (dissolved)	ug/L			-	-	-	-	-
Thallium	ug/L	0.02	0.8	9.7 U	9.5 U	9.5 U	10.0 U	10.0 U
Thallium (dissolved)	ug/L	0.02	0.8	-	-	-	-	-
Vanadium	ug/L	8.6	20	15.3 J ^a	50 U	13.0 J ^a	50.0 U	26.5 J ^{ab}
Vanadium (dissolved)	ug/L	8.6	20	-	-	-	-	-
Zinc	ug/L	600	120	17.1 J	30 U	24.8 J	6.8 J	30.3
Zinc (dissolved)	ug/L	600	120	-	-	-	-	-

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-19 GW-17338-080508-16 08/05/2008	OU-2 MW-19 GW-17338-112008-05 11/20/2008	OU-2 MW-19 GW-017338-022309-002 02/23/2009	OU-2 MW-19 GW-017338-050809-ACH-002 05/08/2009	OU-2 MW-19 GW-017338-081709-ACH-02 08/17/2009
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-19 GW-017338-111209-ACH-05 11/12/2009	OU-2 MW-19 GW-017338-030110-ACH-004 03/01/2010	OU-2 MW-19 GW-017338-051810-ACH-05 05/18/2010	OU-2 MW-19 WG-17338-110517-SG-032 11/05/2017
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Volatile Organic Compounds							
1,1,1-Trichloroethane	ug/L	200	11	1.0 U	1.0 U	0.25 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	0.076	610	1.0 U	1.0 U	0.090 U	1.0 U
1,1,2-Trichloroethane	ug/L	0.041	1200	1.0 U	1.0 U	0.10 U	1.0 U
1,1-Dichloroethane	ug/L	2.8	47	1.0 U	1.0 U	0.10 U	1.0 U
1,1-Dichloroethene	ug/L	7	25	1.0 U	1.0 U	0.14 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	0.4	24	1.0 U	1.0 U	0.44 U	1.0 U
1,2,4-Trimethylbenzene	ug/L	5.6	-	-	-	-	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.00033	-	1.0 U	1.0 U	0.15 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	-	1.0 U	1.0 U	0.090 U	1.0 U
1,2-Dichlorobenzene	ug/L	30	0.7	1.0 U	1.0 U	0.16 U	1.0 U
1,2-Dichloroethane	ug/L	0.17	100	1.0 U	1.0 U	0.24 U	1.0 U
1,2-Dichloropropane	ug/L	0.82	-	1.0 U	1.0 U	0.090 U	1.0 U
1,3,5-Trimethylbenzene	ug/L	6	71	-	-	-	-
1,3-Dichlorobenzene	ug/L	-	-	1.0 U	1.0 U	0.22 U	1.0 U
1,4-Dichlorobenzene	ug/L	0.48	26	1.0 U	1.0 U	0.15 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	10 UJ	10 U	0.82 U	5.0 U
2-Hexanone	ug/L	3.8	99	10 U	10 U	0.55 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	170	10 U	R	0.68 U	5.0 U
Acetone	ug/L	1800	1500	R	R	2.5 U	5.0 U
Benzene	ug/L	0.46	370	1.0 U	1.0 U	0.13 U	1.0 U
Bromodichloromethane	ug/L	0.13	-	1.0 U	1.0 U	0.093 U	1.0 U
Bromoform	ug/L	3.3	320	1.0 U	1.0 U	0.10 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	0.75	-	1.0 U	1.0 U	0.31 U	1.0 U
Carbon disulfide	ug/L	81	0.92	1.0 U	1.0 U	0.15 U	1.0 U
Carbon tetrachloride	ug/L	0.46	13.3	1.0 U	1.0 U	0.19 U	1.0 U
Chlorobenzene	ug/L	7.8	1.3	0.18 J	1.0 U	0.16 U	1.0 U
Chloroethane	ug/L	830	-	1.0 U	1.0 U	0.45 U	1.0 U
Chloroform (Trichloromethane)	ug/L	0.22	1.8	1.0 U	1.0 U	0.15 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	19	-	1.0 U	1.0 U	0.21 U	1.0 U
cis-1,2-Dichloroethene	ug/L	2.5	-	0.41 J	0.24 J	0.44 J	0.49 J
cis-1,3-Dichloropropene	ug/L	-	-	1.0 U	1.0 U	0.11 U	1.0 U
Cyclohexane	ug/L	1300	-	1.0 U	1.0 U	0.13 U	1.0 U
Dibromochloromethane	ug/L	0.87	-	1.0 U	1.0 U	0.11 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	20	-	1.0 U	1.0 U	0.29 U	1.0 U
Ethylbenzene	ug/L	1.5	90	1.0 U	1.0 U	0.25 U	1.0 U
Isopropyl benzene	ug/L	45	2.6	1.0 U	1.0 U	0.21 U	1.0 U
Methyl acetate	ug/L	2000	-	2.0 U	2.0 U	0.33 U	5.0 U
Methyl cyclohexane	ug/L	-	-	1.0 U	1.0 U	0.090 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	10	11070	1.0 U	1.0 U	0.27 J	1.0 U
Methylene chloride	ug/L	5	98.1	1.0 U	1.0 U	0.19 U	1.0 U
Styrene	ug/L	100	72	1.0 U	1.0 U	0.13 U	1.0 U
Tetrachloroethene	ug/L	1	111	1.0 U	1.0 U	0.20 U	1.0 U
Toluene	ug/L	110	2	1.0 U	0.31 J	0.090 U	1.0 U
trans-1,2-Dichloroethene	ug/L	6.8	970	1.0 U	1.0 U	0.14 U	1.0 U
trans-1,3-Dichloropropene	ug/L	-	-	1.0 U	1.0 U	0.12 U	1.0 U
Trichloroethene	ug/L	0.28	21	1.0 U	1.0 U	0.44 J ^a	0.48 J ^a
Trichlorofluoromethane (CFC-11)	ug/L	520	-	1.0 U	1.0 U	0.16 U	1.0 U
Trifluorotrchloroethane (CFC-113)	ug/L	1000	-	1.0 U	1.0 U	0.28 U	1.0 U
Vinyl chloride	ug/L	0.019	930	1.0 U	1.0 U	0.13 U	1.0 U

Appendix E

Historical Groundwater Analytical Results
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-19 GW-017338-111209-ACH-05 11/12/2009	OU-2 MW-19 GW-017338-030110-ACH-004 03/01/2010	OU-2 MW-19 GW-017338-051810-ACH-05 05/18/2010	OU-2 MW-19 WG-17338-110517-SG-032 11/05/2017
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Xylenes (total)	ug/L	19	13	3.0 U	3.0 U	0.43 U	2.0 U

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
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Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-19 GW-017338-111209-ACH-05 11/12/2009	OU-2 MW-19 GW-017338-030110-ACH-004 03/01/2010	OU-2 MW-19 GW-017338-051810-ACH-05 05/18/2010	OU-2 MW-19 WG-17338-110517-SG-032 11/05/2017
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Semi-Volatile Organic Compounds							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71		5.1 U	3.3 U	3.4 U	10 U
2,4,5-Trichlorophenol	ug/L	120		5.1 U	2.6 U	-	10 U
2,4,6-Trichlorophenol	ug/L	1.2	4.9	5.1 U	3.2 U	-	10 U
2,4-Dichlorophenol	ug/L	4.6	11	5.1 U	2.8 U	-	10 U
2,4-Dimethylphenol	ug/L	36		5.1 U	2.6 U	-	10 U
2,4-Dinitrophenol	ug/L	3.9		15 UJ	4.9 U	-	20 U
2,4-Dinitrotoluene	ug/L	0.24	44	1.0 U	0.44 U	0.46 U	2.0 U
2,6-Dinitrotoluene	ug/L	0.049	81	1.0 U	0.60 U	0.63 U	2.0 U
2-Chloronaphthalene	ug/L	75		5.1 U	3.8 U	4.0 U	10 U
2-Chlorophenol	ug/L	9.1	24	5.1 U	2.7 U	-	10 U
2-Methylnaphthalene	ug/L	3.6	4.7	5.1 U	3.2 U	3.3 U	10 U
2-Methylphenol	ug/L	93	13	5.1 U	1.7 U	-	10 U
2-Nitroaniline	ug/L	19		10 U	5.8 U	6.1 U	10 U
2-Nitrophenol	ug/L			5.1 U	3.5 U	-	10 U
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	10 U	7.1 U	7.4 U	10 U
3-Nitroaniline	ug/L			10 U	4.4 U	4.6 U	10 U
4,6-Dinitro-2-methylphenol	ug/L	0.15		15 U	5.3 U	-	20 U
4-Bromophenyl phenyl ether	ug/L			5.1 U	4.0 U	4.2 U	10 U
4-Chloro-3-methylphenol	ug/L	140		5.1 U	2.0 U	-	10 U
4-Chloroaniline	ug/L	0.37	232	5.1 U	2.1 U	2.2 UJ	10 U
4-Chlorophenyl phenyl ether	ug/L			5.1 U	4.0 U	4.2 U	10 U
4-Methylphenol	ug/L	37	543	5.1 U	1.6 U	-	10 U
4-Nitroaniline	ug/L	3.8		10 U	4.1 U	4.2 U	10 U
4-Nitrophenol	ug/L			15 U	2.4 U	-	20 U
Acenaphthene	ug/L	53	5.8	5.1 U	3.8 U	4.0 U	10 U
Acenaphthylene	ug/L			5.1 U	4.1 U	4.3 U	10 U
Acetophenone	ug/L	190		5.1 U	4.4 U	4.6 U	10 U
Anthracene	ug/L	180	0.012	5.1 U	3.6 U	3.8 U	10 U
Atrazine	ug/L	0.3	1.8	5.1 U	4.9 U	5.1 U	2.0 U
Benzaldehyde	ug/L	19		5.1 UJ	1.4 UJ	1.4 UJ	10 U
Benzo(a)anthracene	ug/L	0.03	0.018	0.51 U	0.020 U	0.021 U	1.0 U
Benzo(a)pyrene	ug/L	0.025	0.015	0.51 U	0.031 U	0.032 U	1.0 U
Benzo(b)fluoranthene	ug/L	0.25		0.51 U	0.041 U	0.043 U	1.0 U
Benzo(g,h,i)perylene	ug/L			5.1 U	2.8 U	2.9 U	10 U
Benzo(k)fluoranthene	ug/L	2.5		0.51 U	0.31 U	0.32 U	1.0 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	5.1 U	5.5 U	5.8 U	10 U
bis(2-Chloroethoxy)methane	ug/L	5.9		5.1 U	3.5 U	3.7 U	10 U
bis(2-Chloroethyl)ether	ug/L	0.014		0.51 U	0.42 U	0.44 U	1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	5.1 U	2.4 U	2.6 U	2.0 U
Butyl benzylphthalate (BBP)	ug/L	16	19	5.1 U	2.8 U	3.0 U	10 U
Caprolactam	ug/L	990		5.1 U	0.51 U	R	10 U
Carbazole	ug/L			5.1 U	3.1 U	3.3 U	10 U
Chrysene	ug/L	25		5.1 U	3.8 U	4.0 U	2.0 U
Dibenz(a,h)anthracene	ug/L	0.025		0.51 UJ	0.16 U	0.17 U	1.0 U
Dibenzofuran	ug/L	0.79	3.7	5.1 U	3.7 U	3.8 U	10 U
Diethyl phthalate	ug/L	1500	210	5.1 U	3.9 U	4.1 U	10 U
Dimethyl phthalate	ug/L			5.1 U	3.3 U	3.5 U	10 U
Di-n-butylphthalate (DBP)	ug/L	90	19	5.1 U	2.8 U	2.9 U	10 U
Di-n-octyl phthalate (DnOP)	ug/L	20	22	5.1 U	1.9 U	2.0 U	10 U
Fluoranthene	ug/L	80	0.04	5.1 U	2.7 U	2.8 U	10 U

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-19 GW-017338-111209-ACH-05 11/12/2009	OU-2 MW-19 GW-017338-030110-ACH-004 03/01/2010	OU-2 MW-19 GW-017338-051810-ACH-05 05/18/2010	OU-2 MW-19 WG-17338-110517-SG-032 11/05/2017
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Fluorene	ug/L	29	3	5.1 U	3.3 U	3.5 U	10 U
Hexachlorobenzene	ug/L	0.0098	0.0003	0.51 U	0.010 U	0.011 U	1.0 U
Hexachlorobutadiene	ug/L	0.14	1.3	1.0 U	0.96 U	1.0 UJ	1.0 U
Hexachlorocyclopentadiene	ug/L	0.041		5.1 U	4.7 U	4.9 U	10 U
Hexachloroethane	ug/L	0.33	12	0.51 U	0.51 U	0.53 U	1.0 U
Indeno(1,2,3-cd)pyrene	ug/L	0.25		0.51 U	0.12 U	0.13 U	1.0 U
Isophorone	ug/L	78		5.1 U	3.7 U	3.8 U	10 U
Naphthalene	ug/L	0.12	1.1	5.1 U	3.7 U	3.9 U	10 U
Nitrobenzene	ug/L	0.14		0.51 U	0.42 U	0.44 U	1.0 U
N-Nitrosodi-n-propylamine	ug/L	0.011		0.51 U	0.33 U	0.34 U	1.0 U
N-Nitrosodiphenylamine	ug/L	12	210	5.1 U	3.9 U	4.1 U	10 U
Pentachlorophenol	ug/L	0.041	0.5	15 U	0.14 U	-	20 U
Phenanthrene	ug/L	12	0.4	5.1 U	3.6 U	3.8 U	10 U
Phenol	ug/L	580	4	5.1 UJ	0.91 U	-	10 U
Pyrene	ug/L	12	0.025	5.1 U	4.4 U	4.5 U	10 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-19 GW-017338-111209-ACH-05 11/12/2009	OU-2 MW-19 GW-017338-030110-ACH-004 03/01/2010	OU-2 MW-19 GW-017338-051810-ACH-05 05/18/2010	OU-2 MW-19 WG-17338-110517-SG-032 11/05/2017
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Metals							
Aluminum	ug/L	2000	87	2250 J ^{ab}	1010 ^b	4460 J ^{ab}	232 ^b
Aluminum (dissolved)	ug/L	2000	87	-	-	-	-
Antimony	ug/L	0.78	30	10.0 U	10.0 U	4.6 U	2.0 U
Antimony (dissolved)	ug/L	0.78	30	-	-	-	-
Arsenic	ug/L	0.052	5	5.0 U	5.0 U	5.2 ^{ab}	1.8 J ^a
Arsenic (dissolved)	ug/L	0.052	5	-	-	-	-
Barium	ug/L	380	4	198 J ^b	251 ^b	219 ^b	136 ^b
Barium (dissolved)	ug/L	380	4	-	-	-	-
Beryllium	ug/L	2.5	0.66	2.0 U	2.0 U	0.94 U	0.80 U
Beryllium (dissolved)	ug/L	2.5	0.66	-	-	-	-
Cadmium	ug/L	0.18	0.25	5.0 U	5.0 U	0.92 U	2.0 U
Cadmium (dissolved)	ug/L	0.18	0.25	-	-	-	-
Calcium	ug/L			40500	43400	41700	33600
Calcium (dissolved)	ug/L			-	-	-	-
Chromium	ug/L	10	85	10.0 U	10.0 U	5.2 J	4.0 U
Chromium (dissolved)	ug/L	10	85	-	-	-	-
Chromium VI (hexavalent)	ug/L	0.035	11	-	-	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-	-	-	-
Cobalt	ug/L	0.6	23	50.0 U	50.0 U	3.1 J ^a	4.0 U
Cobalt (dissolved)	ug/L	0.6	23	-	-	-	-
Copper	ug/L	80	9	25.0 U	25.0 U	13.3 J ^b	4.0 U
Copper (dissolved)	ug/L	80	9	-	-	-	-
Iron	ug/L	1400	300	5240 ^{ab}	6530 ^{ab}	8700 ^{ab}	1250 ^b
Iron (dissolved)	ug/L	1400	300	-	-	-	-
Lead	ug/L	15	2.5	5.0 U	5.0 U	6.3 ^b	1.2 U
Lead (dissolved)	ug/L	15	2.5	-	-	-	-
Magnesium	ug/L			11500	13700	12400	9070
Magnesium (dissolved)	ug/L			-	-	-	-
Manganese	ug/L	43	120	390 ^{ab}	487 ^{ab}	454 ^{ab}	208 ^{ab}
Manganese (dissolved)	ug/L	43	120	-	-	-	-
Mercury	ug/L	0.063	0.026	0.20 U	0.20 U	0.18 U	0.20 U
Mercury (dissolved)	ug/L	0.063	0.026	-	-	-	-
Nickel	ug/L	39	52	40.0 U	40.0 U	3.5 J	5.6 U
Nickel (dissolved)	ug/L	39	52	-	-	-	-
Potassium	ug/L			4640 J	4510 J	4470 J	4170
Potassium (dissolved)	ug/L			-	-	-	-
Selenium	ug/L	10	1	10.0 U	10.0 U	4.8 U	10.0 U
Selenium (dissolved)	ug/L	10	1	-	-	-	-
Silver	ug/L	9.4	3.2	1.3 J	10.0 U	0.97 U	2.0 U
Silver (dissolved)	ug/L	9.4	3.2	-	-	-	-
Sodium	ug/L			73800	108000	73800	27500
Sodium (dissolved)	ug/L			-	-	-	-
Thallium	ug/L	0.02	0.8	10.0 U	10.0 U	4.6 U	0.80 U
Thallium (dissolved)	ug/L	0.02	0.8	-	-	-	-
Vanadium	ug/L	8.6	20	4.9 J	2.4 J	8.4 J	4.0 U
Vanadium (dissolved)	ug/L	8.6	20	-	-	-	-
Zinc	ug/L	600	120	30.0 U	6.2 J	10.0 J	16.0 U
Zinc (dissolved)	ug/L	600	120	-	-	-	-

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-19 GW-017338-111209-ACH-05 11/12/2009	OU-2 MW-19 GW-017338-030110-ACH-004 03/01/2010	OU-2 MW-19 GW-017338-051810-ACH-05 05/18/2010	OU-2 MW-19 WG-17338-110517-SG-032 11/05/2017
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

				Operable Unit: Sample Location: Sample ID: Sample Date:	OU-2 MW-19 WG-17338-062618-AM-001 06/26/2018
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)		
Volatile Organic Compounds					
1,1,1-Trichloroethane	ug/L	200	11		1.0 U
1,1,2,2-Tetrachloroethane	ug/L	0.076	610		1.0 U
1,1,2-Trichloroethane	ug/L	0.041	1200		1.0 U
1,1-Dichloroethane	ug/L	2.8	47		1.0 U
1,1-Dichloroethene	ug/L	7	25		1.0 U
1,2,4-Trichlorobenzene	ug/L	0.4	24		1.0 U
1,2,4-Trimethylbenzene	ug/L	5.6			1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.00033			1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075			1.0 U
1,2-Dichlorobenzene	ug/L	30	0.7		1.0 U
1,2-Dichloroethane	ug/L	0.17	100		1.0 U
1,2-Dichloropropane	ug/L	0.82			1.0 U
1,3,5-Trimethylbenzene	ug/L	6	71		-
1,3-Dichlorobenzene	ug/L				1.0 U
1,4-Dichlorobenzene	ug/L	0.48	26		1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000		5.0 U
2-Hexanone	ug/L	3.8	99		5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	170		5.0 U
Acetone	ug/L	1800	1500		5.0 U
Benzene	ug/L	0.46	370		1.0 U
Bromodichloromethane	ug/L	0.13			1.0 U
Bromoform	ug/L	3.3	320		1.0 U
Bromomethane (Methyl bromide)	ug/L	0.75			1.0 U
Carbon disulfide	ug/L	81	0.92		1.0 U
Carbon tetrachloride	ug/L	0.46	13.3		1.0 U
Chlorobenzene	ug/L	7.8	1.3		1.0 U
Chloroethane	ug/L	830			1.0 U
Chloroform (Trichloromethane)	ug/L	0.22	1.8		1.0 U
Chloromethane (Methyl chloride)	ug/L	19			1.0 U
cis-1,2-Dichloroethene	ug/L	2.5			1.0 U
cis-1,3-Dichloropropene	ug/L				1.0 U
Cyclohexane	ug/L	1300			1.0 U
Dibromochloromethane	ug/L	0.87			1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	20			1.0 U
Ethylbenzene	ug/L	1.5	90		1.0 U
Isopropyl benzene	ug/L	45	2.6		1.0 U
Methyl acetate	ug/L	2000			5.0 U
Methyl cyclohexane	ug/L				1.0 U
Methyl tert butyl ether (MTBE)	ug/L	10	11070		1.0 U
Methylene chloride	ug/L	5	98.1		1.0 U
Styrene	ug/L	100	72		1.0 U
Tetrachloroethene	ug/L	1	111		1.0 U
Toluene	ug/L	110	2		1.0 U
trans-1,2-Dichloroethene	ug/L	6.8	970		1.0 U
trans-1,3-Dichloropropene	ug/L				1.0 U
Trichloroethene	ug/L	0.28	21		1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	520			1.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	1000			1.0 U
Vinyl chloride	ug/L	0.019	930		1.0 U

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Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-19 WG-17338-062618-AM-001 06/26/2018
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	
Xylenes (total)	ug/L	19	13	2.0 U

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Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

				Operable Unit: Sample Location: Sample ID: Sample Date:	OU-2 MW-19 WG-17338-062618-AM-001 06/26/2018
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)		
Semi-Volatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71			10 U
2,4,5-Trichlorophenol	ug/L	120			10 U
2,4,6-Trichlorophenol	ug/L	1.2	4.9		10 U
2,4-Dichlorophenol	ug/L	4.6	11		1.1 U
2,4-Dimethylphenol	ug/L	36			10 U
2,4-Dinitrophenol	ug/L	3.9			20 U
2,4-Dinitrotoluene	ug/L	0.24	44		2.0 U
2,6-Dinitrotoluene	ug/L	0.049	81		2.0 U
2-Chloronaphthalene	ug/L	75			10 U
2-Chlorophenol	ug/L	9.1	24		10 U
2-Methylnaphthalene	ug/L	3.6	4.7		10 U
2-Methylphenol	ug/L	93	13		10 U
2-Nitroaniline	ug/L	19			10 U
2-Nitrophenol	ug/L				10 U
3,3'-Dichlorobenzidine	ug/L	0.13	4.5		10 U
3-Nitroaniline	ug/L				10 U
4,6-Dinitro-2-methylphenol	ug/L	0.15			20 U
4-Bromophenyl phenyl ether	ug/L				10 U
4-Chloro-3-methylphenol	ug/L	140			10 U
4-Chloroaniline	ug/L	0.37	232		10 U
4-Chlorophenyl phenyl ether	ug/L				10 U
4-Methylphenol	ug/L	37	543		10 U
4-Nitroaniline	ug/L	3.8			10 U
4-Nitrophenol	ug/L				20 U
Acenaphthene	ug/L	53	5.8		10 U
Acenaphthylene	ug/L				10 U
Acetophenone	ug/L	190			10 U
Anthracene	ug/L	180	0.012		10 U
Atrazine	ug/L	0.3	1.8		2.0 U
Benzaldehyde	ug/L	19			10 U
Benzo(a)anthracene	ug/L	0.03	0.018		1.0 U
Benzo(a)pyrene	ug/L	0.025	0.015		1.0 U
Benzo(b)fluoranthene	ug/L	0.25			2.0 U
Benzo(g,h,i)perylene	ug/L				10 UJ
Benzo(k)fluoranthene	ug/L	2.5			1.0 U
Biphenyl (1,1'-Biphenyl)	ug/L	0.083	14		10 U
bis(2-Chloroethoxy)methane	ug/L	5.9			10 U
bis(2-Chloroethyl)ether	ug/L	0.014			1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16		2.0 U
Butyl benzylphthalate (BBP)	ug/L	16	19		10 U
Caprolactam	ug/L	990			10 U
Carbazole	ug/L				10 U
Chrysene	ug/L	25			2.0 U
Dibenz(a,h)anthracene	ug/L	0.025			1.0 UJ
Dibenzofuran	ug/L	0.79	3.7		10 U
Diethyl phthalate	ug/L	1500	210		10 U
Dimethyl phthalate	ug/L				10 U
Di-n-butylphthalate (DBP)	ug/L	90	19		10 U
Di-n-octyl phthalate (DnOP)	ug/L	20	22		10 U
Fluoranthene	ug/L	80	0.04		10 U

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Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-19 WG-17338-062618-AM-001 06/26/2018
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	
Fluorene	ug/L	29	3	10 U
Hexachlorobenzene	ug/L	0.0098	0.0003	1.0 U
Hexachlorobutadiene	ug/L	0.14	1.3	1.0 U
Hexachlorocyclopentadiene	ug/L	0.041		10 U
Hexachloroethane	ug/L	0.33	12	2.0 U
Indeno(1,2,3-cd)pyrene	ug/L	0.25		2.0 U
Isophorone	ug/L	78		10 U
Naphthalene	ug/L	0.12	1.1	10 U
Nitrobenzene	ug/L	0.14		1.0 U
N-Nitrosodi-n-propylamine	ug/L	0.011		1.0 U
N-Nitrosodiphenylamine	ug/L	12	210	10 U
Pentachlorophenol	ug/L	0.041	0.5	20 U
Phenanthrene	ug/L	12	0.4	10 U
Phenol	ug/L	580	4	10 U
Pyrene	ug/L	12	0.025	10 U

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Historical Groundwater Analytical Results
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Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-19 WG-17338-062618-AM-001 06/26/2018
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	
Metals		a	b	
Aluminum	ug/L	2000	87	946 ^b
Aluminum (dissolved)	ug/L	2000	87	-
Antimony	ug/L	0.78	30	2.0 U
Antimony (dissolved)	ug/L	0.78	30	-
Arsenic	ug/L	0.052	5	1.4 J ^a
Arsenic (dissolved)	ug/L	0.052	5	-
Barium	ug/L	380	4	128 ^b
Barium (dissolved)	ug/L	380	4	-
Beryllium	ug/L	2.5	0.66	0.80 U
Beryllium (dissolved)	ug/L	2.5	0.66	-
Cadmium	ug/L	0.18	0.25	2.0 U
Cadmium (dissolved)	ug/L	0.18	0.25	-
Calcium	ug/L			29400
Calcium (dissolved)	ug/L			-
Chromium	ug/L	10	85	1.7 J
Chromium (dissolved)	ug/L	10	85	-
Chromium VI (hexavalent)	ug/L	0.035	11	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-
Cobalt	ug/L	0.6	23	4.0 U
Cobalt (dissolved)	ug/L	0.6	23	-
Copper	ug/L	80	9	4.0 U
Copper (dissolved)	ug/L	80	9	-
Iron	ug/L	1400	300	2140 ^{ab}
Iron (dissolved)	ug/L	1400	300	-
Lead	ug/L	15	2.5	1.3
Lead (dissolved)	ug/L	15	2.5	-
Magnesium	ug/L			7740
Magnesium (dissolved)	ug/L			-
Manganese	ug/L	43	120	206 ^{ab}
Manganese (dissolved)	ug/L	43	120	-
Mercury	ug/L	0.063	0.026	0.20 U
Mercury (dissolved)	ug/L	0.063	0.026	-
Nickel	ug/L	39	52	1.4 J
Nickel (dissolved)	ug/L	39	52	-
Potassium	ug/L			4080
Potassium (dissolved)	ug/L			-
Selenium	ug/L	10	1	10.0 U
Selenium (dissolved)	ug/L	10	1	-
Silver	ug/L	9.4	3.2	2.0 U
Silver (dissolved)	ug/L	9.4	3.2	-
Sodium	ug/L			34100
Sodium (dissolved)	ug/L			-
Thallium	ug/L	0.02	0.8	0.80 U
Thallium (dissolved)	ug/L	0.02	0.8	-
Vanadium	ug/L	8.6	20	3.0 J
Vanadium (dissolved)	ug/L	8.6	20	-
Zinc	ug/L	600	120	16.0 U
Zinc (dissolved)	ug/L	600	120	-

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-19 WG-17338-062618-AM-001 06/26/2018
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	

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Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-19 WG-17338-062618-AM-002 06/26/2018 (Duplicate)	OU-2 MW-19R GW-11222397-011123-MA-08 01/11/2023	OU-2 MW-19R GW-11222397-011123-MA-09 01/11/2023 (Duplicate)	OU-4 MW-36D WG-17338-102312-MW36D-MM-266 10/23/2012
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Volatile Organic Compounds							
1,1,1-Trichloroethane	ug/L	200	11	1.0 U	0.24 U	0.24 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	0.076	610	1.0 U	0.37 U	0.37 U	1.0 U
1,1,2-Trichloroethane	ug/L	0.041	1200	1.0 U	0.20 U	0.20 U	1.0 U
1,1-Dichloroethane	ug/L	2.8	47	1.0 U	0.26 U	0.26 U	1.0 U
1,1-Dichloroethene	ug/L	7	25	1.0 U	0.26 U	0.26 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	0.4	24	1.0 U	0.37 U	0.37 U	1.0 U
1,2,4-Trimethylbenzene	ug/L	5.6		1.0 U	7.1 ^a	7.4 ^a	13 ^a
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.00033		1.0 U	0.38 UJ	0.38 UJ	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075		1.0 U	0.50 U	0.50 U	1.0 U
1,2-Dichlorobenzene	ug/L	30	0.7	1.0 U	0.21 U	0.21 U	1.0 U
1,2-Dichloroethane	ug/L	0.17	100	1.0 U	0.43 U	0.43 U	31 ^a
1,2-Dichloropropane	ug/L	0.82		1.0 U	0.35 J	0.38 J	1.0 U
1,3,5-Trimethylbenzene	ug/L	6	71	-	-	-	-
1,3-Dichlorobenzene	ug/L			1.0 U	0.34 U	0.34 U	1.0 U
1,4-Dichlorobenzene	ug/L	0.48	26	1.0 U	0.33 U	0.33 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	5.0 U	15	14	5.0 U
2-Hexanone	ug/L	3.8	99	5.0 U	1.1 U	1.1 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	170	5.0 U	3.7 J	3.8 J	1.8 J
Acetone	ug/L	1800	1500	11 U	70	74	R
Benzene	ug/L	0.46	370	1.0 U	0.26 J	0.35 J	830 ^{ab}
Bromodichloromethane	ug/L	0.13		1.0 U	0.34 U	0.34 U	1.0 U
Bromoform	ug/L	3.3	320	1.0 U	0.54 U	0.54 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	0.75		1.0 U	0.55 U	0.55 U	1.0 U
Carbon disulfide	ug/L	81	0.92	1.0 U	14 ^b	17 ^b	1.0 U
Carbon tetrachloride	ug/L	0.46	13.3	1.0 U	0.21 U	0.21 U	1.0 U
Chlorobenzene	ug/L	7.8	1.3	1.0 U	0.38 U	0.38 U	1.0 U
Chloroethane	ug/L	830		1.0 U	0.32 U	0.32 U	1.0 U
Chloroform (Trichloromethane)	ug/L	0.22	1.8	1.0 U	0.33 U	0.33 U	2.0 ^{ab}
Chloromethane (Methyl chloride)	ug/L	19		1.0 U	0.40 U	0.40 U	1.0 U
cis-1,2-Dichloroethene	ug/L	2.5		1.0 U	1.1	1.1	1.0 U
cis-1,3-Dichloropropene	ug/L			1.0 U	0.22 U	0.22 U	1.0 U
Cyclohexane	ug/L	1300		1.0 U	0.32 U	0.32 U	86
Dibromochloromethane	ug/L	0.87		1.0 U	0.28 U	0.28 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	20		1.0 U	0.31 U	0.31 U	1.0 U
Ethylbenzene	ug/L	1.5	90	1.0 U	3.3 ^a	3.3 ^a	9.7 ^a
Isopropyl benzene	ug/L	45	2.6	1.0 U	0.34 U	0.34 J	16 ^b
Methyl acetate	ug/L	2000		5.0 U	0.79 U	0.79 U	2.0 U
Methyl cyclohexane	ug/L			1.0 U	0.71 U	0.71 U	31
Methyl tert butyl ether (MTBE)	ug/L	10	11070	1.0 U	0.22 U	0.22 U	0.21 J
Methylene chloride	ug/L	5	98.1	1.0 U	0.35 J	0.32 U	1.0 U
Styrene	ug/L	100	72	1.0 U	1.6	1.8	0.31 J
Tetrachloroethene	ug/L	1	111	1.0 U	0.25 U	0.25 U	1.0 U
Toluene	ug/L	110	2	1.0 U	2.0	2.0	20 ^b
trans-1,2-Dichloroethene	ug/L	6.8	970	1.0 U	0.24 U	0.24 U	1.0 U
trans-1,3-Dichloropropene	ug/L			1.0 U	0.22 U	0.22 U	1.0 U
Trichloroethene	ug/L	0.28	21	1.0 U	0.31 U	0.31 U	0.16 J
Trichlorofluoromethane (CFC-11)	ug/L	520		1.0 U	3.4	3.1	1.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	1000		1.0 U	0.31 U	0.31 U	1.0 U
Vinyl chloride	ug/L	0.019	930	1.0 U	0.45 J ^a	0.39 J ^a	1.0 U

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Historical Groundwater Analytical Results
 Long-Term Stewardship Plan
 Former GM Wilmington Assembly Plant
 Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-19 WG-17338-062618-AM-002 06/26/2018 (Duplicate)	OU-2 MW-19R GW-11222397-011123-MA-08 01/11/2023	OU-2 MW-19R GW-11222397-011123-MA-09 01/11/2023 (Duplicate)	OU-4 MW-36D WG-17338-102312-MW36D-MM-266 10/23/2012
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Xylenes (total)	ug/L	19	13	2.0 U	17 ^b	19 ^b	65 ^{ab}

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-19 WG-17338-062618-AM-002 06/26/2018 (Duplicate)	OU-2 MW-19R GW-11222397-011123-MA-08 01/11/2023	OU-2 MW-19R GW-11222397-011123-MA-09 01/11/2023 (Duplicate)	OU-4 MW-36D WG-17338-102312-MW36D-MM-266 10/23/2012
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Semi-Volatile Organic Compounds							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71		10 U	-	-	10 U
2,4,5-Trichlorophenol	ug/L	120		10 U	-	-	10 U
2,4,6-Trichlorophenol	ug/L	1.2	4.9	10 U	-	-	10 U
2,4-Dichlorophenol	ug/L	4.6	11	0.92 J	-	-	10 U
2,4-Dimethylphenol	ug/L	36		10 U	-	-	10 U
2,4-Dinitrophenol	ug/L	3.9		20 U	-	-	31 U
2,4-Dinitrotoluene	ug/L	0.24	44	2.0 U	-	-	2.1 U
2,6-Dinitrotoluene	ug/L	0.049	81	2.0 U	-	-	2.1 U
2-Chloronaphthalene	ug/L	75		10 U	-	-	10 U
2-Chlorophenol	ug/L	9.1	24	10 U	-	-	10 U
2-Methylnaphthalene	ug/L	3.6	4.7	10 U	-	-	10 U
2-Methylphenol	ug/L	93	13	10 U	-	-	10 U
2-Nitroaniline	ug/L	19		10 U	-	-	21 U
2-Nitrophenol	ug/L			10 U	-	-	10 U
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	10 U	-	-	21 U
3-Nitroaniline	ug/L			10 U	-	-	21 U
4,6-Dinitro-2-methylphenol	ug/L	0.15		20 U	-	-	31 U
4-Bromophenyl phenyl ether	ug/L			10 U	-	-	10 U
4-Chloro-3-methylphenol	ug/L	140		10 U	-	-	10 U
4-Chloroaniline	ug/L	0.37	232	10 U	-	-	10 U
4-Chlorophenyl phenyl ether	ug/L			10 U	-	-	10 U
4-Methylphenol	ug/L	37	543	10 U	-	-	10 U
4-Nitroaniline	ug/L	3.8		10 U	-	-	21 U
4-Nitrophenol	ug/L			20 U	-	-	31 U
Acenaphthene	ug/L	53	5.8	10 U	-	-	10 U
Acenaphthylene	ug/L			10 U	-	-	10 U
Acetophenone	ug/L	190		10 U	-	-	10 U
Anthracene	ug/L	180	0.012	10 U	-	-	10 U
Atrazine	ug/L	0.3	1.8	2.0 U	-	-	10 U
Benzaldehyde	ug/L	19		10 U	-	-	10 UJ
Benzo(a)anthracene	ug/L	0.03	0.018	1.0 U	-	-	0.052 U
Benzo(a)pyrene	ug/L	0.025	0.015	1.0 U	-	-	0.052 U
Benzo(b)fluoranthene	ug/L	0.25		2.0 U	-	-	0.052 U
Benzo(g,h,i)perylene	ug/L			10 UJ	-	-	10 U
Benzo(k)fluoranthene	ug/L	2.5		1.0 U	-	-	1.0 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	10 U	-	-	10 U
bis(2-Chloroethoxy)methane	ug/L	5.9		10 U	-	-	10 U
bis(2-Chloroethyl)ether	ug/L	0.014		1.0 U	-	-	1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	2.0 U	-	-	10 U
Butyl benzylphthalate (BBP)	ug/L	16	19	10 U	-	-	10 U
Caprolactam	ug/L	990		10 U	-	-	10 U
Carbazole	ug/L			10 U	-	-	10 U
Chrysene	ug/L	25		2.0 U	-	-	10 U
Dibenz(a,h)anthracene	ug/L	0.025		1.0 UJ	-	-	1.0 U
Dibenzofuran	ug/L	0.79	3.7	10 U	-	-	10 U
Diethyl phthalate	ug/L	1500	210	10 U	-	-	10 U
Dimethyl phthalate	ug/L			10 U	-	-	10 U
Di-n-butylphthalate (DBP)	ug/L	90	19	10 U	-	-	10 U
Di-n-octyl phthalate (DnOP)	ug/L	20	22	10 U	-	-	10 U
Fluoranthene	ug/L	80	0.04	10 U	-	-	10 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-19 WG-17338-062618-AM-002 06/26/2018 (Duplicate)	OU-2 MW-19R GW-11222397-011123-MA-08 01/11/2023	OU-2 MW-19R GW-11222397-011123-MA-09 01/11/2023 (Duplicate)	OU-4 MW-36D WG-17338-102312-MW36D-MM-266 10/23/2012
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Fluorene	ug/L	29	3	10 U	-	-	10 U
Hexachlorobenzene	ug/L	0.0098	0.0003	1.0 U	-	-	0.021 U
Hexachlorobutadiene	ug/L	0.14	1.3	1.0 U	-	-	2.1 U
Hexachlorocyclopentadiene	ug/L	0.041		10 U	-	-	10 U
Hexachloroethane	ug/L	0.33	12	2.0 U	-	-	1.0 U
Indeno(1,2,3-cd)pyrene	ug/L	0.25		2.0 U	-	-	1.0 U
Isophorone	ug/L	78		10 U	-	-	10 U
Naphthalene	ug/L	0.12	1.1	10 U	-	-	17 ^{ab}
Nitrobenzene	ug/L	0.14		1.0 U	-	-	1.0 U
N-Nitrosodi-n-propylamine	ug/L	0.011		1.0 U	-	-	1.0 U
N-Nitrosodiphenylamine	ug/L	12	210	10 U	-	-	10 U
Pentachlorophenol	ug/L	0.041	0.5	20 U	-	-	0.21 U
Phenanthrene	ug/L	12	0.4	10 U	-	-	10 U
Phenol	ug/L	580	4	10 U	-	-	10 U
Pyrene	ug/L	12	0.025	10 U	-	-	10 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-19 WG-17338-062618-AM-002 06/26/2018 (Duplicate)	OU-2 MW-19R GW-11222397-011123-MA-08 01/11/2023	OU-2 MW-19R GW-11222397-011123-MA-09 01/11/2023 (Duplicate)	OU-4 MW-36D WG-17338-102312-MW36D-MM-266 10/23/2012
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Metals							
Aluminum	ug/L	2000	87	778 ^b	-	-	274 ^b
Aluminum (dissolved)	ug/L	2000	87	-	-	-	200 U
Antimony	ug/L	0.78	30	2.0 U	-	-	10.0 U
Antimony (dissolved)	ug/L	0.78	30	-	-	-	10.0 U
Arsenic	ug/L	0.052	5	1.3 J ^a	-	-	5.0 U
Arsenic (dissolved)	ug/L	0.052	5	-	-	-	5.0 U
Barium	ug/L	380	4	137 ^b	-	-	259 ^b
Barium (dissolved)	ug/L	380	4	-	-	-	256 ^b
Beryllium	ug/L	2.5	0.66	0.80 U	-	-	2.0 U
Beryllium (dissolved)	ug/L	2.5	0.66	-	-	-	2.0 U
Cadmium	ug/L	0.18	0.25	2.0 U	-	-	5.0 U
Cadmium (dissolved)	ug/L	0.18	0.25	-	-	-	5.0 U
Calcium	ug/L			31100	-	-	18700
Calcium (dissolved)	ug/L			-	-	-	18500
Chromium	ug/L	10	85	1.4 J	-	-	10.0 U
Chromium (dissolved)	ug/L	10	85	-	-	-	10.0 U
Chromium VI (hexavalent)	ug/L	0.035	11	-	-	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-	-	-	-
Cobalt	ug/L	0.6	23	4.0 U	-	-	22.1 J ^a
Cobalt (dissolved)	ug/L	0.6	23	-	-	-	21.4 J ^a
Copper	ug/L	80	9	4.0 U	-	-	25.0 U
Copper (dissolved)	ug/L	80	9	-	-	-	25.0 U
Iron	ug/L	1400	300	2170 ^{ab}	-	-	1590 ^{ab}
Iron (dissolved)	ug/L	1400	300	-	-	-	1200 ^b
Lead	ug/L	15	2.5	1.2	-	-	5.0 U
Lead (dissolved)	ug/L	15	2.5	-	-	-	5.0 U
Magnesium	ug/L			8080	-	-	6660
Magnesium (dissolved)	ug/L			-	-	-	6590
Manganese	ug/L	43	120	214 ^{ab}	-	-	2120 ^{ab}
Manganese (dissolved)	ug/L	43	120	-	-	-	2080 ^{ab}
Mercury	ug/L	0.063	0.026	0.20 U	-	-	0.20 U
Mercury (dissolved)	ug/L	0.063	0.026	-	-	-	0.20 U
Nickel	ug/L	39	52	1.6 J	-	-	6.0 J
Nickel (dissolved)	ug/L	39	52	-	-	-	6.0 J
Potassium	ug/L			4280	-	-	2020 J
Potassium (dissolved)	ug/L			-	-	-	2080 J
Selenium	ug/L	10	1	10.0 U	-	-	10.0 U
Selenium (dissolved)	ug/L	10	1	-	-	-	6.5 J ^b
Silver	ug/L	9.4	3.2	2.0 U	-	-	10.0 U
Silver (dissolved)	ug/L	9.4	3.2	-	-	-	10.0 U
Sodium	ug/L			38100	-	-	21700
Sodium (dissolved)	ug/L			-	-	-	21300
Thallium	ug/L	0.02	0.8	0.80 U	-	-	10.0 U
Thallium (dissolved)	ug/L	0.02	0.8	-	-	-	10.0 U
Vanadium	ug/L	8.6	20	2.9 J	-	-	50.0 U
Vanadium (dissolved)	ug/L	8.6	20	-	-	-	50.0 U
Zinc	ug/L	600	120	16.0 U	-	-	9.4 J
Zinc (dissolved)	ug/L	600	120	-	-	-	9.4 J

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-2 MW-19 WG-17338-062618-AM-002 06/26/2018 (Duplicate)	OU-2 MW-19R GW-11222397-011123-MA-08 01/11/2023	OU-2 MW-19R GW-11222397-011123-MA-09 01/11/2023 (Duplicate)	OU-4 MW-36D WG-17338-102312-MW36D-MM-266 10/23/2012
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-36D DA-MW36D-W001 09/18/2013	OU-4 MW-36D DA-MW36D-W002 10/14/2015	OU-4 MW-36D WG-17338-110417-DT-025 11/04/2017	OU-4 MW-36D GW-11222397-011023-ZB-02 01/10/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Volatile Organic Compounds							
1,1,1-Trichloroethane	ug/L	200	11	5.0 U	2.0 U	1.0 U	0.24 U
1,1,2,2-Tetrachloroethane	ug/L	0.076	610	5.0 U	2.0 U	1.0 U	0.37 U
1,1,2-Trichloroethane	ug/L	0.041	1200	5.0 U	2.0 U	1.0 U	0.20 U
1,1-Dichloroethane	ug/L	2.8	47	5.0 U	2.0 U	1.0 U	0.26 U
1,1-Dichloroethene	ug/L	7	25	5.0 U	2.0 U	1.0 U	0.26 U
1,2,4-Trichlorobenzene	ug/L	0.4	24	5.0 U	2.0 U	1.0 U	0.37 U
1,2,4-Trimethylbenzene	ug/L	5.6		5.7 ^a	290 ^a	1.0 U	65 ^a
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.00033		5.0 U	2.0 U	1.0 U	0.38 UJ
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075		5.0 U	2.0 U	1.0 U	0.50 U
1,2-Dichlorobenzene	ug/L	30	0.7	5.0 U	2.0 U	1.0 U	0.21 U
1,2-Dichloroethane	ug/L	0.17	100	29 ^a	9.5 ^a	15 ^a	0.43 U
1,2-Dichloropropane	ug/L	0.82		5.0 U	2.0 U	1.0 U	0.35 U
1,3,5-Trimethylbenzene	ug/L	6	71	-	-	-	-
1,3-Dichlorobenzene	ug/L			5.0 U	2.0 U	1.0 U	0.34 U
1,4-Dichlorobenzene	ug/L	0.48	26	5.0 U	2.0 U	1.0 U	0.33 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	25 U	12	5.0 U	1.9 U
2-Hexanone	ug/L	3.8	99	25 U	5.0 J ^a	5.0 U	1.1 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	170	25 U	5.8 J	5.0 U	1.3 U
Acetone	ug/L	1800	1500	25 U	20	5.0 U	9.7
Benzene	ug/L	0.46	370	850 ^{ab}	720 ^{ab}	220 ^a	37 ^a
Bromodichloromethane	ug/L	0.13		5.0 U	2.0 U	1.0 U	0.34 U
Bromoform	ug/L	3.3	320	5.0 U	2.0 U	1.0 U	0.54 U
Bromomethane (Methyl bromide)	ug/L	0.75		5.0 U	2.0 U	1.0 UJ	0.55 U
Carbon disulfide	ug/L	81	0.92	5.0 U	2.0 U	1.0 U	0.82 U
Carbon tetrachloride	ug/L	0.46	13.3	5.0 U	2.0 U	1.0 U	0.21 U
Chlorobenzene	ug/L	7.8	1.3	5.0 U	2.0 U	1.0 U	0.38 U
Chloroethane	ug/L	830		5.0 U	2.0 U	1.0 U	0.32 U
Chloroform (Trichloromethane)	ug/L	0.22	1.8	1.4 J ^a	2.0 U	1.0 U	0.33 U
Chloromethane (Methyl chloride)	ug/L	19		5.0 U	2.0 U	1.0 U	7.9
cis-1,2-Dichloroethene	ug/L	2.5		5.0 U	2.0 U	0.38 J	0.22 U
cis-1,3-Dichloropropene	ug/L			5.0 U	2.0 U	1.0 U	0.22 U
Cyclohexane	ug/L	1300		120	200	22	100
Dibromochloromethane	ug/L	0.87		5.0 U	2.0 U	1.0 U	0.28 U
Dichlorodifluoromethane (CFC-12)	ug/L	20		5.0 U	2.0 U	1.0 U	0.31 U
Ethylbenzene	ug/L	1.5	90	5.6 ^a	490 ^{ab}	0.46 J	210 ^{ab}
Isopropyl benzene	ug/L	45	2.6	20 ^b	15 ^b	10 ^b	17 ^b
Methyl acetate	ug/L	2000		25 U	10 U	5.0 U	0.79 U
Methyl cyclohexane	ug/L			48 J	65	20	52
Methyl tert butyl ether (MTBE)	ug/L	10	11070	5.0 U	1.2 J	1.0 U	0.22 U
Methylene chloride	ug/L	5	98.1	5.0 U	2.0 U	1.0 U	0.32 U
Styrene	ug/L	100	72	5.0 U	5.1	1.0 U	0.42 U
Tetrachloroethene	ug/L	1	111	5.0 U	2.0 U	1.0 U	0.25 U
Toluene	ug/L	110	2	6.1 ^b	130 ^{ab}	1.6	130 ^{ab}
trans-1,2-Dichloroethene	ug/L	6.8	970	5.0 U	2.0 U	1.0 U	0.24 U
trans-1,3-Dichloropropene	ug/L			5.0 U	2.0 U	1.0 U	0.22 U
Trichloroethene	ug/L	0.28	21	5.0 U	2.0 U	1.0 U	0.31 U
Trichlorofluoromethane (CFC-11)	ug/L	520		5.0 U	2.0 U	1.0 U	0.32 UJ
Trifluorotrchloroethane (CFC-113)	ug/L	1000		5.0 U	2.0 U	1.0 U	0.31 U
Vinyl chloride	ug/L	0.019	930	5.0 U	2.0 U	1.0 U	0.17 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-36D DA-MW36D-W001 09/18/2013	OU-4 MW-36D DA-MW36D-W002 10/14/2015	OU-4 MW-36D WG-17338-110417-DT-025 11/04/2017	OU-4 MW-36D GW-11222397-011023-ZB-02 01/10/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Xylenes (total)	ug/L	19	13	23 ^{ab}	1200 ^{ab}	1.4 J	480 ^{ab}

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-36D DA-MW36D-W001 09/18/2013	OU-4 MW-36D DA-MW36D-W002 10/14/2015	OU-4 MW-36D WG-17338-110417-DT-025 11/04/2017	OU-4 MW-36D GW-11222397-011023-ZB-02 01/10/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Semi-Volatile Organic Compounds							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71		10 U	10 U	10 U	0.63 U
2,4,5-Trichlorophenol	ug/L	120		10 U	10 U	10 U	0.88 U
2,4,6-Trichlorophenol	ug/L	1.2	4.9	10 U	10 U	10 U	0.86 U
2,4-Dichlorophenol	ug/L	4.6	11	10 U	10 U	10 U	1.1 U
2,4-Dimethylphenol	ug/L	36		10 U	10 U	10 U	1.7 J
2,4-Dinitrophenol	ug/L	3.9		31 U	20 U	20 U	2.6 UJ
2,4-Dinitrotoluene	ug/L	0.24	44	2.0 U	2.0 U	2.0 U	1.0 U
2,6-Dinitrotoluene	ug/L	0.049	81	2.0 U	2.0 U	2.0 U	0.83 U
2-Chloronaphthalene	ug/L	75		10 U	10 U	10 U	1.2 U
2-Chlorophenol	ug/L	9.1	24	10 U	10 U	10 U	0.38 U
2-Methylnaphthalene	ug/L	3.6	4.7	3.6 J	150 ^{ab}	10 U	7.3 J ^{ab}
2-Methylphenol	ug/L	93	13	10 U	10 U	10 U	0.67 U
2-Nitroaniline	ug/L	19		20 U	10 U	10 U	0.47 U
2-Nitrophenol	ug/L			10 U	10 U	10 U	0.75 U
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	20 U	10 U	10 U	1.4 U
3-Nitroaniline	ug/L			20 U	10 U	10 U	1.9 U
4,6-Dinitro-2-methylphenol	ug/L	0.15		31 U	20 U	20 U	3.0 UJ
4-Bromophenyl phenyl ether	ug/L			10 U	10 U	10 U	0.75 U
4-Chloro-3-methylphenol	ug/L	140		10 U	10 U	10 U	0.58 U
4-Chloroaniline	ug/L	0.37	232	10 U	10 U	10 U	1.9 U
4-Chlorophenyl phenyl ether	ug/L			10 U	10 U	10 U	1.3 U
4-Methylphenol	ug/L	37	543	10 U	10 U	10 U	0.75 J
4-Nitroaniline	ug/L	3.8		20 U	10 U	10 U	1.2 U
4-Nitrophenol	ug/L			31 U	20 U	20 U	4.0 U
Acenaphthene	ug/L	53	5.8	10 U	2.4 J	10 U	1.1 U
Acenaphthylene	ug/L			10 U	10 U	10 U	0.82 U
Acetophenone	ug/L	190		10 U	26	10 U	2.3 U
Anthracene	ug/L	180	0.012	10 U	10 U	10 U	1.3 U
Atrazine	ug/L	0.3	1.8	10 U	2.0 U	2.0 U	1.3 U
Benzaldehyde	ug/L	19		10 UJ	10 U	10 U	2.1 UJ
Benzo(a)anthracene	ug/L	0.03	0.018	1.0 U	1.0 U	1.0 U	0.59 U
Benzo(a)pyrene	ug/L	0.025	0.015	1.0 U	1.0 U	1.0 U	0.41 U
Benzo(b)fluoranthene	ug/L	0.25		1.0 U	1.0 U	1.0 U	0.68 U
Benzo(g,h,i)perylene	ug/L			10 U	10 U	10 U	0.70 U
Benzo(k)fluoranthene	ug/L	2.5		1.0 U	1.0 U	1.0 U	0.67 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	10 U	12 ^a	0.74 J ^a	1.2 U
bis(2-Chloroethoxy)methane	ug/L	5.9		10 U	10 U	10 U	0.59 U
bis(2-Chloroethyl)ether	ug/L	0.014		1.0 U	1.0 U	1.0 U	0.63 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	10 U	8.3 B ^a	2.0 U	0.80 U
Butyl benzylphthalate (BBP)	ug/L	16	19	10 U	10 U	10 U	0.85 U
Caprolactam	ug/L	990		R	10 U	10 U	2.2 U
Carbazole	ug/L			10 U	10 U	10 U	0.68 U
Chrysene	ug/L	25		10 U	2.0 U	2.0 U	0.91 U
Dibenz(a,h)anthracene	ug/L	0.025		1.0 U	1.0 U	1.0 U	0.72 U
Dibenzofuran	ug/L	0.79	3.7	10 U	3.7 J ^a	10 U	1.1 U
Diethyl phthalate	ug/L	1500	210	10 U	10 U	10 U	0.98 U
Dimethyl phthalate	ug/L			10 U	10 U	10 U	0.77 U
Di-n-butylphthalate (DBP)	ug/L	90	19	10 U	10 U	10 U	0.84 U
Di-n-octyl phthalate (DnOP)	ug/L	20	22	10 U	10 U	10 U	0.75 U
Fluoranthene	ug/L	80	0.04	10 U	10 U	10 U	0.84 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-36D DA-MW36D-W001 09/18/2013	OU-4 MW-36D DA-MW36D-W002 10/14/2015	OU-4 MW-36D WG-17338-110417-DT-025 11/04/2017	OU-4 MW-36D GW-11222397-011023-ZB-02 01/10/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Fluorene	ug/L	29	3	10 U	5.1 J ^b	10 U	0.91 U
Hexachlorobenzene	ug/L	0.0098	0.0003	1.0 U	1.0 U	1.0 U	0.40 U
Hexachlorobutadiene	ug/L	0.14	1.3	2.0 U	1.0 U	1.0 U	0.78 U
Hexachlorocyclopentadiene	ug/L	0.041		10 U	10 U	10 U	3.6 U
Hexachloroethane	ug/L	0.33	12	1.0 U	1.0 U	1.0 U	0.80 U
Indeno(1,2,3-cd)pyrene	ug/L	0.25		1.0 U	1.0 U	1.0 U	0.94 U
Isophorone	ug/L	78		10 U	10 U	10 U	0.80 U
Naphthalene	ug/L	0.12	1.1	22 ^{ab}	180 ^{ab}	10 U	57 ^{ab}
Nitrobenzene	ug/L	0.14		1.0 U	1.0 U	1.0 U	0.57 U
N-Nitrosodi-n-propylamine	ug/L	0.011		1.0 U	1.0 U	1.0 U	0.43 U
N-Nitrosodiphenylamine	ug/L	12	210	10 U	10 U	10 U	0.89 U
Pentachlorophenol	ug/L	0.041	0.5	31 U	20 U	20 U	1.4 U
Phenanthrene	ug/L	12	0.4	10 U	3.5 J ^b	10 U	1.3 U
Phenol	ug/L	580	4	1.5 J	3.4 J	10 U	0.29 U
Pyrene	ug/L	12	0.025	10 U	10 U	10 U	1.6 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-36D DA-MW36D-W001 09/18/2013	OU-4 MW-36D DA-MW36D-W002 10/14/2015	OU-4 MW-36D WG-17338-110417-DT-025 11/04/2017	OU-4 MW-36D GW-11222397-011023-ZB-02 01/10/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Metals							
		a	b				
Aluminum	ug/L	2000	87	-	-	63.2	-
Aluminum (dissolved)	ug/L	2000	87	-	-	-	-
Antimony	ug/L	0.78	30	-	-	2.0 U	-
Antimony (dissolved)	ug/L	0.78	30	-	-	-	-
Arsenic	ug/L	0.052	5	-	-	0.75 J ^a	-
Arsenic (dissolved)	ug/L	0.052	5	-	-	-	-
Barium	ug/L	380	4	-	-	601 ^{ab}	-
Barium (dissolved)	ug/L	380	4	-	-	-	-
Beryllium	ug/L	2.5	0.66	-	-	0.80 U	-
Beryllium (dissolved)	ug/L	2.5	0.66	-	-	-	-
Cadmium	ug/L	0.18	0.25	-	-	2.0 U	-
Cadmium (dissolved)	ug/L	0.18	0.25	-	-	-	-
Calcium	ug/L			-	-	24300	-
Calcium (dissolved)	ug/L			-	-	-	-
Chromium	ug/L	10	85	-	-	4.0 U	-
Chromium (dissolved)	ug/L	10	85	-	-	-	-
Chromium VI (hexavalent)	ug/L	0.035	11	-	-	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-	-	-	-
Cobalt	ug/L	0.6	23	-	-	38.0 ^{ab}	-
Cobalt (dissolved)	ug/L	0.6	23	-	-	-	-
Copper	ug/L	80	9	-	-	4.0 U	-
Copper (dissolved)	ug/L	80	9	-	-	-	-
Iron	ug/L	1400	300	-	-	6760 ^{ab}	-
Iron (dissolved)	ug/L	1400	300	-	-	-	-
Lead	ug/L	15	2.5	-	-	1.2 U	-
Lead (dissolved)	ug/L	15	2.5	-	-	-	-
Magnesium	ug/L			-	-	9590	-
Magnesium (dissolved)	ug/L			-	-	-	-
Manganese	ug/L	43	120	-	-	8480 ^{ab}	-
Manganese (dissolved)	ug/L	43	120	-	-	-	-
Mercury	ug/L	0.063	0.026	-	-	0.20 U	-
Mercury (dissolved)	ug/L	0.063	0.026	-	-	-	-
Nickel	ug/L	39	52	-	-	5.6 U	-
Nickel (dissolved)	ug/L	39	52	-	-	-	-
Potassium	ug/L			-	-	2010	-
Potassium (dissolved)	ug/L			-	-	-	-
Selenium	ug/L	10	1	-	-	10.0 U	-
Selenium (dissolved)	ug/L	10	1	-	-	-	-
Silver	ug/L	9.4	3.2	-	-	2.0 U	-
Silver (dissolved)	ug/L	9.4	3.2	-	-	-	-
Sodium	ug/L			-	-	22900	-
Sodium (dissolved)	ug/L			-	-	-	-
Thallium	ug/L	0.02	0.8	-	-	0.80 U	-
Thallium (dissolved)	ug/L	0.02	0.8	-	-	-	-
Vanadium	ug/L	8.6	20	-	-	4.0 U	-
Vanadium (dissolved)	ug/L	8.6	20	-	-	-	-
Zinc	ug/L	600	120	-	-	16.0 U	-
Zinc (dissolved)	ug/L	600	120	-	-	-	-

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Historical Groundwater Analytical Results
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Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-36D DA-MW36D-W001 09/18/2013	OU-4 MW-36D DA-MW36D-W002 10/14/2015	OU-4 MW-36D WG-17338-110417-DT-025 11/04/2017	OU-4 MW-36D GW-11222397-011023-ZB-02 01/10/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-36S WG-17338-102212-MW36S-MM-265 10/22/2012	OU-4 MW-36S DA-MW36S-W001 09/18/2013
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)		
Volatile Organic Compounds					
1,1,1-Trichloroethane	ug/L	200	11	1.0 U	5.0 U
1,1,2,2-Tetrachloroethane	ug/L	0.076	610	1.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	0.041	1200	1.0 U	5.0 U
1,1-Dichloroethane	ug/L	2.8	47	1.0 U	5.0 U
1,1-Dichloroethene	ug/L	7	25	1.0 U	5.0 U
1,2,4-Trichlorobenzene	ug/L	0.4	24	1.0 U	5.0 U
1,2,4-Trimethylbenzene	ug/L	5.6		550 D ^a	300 ^a
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.00033		1.0 U	5.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075		1.0 U	1.6 J ^a
1,2-Dichlorobenzene	ug/L	30	0.7	1.0 U	5.0 U
1,2-Dichloroethane	ug/L	0.17	100	3.8 ^a	10 ^a
1,2-Dichloropropane	ug/L	0.82		1.0 U	5.0 U
1,3,5-Trimethylbenzene	ug/L	6	71	-	-
1,3-Dichlorobenzene	ug/L			1.0 U	5.0 U
1,4-Dichlorobenzene	ug/L	0.48	26	1.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	17	44
2-Hexanone	ug/L	3.8	99	6.7 ^a	19 J ^a
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	170	16	25 U
Acetone	ug/L	1800	1500	R	25 U
Benzene	ug/L	0.46	370	500 ^{ab}	800 ^{ab}
Bromodichloromethane	ug/L	0.13		1.0 U	5.0 U
Bromoform	ug/L	3.3	320	1.0 U	5.0 U
Bromomethane (Methyl bromide)	ug/L	0.75		1.0 U	5.0 U
Carbon disulfide	ug/L	81	0.92	0.28 J	5.0 U
Carbon tetrachloride	ug/L	0.46	13.3	1.0 U	5.0 U
Chlorobenzene	ug/L	7.8	1.3	1.0 U	5.0 U
Chloroethane	ug/L	830		1.0 U	5.0 U
Chloroform (Trichloromethane)	ug/L	0.22	1.8	10 ^{ab}	7.2 ^{ab}
Chloromethane (Methyl chloride)	ug/L	19		1.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	2.5		1.0 U	5.0 U
cis-1,3-Dichloropropene	ug/L			1.0 U	5.0 U
Cyclohexane	ug/L	1300		280	280
Dibromochloromethane	ug/L	0.87		1.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	20		1.0 U	5.0 U
Ethylbenzene	ug/L	1.5	90	1000 ^{ab}	480 ^{ab}
Isopropyl benzene	ug/L	45	2.6	29 ^b	15 ^b
Methyl acetate	ug/L	2000		2.0 U	25 U
Methyl cyclohexane	ug/L			75	73 J
Methyl tert butyl ether (MTBE)	ug/L	10	11070	0.56 J	5.0 U
Methylene chloride	ug/L	5	98.1	1.0 U	5.0 U
Styrene	ug/L	100	72	17	5.0 U
Tetrachloroethene	ug/L	1	111	1.0 U	5.0 U
Toluene	ug/L	110	2	1600 ^{ab}	440 ^{ab}
trans-1,2-Dichloroethene	ug/L	6.8	970	1.0 U	5.0 U
trans-1,3-Dichloropropene	ug/L			1.0 U	5.0 U
Trichloroethene	ug/L	0.28	21	1.0 U	5.0 U
Trichlorofluoromethane (CFC-11)	ug/L	520		1.0 U	5.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	1000		1.0 U	5.0 U
Vinyl chloride	ug/L	0.019	930	1.0 U	5.0 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-36S WG-17338-102212-MW36S-MM-265 10/22/2012	OU-4 MW-36S DA-MW36S-W001 09/18/2013
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)		
Xylenes (total)	ug/L	19	13	4000 ^{ab}	1700 ^{ab}

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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-36S WG-17338-102212-MW36S-MM-265 10/22/2012	OU-4 MW-36S DA-MW36S-W001 09/18/2013
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)		
Semi-Volatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71		10 U	10 U
2,4,5-Trichlorophenol	ug/L	120		10 U	10 U
2,4,6-Trichlorophenol	ug/L	1.2	4.9	10 U	10 U
2,4-Dichlorophenol	ug/L	4.6	11	10 U	10 U
2,4-Dimethylphenol	ug/L	36		5.0 J	10 U
2,4-Dinitrophenol	ug/L	3.9		31 U	31 U
2,4-Dinitrotoluene	ug/L	0.24	44	2.1 U	2.0 U
2,6-Dinitrotoluene	ug/L	0.049	81	2.1 U	2.0 U
2-Chloronaphthalene	ug/L	75		10 U	10 U
2-Chlorophenol	ug/L	9.1	24	10 U	10 U
2-Methylnaphthalene	ug/L	3.6	4.7	130 ^{ab}	180 ^{ab}
2-Methylphenol	ug/L	93	13	3.2 J	10 U
2-Nitroaniline	ug/L	19		21 U	20 U
2-Nitrophenol	ug/L			10 U	10 U
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	21 U	20 U
3-Nitroaniline	ug/L			21 U	20 U
4,6-Dinitro-2-methylphenol	ug/L	0.15		31 U	31 U
4-Bromophenyl phenyl ether	ug/L			10 U	10 U
4-Chloro-3-methylphenol	ug/L	140		10 U	10 U
4-Chloroaniline	ug/L	0.37	232	10 U	10 U
4-Chlorophenyl phenyl ether	ug/L			10 U	10 U
4-Methylphenol	ug/L	37	543	4.9 J	2.4 J
4-Nitroaniline	ug/L	3.8		21 U	20 U
4-Nitrophenol	ug/L			31 U	31 U
Acenaphthene	ug/L	53	5.8	10 U	10 U
Acenaphthylene	ug/L			10 U	10 U
Acetophenone	ug/L	190		10 U	28
Anthracene	ug/L	180	0.012	10 U	10 U
Atrazine	ug/L	0.3	1.8	10 U	10 U
Benzaldehyde	ug/L	19		10 UJ	10 UJ
Benzo(a)anthracene	ug/L	0.03	0.018	0.052 U	1.0 U
Benzo(a)pyrene	ug/L	0.025	0.015	0.052 U	1.0 U
Benzo(b)fluoranthene	ug/L	0.25		0.052 U	1.0 U
Benzo(g,h,i)perylene	ug/L			10 U	10 U
Benzo(k)fluoranthene	ug/L	2.5		1.0	1.0 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	8.6 J ^a	11 ^a
bis(2-Chloroethoxy)methane	ug/L	5.9		10 U	10 U
bis(2-Chloroethyl)ether	ug/L	0.014		1.0 U	1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	10 U	10 U
Butyl benzylphthalate (BBP)	ug/L	16	19	10 U	10 U
Caprolactam	ug/L	990		10 U	R
Carbazole	ug/L			10 U	10 U
Chrysene	ug/L	25		10 U	10 U
Dibenz(a,h)anthracene	ug/L	0.025		0.30 J ^a	1.0 U
Dibenzofuran	ug/L	0.79	3.7	3.0 J ^a	3.8 J ^{ab}
Diethyl phthalate	ug/L	1500	210	10 U	10 U
Dimethyl phthalate	ug/L			10 U	10 U
Di-n-butylphthalate (DBP)	ug/L	90	19	10 U	10 U
Di-n-octyl phthalate (DnOP)	ug/L	20	22	10 U	10 U
Fluoranthene	ug/L	80	0.04	10 U	10 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-36S WG-17338-102212-MW36S-MM-265 10/22/2012	OU-4 MW-36S DA-MW36S-W001 09/18/2013
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)		
Fluorene	ug/L	29	3	3.3 J ^b	4.0 J ^b
Hexachlorobenzene	ug/L	0.0098	0.0003	0.021 U	1.0 U
Hexachlorobutadiene	ug/L	0.14	1.3	2.1 U	2.0 U
Hexachlorocyclopentadiene	ug/L	0.041		10 U	10 U
Hexachloroethane	ug/L	0.33	12	1.0 U	1.0 U
Indeno(1,2,3-cd)pyrene	ug/L	0.25		0.58 J ^a	1.0 U
Isophorone	ug/L	78		10 U	10 U
Naphthalene	ug/L	0.12	1.1	270 ^{ab}	240 ^{ab}
Nitrobenzene	ug/L	0.14		1.0 U	1.0 UJ
N-Nitrosodi-n-propylamine	ug/L	0.011		1.0 U	1.0 U
N-Nitrosodiphenylamine	ug/L	12	210	10 U	10 U
Pentachlorophenol	ug/L	0.041	0.5	0.21 U	31 U
Phenanthrene	ug/L	12	0.4	10 U	3.4 J ^b
Phenol	ug/L	580	4	10 U	10 U
Pyrene	ug/L	12	0.025	10 U	10 U

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Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-36S WG-17338-102212-MW36S-MM-265 10/22/2012	OU-4 MW-36S DA-MW36S-W001 09/18/2013
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)		
Metals					
		a	b		
Aluminum	ug/L	2000	87	3140 ^{ab}	-
Aluminum (dissolved)	ug/L	2000	87	200 U	-
Antimony	ug/L	0.78	30	10.0 U	-
Antimony (dissolved)	ug/L	0.78	30	10.0 U	-
Arsenic	ug/L	0.052	5	4.4 J ^a	-
Arsenic (dissolved)	ug/L	0.052	5	5.0 U	-
Barium	ug/L	380	4	278 ^b	-
Barium (dissolved)	ug/L	380	4	227 ^b	-
Beryllium	ug/L	2.5	0.66	2.0 U	-
Beryllium (dissolved)	ug/L	2.5	0.66	2.0 U	-
Cadmium	ug/L	0.18	0.25	5.0 U	-
Cadmium (dissolved)	ug/L	0.18	0.25	5.0 U	-
Calcium	ug/L			24500	-
Calcium (dissolved)	ug/L			23500	-
Chromium	ug/L	10	85	10.0 U	-
Chromium (dissolved)	ug/L	10	85	10.0 U	-
Chromium VI (hexavalent)	ug/L	0.035	11	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-	-
Cobalt	ug/L	0.6	23	139 ^{ab}	-
Cobalt (dissolved)	ug/L	0.6	23	124 ^{ab}	-
Copper	ug/L	80	9	25.0 U	-
Copper (dissolved)	ug/L	80	9	25.0 U	-
Iron	ug/L	1400	300	66200 ^{ab}	-
Iron (dissolved)	ug/L	1400	300	2390 ^{ab}	-
Lead	ug/L	15	2.5	5.0 U	-
Lead (dissolved)	ug/L	15	2.5	5.0 U	-
Magnesium	ug/L			16600	-
Magnesium (dissolved)	ug/L			16000	-
Manganese	ug/L	43	120	29300 ^{ab}	-
Manganese (dissolved)	ug/L	43	120	29100 ^{ab}	-
Mercury	ug/L	0.063	0.026	0.20 U	-
Mercury (dissolved)	ug/L	0.063	0.026	0.20 U	-
Nickel	ug/L	39	52	40.0 U	-
Nickel (dissolved)	ug/L	39	52	40.0 U	-
Potassium	ug/L			2460 J	-
Potassium (dissolved)	ug/L			2500 J	-
Selenium	ug/L	10	1	10.0 U	-
Selenium (dissolved)	ug/L	10	1	30.0 U	-
Silver	ug/L	9.4	3.2	7.0 J ^b	-
Silver (dissolved)	ug/L	9.4	3.2	6.6 J ^b	-
Sodium	ug/L			43900	-
Sodium (dissolved)	ug/L			42400	-
Thallium	ug/L	0.02	0.8	27.4 J ^{ab}	-
Thallium (dissolved)	ug/L	0.02	0.8	30.0 U	-
Vanadium	ug/L	8.6	20	7.3 J	-
Vanadium (dissolved)	ug/L	8.6	20	50.0 U	-
Zinc	ug/L	600	120	30.0 U	-
Zinc (dissolved)	ug/L	600	120	30.0 U	-

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-36S WG-17338-102212-MW36S-MM-265 10/22/2012	OU-4 MW-36S DA-MW36S-W001 09/18/2013
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)		

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-36S DA-MW36S-W101 09/18/2013 (Duplicate)	OU-4 MW-36S DA-MW36S-W002 10/14/2015	OU-4 MW-36S WG-17338-110417-DT-023 11/04/2017	OU-4 MW-36S DA-MW36S-W003 08/28/2018	OU-4 MW-36S GW-11222397-011023-MA-03 01/10/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	ug/L	200	11	5.0 U	2.0 U	2.0 U	1.0 U	0.24 U
1,1,2,2-Tetrachloroethane	ug/L	0.076	610	5.0 U	2.0 U	2.0 U	1.0 U	0.37 U
1,1,2-Trichloroethane	ug/L	0.041	1200	5.0 U	2.0 U	2.0 U	1.0 U	0.20 U
1,1-Dichloroethane	ug/L	2.8	47	5.0 U	2.0 U	2.0 U	1.0 U	0.26 U
1,1-Dichloroethene	ug/L	7	25	5.0 U	2.0 U	2.0 U	1.0 U	0.26 U
1,2,4-Trichlorobenzene	ug/L	0.4	24	5.0 U	2.0 U	2.0 U	1.0 U	0.37 U
1,2,4-Trimethylbenzene	ug/L	5.6		280 ^a	2.3	270 ^a	53 ^a	160 ^a
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.00033		5.0 U	2.0 U	2.0 U	1.0 U	0.38 UJ
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075		1.8 J ^a	2.0 U	2.0 U	1.0 U	0.50 U
1,2-Dichlorobenzene	ug/L	30	0.7	5.0 U	2.0 U	2.0 U	1.0 U	0.21 U
1,2-Dichloroethane	ug/L	0.17	100	11 ^a	15 ^a	30 ^a	1.0 U	0.43 U
1,2-Dichloropropane	ug/L	0.82		5.0 U	2.0 U	2.0 U	1.0 U	0.35 U
1,3,5-Trimethylbenzene	ug/L	6	71	-	-	-	18 ^a	-
1,3-Dichlorobenzene	ug/L			5.0 U	2.0 U	2.0 U	1.0 U	0.34 U
1,4-Dichlorobenzene	ug/L	0.48	26	5.0 U	2.0 U	2.0 U	1.0 U	0.33 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	79	10 U	20	14	7.9
2-Hexanone	ug/L	3.8	99	25 U	10 U	10 U	23 ^a	1.1 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	170	25 U	10 U	17	30	1.3 U
Acetone	ug/L	1800	1500	25 U	10 U	58	28	15
Benzene	ug/L	0.46	370	860 ^{ab}	500 ^{ab}	750 ^{ab}	52 ^a	140 ^a
Bromodichloromethane	ug/L	0.13		5.0 U	2.0 U	2.0 U	1.0 U	0.34 U
Bromoform	ug/L	3.3	320	5.0 U	2.0 U	2.0 U	1.0 U	0.54 U
Bromomethane (Methyl bromide)	ug/L	0.75		5.0 U	2.0 U	2.0 UJ	1.0 U	0.55 U
Carbon disulfide	ug/L	81	0.92	5.0 U	2.0 U	2.0 U	1.0 U	0.82 U
Carbon tetrachloride	ug/L	0.46	13.3	5.0 U	2.0 U	2.0 U	1.0 U	0.21 U
Chlorobenzene	ug/L	7.8	1.3	5.0 U	2.0 U	2.0 U	1.0 U	0.38 U
Chloroethane	ug/L	830		5.0 U	2.0 U	2.0 U	1.0 U	0.32 U
Chloroform (Trichloromethane)	ug/L	0.22	1.8	7.9 ^{ab}	2.0 U	2.0 U	1.0 U	0.33 U
Chloromethane (Methyl chloride)	ug/L	19		5.0 U	2.0 U	2.0 U	1.0 U	0.40 U
cis-1,2-Dichloroethene	ug/L	2.5		5.0 U	2.0 U	2.0 U	1.0 U	0.22 U
cis-1,3-Dichloropropene	ug/L			5.0 U	2.0 U	2.0 U	1.0 U	0.22 U
Cyclohexane	ug/L	1300		250	39	250	33	110
Dibromochloromethane	ug/L	0.87		5.0 U	2.0 U	2.0 U	1.0 U	0.28 U
Dichlorodifluoromethane (CFC-12)	ug/L	20		5.0 U	2.0 U	2.0 U	1.0 U	0.31 U
Ethylbenzene	ug/L	1.5	90	460 ^{ab}	3.5 ^a	510 ^{ab}	70 ^a	340 ^{ab}
Isopropyl benzene	ug/L	45	2.6	14 ^b	14 ^b	16 ^b	2.9 ^b	11 ^b
Methyl acetate	ug/L	2000		25 U	10 U	10 U	5.0 U	0.79 U
Methyl cyclohexane	ug/L			68 J	16	87	14	36
Methyl tert butyl ether (MTBE)	ug/L	10	11070	5.0 U	2.0 U	2.0 U	1.0 U	0.28 J
Methylene chloride	ug/L	5	98.1	5.0 U	2.0 U	2.0 U	1.0 U	0.32 U
Styrene	ug/L	100	72	5.0 U	2.0 U	2.0 U	1.0 U	0.42 U
Tetrachloroethene	ug/L	1	111	5.0 U	2.0 U	2.0 U	1.0 U	0.25 U
Toluene	ug/L	110	2	360 ^{ab}	2.7 ^b	78 ^b	9.9 ^b	49 ^b
trans-1,2-Dichloroethene	ug/L	6.8	970	5.0 U	2.0 U	2.0 U	1.0 U	0.24 U
trans-1,3-Dichloropropene	ug/L			5.0 U	2.0 U	2.0 U	1.0 U	0.22 U
Trichloroethene	ug/L	0.28	21	5.0 U	2.0 U	2.0 U	1.0 U	0.31 U
Trichlorofluoromethane (CFC-11)	ug/L	520		5.0 U	2.0 U	2.0 U	1.0 U	0.32 UJ
Trifluorotrichloroethane (CFC-113)	ug/L	1000		5.0 U	2.0 U	2.0 U	1.0 U	0.31 U
Vinyl chloride	ug/L	0.019	930	5.0 U	2.0 U	2.0 U	1.0 U	0.17 U

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-36S DA-MW36S-W101 09/18/2013 (Duplicate)	OU-4 MW-36S DA-MW36S-W002 10/14/2015	OU-4 MW-36S WG-17338-110417-DT-023 11/04/2017	OU-4 MW-36S DA-MW36S-W003 08/28/2018	OU-4 MW-36S GW-11222397-011023-MA-03 01/10/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Xylenes (total)	ug/L	19	13	1500 ^{ab}	10	780 ^{ab}	190 ^{ab}	480 ^{ab}

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-36S DA-MW36S-W101 09/18/2013 (Duplicate)	OU-4 MW-36S DA-MW36S-W002 10/14/2015	OU-4 MW-36S WG-17338-110417-DT-023 11/04/2017	OU-4 MW-36S DA-MW36S-W003 08/28/2018	OU-4 MW-36S GW-11222397-011023-MA-03 01/10/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Semi-Volatile Organic Compounds								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71		10 U	10 U	20 U	10 U	0.63 U
2,4,5-Trichlorophenol	ug/L	120		10 U	10 U	20 U	10 U	0.88 U
2,4,6-Trichlorophenol	ug/L	1.2	4.9	10 U	10 U	20 U	10 U	0.86 U
2,4-Dichlorophenol	ug/L	4.6	11	10 U	10 U	20 U	10 U	1.1 U
2,4-Dimethylphenol	ug/L	36		10 U	10 U	33	10 U	19
2,4-Dinitrophenol	ug/L	3.9		31 U	20 U	40 U	20 U	2.6 UJ
2,4-Dinitrotoluene	ug/L	0.24	44	2.0 U	2.0 U	4.0 U	2.0 U	1.0 U
2,6-Dinitrotoluene	ug/L	0.049	81	2.0 U	2.0 U	4.0 U	2.0 U	0.83 U
2-Chloronaphthalene	ug/L	75		10 U	10 U	20 U	10 U	1.2 U
2-Chlorophenol	ug/L	9.1	24	10 U	10 U	20 U	10 U	0.38 U
2-Methylnaphthalene	ug/L	3.6	4.7	170 ^{ab}	10 U	120 ^{ab}	9.2 J ^{ab}	64 ^{ab}
2-Methylphenol	ug/L	93	13	10 U	10 U	18 J ^b	2.7 J	9.6 J
2-Nitroaniline	ug/L	19		20 U	10 U	20 U	10 U	0.47 U
2-Nitrophenol	ug/L			10 U	10 U	20 U	10 U	0.75 U
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	20 U	10 U	20 U	10 U	1.4 U
3-Nitroaniline	ug/L			20 U	10 U	20 U	10 U	1.9 U
4,6-Dinitro-2-methylphenol	ug/L	0.15		31 U	20 U	40 U	20 U	3.0 UJ
4-Bromophenyl phenyl ether	ug/L			10 U	10 U	20 U	10 U	0.75 U
4-Chloro-3-methylphenol	ug/L	140		10 U	10 U	20 U	10 U	0.58 U
4-Chloroaniline	ug/L	0.37	232	10 U	10 U	20 U	10 U	1.9 U
4-Chlorophenyl phenyl ether	ug/L			10 U	10 U	20 U	10 U	1.3 U
4-Methylphenol	ug/L	37	543	2.4 J	10 U	10 J	38 ^a	0.65 U
4-Nitroaniline	ug/L	3.8		20 U	10 U	20 U	10 U	1.2 U
4-Nitrophenol	ug/L			31 U	20 U	40 U	20 U	4.0 U
Acenaphthene	ug/L	53	5.8	10 U	10 U	2.6 J	10 U	1.1 U
Acenaphthylene	ug/L			10 U	10 U	20 U	10 U	0.82 U
Acetophenone	ug/L	190		10 U	10 U	48	6.5 J	2.3 U
Anthracene	ug/L	180	0.012	10 U	10 U	20 U	10 U	1.3 U
Atrazine	ug/L	0.3	1.8	10 U	2.0 U	4.0 U	2.0 U	1.3 U
Benzaldehyde	ug/L	19		10 UJ	10 U	20 U	10 U	2.1 UJ
Benzo(a)anthracene	ug/L	0.03	0.018	1.0 U	1.0 U	2.0 U	1.0 U	0.59 U
Benzo(a)pyrene	ug/L	0.025	0.015	1.0 U	1.0 U	2.0 U	1.0 U	0.41 U
Benzo(b)fluoranthene	ug/L	0.25		1.0 U	1.0 U	2.0 U	2.0 U	0.68 U
Benzo(g,h,i)perylene	ug/L			10 U	10 U	20 U	10 U	0.70 U
Benzo(k)fluoranthene	ug/L	2.5		1.0 U	1.0 U	2.0 U	1.0 U	0.67 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	10 ^a	10 U	10 J ^a	10 U	5.0 J ^a
bis(2-Chloroethoxy)methane	ug/L	5.9		10 U	10 U	20 U	10 U	0.59 U
bis(2-Chloroethyl)ether	ug/L	0.014		1.0 U	1.0 U	2.0 U	1.0 U	0.63 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	10 U	8.7 B ^a	4.0 U	2.0 U	0.80 U
Butyl benzylphthalate (BBP)	ug/L	16	19	10 U	10 U	20 U	10 U	0.85 U
Caprolactam	ug/L	990		R	10 U	20 U	120	2.2 U
Carbazole	ug/L			10 U	10 U	20 U	10 U	0.68 U
Chrysene	ug/L	25		10 U	2.0 U	4.0 U	2.0 U	0.91 U
Dibenz(a,h)anthracene	ug/L	0.025		1.0 U	1.0 U	2.0 U	1.0 U	0.72 U
Dibenzofuran	ug/L	0.79	3.7	3.6 J ^a	10 U	3.6 J ^a	10 U	1.8 J ^a
Diethyl phthalate	ug/L	1500	210	10 U	10 U	20 U	10 U	0.98 U
Dimethyl phthalate	ug/L			10 U	10 U	20 U	10 U	0.77 U
Di-n-butylphthalate (DBP)	ug/L	90	19	10 U	10 U	20 U	10 U	0.84 U
Di-n-octyl phthalate (DnOP)	ug/L	20	22	10 U	10 U	20 U	10 U	0.75 U
Fluoranthene	ug/L	80	0.04	10 U	10 U	20 U	10 U	0.84 U

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-36S DA-MW36S-W101 09/18/2013 (Duplicate)	OU-4 MW-36S DA-MW36S-W002 10/14/2015	OU-4 MW-36S WG-17338-110417-DT-023 11/04/2017	OU-4 MW-36S DA-MW36S-W003 08/28/2018	OU-4 MW-36S GW-11222397-011023-MA-03 01/10/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Fluorene	ug/L	29	3	3.6 J ^b	10 U	5.3 J ^b	10 U	2.2 J
Hexachlorobenzene	ug/L	0.0098	0.0003	1.0 U	1.0 U	2.0 U	1.0 U	0.40 U
Hexachlorobutadiene	ug/L	0.14	1.3	2.0 U	1.0 U	2.0 U	1.0 U	0.78 U
Hexachlorocyclopentadiene	ug/L	0.041		10 U	10 U	20 U	10 U*	3.6 U
Hexachloroethane	ug/L	0.33	12	1.0 U	1.0 U	2.0 U	2.0 U	0.80 U
Indeno(1,2,3-cd)pyrene	ug/L	0.25		1.0 U	1.0 U	2.0 U	2.0 U	0.94 U
Isophorone	ug/L	78		10 U	10 U	20 U	10 U	0.80 U
Naphthalene	ug/L	0.12	1.1	240 ^{ab}	10 ^{ab}	180 ^{ab}	12 ^{ab}	92 ^{ab}
Nitrobenzene	ug/L	0.14		1.0 UJ	1.0 U	2.0 U	1.0 U	0.57 U
N-Nitrosodi-n-propylamine	ug/L	0.011		1.0 U	1.0 U	2.0 U	1.0 U	0.43 U
N-Nitrosodiphenylamine	ug/L	12	210	10 U	10 U	20 U	10 U	0.89 U
Pentachlorophenol	ug/L	0.041	0.5	31 U	20 U	40 U	20 U	1.4 U
Phenanthrene	ug/L	12	0.4	3.3 J ^b	10 U	3.1 J ^b	10 U	1.6 J ^b
Phenol	ug/L	580	4	10 U	10 U	20 U	3.7 J	0.29 U
Pyrene	ug/L	12	0.025	10 U	10 U	20 U	10 U	1.6 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-36S DA-MW36S-W101 09/18/2013 (Duplicate)	OU-4 MW-36S DA-MW36S-W002 10/14/2015	OU-4 MW-36S WG-17338-110417-DT-023 11/04/2017	OU-4 MW-36S DA-MW36S-W003 08/28/2018	OU-4 MW-36S GW-11222397-011023-MA-03 01/10/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Metals								
Aluminum	ug/L	2000	87	-	-	34.3 J	-	-
Aluminum (dissolved)	ug/L	2000	87	-	-	-	-	-
Antimony	ug/L	0.78	30	-	-	0.65 J	-	-
Antimony (dissolved)	ug/L	0.78	30	-	-	-	-	-
Arsenic	ug/L	0.052	5	-	-	2.4 ^a	-	-
Arsenic (dissolved)	ug/L	0.052	5	-	-	-	-	-
Barium	ug/L	380	4	-	-	324 ^b	-	-
Barium (dissolved)	ug/L	380	4	-	-	-	-	-
Beryllium	ug/L	2.5	0.66	-	-	0.80 U	-	-
Beryllium (dissolved)	ug/L	2.5	0.66	-	-	-	-	-
Cadmium	ug/L	0.18	0.25	-	-	2.0 U	-	-
Cadmium (dissolved)	ug/L	0.18	0.25	-	-	-	-	-
Calcium	ug/L			-	-	22900	-	-
Calcium (dissolved)	ug/L			-	-	-	-	-
Chromium	ug/L	10	85	-	-	4.0 U	-	-
Chromium (dissolved)	ug/L	10	85	-	-	-	-	-
Chromium VI (hexavalent)	ug/L	0.035	11	-	-	-	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-	-	-	-	-
Cobalt	ug/L	0.6	23	-	-	111 ^{ab}	-	-
Cobalt (dissolved)	ug/L	0.6	23	-	-	-	-	-
Copper	ug/L	80	9	-	-	71.3 U	-	-
Copper (dissolved)	ug/L	80	9	-	-	-	-	-
Iron	ug/L	1400	300	-	-	89300 ^{ab}	-	-
Iron (dissolved)	ug/L	1400	300	-	-	-	-	-
Lead	ug/L	15	2.5	-	-	0.86 J	-	-
Lead (dissolved)	ug/L	15	2.5	-	-	-	-	-
Magnesium	ug/L			-	-	19700	-	-
Magnesium (dissolved)	ug/L			-	-	-	-	-
Manganese	ug/L	43	120	-	-	32400 ^{ab}	-	-
Manganese (dissolved)	ug/L	43	120	-	-	-	-	-
Mercury	ug/L	0.063	0.026	-	-	0.20 U	-	-
Mercury (dissolved)	ug/L	0.063	0.026	-	-	-	-	-
Nickel	ug/L	39	52	-	-	5.6 U	-	-
Nickel (dissolved)	ug/L	39	52	-	-	-	-	-
Potassium	ug/L			-	-	1820	-	-
Potassium (dissolved)	ug/L			-	-	-	-	-
Selenium	ug/L	10	1	-	-	1.2 J ^b	-	-
Selenium (dissolved)	ug/L	10	1	-	-	-	-	-
Silver	ug/L	9.4	3.2	-	-	2.0 U	-	-
Silver (dissolved)	ug/L	9.4	3.2	-	-	-	-	-
Sodium	ug/L			-	-	62600	-	-
Sodium (dissolved)	ug/L			-	-	-	-	-
Thallium	ug/L	0.02	0.8	-	-	0.80 U	-	-
Thallium (dissolved)	ug/L	0.02	0.8	-	-	-	-	-
Vanadium	ug/L	8.6	20	-	-	4.0 U	-	-
Vanadium (dissolved)	ug/L	8.6	20	-	-	-	-	-
Zinc	ug/L	600	120	-	-	16.0 U	-	-
Zinc (dissolved)	ug/L	600	120	-	-	-	-	-

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-36S DA-MW36S-W101 09/18/2013 (Duplicate)	OU-4 MW-36S DA-MW36S-W002 10/14/2015	OU-4 MW-36S WG-17338-110417-DT-023 11/04/2017	OU-4 MW-36S DA-MW36S-W003 08/28/2018	OU-4 MW-36S GW-11222397-011023-MA-03 01/10/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-36S GW-11222397-011023-MA-04 01/10/2023 (Duplicate)	OU-4 MW-50 DA-MW50-W001 10/14/2015	OU-4 MW-50 WG-17338-110717-DT-051 11/07/2017	OU-4 MW-50 WG-17338-110717-DT-054 11/07/2017 (Duplicate)	OU-4 MW-50 DA-MW50-W002 08/28/2018
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	ug/L	200	11	-	5.0 U	5.0 U	10 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	0.076	610	-	5.0 U	5.0 U	10 U	1.0 U
1,1,2-Trichloroethane	ug/L	0.041	1200	-	5.0 U	5.0 U	10 U	1.0 U
1,1-Dichloroethane	ug/L	2.8	47	-	5.0 U	5.0 U	10 U	1.0 U
1,1-Dichloroethene	ug/L	7	25	-	5.0 U	5.0 U	10 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	0.4	24	-	5.0 U	5.0 U	10 U	1.0 U
1,2,4-Trimethylbenzene	ug/L	5.6	-	-	65 ^a	130 ^a	140 ^a	23 ^a
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.00033	-	-	5.0 U	5.0 U	10 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	-	-	5.0 U	5.0 U	10 U	1.0 U
1,2-Dichlorobenzene	ug/L	30	0.7	-	1.2 J ^b	5.0 U	10 U	1.4 ^b
1,2-Dichloroethane	ug/L	0.17	100	-	3.3 J ^a	24 ^a	27 ^a	1.0 U
1,2-Dichloropropane	ug/L	0.82	-	-	5.0 U	5.0 U	10 U	1.0 U
1,3,5-Trimethylbenzene	ug/L	6	71	-	-	-	-	18 ^a
1,3-Dichlorobenzene	ug/L	-	-	-	5.0 U	5.0 U	10 U	0.78 J
1,4-Dichlorobenzene	ug/L	0.48	26	-	5.0 U	5.0 U	10 U	1.1 ^a
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	-	25 U	25 U	50 U	5.0 U
2-Hexanone	ug/L	3.8	99	-	25 U	25 U	50 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	170	-	25 U	25 U	50 U	5.0 U
Acetone	ug/L	1800	1500	-	25 U	25 U	50 U	5.0 U
Benzene	ug/L	0.46	370	-	110 ^a	450 ^{ab}	420 ^{ab}	84 ^a
Bromodichloromethane	ug/L	0.13	-	-	5.0 U	5.0 U	10 U	1.0 U
Bromoform	ug/L	3.3	320	-	5.0 U	5.0 U	10 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	0.75	-	-	5.0 U	5.0 UJ	10 U	1.0 U
Carbon disulfide	ug/L	81	0.92	-	5.0 U	5.0 U	10 U	1.0 U
Carbon tetrachloride	ug/L	0.46	13.3	-	5.0 U	5.0 U	10 U	1.0 U
Chlorobenzene	ug/L	7.8	1.3	-	5.0 U	5.0 U	10 U	1.0 U
Chloroethane	ug/L	830	-	-	5.0 U	5.0 U	10 U	1.0 U
Chloroform (Trichloromethane)	ug/L	0.22	1.8	-	5.0 U	5.0 U	10 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	19	-	-	5.0 U	5.0 U	10 U	1.0 U
cis-1,2-Dichloroethene	ug/L	2.5	-	-	5.0 U	5.0 U	10 U	1.0 U
cis-1,3-Dichloropropene	ug/L	-	-	-	5.0 U	5.0 U	10 U	1.0 U
Cyclohexane	ug/L	1300	-	-	270	340	330	160
Dibromochloromethane	ug/L	0.87	-	-	5.0 U	5.0 U	10 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	20	-	-	5.0 U	5.0 U	10 U	1.0 U
Ethylbenzene	ug/L	1.5	90	-	640 ^{ab}	690 ^{ab}	720 ^{ab}	230 ^{ab}
Isopropyl benzene	ug/L	45	2.6	-	37 ^b	51 ^{ab}	47 ^{ab}	30 ^b
Methyl acetate	ug/L	2000	-	-	25 U	25 U	50 U	5.0 U
Methyl cyclohexane	ug/L	-	-	-	100	130	150	61
Methyl tert butyl ether (MTBE)	ug/L	10	11070	-	5.0 U	5.0 U	10 U	1.0 U
Methylene chloride	ug/L	5	98.1	-	5.0 U	5.0 U	10 U	1.0 U
Styrene	ug/L	100	72	-	13	5.0 U	10 U	1.0 U
Tetrachloroethene	ug/L	1	111	-	5.0 U	5.0 U	10 U	1.0 U
Toluene	ug/L	110	2	-	760 ^{ab}	630 ^{ab}	680 ^{ab}	110 ^b
trans-1,2-Dichloroethene	ug/L	6.8	970	-	5.0 U	5.0 U	10 U	1.0 U
trans-1,3-Dichloropropene	ug/L	-	-	-	5.0 U	5.0 U	10 U	1.0 U
Trichloroethene	ug/L	0.28	21	-	5.0 U	5.0 U	10 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	520	-	-	5.0 U	5.0 U	10 U	1.0 U
Trifluorotrchloroethane (CFC-113)	ug/L	1000	-	-	5.0 U	5.0 U	10 U	1.0 U
Vinyl chloride	ug/L	0.019	930	-	5.0 U	5.0 U	10 U	1.0 U

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-36S GW-11222397-011023-MA-04 01/10/2023 (Duplicate)	OU-4 MW-50 DA-MW50-W001 10/14/2015	OU-4 MW-50 WG-17338-110717-DT-051 11/07/2017	OU-4 MW-50 WG-17338-110717-DT-054 11/07/2017 (Duplicate)	OU-4 MW-50 DA-MW50-W002 08/28/2018
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Xylenes (total)	ug/L	19	13	-	1200 ^{ab}	1700 ^{ab}	1800 ^{ab}	310 ^{ab}

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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-36S GW-11222397-011023-MA-04 01/10/2023 (Duplicate)	OU-4 MW-50 DA-MW50-W001 10/14/2015	OU-4 MW-50 WG-17338-110717-DT-051 11/07/2017	OU-4 MW-50 WG-17338-110717-DT-054 11/07/2017 (Duplicate)	OU-4 MW-50 DA-MW50-W002 08/28/2018
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Semi-Volatile Organic Compounds								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71		0.63 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	ug/L	120		0.88 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	ug/L	1.2	4.9	0.86 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	ug/L	4.6	11	1.1 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	ug/L	36		16	4.5 J	20	21	5.2 J
2,4-Dinitrophenol	ug/L	3.9		2.6 UJ	20 U	20 U	20 U	20 U
2,4-Dinitrotoluene	ug/L	0.24	44	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2,6-Dinitrotoluene	ug/L	0.049	81	0.83 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Chloronaphthalene	ug/L	75		1.2 U	10 U	10 U	10 U	10 U
2-Chlorophenol	ug/L	9.1	24	0.38 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	ug/L	3.6	4.7	63 ^{ab}	100 ^{ab}	89 J ^{ab}	100 J ^{ab}	87 ^{ab}
2-Methylphenol	ug/L	93	13	7.8 J	2.6 J	6.4 J	6.7 J	2.1 J
2-Nitroaniline	ug/L	19		0.47 U	10 U	10 U	10 U	10 U
2-Nitrophenol	ug/L			0.75 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	1.4 U	10 U	10 U	10 U	10 U
3-Nitroaniline	ug/L			1.9 U	10 U	10 U	10 U	10 U
4,6-Dinitro-2-methylphenol	ug/L	0.15		3.0 UJ	20 U	20 U	20 U	20 U
4-Bromophenyl phenyl ether	ug/L			0.75 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	ug/L	140		0.58 U	10 U	10 U	10 U	10 U
4-Chloroaniline	ug/L	0.37	232	1.9 U	10 U	10 U	10 U	10 U
4-Chlorophenyl phenyl ether	ug/L			1.3 U	10 U	10 U	10 U	10 U
4-Methylphenol	ug/L	37	543	0.65 U	3.9 J	5.0 J	10 U	1.7 J
4-Nitroaniline	ug/L	3.8		1.2 U	10 U	10 U	10 U	10 U
4-Nitrophenol	ug/L			4.0 U	20 U	20 U	20 U	20 U
Acenaphthene	ug/L	53	5.8	1.3 J	2.1 J	3.3 J	10 U	2.7 J
Acenaphthylene	ug/L			0.82 U	10 U	10 U	10 U	10 U
Acetophenone	ug/L	190		2.3 U	25	37	39	10 U
Anthracene	ug/L	180	0.012	1.3 U	10 U	10 UJ	10 UJ	10 U
Atrazine	ug/L	0.3	1.8	1.3 U	2.0 U	2.0 U	2.0 U	2.0 U
Benzaldehyde	ug/L	19		2.1 UJ	10 U	10 U	10 U	10 U
Benzo(a)anthracene	ug/L	0.03	0.018	0.59 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzo(a)pyrene	ug/L	0.025	0.015	0.41 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzo(b)fluoranthene	ug/L	0.25		0.68 U	1.0 U	1.0 U	1.0 U	2.0 U
Benzo(g,h,i)perylene	ug/L			0.70 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	ug/L	2.5		0.67 U	1.0 U	1.0 U	1.0 U	1.0 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	4.6 J ^a	2.2 J ^a	2.0 J ^a	2.1 J ^a	10 U
bis(2-Chloroethoxy)methane	ug/L	5.9		0.59 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	ug/L	0.014		0.63 U	1.0 U	1.0 U	1.0 U	1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	0.80 U	7.2 B ^a	2.0 U	2.0 U	2.0 U
Butyl benzylphthalate (BBP)	ug/L	16	19	0.85 U	10 U	10 U	10 U	10 U
Caprolactam	ug/L	990		2.2 U	10 U	10 U	10 U	10 U
Carbazole	ug/L			0.68 U	10 U	1.5 J	1.8 J	1.6 J
Chrysene	ug/L	25		0.91 U	2.0 U	2.0 U	2.0 U	2.0 U
Dibenz(a,h)anthracene	ug/L	0.025		0.72 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibenzofuran	ug/L	0.79	3.7	1.9 J ^a	1.6 J ^a	2.6 J ^a	2.9 J ^a	1.7 J ^a
Diethyl phthalate	ug/L	1500	210	0.98 U	10 U	10 U	10 U	10 U
Dimethyl phthalate	ug/L			0.77 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate (DBP)	ug/L	90	19	0.84 U	10 U	10 U	10 U	10 U
Di-n-octyl phthalate (DnOP)	ug/L	20	22	0.75 U	10 U	10 U	10 U	10 U
Fluoranthene	ug/L	80	0.04	0.84 U	10 U	10 U	10 U	10 U

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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-36S GW-11222397-011023-MA-04 01/10/2023 (Duplicate)	OU-4 MW-50 DA-MW50-W001 10/14/2015	OU-4 MW-50 WG-17338-110717-DT-051 11/07/2017	OU-4 MW-50 WG-17338-110717-DT-054 11/07/2017 (Duplicate)	OU-4 MW-50 DA-MW50-W002 08/28/2018
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Fluorene	ug/L	29	3	2.2 J	2.8 J	5.4 J ^b	6.2 J ^b	3.2 J ^b
Hexachlorobenzene	ug/L	0.0098	0.0003	0.40 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobutadiene	ug/L	0.14	1.3	0.78 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorocyclopentadiene	ug/L	0.041		3.6 U	10 U	10 U	10 U	10 U*
Hexachloroethane	ug/L	0.33	12	0.80 U	1.0 U	1.0 U	1.0 U	2.0 U
Indeno(1,2,3-cd)pyrene	ug/L	0.25		0.94 U	1.0 U	1.0 U	1.0 U	2.0 U
Isophorone	ug/L	78		0.80 U	10 U	10 U	10 U	10 U
Naphthalene	ug/L	0.12	1.1	91 ^{ab}	180 ^{ab}	130 J ^{ab}	140 J ^{ab}	100 ^{ab}
Nitrobenzene	ug/L	0.14		0.57 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U
N-Nitrosodi-n-propylamine	ug/L	0.011		0.43 U	1.0 U	1.0 U	1.0 U	1.0 U
N-Nitrosodiphenylamine	ug/L	12	210	0.89 U	10 U	10 U	10 U	10 U
Pentachlorophenol	ug/L	0.041	0.5	1.4 U	20 U	20 U	20 U	20 U
Phenanthrene	ug/L	12	0.4	1.5 J ^b	4.1 J ^b	9.3 J ^b	9.9 J ^b	3.2 J ^b
Phenol	ug/L	580	4	0.29 U	10 U	10 U	10 U	10 U
Pyrene	ug/L	12	0.025	1.6 U	10 U	10 U	10 U	10 U

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Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					
Metals								
Aluminum	ug/L	2000	87	-	-	196 ^b	233 ^b	-
Aluminum (dissolved)	ug/L	2000	87	-	-	-	-	-
Antimony	ug/L	0.78	30	-	-	2.0 U	0.62 J	-
Antimony (dissolved)	ug/L	0.78	30	-	-	-	-	-
Arsenic	ug/L	0.052	5	-	-	3.4 ^a	3.4 ^a	-
Arsenic (dissolved)	ug/L	0.052	5	-	-	-	-	-
Barium	ug/L	380	4	-	-	249 ^b	253 ^b	-
Barium (dissolved)	ug/L	380	4	-	-	-	-	-
Beryllium	ug/L	2.5	0.66	-	-	0.80 U	0.80 U	-
Beryllium (dissolved)	ug/L	2.5	0.66	-	-	-	-	-
Cadmium	ug/L	0.18	0.25	-	-	2.0 U	2.0 U	-
Cadmium (dissolved)	ug/L	0.18	0.25	-	-	-	-	-
Calcium	ug/L			-	-	50900	52000	-
Calcium (dissolved)	ug/L			-	-	-	-	-
Chromium	ug/L	10	85	-	-	4.0 U	4.0 U	-
Chromium (dissolved)	ug/L	10	85	-	-	-	-	-
Chromium VI (hexavalent)	ug/L	0.035	11	-	-	-	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-	-	-	-	-
Cobalt	ug/L	0.6	23	-	-	9.2 ^a	9.2 ^a	-
Cobalt (dissolved)	ug/L	0.6	23	-	-	-	-	-
Copper	ug/L	80	9	-	-	4.0 U	4.0 U	-
Copper (dissolved)	ug/L	80	9	-	-	-	-	-
Iron	ug/L	1400	300	-	-	46700 ^{ab}	47500 ^{ab}	-
Iron (dissolved)	ug/L	1400	300	-	-	-	-	-
Lead	ug/L	15	2.5	-	-	1.1 J	1.2	-
Lead (dissolved)	ug/L	15	2.5	-	-	-	-	-
Magnesium	ug/L			-	-	14800	15200	-
Magnesium (dissolved)	ug/L			-	-	-	-	-
Manganese	ug/L	43	120	-	-	4340 ^{ab}	4440 ^{ab}	-
Manganese (dissolved)	ug/L	43	120	-	-	-	-	-
Mercury	ug/L	0.063	0.026	-	-	0.20 U	0.20 U	-
Mercury (dissolved)	ug/L	0.063	0.026	-	-	-	-	-
Nickel	ug/L	39	52	-	-	4.0 U	4.0 U	-
Nickel (dissolved)	ug/L	39	52	-	-	-	-	-
Potassium	ug/L			-	-	3210	3280	-
Potassium (dissolved)	ug/L			-	-	-	-	-
Selenium	ug/L	10	1	-	-	10.0 U	10.0 U	-
Selenium (dissolved)	ug/L	10	1	-	-	-	-	-
Silver	ug/L	9.4	3.2	-	-	2.0 U	2.0 U	-
Silver (dissolved)	ug/L	9.4	3.2	-	-	-	-	-
Sodium	ug/L			-	-	59200	60800	-
Sodium (dissolved)	ug/L			-	-	-	-	-
Thallium	ug/L	0.02	0.8	-	-	0.80 U	0.80 U	-
Thallium (dissolved)	ug/L	0.02	0.8	-	-	-	-	-
Vanadium	ug/L	8.6	20	-	-	4.0 U	4.0 U	-
Vanadium (dissolved)	ug/L	8.6	20	-	-	-	-	-
Zinc	ug/L	600	120	-	-	16.0 U	16.0 U	-
Zinc (dissolved)	ug/L	600	120	-	-	-	-	-

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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-36S GW-11222397-011023-MA-04 01/10/2023 (Duplicate)	OU-4 MW-50 DA-MW50-W001 10/14/2015	OU-4 MW-50 WG-17338-110717-DT-051 11/07/2017	OU-4 MW-50 WG-17338-110717-DT-054 11/07/2017 (Duplicate)	OU-4 MW-50 DA-MW50-W002 08/28/2018
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)					

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-50R GW-11222397-011023-ZB-05 01/10/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	
Volatile Organic Compounds				
1,1,1-Trichloroethane	ug/L	200	11	0.24 U
1,1,2,2-Tetrachloroethane	ug/L	0.076	610	0.37 U
1,1,2-Trichloroethane	ug/L	0.041	1200	0.20 U
1,1-Dichloroethane	ug/L	2.8	47	0.26 U
1,1-Dichloroethene	ug/L	7	25	0.26 U
1,2,4-Trichlorobenzene	ug/L	0.4	24	0.37 U
1,2,4-Trimethylbenzene	ug/L	5.6		0.37 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.00033		0.38 UJ
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075		0.50 U
1,2-Dichlorobenzene	ug/L	30	0.7	0.21 U
1,2-Dichloroethane	ug/L	0.17	100	0.43 U
1,2-Dichloropropane	ug/L	0.82		0.35 U
1,3,5-Trimethylbenzene	ug/L	6	71	-
1,3-Dichlorobenzene	ug/L			0.34 U
1,4-Dichlorobenzene	ug/L	0.48	26	0.33 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	1.9 U
2-Hexanone	ug/L	3.8	99	1.1 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	170	1.3 U
Acetone	ug/L	1800	1500	4.4 U
Benzene	ug/L	0.46	370	0.20 U
Bromodichloromethane	ug/L	0.13		0.34 U
Bromoform	ug/L	3.3	320	0.54 U
Bromomethane (Methyl bromide)	ug/L	0.75		0.55 U
Carbon disulfide	ug/L	81	0.92	0.82 U
Carbon tetrachloride	ug/L	0.46	13.3	0.21 U
Chlorobenzene	ug/L	7.8	1.3	0.38 U
Chloroethane	ug/L	830		0.32 U
Chloroform (Trichloromethane)	ug/L	0.22	1.8	0.33 U
Chloromethane (Methyl chloride)	ug/L	19		0.40 U
cis-1,2-Dichloroethene	ug/L	2.5		0.22 U
cis-1,3-Dichloropropene	ug/L			0.22 U
Cyclohexane	ug/L	1300		0.32 U
Dibromochloromethane	ug/L	0.87		0.28 U
Dichlorodifluoromethane (CFC-12)	ug/L	20		0.31 U
Ethylbenzene	ug/L	1.5	90	0.30 U
Isopropyl benzene	ug/L	45	2.6	0.34 U
Methyl acetate	ug/L	2000		0.79 U
Methyl cyclohexane	ug/L			0.71 U
Methyl tert butyl ether (MTBE)	ug/L	10	11070	0.22 U
Methylene chloride	ug/L	5	98.1	0.32 U
Styrene	ug/L	100	72	0.42 U
Tetrachloroethene	ug/L	1	111	0.25 U
Toluene	ug/L	110	2	0.38 U
trans-1,2-Dichloroethene	ug/L	6.8	970	0.24 U
trans-1,3-Dichloropropene	ug/L			0.22 U
Trichloroethene	ug/L	0.28	21	0.31 U
Trichlorofluoromethane (CFC-11)	ug/L	520		0.32 U
Trifluorotrichloroethane (CFC-113)	ug/L	1000		0.31 U
Vinyl chloride	ug/L	0.019	930	0.17 U

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Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-50R GW-11222397-011023-ZB-05 01/10/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	
Xylenes (total)	ug/L	19	13	0.65 U

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-50R GW-11222397-011023-ZB-05 01/10/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	
Semi-Volatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71		0.63 U
2,4,5-Trichlorophenol	ug/L	120		0.88 U
2,4,6-Trichlorophenol	ug/L	1.2	4.9	0.86 U
2,4-Dichlorophenol	ug/L	4.6	11	1.1 U
2,4-Dimethylphenol	ug/L	36		0.62 U
2,4-Dinitrophenol	ug/L	3.9		2.6 UJ
2,4-Dinitrotoluene	ug/L	0.24	44	1.0 U
2,6-Dinitrotoluene	ug/L	0.049	81	0.83 U
2-Chloronaphthalene	ug/L	75		1.2 U
2-Chlorophenol	ug/L	9.1	24	0.38 U
2-Methylnaphthalene	ug/L	3.6	4.7	0.53 U
2-Methylphenol	ug/L	93	13	0.67 U
2-Nitroaniline	ug/L	19		0.47 U
2-Nitrophenol	ug/L			0.75 U
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	1.4 U
3-Nitroaniline	ug/L			1.9 U
4,6-Dinitro-2-methylphenol	ug/L	0.15		3.0 UJ
4-Bromophenyl phenyl ether	ug/L			0.75 U
4-Chloro-3-methylphenol	ug/L	140		0.58 U
4-Chloroaniline	ug/L	0.37	232	1.9 U
4-Chlorophenyl phenyl ether	ug/L			1.3 U
4-Methylphenol	ug/L	37	543	0.65 U
4-Nitroaniline	ug/L	3.8		1.2 U
4-Nitrophenol	ug/L			4.0 U
Acenaphthene	ug/L	53	5.8	1.1 U
Acenaphthylene	ug/L			0.82 U
Acetophenone	ug/L	190		2.3 U
Anthracene	ug/L	180	0.012	1.3 U
Atrazine	ug/L	0.3	1.8	1.3 U
Benzaldehyde	ug/L	19		2.1 UJ
Benzo(a)anthracene	ug/L	0.03	0.018	0.59 U
Benzo(a)pyrene	ug/L	0.025	0.015	0.41 U
Benzo(b)fluoranthene	ug/L	0.25		0.68 U
Benzo(g,h,i)perylene	ug/L			0.70 U
Benzo(k)fluoranthene	ug/L	2.5		0.67 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	1.2 U
bis(2-Chloroethoxy)methane	ug/L	5.9		0.59 U
bis(2-Chloroethyl)ether	ug/L	0.014		0.63 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	0.80 U
Butyl benzylphthalate (BBP)	ug/L	16	19	0.85 U
Caprolactam	ug/L	990		2.2 U
Carbazole	ug/L			0.68 U
Chrysene	ug/L	25		0.91 U
Dibenz(a,h)anthracene	ug/L	0.025		0.72 U
Dibenzofuran	ug/L	0.79	3.7	1.1 U
Diethyl phthalate	ug/L	1500	210	0.98 U
Dimethyl phthalate	ug/L			0.77 U
Di-n-butylphthalate (DBP)	ug/L	90	19	0.84 U
Di-n-octyl phthalate (DnOP)	ug/L	20	22	0.75 U
Fluoranthene	ug/L	80	0.04	0.84 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: GW-11222397-011023-ZB-05 Sample Date: 01/10/2023			
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)
Fluorene	ug/L	29	3
Hexachlorobenzene	ug/L	0.0098	0.0003
Hexachlorobutadiene	ug/L	0.14	1.3
Hexachlorocyclopentadiene	ug/L	0.041	3.6 U
Hexachloroethane	ug/L	0.33	12
Indeno(1,2,3-cd)pyrene	ug/L	0.25	0.94 U
Isophorone	ug/L	78	0.80 U
Naphthalene	ug/L	0.12	1.1
Nitrobenzene	ug/L	0.14	0.57 U
N-Nitrosodi-n-propylamine	ug/L	0.011	0.43 U
N-Nitrosodiphenylamine	ug/L	12	210
Pentachlorophenol	ug/L	0.041	0.5
Phenanthrene	ug/L	12	0.4
Phenol	ug/L	580	4
Pyrene	ug/L	12	0.025

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-50R GW-11222397-011023-ZB-05 01/10/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	
Metals		a	b	
Aluminum	ug/L	2000	87	-
Aluminum (dissolved)	ug/L	2000	87	-
Antimony	ug/L	0.78	30	-
Antimony (dissolved)	ug/L	0.78	30	-
Arsenic	ug/L	0.052	5	-
Arsenic (dissolved)	ug/L	0.052	5	-
Barium	ug/L	380	4	-
Barium (dissolved)	ug/L	380	4	-
Beryllium	ug/L	2.5	0.66	-
Beryllium (dissolved)	ug/L	2.5	0.66	-
Cadmium	ug/L	0.18	0.25	-
Cadmium (dissolved)	ug/L	0.18	0.25	-
Calcium	ug/L			-
Calcium (dissolved)	ug/L			-
Chromium	ug/L	10	85	-
Chromium (dissolved)	ug/L	10	85	-
Chromium VI (hexavalent)	ug/L	0.035	11	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-
Cobalt	ug/L	0.6	23	-
Cobalt (dissolved)	ug/L	0.6	23	-
Copper	ug/L	80	9	-
Copper (dissolved)	ug/L	80	9	-
Iron	ug/L	1400	300	-
Iron (dissolved)	ug/L	1400	300	-
Lead	ug/L	15	2.5	-
Lead (dissolved)	ug/L	15	2.5	-
Magnesium	ug/L			-
Magnesium (dissolved)	ug/L			-
Manganese	ug/L	43	120	-
Manganese (dissolved)	ug/L	43	120	-
Mercury	ug/L	0.063	0.026	-
Mercury (dissolved)	ug/L	0.063	0.026	-
Nickel	ug/L	39	52	-
Nickel (dissolved)	ug/L	39	52	-
Potassium	ug/L			-
Potassium (dissolved)	ug/L			-
Selenium	ug/L	10	1	-
Selenium (dissolved)	ug/L	10	1	-
Silver	ug/L	9.4	3.2	-
Silver (dissolved)	ug/L	9.4	3.2	-
Sodium	ug/L			-
Sodium (dissolved)	ug/L			-
Thallium	ug/L	0.02	0.8	-
Thallium (dissolved)	ug/L	0.02	0.8	-
Vanadium	ug/L	8.6	20	-
Vanadium (dissolved)	ug/L	8.6	20	-
Zinc	ug/L	600	120	-
Zinc (dissolved)	ug/L	600	120	-

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-4 MW-50R GW-11222397-011023-ZB-05 01/10/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-48 WG-17338-111214-RR-001 11/12/2014	OU-5 MW-48 WG-17338-110417-DT-021 11/04/2017	OU-5 MW-48 GW-11210099-081820-ST-002 08/18/2020	OU-5 MW-48 GW-11210099-081820-ST-003 08/18/2020 (Duplicate)
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Volatile Organic Compounds							
1,1,1-Trichloroethane	ug/L	200	11	-	1.0 U	-	-
1,1,2,2-Tetrachloroethane	ug/L	0.076	610	-	1.0 U	-	-
1,1,2-Trichloroethane	ug/L	0.041	1200	-	1.0 U	-	-
1,1-Dichloroethane	ug/L	2.8	47	-	1.0 U	-	-
1,1-Dichloroethene	ug/L	7	25	-	1.0 U	-	-
1,2,4-Trichlorobenzene	ug/L	0.4	24	-	1.0 U	-	-
1,2,4-Trimethylbenzene	ug/L	5.6		-	1.0 U	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.00033		-	1.0 U	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075		-	1.0 U	-	-
1,2-Dichlorobenzene	ug/L	30	0.7	-	1.0 U	-	-
1,2-Dichloroethane	ug/L	0.17	100	-	1.0 U	-	-
1,2-Dichloropropane	ug/L	0.82		-	1.0 U	-	-
1,3,5-Trimethylbenzene	ug/L	6	71	-	-	-	-
1,3-Dichlorobenzene	ug/L			-	1.0 U	-	-
1,4-Dichlorobenzene	ug/L	0.48	26	-	1.0 U	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	-	5.0 U	-	-
2-Hexanone	ug/L	3.8	99	-	5.0 U	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	170	-	5.0 U	-	-
Acetone	ug/L	1800	1500	-	5.0 U	-	-
Benzene	ug/L	0.46	370	-	1.0 U	-	-
Bromodichloromethane	ug/L	0.13		-	1.0 U	-	-
Bromoform	ug/L	3.3	320	-	1.0 U	-	-
Bromomethane (Methyl bromide)	ug/L	0.75		-	1.0 UJ	-	-
Carbon disulfide	ug/L	81	0.92	-	1.0 U	-	-
Carbon tetrachloride	ug/L	0.46	13.3	-	1.0 U	-	-
Chlorobenzene	ug/L	7.8	1.3	-	1.0 U	-	-
Chloroethane	ug/L	830		-	1.0 U	-	-
Chloroform (Trichloromethane)	ug/L	0.22	1.8	-	1.0 U	-	-
Chloromethane (Methyl chloride)	ug/L	19		-	1.0 U	-	-
cis-1,2-Dichloroethene	ug/L	2.5		-	1.0 U	-	-
cis-1,3-Dichloropropene	ug/L			-	1.0 U	-	-
Cyclohexane	ug/L	1300		-	1.0 U	-	-
Dibromochloromethane	ug/L	0.87		-	1.0 U	-	-
Dichlorodifluoromethane (CFC-12)	ug/L	20		-	1.0 U	-	-
Ethylbenzene	ug/L	1.5	90	-	1.0 U	-	-
Isopropyl benzene	ug/L	45	2.6	-	1.0 U	-	-
Methyl acetate	ug/L	2000		-	5.0 U	-	-
Methyl cyclohexane	ug/L			-	1.0 U	-	-
Methyl tert butyl ether (MTBE)	ug/L	10	11070	-	1.0 U	-	-
Methylene chloride	ug/L	5	98.1	-	1.0 U	-	-
Styrene	ug/L	100	72	-	1.0 U	-	-
Tetrachloroethene	ug/L	1	111	-	1.0 U	-	-
Toluene	ug/L	110	2	-	1.0 U	-	-
trans-1,2-Dichloroethene	ug/L	6.8	970	-	1.0 U	-	-
trans-1,3-Dichloropropene	ug/L			-	1.0 U	-	-
Trichloroethene	ug/L	0.28	21	-	1.0 U	-	-
Trichlorofluoromethane (CFC-11)	ug/L	520		-	1.0 U	-	-
Trifluorotrchloroethane (CFC-113)	ug/L	1000		-	1.0 U	-	-
Vinyl chloride	ug/L	0.019	930	-	1.0 U	-	-

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-48 WG-17338-111214-RR-001 11/12/2014	OU-5 MW-48 WG-17338-110417-DT-021 11/04/2017	OU-5 MW-48 GW-11210099-081820-ST-002 08/18/2020	OU-5 MW-48 GW-11210099-081820-ST-003 08/18/2020 (Duplicate)
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Xylenes (total)	ug/L	19	13	-	2.0 U	-	-

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
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		Operable Unit: Sample Location: Sample ID: Sample Date:		OU-5 MW-48 WG-17338-111214-RR-001 11/12/2014	OU-5 MW-48 WG-17338-110417-DT-021 11/04/2017	OU-5 MW-48 GW-11210099-081820-ST-002 08/18/2020	OU-5 MW-48 GW-11210099-081820-ST-003 08/18/2020 (Duplicate)
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Semi-Volatile Organic Compounds							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71		-	10 U	-	-
2,4,5-Trichlorophenol	ug/L	120		-	10 U	-	-
2,4,6-Trichlorophenol	ug/L	1.2	4.9	-	10 U	-	-
2,4-Dichlorophenol	ug/L	4.6	11	-	10 U	-	-
2,4-Dimethylphenol	ug/L	36		-	10 U	-	-
2,4-Dinitrophenol	ug/L	3.9		-	20 U	-	-
2,4-Dinitrotoluene	ug/L	0.24	44	-	2.0 U	-	-
2,6-Dinitrotoluene	ug/L	0.049	81	-	2.0 U	-	-
2-Chloronaphthalene	ug/L	75		-	10 U	-	-
2-Chlorophenol	ug/L	9.1	24	-	10 U	-	-
2-Methylnaphthalene	ug/L	3.6	4.7	-	10 U	-	-
2-Methylphenol	ug/L	93	13	-	10 U	-	-
2-Nitroaniline	ug/L	19		-	10 U	-	-
2-Nitrophenol	ug/L			-	10 U	-	-
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	-	10 U	-	-
3-Nitroaniline	ug/L			-	10 U	-	-
4,6-Dinitro-2-methylphenol	ug/L	0.15		-	20 U	-	-
4-Bromophenyl phenyl ether	ug/L			-	10 U	-	-
4-Chloro-3-methylphenol	ug/L	140		-	10 U	-	-
4-Chloroaniline	ug/L	0.37	232	-	10 U	-	-
4-Chlorophenyl phenyl ether	ug/L			-	10 U	-	-
4-Methylphenol	ug/L	37	543	-	10 U	-	-
4-Nitroaniline	ug/L	3.8		-	10 U	-	-
4-Nitrophenol	ug/L			-	20 U	-	-
Acenaphthene	ug/L	53	5.8	-	10 U	-	-
Acenaphthylene	ug/L			-	10 U	-	-
Acetophenone	ug/L	190		-	10 U	-	-
Anthracene	ug/L	180	0.012	-	10 U	-	-
Atrazine	ug/L	0.3	1.8	-	2.0 U	-	-
Benzaldehyde	ug/L	19		-	10 U	-	-
Benzo(a)anthracene	ug/L	0.03	0.018	-	1.0 U	-	-
Benzo(a)pyrene	ug/L	0.025	0.015	-	1.0 U	-	-
Benzo(b)fluoranthene	ug/L	0.25		-	1.0 U	-	-
Benzo(g,h,i)perylene	ug/L			-	10 U	-	-
Benzo(k)fluoranthene	ug/L	2.5		-	1.0 U	-	-
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	-	10 U	-	-
bis(2-Chloroethoxy)methane	ug/L	5.9		-	10 U	-	-
bis(2-Chloroethyl)ether	ug/L	0.014		-	1.0 U	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	-	2.0 U	-	-
Butyl benzylphthalate (BBP)	ug/L	16	19	-	10 U	-	-
Caprolactam	ug/L	990		-	10 U	-	-
Carbazole	ug/L			-	10 U	-	-
Chrysene	ug/L	25		-	2.0 U	-	-
Dibenz(a,h)anthracene	ug/L	0.025		-	1.0 U	-	-
Dibenzofuran	ug/L	0.79	3.7	-	10 U	-	-
Diethyl phthalate	ug/L	1500	210	-	10 U	-	-
Dimethyl phthalate	ug/L			-	10 U	-	-
Di-n-butylphthalate (DBP)	ug/L	90	19	-	10 U	-	-
Di-n-octyl phthalate (DnOP)	ug/L	20	22	-	10 U	-	-
Fluoranthene	ug/L	80	0.04	-	10 U	-	-

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**Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-48 WG-17338-111214-RR-001 11/12/2014	OU-5 MW-48 WG-17338-110417-DT-021 11/04/2017	OU-5 MW-48 GW-11210099-081820-ST-002 08/18/2020	OU-5 MW-48 GW-11210099-081820-ST-003 08/18/2020 (Duplicate)
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Fluorene	ug/L	29	3	-	10 U	-	-
Hexachlorobenzene	ug/L	0.0098	0.0003	-	1.0 U	-	-
Hexachlorobutadiene	ug/L	0.14	1.3	-	1.0 U	-	-
Hexachlorocyclopentadiene	ug/L	0.041		-	10 U	-	-
Hexachloroethane	ug/L	0.33	12	-	1.0 U	-	-
Indeno(1,2,3-cd)pyrene	ug/L	0.25		-	1.0 U	-	-
Isophorone	ug/L	78		-	10 U	-	-
Naphthalene	ug/L	0.12	1.1	-	10 U	-	-
Nitrobenzene	ug/L	0.14		-	1.0 U	-	-
N-Nitrosodi-n-propylamine	ug/L	0.011		-	1.0 U	-	-
N-Nitrosodiphenylamine	ug/L	12	210	-	10 U	-	-
Pentachlorophenol	ug/L	0.041	0.5	-	20 U	-	-
Phenanthrene	ug/L	12	0.4	-	10 U	-	-
Phenol	ug/L	580	4	-	10 U	-	-
Pyrene	ug/L	12	0.025	-	10 U	-	-

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-48 WG-17338-111214-RR-001 11/12/2014	OU-5 MW-48 WG-17338-110417-DT-021 11/04/2017	OU-5 MW-48 GW-11210099-081820-ST-002 08/18/2020	OU-5 MW-48 GW-11210099-081820-ST-003 08/18/2020 (Duplicate)
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Metals							
Aluminum	ug/L	2000	87	-	22.6 J	100 J ^b	163 J ^b
Aluminum (dissolved)	ug/L	2000	87	290 ^b	-	-	-
Antimony	ug/L	0.78	30	-	2.0 U	3.7 U	3.7 U
Antimony (dissolved)	ug/L	0.78	30	20.0 U	-	-	-
Arsenic	ug/L	0.052	5	-	2.0 U	3.3 U	3.3 U
Arsenic (dissolved)	ug/L	0.052	5	15.0 U	-	-	-
Barium	ug/L	380	4	-	193 ^b	160 J ^b	172 J ^b
Barium (dissolved)	ug/L	380	4	258 ^b	-	-	-
Beryllium	ug/L	2.5	0.66	-	0.80 U	0.17 U	0.17 U
Beryllium (dissolved)	ug/L	2.5	0.66	2.0 U	-	-	-
Cadmium	ug/L	0.18	0.25	-	2.0 U	0.33 U	0.33 U
Cadmium (dissolved)	ug/L	0.18	0.25	4.0 U	-	-	-
Calcium	ug/L				27800	29400 J	31500 J
Calcium (dissolved)	ug/L			26600	-	-	-
Chromium	ug/L	10	85	-	4.0 U	5.0 U	5.0 U
Chromium (dissolved)	ug/L	10	85	10.0 U	-	-	-
Chromium VI (hexavalent)	ug/L	0.035	11	-	-	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-	-	-	-
Cobalt	ug/L	0.6	23	-	3.6 J ^a	2.8 J ^a	3.8 J ^a
Cobalt (dissolved)	ug/L	0.6	23	8.1 J ^a	-	-	-
Copper	ug/L	80	9	-	4.0 U	6.9 U	6.9 U
Copper (dissolved)	ug/L	80	9	25.0 U	-	-	-
Iron	ug/L	1400	300	-	64.7 J	2840 J ^{ab}	3750 J ^{ab}
Iron (dissolved)	ug/L	1400	300	3610 ^{ab}	-	-	-
Lead	ug/L	15	2.5	-	1.2 U	2.5 J	3.1 J ^b
Lead (dissolved)	ug/L	15	2.5	10.0 U	-	-	-
Magnesium	ug/L			-	28200	22000	23500
Magnesium (dissolved)	ug/L			28400	-	-	-
Manganese	ug/L	43	120	-	6050 ^{ab}	833 J ^{ab}	927 J ^{ab}
Manganese (dissolved)	ug/L	43	120	6370 ^{ab}	-	-	-
Mercury	ug/L	0.063	0.026	-	0.20 U	0.091 U	0.091 U
Mercury (dissolved)	ug/L	0.063	0.026	0.20 U	-	-	-
Nickel	ug/L	39	52	-	5.6 U	4.1 U	4.1 U
Nickel (dissolved)	ug/L	39	52	40.0 U	-	-	-
Potassium	ug/L			-	3360	6970	7370
Potassium (dissolved)	ug/L			3730 J	-	-	-
Selenium	ug/L	10	1	-	10.0 U	5.9 U	5.9 U
Selenium (dissolved)	ug/L	10	1	20.0 U	-	-	-
Silver	ug/L	9.4	3.2	-	2.0 U	5.8 U	5.8 U
Silver (dissolved)	ug/L	9.4	3.2	3.7 J ^b	-	-	-
Sodium	ug/L			-	64800	27900 J	30600 J
Sodium (dissolved)	ug/L			92300	-	-	-
Thallium	ug/L	0.02	0.8	-	0.80 U	4.1 U	4.1 U
Thallium (dissolved)	ug/L	0.02	0.8	20.0 U	-	-	-
Vanadium	ug/L	8.6	20	-	4.0 U	7.2 U	7.2 U
Vanadium (dissolved)	ug/L	8.6	20	50.0 U	-	-	-
Zinc	ug/L	600	120	-	38.5 U	1.2 U	1.2 U
Zinc (dissolved)	ug/L	600	120	10.5 J	-	-	-

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-48 WG-17338-111214-RR-001 11/12/2014	OU-5 MW-48 WG-17338-110417-DT-021 11/04/2017	OU-5 MW-48 GW-11210099-081820-ST-002 08/18/2020	OU-5 MW-48 GW-11210099-081820-ST-003 08/18/2020 (Duplicate)
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-48R GW-11222397-011123-MA-13 01/11/2023	OU-5 MW-48R GW-11222397-011123-MA-14 01/11/2023 (Duplicate)	OU-5 MW-109 WG-17338-111214-RR-006 11/12/2014	OU-5 MW-109 WG-17338-110417-SG-018 11/04/2017
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Volatile Organic Compounds							
1,1,1-Trichloroethane	ug/L	200	11	-	-	-	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	0.076	610	-	-	-	1.0 U
1,1,2-Trichloroethane	ug/L	0.041	1200	-	-	-	1.0 U
1,1-Dichloroethane	ug/L	2.8	47	-	-	-	1.0 U
1,1-Dichloroethene	ug/L	7	25	-	-	-	1.0 U
1,2,4-Trichlorobenzene	ug/L	0.4	24	-	-	-	1.0 U
1,2,4-Trimethylbenzene	ug/L	5.6		-	-	-	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.00033		-	-	-	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075		-	-	-	1.0 U
1,2-Dichlorobenzene	ug/L	30	0.7	-	-	-	1.0 U
1,2-Dichloroethane	ug/L	0.17	100	-	-	-	1.0 U
1,2-Dichloropropane	ug/L	0.82		-	-	-	1.0 U
1,3,5-Trimethylbenzene	ug/L	6	71	-	-	-	-
1,3-Dichlorobenzene	ug/L			-	-	-	1.0 U
1,4-Dichlorobenzene	ug/L	0.48	26	-	-	-	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	-	-	-	5.0 U
2-Hexanone	ug/L	3.8	99	-	-	-	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	170	-	-	-	5.0 U
Acetone	ug/L	1800	1500	-	-	-	5.0 U
Benzene	ug/L	0.46	370	0.20 U	-	-	1.0 U
Bromodichloromethane	ug/L	0.13		-	-	-	1.0 U
Bromoform	ug/L	3.3	320	-	-	-	1.0 U
Bromomethane (Methyl bromide)	ug/L	0.75		-	-	-	1.0 U
Carbon disulfide	ug/L	81	0.92	-	-	-	1.0 U
Carbon tetrachloride	ug/L	0.46	13.3	-	-	-	1.0 U
Chlorobenzene	ug/L	7.8	1.3	-	-	-	1.0 U
Chloroethane	ug/L	830		-	-	-	1.0 U
Chloroform (Trichloromethane)	ug/L	0.22	1.8	-	-	-	1.0 U
Chloromethane (Methyl chloride)	ug/L	19		-	-	-	1.0 U
cis-1,2-Dichloroethene	ug/L	2.5		-	-	-	1.0 U
cis-1,3-Dichloropropene	ug/L			-	-	-	1.0 U
Cyclohexane	ug/L	1300		-	-	-	1.0 U
Dibromochloromethane	ug/L	0.87		-	-	-	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	20		-	-	-	1.0 U
Ethylbenzene	ug/L	1.5	90	-	-	-	1.0 U
Isopropyl benzene	ug/L	45	2.6	-	-	-	1.0 U
Methyl acetate	ug/L	2000		-	-	-	5.0 U
Methyl cyclohexane	ug/L			-	-	-	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	10	11070	-	-	-	1.0 U
Methylene chloride	ug/L	5	98.1	-	-	-	1.0 U
Styrene	ug/L	100	72	-	-	-	1.0 U
Tetrachloroethene	ug/L	1	111	-	-	-	1.0 U
Toluene	ug/L	110	2	-	-	-	1.0 U
trans-1,2-Dichloroethene	ug/L	6.8	970	-	-	-	1.0 U
trans-1,3-Dichloropropene	ug/L			-	-	-	1.0 U
Trichloroethene	ug/L	0.28	21	3.8 ^a	-	-	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	520		-	-	-	1.0 U
Trifluorotrchloroethane (CFC-113)	ug/L	1000		-	-	-	1.0 U
Vinyl chloride	ug/L	0.019	930	-	-	-	1.0 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-48R GW-11222397-011123-MA-13 01/11/2023	OU-5 MW-48R GW-11222397-011123-MA-14 01/11/2023 (Duplicate)	OU-5 MW-109 WG-17338-111214-RR-006 11/12/2014	OU-5 MW-109 WG-17338-110417-SG-018 11/04/2017
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Xylenes (total)	ug/L	19	13	-	-	-	2.0 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-48R GW-11222397-011123-MA-13 01/11/2023	OU-5 MW-48R GW-11222397-011123-MA-14 01/11/2023 (Duplicate)	OU-5 MW-109 WG-17338-111214-RR-006 11/12/2014	OU-5 MW-109 WG-17338-110417-SG-018 11/04/2017
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Semi-Volatile Organic Compounds							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71		-	-	-	10 U
2,4,5-Trichlorophenol	ug/L	120		-	-	-	10 U
2,4,6-Trichlorophenol	ug/L	1.2	4.9	-	-	-	10 U
2,4-Dichlorophenol	ug/L	4.6	11	-	-	-	10 U
2,4-Dimethylphenol	ug/L	36		-	-	-	10 U
2,4-Dinitrophenol	ug/L	3.9		-	-	-	20 U
2,4-Dinitrotoluene	ug/L	0.24	44	-	-	-	2.0 U
2,6-Dinitrotoluene	ug/L	0.049	81	-	-	-	2.0 U
2-Chloronaphthalene	ug/L	75		-	-	-	10 U
2-Chlorophenol	ug/L	9.1	24	-	-	-	10 U
2-Methylnaphthalene	ug/L	3.6	4.7	-	-	-	10 U
2-Methylphenol	ug/L	93	13	-	-	-	10 U
2-Nitroaniline	ug/L	19		-	-	-	10 U
2-Nitrophenol	ug/L			-	-	-	10 U
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	-	-	-	10 U
3-Nitroaniline	ug/L			-	-	-	10 U
4,6-Dinitro-2-methylphenol	ug/L	0.15		-	-	-	20 U
4-Bromophenyl phenyl ether	ug/L			-	-	-	10 U
4-Chloro-3-methylphenol	ug/L	140		-	-	-	10 U
4-Chloroaniline	ug/L	0.37	232	-	-	-	10 U
4-Chlorophenyl phenyl ether	ug/L			-	-	-	10 U
4-Methylphenol	ug/L	37	543	-	-	-	10 U
4-Nitroaniline	ug/L	3.8		-	-	-	10 U
4-Nitrophenol	ug/L			-	-	-	20 U
Acenaphthene	ug/L	53	5.8	-	-	-	10 U
Acenaphthylene	ug/L			-	-	-	10 U
Acetophenone	ug/L	190		-	-	-	10 U
Anthracene	ug/L	180	0.012	-	-	-	10 U
Atrazine	ug/L	0.3	1.8	-	-	-	2.0 U
Benzaldehyde	ug/L	19		-	-	-	10 U
Benzo(a)anthracene	ug/L	0.03	0.018	-	-	-	1.0 U
Benzo(a)pyrene	ug/L	0.025	0.015	-	-	-	1.0 U
Benzo(b)fluoranthene	ug/L	0.25		-	-	-	1.0 U
Benzo(g,h,i)perylene	ug/L			-	-	-	10 U
Benzo(k)fluoranthene	ug/L	2.5		-	-	-	1.0 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	-	-	-	10 U
bis(2-Chloroethoxy)methane	ug/L	5.9		-	-	-	10 U
bis(2-Chloroethyl)ether	ug/L	0.014		-	-	-	1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	-	-	-	2.0 U
Butyl benzylphthalate (BBP)	ug/L	16	19	-	-	-	10 U
Caprolactam	ug/L	990		-	-	-	10 U
Carbazole	ug/L			-	-	-	10 U
Chrysene	ug/L	25		-	-	-	2.0 U
Dibenz(a,h)anthracene	ug/L	0.025		-	-	-	1.0 U
Dibenzofuran	ug/L	0.79	3.7	-	-	-	10 U
Diethyl phthalate	ug/L	1500	210	-	-	-	10 U
Dimethyl phthalate	ug/L			-	-	-	10 U
Di-n-butylphthalate (DBP)	ug/L	90	19	-	-	-	10 U
Di-n-octyl phthalate (DnOP)	ug/L	20	22	-	-	-	10 U
Fluoranthene	ug/L	80	0.04	-	-	-	10 U

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-48R GW-11222397-011123-MA-13 01/11/2023	OU-5 MW-48R GW-11222397-011123-MA-14 01/11/2023 (Duplicate)	OU-5 MW-109 WG-17338-111214-RR-006 11/12/2014	OU-5 MW-109 WG-17338-110417-SG-018 11/04/2017
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Fluorene	ug/L	29	3	-	-	-	10 U
Hexachlorobenzene	ug/L	0.0098	0.0003	-	-	-	1.0 U
Hexachlorobutadiene	ug/L	0.14	1.3	-	-	-	1.0 U
Hexachlorocyclopentadiene	ug/L	0.041		-	-	-	10 U
Hexachloroethane	ug/L	0.33	12	-	-	-	1.0 U
Indeno(1,2,3-cd)pyrene	ug/L	0.25		-	-	-	1.0 U
Isophorone	ug/L	78		-	-	-	10 U
Naphthalene	ug/L	0.12	1.1	-	-	-	10 U
Nitrobenzene	ug/L	0.14		-	-	-	1.0 U
N-Nitrosodi-n-propylamine	ug/L	0.011		-	-	-	1.0 U
N-Nitrosodiphenylamine	ug/L	12	210	-	-	-	10 U
Pentachlorophenol	ug/L	0.041	0.5	-	-	-	20 U
Phenanthrene	ug/L	12	0.4	-	-	-	10 U
Phenol	ug/L	580	4	-	-	-	10 U
Pyrene	ug/L	12	0.025	-	-	-	10 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-48R GW-11222397-011123-MA-13 01/11/2023	OU-5 MW-48R GW-11222397-011123-MA-14 01/11/2023 (Duplicate)	OU-5 MW-109 WG-17338-111214-RR-006 11/12/2014	OU-5 MW-109 WG-17338-110417-SG-018 11/04/2017
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Metals							
		a	b				
Aluminum	ug/L	2000	87	94.4 J ^b	1290 J ^b	-	33.2 J
Aluminum (dissolved)	ug/L	2000	87	-	-	200 U	-
Antimony	ug/L	0.78	30	0.76 U	0.76 U	-	2.0 U
Antimony (dissolved)	ug/L	0.78	30	-	-	20.0 U	-
Arsenic	ug/L	0.052	5	0.89 U	0.89 U	-	2.0 U
Arsenic (dissolved)	ug/L	0.052	5	-	-	15.0 U	-
Barium	ug/L	380	4	271 ^b	290 ^b	-	72.4 ^b
Barium (dissolved)	ug/L	380	4	-	-	85.2 J ^b	-
Beryllium	ug/L	2.5	0.66	0.13 U	0.13 U	-	0.80 U
Beryllium (dissolved)	ug/L	2.5	0.66	-	-	2.0 U	-
Cadmium	ug/L	0.18	0.25	0.39 U	0.39 U	-	2.0 U
Cadmium (dissolved)	ug/L	0.18	0.25	-	-	4.0 U	-
Calcium	ug/L			35200	38100	-	26100
Calcium (dissolved)	ug/L			-	-	26100	-
Chromium	ug/L	10	85	2.5 UJ	8.7 J	-	4.0 U
Chromium (dissolved)	ug/L	10	85	-	-	10.0 U	-
Chromium VI (hexavalent)	ug/L	0.035	11	-	-	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-	-	-	-
Cobalt	ug/L	0.6	23	6.0 ^a	7.3 ^a	-	4.0 U
Cobalt (dissolved)	ug/L	0.6	23	-	-	50.0 U	-
Copper	ug/L	80	9	2.5 U	3.6 U	-	4.0 U
Copper (dissolved)	ug/L	80	9	-	-	25.0 U	-
Iron	ug/L	1400	300	90.3 J	1950 J ^{ab}	-	54.9 J
Iron (dissolved)	ug/L	1400	300	-	-	150 U	-
Lead	ug/L	15	2.5	0.84 UJ	8.7 J ^b	-	1.2 U
Lead (dissolved)	ug/L	15	2.5	-	-	10.0 U	-
Magnesium	ug/L			37600	41200	-	16600
Magnesium (dissolved)	ug/L			-	-	17400	-
Manganese	ug/L	43	120	6780 ^{ab}	7170 ^{ab}	-	29.2
Manganese (dissolved)	ug/L	43	120	7910 ^{ab}	7890 ^{ab}	30.2	-
Mercury	ug/L	0.063	0.026	0.091 U	0.091 U	-	0.20 U
Mercury (dissolved)	ug/L	0.063	0.026	-	-	0.20 U	-
Nickel	ug/L	39	52	5.1 U	5.5 U	-	5.6 U
Nickel (dissolved)	ug/L	39	52	-	-	40.0 U	-
Potassium	ug/L			3370	3520	-	2390
Potassium (dissolved)	ug/L			-	-	2400 J	-
Selenium	ug/L	10	1	0.59 U	0.59 U	-	10.0 U
Selenium (dissolved)	ug/L	10	1	-	-	20.0 U	-
Silver	ug/L	9.4	3.2	0.29 U	0.29 U	-	2.0 U
Silver (dissolved)	ug/L	9.4	3.2	-	-	10.0 U	-
Sodium	ug/L			106000	105000	-	20900
Sodium (dissolved)	ug/L			-	-	32200	-
Thallium	ug/L	0.02	0.8	0.21 U	0.21 U	-	0.80 U
Thallium (dissolved)	ug/L	0.02	0.8	-	-	20.0 U	-
Vanadium	ug/L	8.6	20	0.76 J	5.6 J	-	4.0 U
Vanadium (dissolved)	ug/L	8.6	20	-	-	50.0 U	-
Zinc	ug/L	600	120	10 J	17.7	-	16.0 U
Zinc (dissolved)	ug/L	600	120	-	-	6.9 J	-

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-48R GW-11222397-011123-MA-13 01/11/2023	OU-5 MW-48R GW-11222397-011123-MA-14 01/11/2023 (Duplicate)	OU-5 MW-109 WG-17338-111214-RR-006 11/12/2014	OU-5 MW-109 WG-17338-110417-SG-018 11/04/2017
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-109 WG-17338-110417-SG-020 11/04/2017 (Duplicate)
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	
Volatile Organic Compounds				
1,1,1-Trichloroethane	ug/L	200	11	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	0.076	610	1.0 U
1,1,2-Trichloroethane	ug/L	0.041	1200	1.0 U
1,1-Dichloroethane	ug/L	2.8	47	1.0 U
1,1-Dichloroethene	ug/L	7	25	1.0 U
1,2,4-Trichlorobenzene	ug/L	0.4	24	1.0 U
1,2,4-Trimethylbenzene	ug/L	5.6		1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.00033		1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075		1.0 U
1,2-Dichlorobenzene	ug/L	30	0.7	1.0 U
1,2-Dichloroethane	ug/L	0.17	100	1.0 U
1,2-Dichloropropane	ug/L	0.82		1.0 U
1,3,5-Trimethylbenzene	ug/L	6	71	-
1,3-Dichlorobenzene	ug/L			1.0 U
1,4-Dichlorobenzene	ug/L	0.48	26	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	5.0 U
2-Hexanone	ug/L	3.8	99	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	170	5.0 U
Acetone	ug/L	1800	1500	5.0 U
Benzene	ug/L	0.46	370	1.0 U
Bromodichloromethane	ug/L	0.13		1.0 U
Bromoform	ug/L	3.3	320	1.0 U
Bromomethane (Methyl bromide)	ug/L	0.75		1.0 U
Carbon disulfide	ug/L	81	0.92	1.0 U
Carbon tetrachloride	ug/L	0.46	13.3	1.0 U
Chlorobenzene	ug/L	7.8	1.3	1.0 U
Chloroethane	ug/L	830		1.0 U
Chloroform (Trichloromethane)	ug/L	0.22	1.8	1.0 U
Chloromethane (Methyl chloride)	ug/L	19		1.0 U
cis-1,2-Dichloroethene	ug/L	2.5		1.0 U
cis-1,3-Dichloropropene	ug/L			1.0 U
Cyclohexane	ug/L	1300		1.0 U
Dibromochloromethane	ug/L	0.87		1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	20		1.0 U
Ethylbenzene	ug/L	1.5	90	1.0 U
Isopropyl benzene	ug/L	45	2.6	1.0 U
Methyl acetate	ug/L	2000		5.0 U
Methyl cyclohexane	ug/L			1.0 U
Methyl tert butyl ether (MTBE)	ug/L	10	11070	1.0 U
Methylene chloride	ug/L	5	98.1	1.0 U
Styrene	ug/L	100	72	1.0 U
Tetrachloroethene	ug/L	1	111	1.0 U
Toluene	ug/L	110	2	1.0 U
trans-1,2-Dichloroethene	ug/L	6.8	970	1.0 U
trans-1,3-Dichloropropene	ug/L			1.0 U
Trichloroethene	ug/L	0.28	21	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	520		1.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	1000		1.0 U
Vinyl chloride	ug/L	0.019	930	1.0 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-109 WG-17338-110417-SG-020 11/04/2017 (Duplicate)
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	
Xylenes (total)	ug/L	19	13	2.0 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-109 WG-17338-110417-SG-020 11/04/2017 (Duplicate)
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	
Semi-Volatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71		10 U
2,4,5-Trichlorophenol	ug/L	120		10 U
2,4,6-Trichlorophenol	ug/L	1.2	4.9	10 U
2,4-Dichlorophenol	ug/L	4.6	11	10 U
2,4-Dimethylphenol	ug/L	36		10 U
2,4-Dinitrophenol	ug/L	3.9		20 U
2,4-Dinitrotoluene	ug/L	0.24	44	2.0 U
2,6-Dinitrotoluene	ug/L	0.049	81	2.0 U
2-Chloronaphthalene	ug/L	75		10 U
2-Chlorophenol	ug/L	9.1	24	10 U
2-Methylnaphthalene	ug/L	3.6	4.7	10 U
2-Methylphenol	ug/L	93	13	10 U
2-Nitroaniline	ug/L	19		10 U
2-Nitrophenol	ug/L			10 U
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	10 U
3-Nitroaniline	ug/L			10 U
4,6-Dinitro-2-methylphenol	ug/L	0.15		20 U
4-Bromophenyl phenyl ether	ug/L			10 U
4-Chloro-3-methylphenol	ug/L	140		10 U
4-Chloroaniline	ug/L	0.37	232	10 U
4-Chlorophenyl phenyl ether	ug/L			10 U
4-Methylphenol	ug/L	37	543	10 U
4-Nitroaniline	ug/L	3.8		10 U
4-Nitrophenol	ug/L			20 U
Acenaphthene	ug/L	53	5.8	10 U
Acenaphthylene	ug/L			10 U
Acetophenone	ug/L	190		10 U
Anthracene	ug/L	180	0.012	10 U
Atrazine	ug/L	0.3	1.8	2.0 U
Benzaldehyde	ug/L	19		10 U
Benzo(a)anthracene	ug/L	0.03	0.018	1.0 U
Benzo(a)pyrene	ug/L	0.025	0.015	1.0 U
Benzo(b)fluoranthene	ug/L	0.25		1.0 U
Benzo(g,h,i)perylene	ug/L			10 U
Benzo(k)fluoranthene	ug/L	2.5		1.0 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	10 U
bis(2-Chloroethoxy)methane	ug/L	5.9		10 U
bis(2-Chloroethyl)ether	ug/L	0.014		1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	2.0 U
Butyl benzylphthalate (BBP)	ug/L	16	19	10 U
Caprolactam	ug/L	990		10 U
Carbazole	ug/L			10 U
Chrysene	ug/L	25		2.0 U
Dibenz(a,h)anthracene	ug/L	0.025		1.0 U
Dibenzofuran	ug/L	0.79	3.7	10 U
Diethyl phthalate	ug/L	1500	210	10 U
Dimethyl phthalate	ug/L			10 U
Di-n-butylphthalate (DBP)	ug/L	90	19	10 U
Di-n-octyl phthalate (DnOP)	ug/L	20	22	10 U
Fluoranthene	ug/L	80	0.04	10 U

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-109 WG-17338-110417-SG-020 11/04/2017 (Duplicate)
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	
Fluorene	ug/L	29	3	10 U
Hexachlorobenzene	ug/L	0.0098	0.0003	1.0 U
Hexachlorobutadiene	ug/L	0.14	1.3	1.0 U
Hexachlorocyclopentadiene	ug/L	0.041		10 U
Hexachloroethane	ug/L	0.33	12	1.0 U
Indeno(1,2,3-cd)pyrene	ug/L	0.25		1.0 U
Isophorone	ug/L	78		10 U
Naphthalene	ug/L	0.12	1.1	10 U
Nitrobenzene	ug/L	0.14		1.0 U
N-Nitrosodi-n-propylamine	ug/L	0.011		1.0 U
N-Nitrosodiphenylamine	ug/L	12	210	10 U
Pentachlorophenol	ug/L	0.041	0.5	20 U
Phenanthrene	ug/L	12	0.4	10 U
Phenol	ug/L	580	4	10 U
Pyrene	ug/L	12	0.025	10 U

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

				Operable Unit: Sample Location: Sample ID: Sample Date:	OU-5 MW-109 WG-17338-110417-SG-020 11/04/2017 (Duplicate)
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)		
Metals		a	b		
Aluminum	ug/L	2000	87	47.2	
Aluminum (dissolved)	ug/L	2000	87	-	
Antimony	ug/L	0.78	30	2.0 U	
Antimony (dissolved)	ug/L	0.78	30	-	
Arsenic	ug/L	0.052	5	2.0 U	
Arsenic (dissolved)	ug/L	0.052	5	-	
Barium	ug/L	380	4	73.1 ^b	
Barium (dissolved)	ug/L	380	4	-	
Beryllium	ug/L	2.5	0.66	0.80 U	
Beryllium (dissolved)	ug/L	2.5	0.66	-	
Cadmium	ug/L	0.18	0.25	2.0 U	
Cadmium (dissolved)	ug/L	0.18	0.25	-	
Calcium	ug/L			26300	
Calcium (dissolved)	ug/L			-	
Chromium	ug/L	10	85	4.0 U	
Chromium (dissolved)	ug/L	10	85	-	
Chromium VI (hexavalent)	ug/L	0.035	11	-	
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-	
Cobalt	ug/L	0.6	23	4.0 U	
Cobalt (dissolved)	ug/L	0.6	23	-	
Copper	ug/L	80	9	4.0 U	
Copper (dissolved)	ug/L	80	9	-	
Iron	ug/L	1400	300	86.8 J	
Iron (dissolved)	ug/L	1400	300	-	
Lead	ug/L	15	2.5	1.2 U	
Lead (dissolved)	ug/L	15	2.5	-	
Magnesium	ug/L			16500	
Magnesium (dissolved)	ug/L			-	
Manganese	ug/L	43	120	31.2	
Manganese (dissolved)	ug/L	43	120	-	
Mercury	ug/L	0.063	0.026	0.20 U	
Mercury (dissolved)	ug/L	0.063	0.026	-	
Nickel	ug/L	39	52	5.6 U	
Nickel (dissolved)	ug/L	39	52	-	
Potassium	ug/L			2440	
Potassium (dissolved)	ug/L			-	
Selenium	ug/L	10	1	10.0 U	
Selenium (dissolved)	ug/L	10	1	-	
Silver	ug/L	9.4	3.2	2.0 U	
Silver (dissolved)	ug/L	9.4	3.2	-	
Sodium	ug/L			20500	
Sodium (dissolved)	ug/L			-	
Thallium	ug/L	0.02	0.8	0.80 U	
Thallium (dissolved)	ug/L	0.02	0.8	-	
Vanadium	ug/L	8.6	20	4.0 U	
Vanadium (dissolved)	ug/L	8.6	20	-	
Zinc	ug/L	600	120	38.5 U	
Zinc (dissolved)	ug/L	600	120	-	

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-109 WG-17338-110417-SG-020 11/04/2017 (Duplicate)
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-109 GW-11210099-081920-ST-007 08/19/2020	OU-5 MW-109R GW - 11222397- 011223-MA-16 01/12/2023	OU-5 MW-112 GW-01733818-0713-RM-01 07/13/2018	OU-5 MW-112 GW-11210099-081820-ST-005 08/18/2020
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Volatile Organic Compounds							
1,1,1-Trichloroethane	ug/L	200	11	-	-	1.0 U	-
1,1,2,2-Tetrachloroethane	ug/L	0.076	610	-	-	1.0 U	-
1,1,2-Trichloroethane	ug/L	0.041	1200	-	-	1.0 U	-
1,1-Dichloroethane	ug/L	2.8	47	-	-	1.0 U	-
1,1-Dichloroethene	ug/L	7	25	-	-	1.0 U	-
1,2,4-Trichlorobenzene	ug/L	0.4	24	-	-	1.0 U	-
1,2,4-Trimethylbenzene	ug/L	5.6	-	-	-	1.0 U	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.00033	-	-	-	1.0 U	-
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	-	-	-	1.0 U	-
1,2-Dichlorobenzene	ug/L	30	0.7	-	-	1.0 U	-
1,2-Dichloroethane	ug/L	0.17	100	-	-	1.0 U	-
1,2-Dichloropropane	ug/L	0.82	-	-	-	1.0 U	-
1,3,5-Trimethylbenzene	ug/L	6	71	-	-	-	-
1,3-Dichlorobenzene	ug/L	-	-	-	-	1.0 U	-
1,4-Dichlorobenzene	ug/L	0.48	26	-	-	1.0 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	-	-	5.0 U	-
2-Hexanone	ug/L	3.8	99	-	-	5.0 U	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	170	-	-	5.0 U	-
Acetone	ug/L	1800	1500	-	-	5.0 U	-
Benzene	ug/L	0.46	370	-	-	1.0 U	-
Bromodichloromethane	ug/L	0.13	-	-	-	1.0 U	-
Bromoform	ug/L	3.3	320	-	-	1.0 U	-
Bromomethane (Methyl bromide)	ug/L	0.75	-	-	-	1.0 U	-
Carbon disulfide	ug/L	81	0.92	-	-	0.27 J	-
Carbon tetrachloride	ug/L	0.46	13.3	-	-	1.0 U	-
Chlorobenzene	ug/L	7.8	1.3	-	-	1.0 U	-
Chloroethane	ug/L	830	-	-	-	1.0 U	-
Chloroform (Trichloromethane)	ug/L	0.22	1.8	-	-	1.5 ^a	-
Chloromethane (Methyl chloride)	ug/L	19	-	-	-	1.0 U	-
cis-1,2-Dichloroethene	ug/L	2.5	-	-	-	1.0 U	-
cis-1,3-Dichloropropene	ug/L	-	-	-	-	1.0 U	-
Cyclohexane	ug/L	1300	-	-	-	1.0 U	-
Dibromochloromethane	ug/L	0.87	-	-	-	1.0 U	-
Dichlorodifluoromethane (CFC-12)	ug/L	20	-	-	-	1.0 U	-
Ethylbenzene	ug/L	1.5	90	-	-	1.0 U	-
Isopropyl benzene	ug/L	45	2.6	-	-	1.0 U	-
Methyl acetate	ug/L	2000	-	-	-	5.0 U	-
Methyl cyclohexane	ug/L	-	-	-	-	1.0 U	-
Methyl tert butyl ether (MTBE)	ug/L	10	11070	-	-	1.0 U	-
Methylene chloride	ug/L	5	98.1	-	-	1.0 U	-
Styrene	ug/L	100	72	-	-	1.0 U	-
Tetrachloroethene	ug/L	1	111	-	-	1.0 U	-
Toluene	ug/L	110	2	-	-	1.0 U	-
trans-1,2-Dichloroethene	ug/L	6.8	970	-	-	1.0 U	-
trans-1,3-Dichloropropene	ug/L	-	-	-	-	1.0 U	-
Trichloroethene	ug/L	0.28	21	-	-	1.0 U	-
Trichlorofluoromethane (CFC-11)	ug/L	520	-	-	-	1.0 U	-
Trifluorotrichloroethane (CFC-113)	ug/L	1000	-	-	-	1.0 U	-
Vinyl chloride	ug/L	0.019	930	-	-	1.0 U	-

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-109 GW-11210099-081920-ST-007 08/19/2020	OU-5 MW-109R GW - 11222397- 011223-MA-16 01/12/2023	OU-5 MW-112 GW-01733818-0713-RM-01 07/13/2018	OU-5 MW-112 GW-11210099-081820-ST-005 08/18/2020
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Xylenes (total)	ug/L	19	13	-	-	2.0 U	-

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-109 GW-11210099-081920-ST-007 08/19/2020	OU-5 MW-109R GW - 11222397- 011223-MA-16 01/12/2023	OU-5 MW-112 GW-01733818-0713-RM-01 07/13/2018	OU-5 MW-112 GW-11210099-081820-ST-005 08/18/2020
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Semi-Volatile Organic Compounds							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71		-	-	10 U	-
2,4,5-Trichlorophenol	ug/L	120		-	-	10 U	-
2,4,6-Trichlorophenol	ug/L	1.2	4.9	-	-	10 U	-
2,4-Dichlorophenol	ug/L	4.6	11	-	-	10 U	-
2,4-Dimethylphenol	ug/L	36		-	-	10 U	-
2,4-Dinitrophenol	ug/L	3.9		-	-	20 U	-
2,4-Dinitrotoluene	ug/L	0.24	44	-	-	2.0 U	-
2,6-Dinitrotoluene	ug/L	0.049	81	-	-	2.0 U	-
2-Chloronaphthalene	ug/L	75		-	-	10 U	-
2-Chlorophenol	ug/L	9.1	24	-	-	10 U	-
2-Methylnaphthalene	ug/L	3.6	4.7	-	-	10 U	-
2-Methylphenol	ug/L	93	13	-	-	10 U	-
2-Nitroaniline	ug/L	19		-	-	10 U	-
2-Nitrophenol	ug/L			-	-	10 U	-
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	-	-	10 U	-
3-Nitroaniline	ug/L			-	-	10 U	-
4,6-Dinitro-2-methylphenol	ug/L	0.15		-	-	20 U	-
4-Bromophenyl phenyl ether	ug/L			-	-	10 U	-
4-Chloro-3-methylphenol	ug/L	140		-	-	10 U	-
4-Chloroaniline	ug/L	0.37	232	-	-	10 U	-
4-Chlorophenyl phenyl ether	ug/L			-	-	10 U	-
4-Methylphenol	ug/L	37	543	-	-	10 U	-
4-Nitroaniline	ug/L	3.8		-	-	10 U	-
4-Nitrophenol	ug/L			-	-	20 U	-
Acenaphthene	ug/L	53	5.8	-	-	10 U	-
Acenaphthylene	ug/L			-	-	10 U	-
Acetophenone	ug/L	190		-	-	10 U	-
Anthracene	ug/L	180	0.012	-	-	10 U	-
Atrazine	ug/L	0.3	1.8	-	-	2.0 U	-
Benzaldehyde	ug/L	19		-	-	10 U	-
Benzo(a)anthracene	ug/L	0.03	0.018	-	-	1.0 U	-
Benzo(a)pyrene	ug/L	0.025	0.015	-	-	1.0 U	-
Benzo(b)fluoranthene	ug/L	0.25		-	-	2.0 U	-
Benzo(g,h,i)perylene	ug/L			-	-	10 UJ	-
Benzo(k)fluoranthene	ug/L	2.5		-	-	1.0 U	-
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	-	-	10 U	-
bis(2-Chloroethoxy)methane	ug/L	5.9		-	-	10 U	-
bis(2-Chloroethyl)ether	ug/L	0.014		-	-	1.0 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	-	-	2.0 U	-
Butyl benzylphthalate (BBP)	ug/L	16	19	-	-	10 U	-
Caprolactam	ug/L	990		-	-	10 U	-
Carbazole	ug/L			-	-	10 U	-
Chrysene	ug/L	25		-	-	2.0 U	-
Dibenz(a,h)anthracene	ug/L	0.025		-	-	1.0 UJ	-
Dibenzofuran	ug/L	0.79	3.7	-	-	10 U	-
Diethyl phthalate	ug/L	1500	210	-	-	10 U	-
Dimethyl phthalate	ug/L			-	-	10 U	-
Di-n-butylphthalate (DBP)	ug/L	90	19	-	-	10 U	-
Di-n-octyl phthalate (DnOP)	ug/L	20	22	-	-	10 U	-
Fluoranthene	ug/L	80	0.04	-	-	10 U	-

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**Historical Groundwater Analytical Results
Long-Term Stewardship Plan
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-109 GW-11210099-081920-ST-007 08/19/2020	OU-5 MW-109R GW - 11222397- 011223-MA-16 01/12/2023	OU-5 MW-112 GW-01733818-0713-RM-01 07/13/2018	OU-5 MW-112 GW-11210099-081820-ST-005 08/18/2020
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Fluorene	ug/L	29	3	-	-	10 U	-
Hexachlorobenzene	ug/L	0.0098	0.0003	-	-	1.0 U	-
Hexachlorobutadiene	ug/L	0.14	1.3	-	-	1.0 U	-
Hexachlorocyclopentadiene	ug/L	0.041		-	-	10 U	-
Hexachloroethane	ug/L	0.33	12	-	-	2.0 U	-
Indeno(1,2,3-cd)pyrene	ug/L	0.25		-	-	2.0 U	-
Isophorone	ug/L	78		-	-	10 U	-
Naphthalene	ug/L	0.12	1.1	-	-	10 U	-
Nitrobenzene	ug/L	0.14		-	-	1.0 U	-
N-Nitrosodi-n-propylamine	ug/L	0.011		-	-	1.0 U	-
N-Nitrosodiphenylamine	ug/L	12	210	-	-	10 U	-
Pentachlorophenol	ug/L	0.041	0.5	-	-	20 U	-
Phenanthrene	ug/L	12	0.4	-	-	10 U	-
Phenol	ug/L	580	4	-	-	10 U	-
Pyrene	ug/L	12	0.025	-	-	10 U	-

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
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Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-109 GW-11210099-081920-ST-007 08/19/2020	OU-5 MW-109R GW - 11222397- 011223-MA-16 01/12/2023	OU-5 MW-112 GW-01733818-0713-RM-01 07/13/2018	OU-5 MW-112 GW-11210099-081820-ST-005 08/18/2020
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Metals							
		a	b				
Aluminum	ug/L	2000	87	156 J ^b	1200 ^b	39.5 J	76.9 U
Aluminum (dissolved)	ug/L	2000	87	-	-	-	-
Antimony	ug/L	0.78	30	3.7 U	1.9 J ^a	2.0 U	49.4 ^{ab}
Antimony (dissolved)	ug/L	0.78	30	-	-	-	-
Arsenic	ug/L	0.052	5	3.3 U	1.6 J ^a	2.2 ^a	3.3 U
Arsenic (dissolved)	ug/L	0.052	5	-	-	-	-
Barium	ug/L	380	4	81.9 J ^b	55.0 ^b	156 ^b	247 ^b
Barium (dissolved)	ug/L	380	4	-	-	-	-
Beryllium	ug/L	2.5	0.66	0.17 U	0.13 U	0.80 U	0.17 U
Beryllium (dissolved)	ug/L	2.5	0.66	-	-	-	-
Cadmium	ug/L	0.18	0.25	0.33 U	0.39 U	2.0 U	0.36 J ^{ab}
Cadmium (dissolved)	ug/L	0.18	0.25	-	-	-	-
Calcium	ug/L			28400 J	90800	37800	40400 J
Calcium (dissolved)	ug/L			-	-	-	-
Chromium	ug/L	10	85	5.0 U	7.3	4.0 U	5.0 U
Chromium (dissolved)	ug/L	10	85	-	-	-	-
Chromium VI (hexavalent)	ug/L	0.035	11	-	-	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-	-	-	-
Cobalt	ug/L	0.6	23	2.0 U	2.8 J ^a	10.8 ^a	5.4 J ^a
Cobalt (dissolved)	ug/L	0.6	23	-	-	-	-
Copper	ug/L	80	9	6.9 U	16.9 ^b	4.0 U	6.9 U
Copper (dissolved)	ug/L	80	9	-	-	-	-
Iron	ug/L	1400	300	139 J	4170 ^{ab}	1330 ^b	80.8 U
Iron (dissolved)	ug/L	1400	300	-	-	-	-
Lead	ug/L	15	2.5	2.5 J	11.9 ^b	1.2 U	5.2 J ^b
Lead (dissolved)	ug/L	15	2.5	-	-	-	-
Magnesium	ug/L			19700	33800	20900	46000
Magnesium (dissolved)	ug/L			-	-	-	-
Manganese	ug/L	43	120	50.4 J ^a	125 ^{ab}	3840 ^{ab}	12200 J ^{ab}
Manganese (dissolved)	ug/L	43	120	-	67.0 ^a	-	-
Mercury	ug/L	0.063	0.026	0.091 U	0.10 J ^{ab}	0.20 U	0.091 U
Mercury (dissolved)	ug/L	0.063	0.026	-	-	-	-
Nickel	ug/L	39	52	5.2 J	6.0	3.7 J	4.3 J
Nickel (dissolved)	ug/L	39	52	-	-	-	-
Potassium	ug/L			2790 J	35100	7050	3660 J
Potassium (dissolved)	ug/L			-	-	-	-
Selenium	ug/L	10	1	5.9 U	0.59 U	10.0 U	7.6 J ^b
Selenium (dissolved)	ug/L	10	1	-	-	-	-
Silver	ug/L	9.4	3.2	5.8 U	0.29 U	2.0 U	5.8 U
Silver (dissolved)	ug/L	9.4	3.2	-	-	-	-
Sodium	ug/L			24400 J	49900	41600	80500 J
Sodium (dissolved)	ug/L			-	-	-	-
Thallium	ug/L	0.02	0.8	4.1 U	0.21 U	0.80 U	11.4 J ^{ab}
Thallium (dissolved)	ug/L	0.02	0.8	-	-	-	-
Vanadium	ug/L	8.6	20	7.2 U	6.7	4.0 U	7.2 U
Vanadium (dissolved)	ug/L	8.6	20	-	-	-	-
Zinc	ug/L	600	120	7.3 J	20.8	16.0 U	1.2 U
Zinc (dissolved)	ug/L	600	120	-	-	-	-

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-109 GW-11210099-081920-ST-007 08/19/2020	OU-5 MW-109R GW - 11222397- 011223-MA-16 01/12/2023	OU-5 MW-112 GW-01733818-0713-RM-01 07/13/2018	OU-5 MW-112 GW-11210099-081820-ST-005 08/18/2020
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				

Notes:

- ug/L = micrograms per liter; DNREC = Department of Natural Resources and Environmental Substane Cleanup Act;
- J = estimated concentration; U = not detected at associated reporting limit; UJ = not detected estimated; R = rejected
- Red values exceed the Delaware DNREC Hazardous Substance Cleanup Act Groundwater April 2023
- a) Concentration exceeds the HSCA Groundwater Screening Levels, April 2023
- b) Concentration exceeds the HSCA Ecological Surface Water Fresh (Eco Fresh) Screening
- "-" compound was not analyzed for

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-112 GW-11222397-011123-ZB-12 01/11/2023	OU-5 MW-113 GW-01733818-0713-RM-02 07/13/2018	OU-5 MW-113 GW-01733818-0713-RM-03 07/13/2018 (Duplicate)	OU-5 MW-113 GW-11210099-081820-ST-004 08/18/2020
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Volatile Organic Compounds							
1,1,1-Trichloroethane	ug/L	200	11	-	1.0 U	1.0 U	-
1,1,2,2-Tetrachloroethane	ug/L	0.076	610	-	1.0 U	1.0 U	-
1,1,2-Trichloroethane	ug/L	0.041	1200	-	1.0 U	1.0 U	-
1,1-Dichloroethane	ug/L	2.8	47	-	1.0 U	1.0 U	-
1,1-Dichloroethene	ug/L	7	25	-	1.0 U	1.0 U	-
1,2,4-Trichlorobenzene	ug/L	0.4	24	-	1.0 U	1.0 U	-
1,2,4-Trimethylbenzene	ug/L	5.6		-	1.0 U	1.0 U	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.00033		-	1.0 U	1.0 U	-
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075		-	1.0 U	1.0 U	-
1,2-Dichlorobenzene	ug/L	30	0.7	-	1.0 U	1.0 U	-
1,2-Dichloroethane	ug/L	0.17	100	-	1.0 U	1.0 U	-
1,2-Dichloropropane	ug/L	0.82		-	1.0 U	1.0 U	-
1,3,5-Trimethylbenzene	ug/L	6	71	-	-	-	-
1,3-Dichlorobenzene	ug/L			-	1.0 U	1.0 U	-
1,4-Dichlorobenzene	ug/L	0.48	26	-	1.0 U	1.0 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	-	5.0 U	5.0 U	-
2-Hexanone	ug/L	3.8	99	-	5.0 U	5.0 U	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	170	-	5.0 U	5.0 U	-
Acetone	ug/L	1800	1500	-	5.0 U	5.0 U	-
Benzene	ug/L	0.46	370	-	1.0 U	1.0 U	-
Bromodichloromethane	ug/L	0.13		-	1.0 U	1.0 U	-
Bromoform	ug/L	3.3	320	-	1.0 U	1.0 U	-
Bromomethane (Methyl bromide)	ug/L	0.75		-	1.0 U	1.0 U	-
Carbon disulfide	ug/L	81	0.92	-	1.0 U	1.0 U	-
Carbon tetrachloride	ug/L	0.46	13.3	-	1.0 U	1.0 U	-
Chlorobenzene	ug/L	7.8	1.3	-	1.0 U	1.0 U	-
Chloroethane	ug/L	830		-	1.0 U	1.0 U	-
Chloroform (Trichloromethane)	ug/L	0.22	1.8	-	1.0 U	1.0 U	-
Chloromethane (Methyl chloride)	ug/L	19		-	1.0 U	1.0 U	-
cis-1,2-Dichloroethene	ug/L	2.5		-	1.0 U	1.0 U	-
cis-1,3-Dichloropropene	ug/L			-	1.0 U	1.0 U	-
Cyclohexane	ug/L	1300		-	1.0 U	1.0 U	-
Dibromochloromethane	ug/L	0.87		-	1.0 U	1.0 U	-
Dichlorodifluoromethane (CFC-12)	ug/L	20		-	1.0 U	1.0 U	-
Ethylbenzene	ug/L	1.5	90	-	1.0 U	1.0 U	-
Isopropyl benzene	ug/L	45	2.6	-	1.0 U	1.0 U	-
Methyl acetate	ug/L	2000		-	5.0 U	5.0 U	-
Methyl cyclohexane	ug/L			-	1.0 U	1.0 U	-
Methyl tert butyl ether (MTBE)	ug/L	10	11070	-	1.0 U	1.0 U	-
Methylene chloride	ug/L	5	98.1	-	1.0 U	1.0 U	-
Styrene	ug/L	100	72	-	1.0 U	1.0 U	-
Tetrachloroethene	ug/L	1	111	-	1.0 U	1.0 U	-
Toluene	ug/L	110	2	-	1.0 U	1.0 U	-
trans-1,2-Dichloroethene	ug/L	6.8	970	-	1.0 U	1.0 U	-
trans-1,3-Dichloropropene	ug/L			-	1.0 U	1.0 U	-
Trichloroethene	ug/L	0.28	21	-	1.0 U	1.0 U	-
Trichlorofluoromethane (CFC-11)	ug/L	520		-	1.0 U	1.0 U	-
Trifluorotrichloroethane (CFC-113)	ug/L	1000		-	1.0 U	1.0 U	-
Vinyl chloride	ug/L	0.019	930	-	1.0 U	1.0 U	-

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-112 GW-11222397-011123-ZB-12 01/11/2023	OU-5 MW-113 GW-01733818-0713-RM-02 07/13/2018	OU-5 MW-113 GW-01733818-0713-RM-03 07/13/2018 (Duplicate)	OU-5 MW-113 GW-11210099-081820-ST-004 08/18/2020
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Xylenes (total)	ug/L	19	13	-	2.0 U	2.0 U	-

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-112 GW-11222397-011123-ZB-12 01/11/2023	OU-5 MW-113 GW-01733818-0713-RM-02 07/13/2018	OU-5 MW-113 GW-01733818-0713-RM-03 07/13/2018 (Duplicate)	OU-5 MW-113 GW-11210099-081820-ST-004 08/18/2020
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Semi-Volatile Organic Compounds							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71		-	10 U	10 U	-
2,4,5-Trichlorophenol	ug/L	120		-	10 U	10 U	-
2,4,6-Trichlorophenol	ug/L	1.2	4.9	-	10 U	10 U	-
2,4-Dichlorophenol	ug/L	4.6	11	-	10 U	10 U	-
2,4-Dimethylphenol	ug/L	36		-	10 U	10 U	-
2,4-Dinitrophenol	ug/L	3.9		-	20 U	20 U	-
2,4-Dinitrotoluene	ug/L	0.24	44	-	2.0 U	2.0 U	-
2,6-Dinitrotoluene	ug/L	0.049	81	-	2.0 U	2.0 U	-
2-Chloronaphthalene	ug/L	75		-	10 U	10 U	-
2-Chlorophenol	ug/L	9.1	24	-	10 U	10 U	-
2-Methylnaphthalene	ug/L	3.6	4.7	-	10 U	10 U	-
2-Methylphenol	ug/L	93	13	-	10 U	10 U	-
2-Nitroaniline	ug/L	19		-	10 U	10 U	-
2-Nitrophenol	ug/L			-	10 U	10 U	-
3,3'-Dichlorobenzidine	ug/L	0.13	4.5	-	10 U	10 U	-
3-Nitroaniline	ug/L			-	10 U	10 U	-
4,6-Dinitro-2-methylphenol	ug/L	0.15		-	20 U	20 U	-
4-Bromophenyl phenyl ether	ug/L			-	10 U	10 U	-
4-Chloro-3-methylphenol	ug/L	140		-	10 U	10 U	-
4-Chloroaniline	ug/L	0.37	232	-	10 U	10 U	-
4-Chlorophenyl phenyl ether	ug/L			-	10 U	10 U	-
4-Methylphenol	ug/L	37	543	-	10 U	10 U	-
4-Nitroaniline	ug/L	3.8		-	10 U	10 U	-
4-Nitrophenol	ug/L			-	20 U	20 U	-
Acenaphthene	ug/L	53	5.8	-	10 U	10 U	-
Acenaphthylene	ug/L			-	10 U	10 U	-
Acetophenone	ug/L	190		-	10 U	10 U	-
Anthracene	ug/L	180	0.012	-	10 U	10 U	-
Atrazine	ug/L	0.3	1.8	-	2.0 U	2.0 U	-
Benzaldehyde	ug/L	19		-	10 U	10 U	-
Benzo(a)anthracene	ug/L	0.03	0.018	-	1.0 U	1.0 U	-
Benzo(a)pyrene	ug/L	0.025	0.015	-	1.0 U	1.0 U	-
Benzo(b)fluoranthene	ug/L	0.25		-	2.0 U	2.0 U	-
Benzo(g,h,i)perylene	ug/L			-	10 UJ	10 UJ	-
Benzo(k)fluoranthene	ug/L	2.5		-	1.0 U	1.0 U	-
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14	-	10 U	10 U	-
bis(2-Chloroethoxy)methane	ug/L	5.9		-	10 U	10 U	-
bis(2-Chloroethyl)ether	ug/L	0.014		-	1.0 U	1.0 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16	-	2.0 U	2.0 U	-
Butyl benzylphthalate (BBP)	ug/L	16	19	-	10 U	10 U	-
Caprolactam	ug/L	990		-	10 U	10 U	-
Carbazole	ug/L			-	10 U	10 U	-
Chrysene	ug/L	25		-	2.0 U	2.0 U	-
Dibenz(a,h)anthracene	ug/L	0.025		-	1.0 UJ	1.0 UJ	-
Dibenzofuran	ug/L	0.79	3.7	-	10 U	10 U	-
Diethyl phthalate	ug/L	1500	210	-	10 U	10 U	-
Dimethyl phthalate	ug/L			-	10 U	10 U	-
Di-n-butylphthalate (DBP)	ug/L	90	19	-	10 U	10 U	-
Di-n-octyl phthalate (DnOP)	ug/L	20	22	-	10 U	10 U	-
Fluoranthene	ug/L	80	0.04	-	10 U	10 U	-

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-112 GW-11222397-011123-ZB-12 01/11/2023	OU-5 MW-113 GW-01733818-0713-RM-02 07/13/2018	OU-5 MW-113 GW-01733818-0713-RM-03 07/13/2018 (Duplicate)	OU-5 MW-113 GW-11210099-081820-ST-004 08/18/2020
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Fluorene	ug/L	29	3	-	10 U	10 U	-
Hexachlorobenzene	ug/L	0.0098	0.0003	-	1.0 U	1.0 U	-
Hexachlorobutadiene	ug/L	0.14	1.3	-	1.0 U	1.0 U	-
Hexachlorocyclopentadiene	ug/L	0.041		-	10 U	10 U	-
Hexachloroethane	ug/L	0.33	12	-	2.0 U	2.0 U	-
Indeno(1,2,3-cd)pyrene	ug/L	0.25		-	2.0 U	2.0 U	-
Isophorone	ug/L	78		-	10 U	10 U	-
Naphthalene	ug/L	0.12	1.1	-	10 U	10 U	-
Nitrobenzene	ug/L	0.14		-	1.0 U	1.0 U	-
N-Nitrosodi-n-propylamine	ug/L	0.011		-	1.0 U	1.0 U	-
N-Nitrosodiphenylamine	ug/L	12	210	-	10 U	10 U	-
Pentachlorophenol	ug/L	0.041	0.5	-	20 U	20 U	-
Phenanthrene	ug/L	12	0.4	-	10 U	10 U	-
Phenol	ug/L	580	4	-	10 U	10 U	-
Pyrene	ug/L	12	0.025	-	10 U	10 U	-

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-112 GW-11222397-011123-ZB-12 01/11/2023	OU-5 MW-113 GW-01733818-0713-RM-02 07/13/2018	OU-5 MW-113 GW-01733818-0713-RM-03 07/13/2018 (Duplicate)	OU-5 MW-113 GW-11210099-081820-ST-004 08/18/2020
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				
Metals							
		a	b				
Aluminum	ug/L	2000	87	1920 ^b	22.4 J	40.0 U	107 J ^b
Aluminum (dissolved)	ug/L	2000	87	-	-	-	-
Antimony	ug/L	0.78	30	0.76 U	2.0 U	2.0 U	15.2 J ^a
Antimony (dissolved)	ug/L	0.78	30	-	-	-	-
Arsenic	ug/L	0.052	5	1.0 J ^a	0.77 J ^a	0.86 J ^a	3.3 U
Arsenic (dissolved)	ug/L	0.052	5	-	-	-	-
Barium	ug/L	380	4	327 ^b	226 ^b	224 ^b	162 J ^b
Barium (dissolved)	ug/L	380	4	-	-	-	-
Beryllium	ug/L	2.5	0.66	0.13 U	0.80 U	0.80 U	0.17 U
Beryllium (dissolved)	ug/L	2.5	0.66	-	-	-	-
Cadmium	ug/L	0.18	0.25	0.39 U	2.0 U	2.0 U	0.33 U
Cadmium (dissolved)	ug/L	0.18	0.25	-	-	-	-
Calcium	ug/L			74300	35100	34400	24600 J
Calcium (dissolved)	ug/L			-	-	-	-
Chromium	ug/L	10	85	3.4 J	4.0 U	4.0 U	5.0 U
Chromium (dissolved)	ug/L	10	85	-	-	-	-
Chromium VI (hexavalent)	ug/L	0.035	11	-	-	-	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-	-	-	-
Cobalt	ug/L	0.6	23	7.4 ^a	9.2 ^a	8.8 ^a	14.6 J ^a
Cobalt (dissolved)	ug/L	0.6	23	-	-	-	-
Copper	ug/L	80	9	5.1 U	4.0 U	4.0 U	6.9 U
Copper (dissolved)	ug/L	80	9	-	-	-	-
Iron	ug/L	1400	300	3500 ^{ab}	4680 ^{ab}	4570 ^{ab}	1100 J ^b
Iron (dissolved)	ug/L	1400	300	-	-	-	-
Lead	ug/L	15	2.5	2.7 ^b	1.2 U	1.2 U	3.3 J ^b
Lead (dissolved)	ug/L	15	2.5	-	-	-	-
Magnesium	ug/L			52700	26100	25100	22700
Magnesium (dissolved)	ug/L			-	-	-	-
Manganese	ug/L	43	120	1270 ^{ab}	2400 ^{ab}	2330 ^{ab}	4140 J ^{ab}
Manganese (dissolved)	ug/L	43	120	1170 ^{ab}	-	-	-
Mercury	ug/L	0.063	0.026	0.091 U	0.20 U	0.20 U	0.091 U
Mercury (dissolved)	ug/L	0.063	0.026	-	-	-	-
Nickel	ug/L	39	52	9.3 U	1.5 J	1.9 J	4.1 U
Nickel (dissolved)	ug/L	39	52	-	-	-	-
Potassium	ug/L			8730	7000	6820	4510 J
Potassium (dissolved)	ug/L			-	-	-	-
Selenium	ug/L	10	1	0.59 U	10.0 U	10.0 U	5.9 U
Selenium (dissolved)	ug/L	10	1	-	-	-	-
Silver	ug/L	9.4	3.2	0.29 U	2.0 U	2.0 U	5.8 U
Silver (dissolved)	ug/L	9.4	3.2	-	-	-	-
Sodium	ug/L			84800	61800	59500	69900 J
Sodium (dissolved)	ug/L			-	-	-	-
Thallium	ug/L	0.02	0.8	0.21 U	0.80 U	0.80 U	4.7 J ^{ab}
Thallium (dissolved)	ug/L	0.02	0.8	-	-	-	-
Vanadium	ug/L	8.6	20	5.3	4.0 U	4.0 U	7.2 U
Vanadium (dissolved)	ug/L	8.6	20	-	-	-	-
Zinc	ug/L	600	120	20.5	16.0 U	16.0 U	1.2 U
Zinc (dissolved)	ug/L	600	120	-	-	-	-

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-112 GW-11222397-011123-ZB-12 01/11/2023	OU-5 MW-113 GW-01733818-0713-RM-02 07/13/2018	OU-5 MW-113 GW-01733818-0713-RM-03 07/13/2018 (Duplicate)	OU-5 MW-113 GW-11210099-081820-ST-004 08/18/2020
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)				

Control; HSCA = Hazardous

, associated reporting limit is

Screening Levels, updated

Levels, April 2023

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Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

				Operable Unit: Sample Location: Sample ID: Sample Date:	OU-5 MW-113R GW - 11222397- 011223-MA-15 01/12/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)		
Volatile Organic Compounds					
1,1,1-Trichloroethane	ug/L	200	11	-	-
1,1,2,2-Tetrachloroethane	ug/L	0.076	610	-	-
1,1,2-Trichloroethane	ug/L	0.041	1200	-	-
1,1-Dichloroethane	ug/L	2.8	47	-	-
1,1-Dichloroethene	ug/L	7	25	-	-
1,2,4-Trichlorobenzene	ug/L	0.4	24	-	-
1,2,4-Trimethylbenzene	ug/L	5.6		-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.00033		-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075		-	-
1,2-Dichlorobenzene	ug/L	30	0.7	-	-
1,2-Dichloroethane	ug/L	0.17	100	-	-
1,2-Dichloropropane	ug/L	0.82		-	-
1,3,5-Trimethylbenzene	ug/L	6	71	-	-
1,3-Dichlorobenzene	ug/L			-	-
1,4-Dichlorobenzene	ug/L	0.48	26	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	14000	-	-
2-Hexanone	ug/L	3.8	99	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	170	-	-
Acetone	ug/L	1800	1500	-	-
Benzene	ug/L	0.46	370	-	-
Bromodichloromethane	ug/L	0.13		-	-
Bromoform	ug/L	3.3	320	-	-
Bromomethane (Methyl bromide)	ug/L	0.75		-	-
Carbon disulfide	ug/L	81	0.92	-	-
Carbon tetrachloride	ug/L	0.46	13.3	-	-
Chlorobenzene	ug/L	7.8	1.3	-	-
Chloroethane	ug/L	830		-	-
Chloroform (Trichloromethane)	ug/L	0.22	1.8	-	-
Chloromethane (Methyl chloride)	ug/L	19		-	-
cis-1,2-Dichloroethene	ug/L	2.5		-	-
cis-1,3-Dichloropropene	ug/L			-	-
Cyclohexane	ug/L	1300		-	-
Dibromochloromethane	ug/L	0.87		-	-
Dichlorodifluoromethane (CFC-12)	ug/L	20		-	-
Ethylbenzene	ug/L	1.5	90	-	-
Isopropyl benzene	ug/L	45	2.6	-	-
Methyl acetate	ug/L	2000		-	-
Methyl cyclohexane	ug/L			-	-
Methyl tert butyl ether (MTBE)	ug/L	10	11070	-	-
Methylene chloride	ug/L	5	98.1	-	-
Styrene	ug/L	100	72	-	-
Tetrachloroethene	ug/L	1	111	-	-
Toluene	ug/L	110	2	-	-
trans-1,2-Dichloroethene	ug/L	6.8	970	-	-
trans-1,3-Dichloropropene	ug/L			-	-
Trichloroethene	ug/L	0.28	21	-	-
Trichlorofluoromethane (CFC-11)	ug/L	520		-	-
Trifluorotrichloroethane (CFC-113)	ug/L	1000		-	-
Vinyl chloride	ug/L	0.019	930	-	-

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

				Operable Unit: Sample Location: Sample ID: Sample Date:	OU-5 MW-113R GW - 11222397- 011223-MA-15 01/12/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)		
Xylenes (total)	ug/L	19	13	-	

Appendix E

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Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

				Operable Unit: Sample Location: Sample ID: Sample Date:	OU-5 MW-113R GW - 11222397- 011223-MA-15 01/12/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)		
Semi-Volatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	71			-
2,4,5-Trichlorophenol	ug/L	120			-
2,4,6-Trichlorophenol	ug/L	1.2	4.9		-
2,4-Dichlorophenol	ug/L	4.6	11		-
2,4-Dimethylphenol	ug/L	36			-
2,4-Dinitrophenol	ug/L	3.9			-
2,4-Dinitrotoluene	ug/L	0.24	44		-
2,6-Dinitrotoluene	ug/L	0.049	81		-
2-Chloronaphthalene	ug/L	75			-
2-Chlorophenol	ug/L	9.1	24		-
2-Methylnaphthalene	ug/L	3.6	4.7		-
2-Methylphenol	ug/L	93	13		-
2-Nitroaniline	ug/L	19			-
2-Nitrophenol	ug/L				-
3,3'-Dichlorobenzidine	ug/L	0.13	4.5		-
3-Nitroaniline	ug/L				-
4,6-Dinitro-2-methylphenol	ug/L	0.15			-
4-Bromophenyl phenyl ether	ug/L				-
4-Chloro-3-methylphenol	ug/L	140			-
4-Chloroaniline	ug/L	0.37	232		-
4-Chlorophenyl phenyl ether	ug/L				-
4-Methylphenol	ug/L	37	543		-
4-Nitroaniline	ug/L	3.8			-
4-Nitrophenol	ug/L				-
Acenaphthene	ug/L	53	5.8		-
Acenaphthylene	ug/L				-
Acetophenone	ug/L	190			-
Anthracene	ug/L	180	0.012		-
Atrazine	ug/L	0.3	1.8		-
Benzaldehyde	ug/L	19			-
Benzo(a)anthracene	ug/L	0.03	0.018		-
Benzo(a)pyrene	ug/L	0.025	0.015		-
Benzo(b)fluoranthene	ug/L	0.25			-
Benzo(g,h,i)perylene	ug/L				-
Benzo(k)fluoranthene	ug/L	2.5			-
Biphenyl (1,1-Biphenyl)	ug/L	0.083	14		-
bis(2-Chloroethoxy)methane	ug/L	5.9			-
bis(2-Chloroethyl)ether	ug/L	0.014			-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	16		-
Butyl benzylphthalate (BBP)	ug/L	16	19		-
Caprolactam	ug/L	990			-
Carbazole	ug/L				-
Chrysene	ug/L	25			-
Dibenz(a,h)anthracene	ug/L	0.025			-
Dibenzofuran	ug/L	0.79	3.7		-
Diethyl phthalate	ug/L	1500	210		-
Dimethyl phthalate	ug/L				-
Di-n-butylphthalate (DBP)	ug/L	90	19		-
Di-n-octyl phthalate (DnOP)	ug/L	20	22		-
Fluoranthene	ug/L	80	0.04		-

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-113R GW - 11222397- 011223-MA-15 01/12/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	
Fluorene	ug/L	29	3	-
Hexachlorobenzene	ug/L	0.0098	0.0003	-
Hexachlorobutadiene	ug/L	0.14	1.3	-
Hexachlorocyclopentadiene	ug/L	0.041		-
Hexachloroethane	ug/L	0.33	12	-
Indeno(1,2,3-cd)pyrene	ug/L	0.25		-
Isophorone	ug/L	78		-
Naphthalene	ug/L	0.12	1.1	-
Nitrobenzene	ug/L	0.14		-
N-Nitrosodi-n-propylamine	ug/L	0.011		-
N-Nitrosodiphenylamine	ug/L	12	210	-
Pentachlorophenol	ug/L	0.041	0.5	-
Phenanthrene	ug/L	12	0.4	-
Phenol	ug/L	580	4	-
Pyrene	ug/L	12	0.025	-

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample ID: Sample Date:				OU-5 MW-113R GW - 11222397- 011223-MA-15 01/12/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)	
Metals		a	b	
Aluminum	ug/L	2000	87	1040 ^b
Aluminum (dissolved)	ug/L	2000	87	-
Antimony	ug/L	0.78	30	0.76 U
Antimony (dissolved)	ug/L	0.78	30	-
Arsenic	ug/L	0.052	5	0.89 U
Arsenic (dissolved)	ug/L	0.052	5	-
Barium	ug/L	380	4	264 ^b
Barium (dissolved)	ug/L	380	4	-
Beryllium	ug/L	2.5	0.66	0.13 U
Beryllium (dissolved)	ug/L	2.5	0.66	-
Cadmium	ug/L	0.18	0.25	0.39 U
Cadmium (dissolved)	ug/L	0.18	0.25	-
Calcium	ug/L			36600
Calcium (dissolved)	ug/L			-
Chromium	ug/L	10	85	2.6 J
Chromium (dissolved)	ug/L	10	85	-
Chromium VI (hexavalent)	ug/L	0.035	11	-
Chromium VI (hexavalent) (dissolved)	ug/L	0.035	11	-
Cobalt	ug/L	0.6	23	17.7 ^a
Cobalt (dissolved)	ug/L	0.6	23	-
Copper	ug/L	80	9	2.5 U
Copper (dissolved)	ug/L	80	9	-
Iron	ug/L	1400	300	833 ^b
Iron (dissolved)	ug/L	1400	300	-
Lead	ug/L	15	2.5	0.84 J
Lead (dissolved)	ug/L	15	2.5	-
Magnesium	ug/L			31400
Magnesium (dissolved)	ug/L			-
Manganese	ug/L	43	120	4720 ^{ab}
Manganese (dissolved)	ug/L	43	120	4850 ^{ab}
Mercury	ug/L	0.063	0.026	0.091 U
Mercury (dissolved)	ug/L	0.063	0.026	-
Nickel	ug/L	39	52	3.4 J
Nickel (dissolved)	ug/L	39	52	-
Potassium	ug/L			4550
Potassium (dissolved)	ug/L			-
Selenium	ug/L	10	1	0.59 U
Selenium (dissolved)	ug/L	10	1	-
Silver	ug/L	9.4	3.2	0.29 U
Silver (dissolved)	ug/L	9.4	3.2	-
Sodium	ug/L			74300
Sodium (dissolved)	ug/L			-
Thallium	ug/L	0.02	0.8	0.21 U
Thallium (dissolved)	ug/L	0.02	0.8	-
Vanadium	ug/L	8.6	20	3.8 J
Vanadium (dissolved)	ug/L	8.6	20	-
Zinc	ug/L	600	120	6.5 U
Zinc (dissolved)	ug/L	600	120	-

Appendix E

Historical Groundwater Analytical Results
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

				Operable Unit: Sample Location: Sample ID: Sample Date:	OU-5 MW-113R GW - 11222397- 011223-MA-15 01/12/2023
Parameters	Units	HSCA Groundwater Screening Levels (April 2023)	HSCA Ecological Surface Water Fresh Screening Levels (April 2023)		

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.

In the following sections, groundwater results from the four OU-5 perimeter wells (MW-48R, MW-109R, MW-112, and MW-113R) sampled in 2023 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 2023 at concentrations that exceeded the HSCA Eco Fresh Screening Levels, which are as follows:

- Aluminum, barium, and iron – all four wells (MW-48R, MW-109R, MW-112 and MW-113R)
- Arsenic, beryllium, vanadium, and zinc - one well (MW-112)
- Copper - one well (MW-109R)
- Lead - three wells (MW-48R, MW-109R, and MW-112)
- Total and dissolved Manganese - three wells (MW-48R, MW-112, and MW-113R)

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 x 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 x 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 ten 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 13.28 ug/L for aluminum, 2.0x10⁻³ ug/L for arsenic, 0.14 ug/L for barium, 1.0x10⁻³ ug/L for beryllium, 7.6x10⁻³ ug/L for copper, 16.47 ug/L for iron, 3.2x10⁻² ug/L for lead, 2.3 ug/L for manganese, 4.1x10⁻² ug/L for vanadium, and 8.1x10⁻² ug/L for zinc (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	32,100	13.28
Arsenic	5	5.3	2.0x10 ⁻³
Barium	4	337	0.14
Beryllium	0.66	2.6	1.0x10 ⁻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)
Copper	9	18.3	7.6×10^{-3}
Iron	300	39,800	16.47
Lead	2.5	76.9	3.2×10^{-2}
Manganese	120	5,440	2.3
Vanadium	20	99.7	4.1×10^{-2}
Zinc	120	196	8.1×10^{-2}

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, and Year 1 LTS groundwater sampling evaluations.

Appendix G

OU 5 Cap Inspection Form

RACER Trust
Former GM Assembly Plant
Wilmington, Delaware
OU-5 Permanent Cap Inspection Form

Site OU-5 Test Track Area Permanent Cap
Name/Description:
Inspector: Chris Townsend
Weather: Overcast
Date/Time: 11/17/2023 10:27

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	
b	Areas of erosion of capped area?	No	Missing grass in north/east side berm beyond semi-loading.
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	
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.		

	Signs of significant cracks or holes?		There are some small cracks on pavement when inspected. There are more on the south side area where the road goes from asphalt to concrete behind the loading building. Some appear to be fixed from previous inspections.
a		Yes	
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	
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 - View Looking East -



Photo 2 -

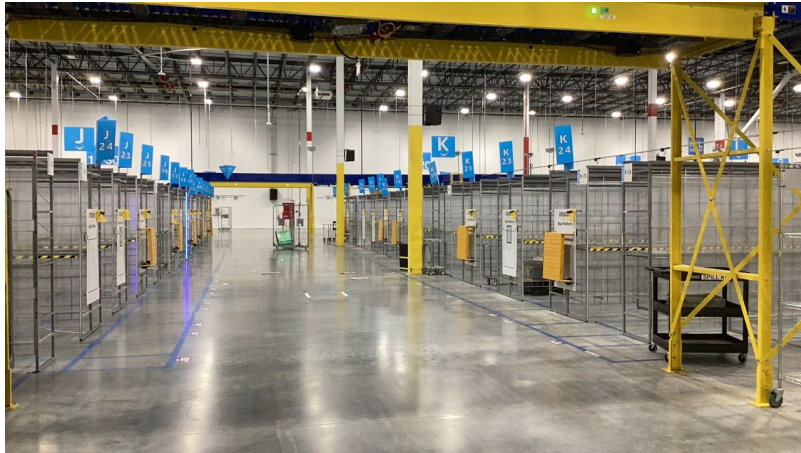


Photo 3 -

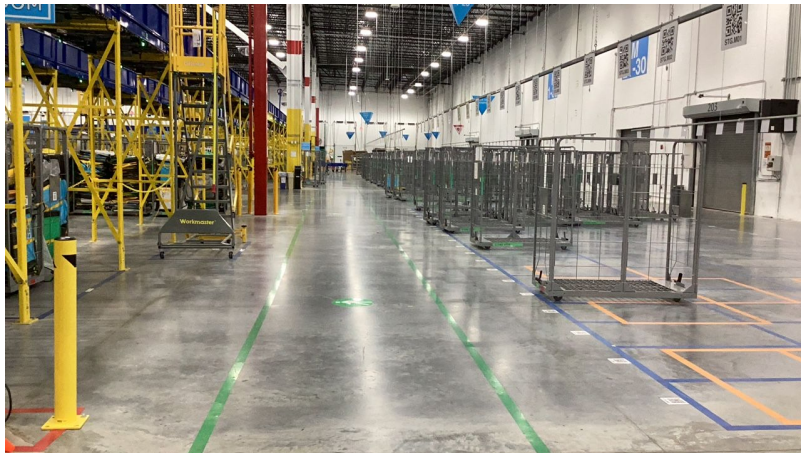


Photo 4 -

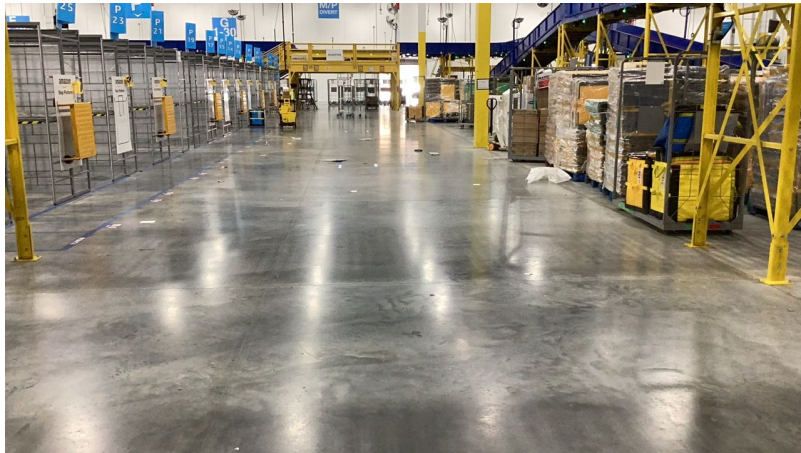


Photo 5 -

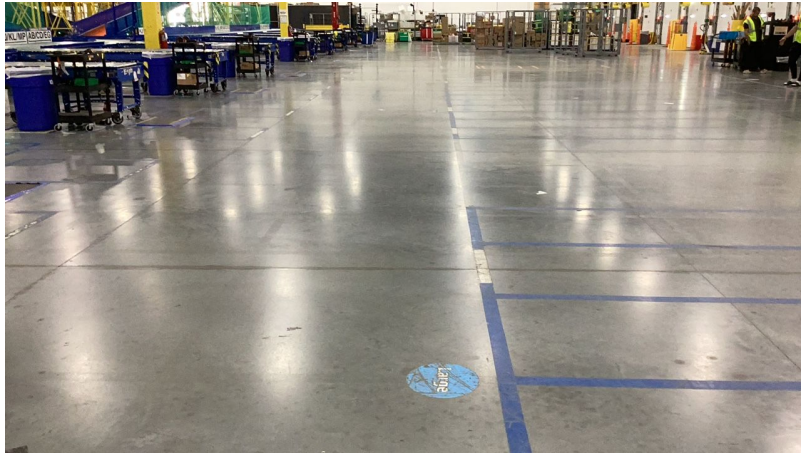


Photo 6 - View Looking West -

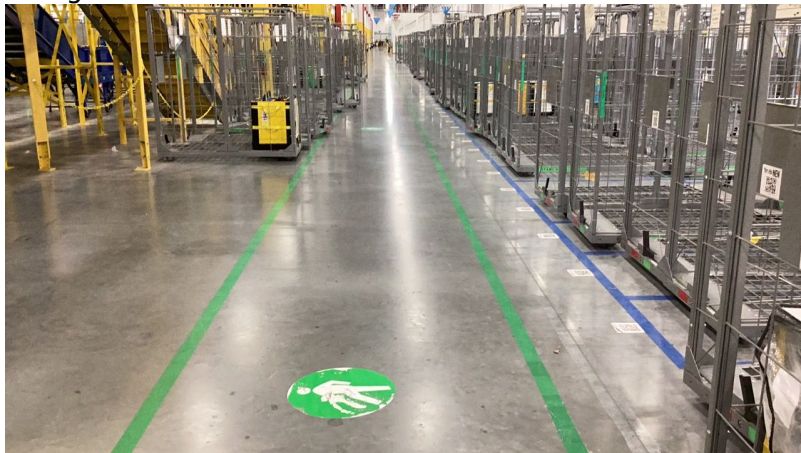


Photo 7 - View Looking West -



Photo 8 - View Looking East -



Photo 9 - View Looking West -



Photo 10 -



Photo 11 -



Photo 12 -



Photo 13 - View Looking South -



Photo 14 - View Looking South -



Photo 15 - View Looking East -

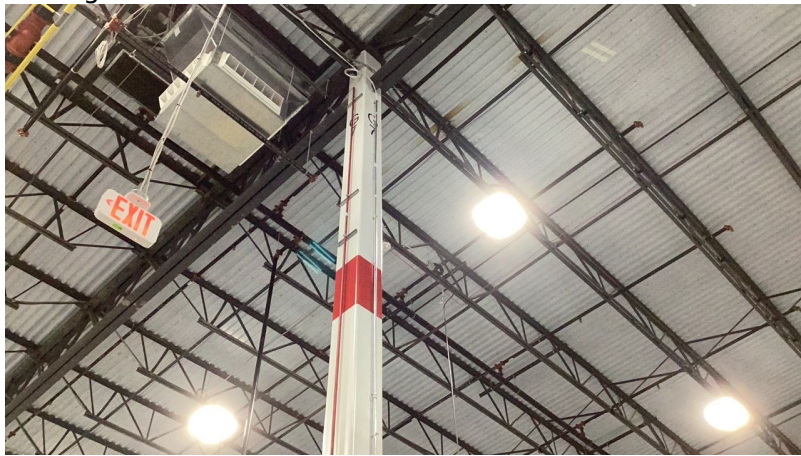


Photo 16 - View Looking West -



Photo 17 - View Looking West -



Photo 18 - View Looking South -



Photo 19 - View Looking South -



Photo 20 - View Looking East -



Photo 21 -



Photo 22 -



Photo 23 - View Looking South -



Photo 24 - View Looking South -



Photo 25 - View Looking West -



Photo 26 - View Looking East -



Photo 27 - View Looking East -



Photo 28 - View Looking West -



Photo 29 - View Looking West -



Photo 30 - View Looking East -



Photo 31 - View Looking East -



Photo 32 - View Looking East -



Photo 33 - View Looking South -



